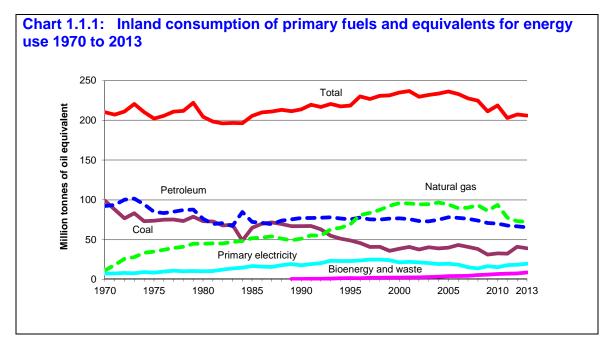
## **Chapter 1: Long term trends**

### **Energy**

#### Inland consumption of primary fuels (Table 1.1.1)

1.1.1 The trends in inland consumption of primary fuels for energy use are illustrated below in Chart 1.1.1. Overall consumption for energy use increased steadily up to 1973, when the oil price rose following the Arab-Israeli war of that year which led to a major change in patterns of fuel consumption. Having reached a level of over 220 million tonnes of oil equivalent in 1973, energy use subsequently fell, but by 1979 had returned to a similar level to that in 1973. After the outbreak of another Middle East war, consumption fell back to less than 200 million tonnes of oil equivalent in the years 1981 to 1984. It then grew again, and by 1996 had exceeded the peak levels of 1973 and 1979. In 2005 it had grown to 236.3 million tonnes, but has since fallen back by 13 per cent to 205.9 million tonnes in 2013. The last few years have been affected by a number of factors: the recession in 2009 reduced consumption; particularly cold weather in 2010 resulted in an increase in demand; whilst warm weather in 2011 caused consumption to fall back. Since 2005, consumption has fallen back by an average of 1.7 per cent per annum.

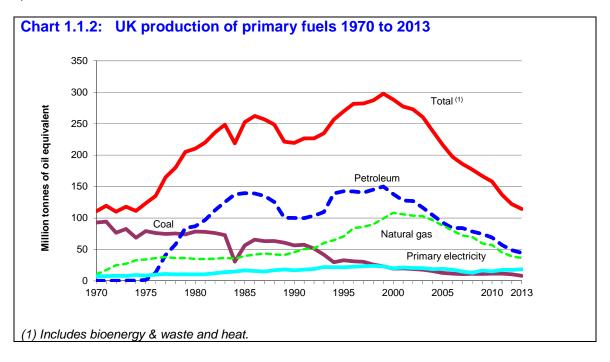


- 1.1.2 Petroleum consumption continued to grow in the period 1970 to 1973, despite strong growth in consumption of natural gas and primary electricity, mainly nuclear. After 1973, consumption of petroleum products declined for ten years, following much the same pattern as coal use. In 2003 petroleum consumption had fallen to its lowest level since 1987, but consumption then rose, peaking in 2005, though it has since fallen back each year, and is now 16 per cent below its 2005 level.
- 1.1.3 Between 1970 and 1999 coal consumption declined at a fast rate down on average 3.4 per cent per year over that period. Consumption increased slightly into 2000 and then remained fairly steady until 2008, before falling back for the next three years as less coal was used in generation. In 2012, due to low coal prices compared to gas, generators demand for coal was up by almost a third resulting in overall coal demand being up by 27 per cent. Coal demand fell back slightly in 2013, though coal still accounted for a 36 per cent share of electricity generation. The kinks in the demand for coal and petroleum in 1984 are a result of the miner's strike of that year, when oil was used as a substitute for unavailable coal. In 1970 coal accounted for 47 per cent of all fuels consumed. In 1980 this figure had fallen to 36 per cent, in 1990 31 per cent, and in 2010 it had declined further to 15 per cent, though its share rose in 2013 to 19 per cent.

- 1.1.4 Natural gas consumption, which accounted for only 5.4 per cent of all fuels consumed in 1970, grew steadily from this period, and exceeded petroleum consumption for the first time in 1996; by 2004 it accounted for 41 per cent of all fuels consumed. This fell back in 2006 to 38 per cent as the sharp rise in prices in that year resulted in generators switching some gas fired electricity production to coal fired generation. In 2010, its share had risen back to a record level of 43 per cent as a number of generators, early in the year, switched back some production from using coal to gas fired stations, and there was increased domestic demand due to the colder weather. However, higher prices resulted in less use in generation in both 2012 and 2013, and its share fell back to 35 per cent in 2013.
- 1.1.5 Consumption of bioenergy and waste continued to increase, accounting for 0.3 per cent of all fuels consumed in 1990, but increasing to 4.3 per cent in 2013<sup>1</sup>. The share of primary electricity peaked at 11 per cent in 1997, before falling back to a low of 6.2 per cent in 2008. Its share has since grown to 9.6 per cent in 2013, due to a number of factors: increased nuclear availability following maintenance outages in previous years; and substantially increased wind production resulting from much increased capacity and stronger wind speeds in 2013.

### Availability and consumption of primary fuels and equivalents (Table 1.1.2)

- 1.1.6 An overall view of energy presented in the form of energy balances is given in Table 1.1.2. It is based on Chapter 1, Tables 1.1 to 1.3, of the main Digest with the time series extended back to 1970. Supplies and uses of energy are expressed on an energy-supplied basis in tonnes of oil equivalent, and are balanced by fuel type and for total energy. More details on the derivation of these balances and on the calculation of energy contents are given in Chapter 1, paragraphs 1.30 to 1.31 and Annex A of the main Digest.
- 1.1.7 Trends in the production of primary fuels in the United Kingdom are illustrated in Chart 1.1.2. In 2013, total energy production was 114 million tonnes of oil equivalent, an increase of 3.2 per cent on production in 1970, but down by 62 per cent since output peaked in 1999. Total energy production has fallen in each of the last 14 years. In the last ten years, UK energy production has declined at a rate of 7.9 per cent per year; within this natural gas production has declined at the fastest rate, down 9.8 per cent per year, followed by petroleum down 9.2 per cent, coal down 7.6 per cent with primary electricity down 1.0 per cent per year. Bioenergy and waste has grown by an average 8.6 per cent per year over this same time period, though in 2013 accounted for only 6.0 per cent of the UK's energy production.

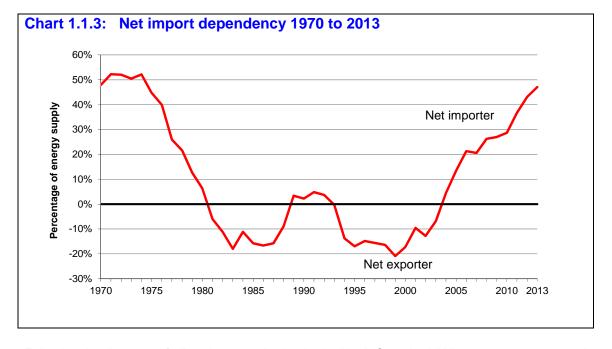


<sup>&</sup>lt;sup>1</sup> The renewables share was 5.2% in 2013 on the "target measure" – see chapter 6 of DUKES for more detail.

- 1.1.8 From 1975, petroleum production grew rapidly to peak at over 139 million tonnes of oil equivalent in 1985 when it accounted for 55 per cent of the total energy production of 252.5 million tonnes of oil equivalent. By 1991, temporary production problems, following the Piper Alpha disaster of 1988, had reduced petroleum production to 100 million tonnes of oil equivalent. Since then petroleum production steadily recovered, reaching a record level of 150 million tonnes of oil equivalent in 1999. Between 1999 and 2006 production of petroleum fell by 44 per cent. Production levels stabilised in 2007 as output from new fields (Buzzard) offset the general decline in production. However, output has since fallen by 47 per cent to leave it down 70 per cent from its peak in 1999. Petroleum production currently accounts for 39 per cent of total energy production.
- 1.1.9 Natural gas from the North Sea started to be produced in substantial quantities from the early 1970s, accounting for 9.4 per cent of total production in 1970, and grew steadily to peak at 108.4 million tonnes in 2000. Since then natural gas production has eased and by 2013 had fallen by 66 per cent from this peak. In 2013 gas accounted for 32 per cent of total energy production.
- 1.1.10 In 1970 coal accounted for 84 per cent of total energy production. In 1980, with the increase in petroleum and natural gas production, coal production fell to 37 per cent of total energy production, falling further to below 10 per cent in 1998. In 2013, following the closure of a number of mines, coal accounted for 7.0 per cent of total energy production.
- 1.1.11 Primary electricity (nuclear, wind and hydro combined) accounted for a then record 9.9 per cent of production in 2009, as nuclear output recovered from the outages of 2008, allied with strong growth in output of wind generation. Its share fell back marginally in 2010 as nuclear outages, lower average wind speeds and lower rainfall more than offset the increased wind capacity available. However, by 2013 the share had increased to a record 16 per cent, with increases in nuclear and wind. Output of primary electricity was down 23 per cent in 2013 from its peak in 1998.

## Comparison of net imports of fuel with total consumption of primary fuels and equivalents (Table 1.1.3)

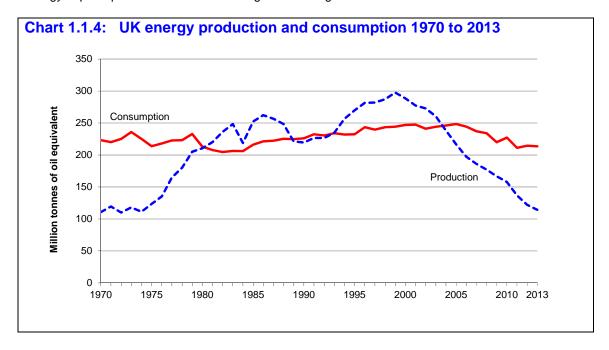
1.1.12 In Table 1.1.3 and Chart 1.1.3 gross fuel consumption in the United Kingdom, including non-energy use and international marine bunkers, is compared with net imports of fuel to show the UK's net import or net export dependency ratio. In the 1970's the UK was a net importer of energy.



Following development of oil and gas production in the North Sea, the UK became a net exporter in 1981. Output fell back in the late 1980's following the Piper Alpha disaster, with the UK regaining a position as a net exporter in the mid 1990's. North Sea production peaked in 1999, and the UK returned to being an energy importer in 2004. In 2013 the UK became a net exporter of oil products, following closure of the Coryton refinery in 2012, and the UK is now a net importer of all fuels. In

2013, 47 per cent of energy used in the UK was imported, up sharply from the 2010 level as North Sea oil and gas output fell following adverse weather conditions as well as a number of maintenance issues. The import dependency ratio is at its highest level since 1974.

1.1.13 Chart 1.1.4 shows United Kingdom primary energy production and consumption (from Tables 1.1.2 and 1.1.3) and also illustrates the degree to which the United Kingdom was dependent on energy imports prior to North Sea oil and gas becoming available.



#### **Energy ratio (Table 1.1.4)**

1.1.14 The relationship between energy consumption and economic activity at the aggregate level can be gauged by comparing a country's temperature corrected inland primary energy consumption with its gross domestic product (GDP). This approach is simple and comprehensive but it has a number of drawbacks which were discussed in the articles in the August 1976, May 1981 and May 1989 issues of *Economic Trends* (The Stationery Office). In September 2011 the methodology used by DECC was modified to move from using temperature deviations to a heating degree day methodology.

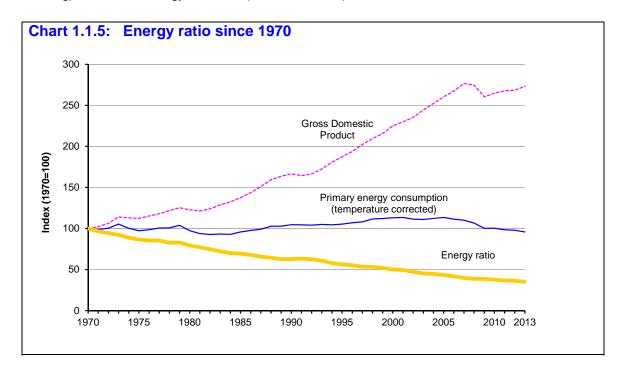
1.1.15 Heating degree days (HDD) are defined relative to a base temperature - the outside temperature above which a building needs no heating. DECC use 15.5° as the base data, as this seems the value most commonly used by other comparable countries, and a higher value did not produce appreciably better results. If the average outside air temperature on a given day is above this base temperature, you will not need to use any energy for heat; whilst if it is below, then your heat requirement that day will be in proportion to the temperature deficit in degrees. For example, using a base of 15.5°, if a day has an average temperature of 10°, then we calculate the HDD as 5.5. If the outside average temperature was minus 2°, then we would calculate the HDD as 17.5. The HDD's are summed for the month, and this value is then compared with the long term average. For example the long term average (from 1981 to 2010) for November is 248 HDD or 8.26 degrees per day. November 2009 and 2011 were mild, and the HDD was calculated as 212 and 179 HDD respectively, whilst the colder Novembers of 2010 and 2012 had 304 and 265 HDD. The above numbers are calculated based on the average daily temperature (the average of the maximum and the minimum temperature) at each of 17 locations around the UK. More details of the methodology are detailed in an article in the June 2011 edition of Energy Trends.

1.1.16 The temperature corrected series of total inland fuel consumption given in Table 1.1.4 indicates what annual consumption might have been if the number of heating degree days for a year had been the same as the average for the years 1981 to 2010. The long term averages were updated to cover this revised period in June 2013. Different adjustment factors are then used for each month for each fuel. Research showed that temperature extremes had more effect on energy demand in the

spring and autumn than that in winter and summer. In particular April, September and October showed the largest effects. In the summer, a 1 degree change may not be sufficient to result in additional heating being used. However, in October, a 1 degree difference may well be sufficient to result in heating being turned on or turned off, so resulting in a larger change.

1.1.17 Table 1.1.4 shows the United Kingdom's temperature corrected inland primary energy consumption in column B and GDP at constant prices since 1970 (column D), both expressed in absolute units (millions of tonnes of oil equivalent and billions of pounds sterling at 2010 prices respectively). Dividing energy consumption by GDP yields the energy ratio, which is expressed in column F of the table as energy consumed per million pound of GDP and in column G as an index number based on 1970=100. For GDP at constant prices the published measure of GDP at market prices at 2010 prices has been used. The GDP figures used are on the European System of Accounts (ESA 95) basis, consistent with the UK national accounts.

1.1.18 Chart 1.1.5 illustrates trends in primary energy consumption, GDP and the energy ratio over the period 1970 to 2013. It shows that energy ratio fell steadily (with the exception of 1979 and 1991) from its 1970 level to 35 per cent of that level by 2013, an average decrease of around 2.4 per cent per annum. The pace of fall has remained fairly steady throughout the past 40 years, averaging 2.4 per cent per annum since 1970. The strong downward trend since 1970 is explained by at least four factors: improvements in energy efficiency; saturation in the ownership levels and improved efficiency of the main domestic appliances; the unresponsiveness of certain industrial uses, like space heating, to long run output growth; and a structural shift away from energy intensive activities (such as steel making) towards low energy industries (such as services).



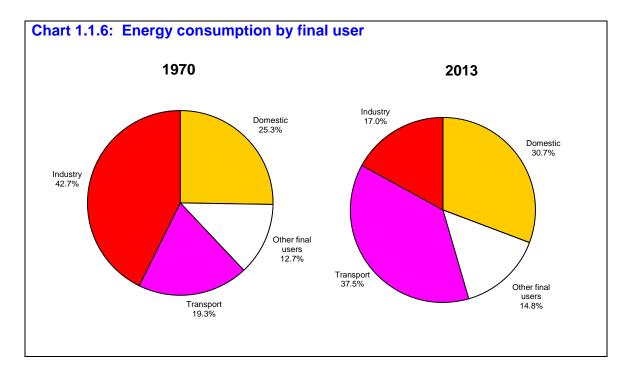
#### **Energy consumption by final user (Table 1.1.5)**

1.1.19 Figures for energy consumption (excluding non-energy use) by category of final users are given in Table 1.1.5. Final users' consumption is net of the fuel industries' own use and conversion, transmission and distribution losses, but it includes conversion losses by final users. The user categories are industry (including iron and steel), transport (including coastal shipping), domestic and other final users (public administration, agriculture, commerce and other sectors), see Chapter 1, paragraphs 1.56 to 1.60 of the main Digest.

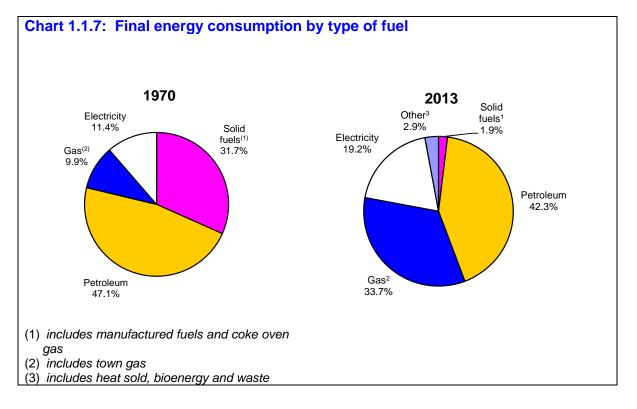
1.1.20 Up to 1986, data for final consumption of electricity include acquisitions from public supply, output of industrial nuclear stations, and amounts produced by transport undertakings and industrial hydropower for final consumption. From 1987 onwards, all consumption of electricity, whether produced by major power producers or by other generators, are included. There is a corresponding

change in treatment, between 1986 and 1987, for other fuels used in electricity generation (see Chapter 1, paragraph 1.36 of the main Digest).

- 1.1.21 Overall consumption by final users has followed the same pattern as overall primary energy consumption since 1970, accounting for around 70 per cent of the total consumption throughout the period.
- 1.1.22 In 1970, the industry sector (including iron and steel) had the greatest level of consumption, with 43 per cent of total final energy consumption. However, since 1970 this sector has steadily reduced its consumption, falling to 34 per cent in 1980 and 26 per cent of total final consumption in 1990. It now stands at 17 per cent of total final consumption for energy use. This share is now less than that of the domestic sector which, has retained around the same share of around 30 per cent since 1980. In 2011 the domestic share fell back to 28 per cent due to the warmer weather, but with more normal temperatures in 2013 returned to a share of 31 per cent. The greatest growth has been in the transport sector; this had a share of 19 per cent in 1970, before growing to 25 per cent in 1980, 33 per cent in 1990 and to just under 40 per cent in 2011 before falling back to 37 per cent in 2013. Service sector consumption has remained steady from 1970 to 2013 and accounted for just under 15 per cent of total final consumption in 2013.
- 1.1.23 A comparison of energy consumption for energy purposes by final users in 1970 and 2013 is shown in Chart 1.1.6.



1.1.24 Table 1.1.5 also shows trends in final energy consumption for individual fuels. In 1970, consumption of coal and other solid fuels accounted for 32 per cent of final energy consumption, but this share has declined steadily to around 2 per cent in 2013. Over this period consumption of natural gas has increased rapidly, up from 10 per cent in 1970 to stand at 34 per cent in 2013. In 1970, town gas accounted for 7 per cent of consumption; however use of town gas was phased out in the mid 1970s. Electricity consumption has made steady progress over the last three decades, rising from 11 per cent of the total in 1970 to just under 20 per cent in 2013. Petroleum's share has remained broadly steady, with a 47 per cent share in 1970 falling back to 40 per cent in 1985, though this has since risen to 42 per cent in 2013. A comparison of final energy consumption for individual fuels in 1970 and 2013 is shown in Chart 1.1.7.



### **Expenditure on energy by final user (Table 1.1.6)**

- 1.1.25 Total expenditure on fuels is presented in Table 1.1.6 from 1970, and figures for recent years are illustrated in Chapter 1, Chart 1.6 of the main Digest. Data for the latest years are taken from the value balances (Chapter 1, Tables 1.4 to 1.6 of the main Digest) whilst earlier years are taken from their forerunner tables of estimated values of energy purchases by sector. As before, coal purchased by the iron and steel sector and shown in the transformation section of the energy value balance table is included as a final purchase by the industry sector of coal.
- 1.1.26 Overall final expenditure on energy was up by just over £2 billion (1.8 per cent) in 2013 compared to 2012, as prices of fuels again increased marginally following the sharp rises of 2010 and 2011. The level of £133 billion in 2013 is more than double that of 2000 and nearly three times than that in 1990. The change in the final expenditure for all fuels over the past few years have mainly been driven by changes in the price of oil, which rose steadily throughout 2010 and into April 2011, before remaining at these elevated levels for the rest of the year and throughout 2013. The slight rise in 2013 was mainly due to price rises for both gas and electricity.
- 1.1.27 The makeup of total expenditure has changed through time, reflecting structural or long term changes in fuel mix and shorter term price and consumption effects. In 1970, expenditure on coal and coke accounted for around 15 per cent of total final expenditure, but was down to 1 per cent in 2013. By contrast, the general increase in the consumer price of petroleum (where duty is a major component) has meant that petroleum's share of expenditure rose from 45 per cent of all expenditure in 1970 to 64 per cent in 2004. This percentage has since fallen to 51 per cent in 2009, before rising to 57 per cent in the warm 2011, when spending on heating fuels was reduced due to the warm weather, and back to 53 per cent in 2013.

#### Mean air temperatures and heating degree days (Tables 1.1.7, 1.1.8 and 1.1.9)

1.1.28 Table 1.1.7 gives the average air temperatures in Great Britain between 1981 and 2010 by year, part year and month. Deviations from these means are presented for January 2000 to December 2013. Table 1.1.8 provides similar data, but for heating degree days rather than average temperatures. These heating degree deviations are used to provide the temperature corrected consumption series shown in Table 1.1.4.

1.1.29 Average monthly temperatures back to 1970 are also given in Table 1.1.9. The daily average temperature for 2013 was 0.2 degrees lower than the long term mean covering 1981 to 2010, and broadly unchanged compared to 2012. The year 2010 was the coldest since 1987 and included the coldest December for 100 years. The year 2011, according to the Met Office, was the second warmest on record and included the warmest April for over 100 years. Temperatures in both 2012 and 2013, despite being below those from 1997 through to 2009, were closer to the longer term thirty year average.

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# 1.1.1 Inland consumption of primary fuels and equivalents for energy use, 1970 to 2013

		1970	1971	1972	1973	1974
In original units of meas	surement Un		-			
Coal (1)	M.tonnes	156.9	139.3	122.4	133.0	117.9
Petroleum (2)	W.torinos	87.0	88.0	94.2	95.3	88.5
Natural gas (3)	GWh	131,472	212,037	300,808	325,455	389,286
Nuclear electricity (4)		26,039	27,418	29,275	27,757	33,377
Hydro electricity (4)(5)		4,539	3,397	3,429	3,874	4,095
Million tonnes of oil equ	uivalent					
Coal (1)		99.0	87.7	76.8	83.2	73.3
Petroleum (2)		92.4	93.5	100.2	101.5	94.3
Natural gas (3)		11.3	18.2	25.9	28.0	33.5
Nuclear electricity (4)		7.0	7.4	7.9	7.5	9.0
Hydro electricity (5)		0.4	0.3	0.3	0.3	0.4
Total		210.1	207.1	211.0	220.5	210.4
Percentage shares (ene	rgy supplied basis)					
Coal		47.1	42.3	36.4	37.7	34.8
Petroleum		44.0	45.2	47.5	46.0	44.8
Natural gas		5.4	8.8	12.3	12.7	15.9
Nuclear electricity		3.3	3.6	3.7	3.4	4.3
Hydro electricity		0.2	0.1	0.1	0.2	0.2
Fossil fuel dependency (7)		96.5	96.3	96.2	96.4	95.5
		1975	1976	1977	1978	1979
In original units of meas	surement Un					
Coal (1)	M.tonnes	120.0	122.0	122.7	119.9	129.6
Petroleum (2)		79.4	77.8	79.3	81.2	81.6
Natural gas (3)	GWh	407,750	432,661	459,858	477,002	521,197
Nuclear electricity (4)		30,215	35,570	39,575	37,065	38,062
Hydro electricity (4)(5)		3,789	4,552	3,919	4,038	4,289
Million tonnes of oil equ	ıivalent					
Coal (1)		73.7	75.0	75.3	73.3	78.8
Petroleum (2)		85.0	83.5	85.1	87.2	87.7
Natural gas (3)		35.1	37.2	39.5	41.0	44.8
Nuclear electricity (4)		8.1	9.6	10.6	10.0	10.2
Hydro electricity (5)		0.3	0.4	0.3	0.3	0.4
Total		202.2	205.6	210.9	211.8	221.9
Percentage shares (ene	rgy supplied basis)					
Coal		36.5	36.5	35.7	34.6	35.5
Petroleum		42.0	40.6	40.4	41.2	39.5
Natural gas		17.3	18.1	18.7	19.4	20.2
Nuclear electricity		4.0	4.6	5.0	4.7	4.6
Hydro electricity		0.2	0.2	0.2	0.2	0.2
Fossil fuel dependency (7)		95.8	95.2	94.8	95.2	95.2
		1000	1001	1000	1002	1001
In original units of meas	surement	1980	1981	1982	1983	1984
	Unit					
Coal (1)	M.tonnes	120.8	118.2	110.7	111.5	79.0
Petroleum (2)		70.5	64.2	65.2	61.7	78.6
Natural gas (3)	GWh	521,051	528,114	525,476	547,750	560,410
Nuclear electricity (4)		36,870	37,897	44,212	50,138	53,957
Hydro electricity (4)(5)	•	3,934	4,383	4,558	4,563	4,005
Million tonnes of oil equ	uivalent	70.0	70.0	60.0	00.0	40 =
Coal (1)		73.3	72.9	68.0	68.6	48.7
Petroleum (2)		76.2	69.5 45.4	70.7	67.2	84.7
Natural gas (3) Nuclear electricity (4)		44.8 9.9	45.4 10.2	45.2 11.0	47.1 13.5	48.2 14.5
Hydro electricity (4)(5)		0.3	0.4	11.9 0.4	0.4	0.3
Total (6)		204.5	198.4	196.1	196.8	196.4
Percentage shares (ene	rgy supplied basis)					
Coal	o,,)	35.8	36.7	34.7	34.9	24.8
Petroleum		37.3	35.0	36.0	34.2	43.1
Natural gas		21.9	22.9	23.0	23.9	24.5
Nuclear electricity		4.8	5.1	6.1	6.8	7.4
Hydro electricity		0.2	0.2	0.2	0.2	0.2
Fossil fuel dependency (7)		95.0	94.6	93.7	93.0	92.4

# 1.1.1 Inland consumption of primary fuels and equivalents for energy use, 1970 to 2013 continued)

cquiva	CIIICO IOI	chici gy	u30, 10	77 0 10 2		
n original units of measu	iromont	1985	1986	1987	1988	198
ii originai units or meast	Un					
Coal (1)	M.tonnes	105.3	113.5	116.2	112.0	108
Petroleum (2)		66.5	65.3	63.5	67.8	69.
Natural gas (3)	GWh	602,701	612,724	629,311	597,220	571,18
Nuclear electricity (4)		61,391	59,079	55,238	63,456	71,73
Hydro electricity (4)(5)		4,093	4,780	4,198	4,919	4,75
Net electricity imports			4,255	11,635	12,830	12,63
Million tonnes of oil equiv	valent					
Coal (1)		64.8	70.0	71.7	70.0	67.
Petroleum (2)		72.2	71.1	69.4	74.0	75.
Natural gas (3)		51.8	52.7	54.1	51.4	49
Nuclear electricity (4)		16.5	15.4	14.4	16.6	17
Hydro electricity (4)(5)		0.4	0.4	0.4	0.4	0
Net electricity imports			0.4	1.0	1.1	1
Bioenergy & waste						0
otal (6)		205.7	210.0	211.0	213.5	211
Percentage shares (energ	gy supplied basis)	24.5	22.2	24.0	20.0	24
Coal		31.5	33.3	34.0	32.8	31
Petroleum		35.1	33.9	32.9	34.7	35
Natural gas		25.2	25.1	25.6	24.1	23
Nuclear electricity		8.0	7.4	6.8	7.8	8
Hydro electricity		0.2	0.2	0.2	0.2	0
Net electricity imports			0.2	0.5	0.5	0
Bioenergy & waste						0
ossil fuel dependency (7)		91.8	92.3	92.5	91.6	90
		1990	1991	1992	1993	19
n original units of measu	<b>Irement</b> Unit					
Coal (1)	M.tonnes	108.4	107.6	101.1	87.4	82
Petroleum (2)		70.6	70.6	70.9	71.5	70
Natural gas (3)	GWh	595,131	643,863	640,459	732,090	754,28
Nuclear electricity (4)	"	65,749	70,543	76,807	76,807	89,35
Hydro electricity (4)(5)		5,216	4,635	5,465	5,465	4,52
Net electricity imports		11,943	16,408	16,694	16,716	16,88
	alaut	11,545	10,400	10,034	10,710	10,00
<b>Million tonnes of oil equi</b> Coal <i>(1)</i>	valent	66.9	67.1	63.0	55.0	51
Petroleum (2)		77.2	77.1	77.5	78.1	76
Natural gas (3)		51.2	55.4	55.1	62.9	64
Nuclear electricity		16.3	17.4	18.5	21.6	21
Hydro electricity (5)		0.4	0.4	0.5	0.5	- 0
Net electricity imports		1.0	1.4	1.4	1.4	1
Bioenergy & waste		0.7	0.7	0.8	1.2	1
otal (6)		213.6	219.5	216.7	220.7	217
Percentage shares (energ	ov supplied basis)					
Coal	,,	31.3	30.6	29.1	24.9	23
Petroleum		36.1	35.1	35.8	35.4	35
Natural gas		24.0	25.2	25.4	28.5	29
Nuclear electricity		7.6	7.9	8.5	9.8	
Hydro electricity		0.2	0.2	0.2	0.2	d
Net electricity imports		0.5	0.6	0.2	0.2	0
Bioenergy & waste		0.3	0.3	0.4	0.5	0
ossil fuel dependency (7)		91.4	90.9	90.2	88.8	88
ossii idei deperidency (7)						
n original units of measu	ırement	1995	1996	1997	1998	19
	Unit					
Coal (1)	M.tonnes	77.2	72.1	63.5	63.2	55
Petroleum (2)		68.9	71.3	68.7	68.6	69
Natural gas (3)	GWh	805,058	941,841	971,503	1,015,486	1,075,90
Nuclear electricity (4)		88,282	94,671	98,146	99,486	95,10
Hydro electricity (4)(5)	-	5,438	3,879	4,836	5,994	6,18
Net electricity imports		16,313	16,755	16,574	12,468	14,2
lillion tonnes of oil equiv	valent	40.0	45 -	40.0	** 0	
Coal (1) Petroleum (2)		48.9	45.7	40.8	41.0	36
Vatural gas (3)		75.4	77.8	75.5	75.4	76
Natural gas (3) Nuclear electricity		69.2	81.0 22.1	83.5 23.1	87.3 23.4	92 22
Nuclear electricity Hydro electricity (5)		21.3 0.5	22.1 0.3	23.1 0.4	23.4 0.5	22
		0.5 1.4	0.3 1.4	1.4	0.5 1.1	1
Net electricity imports Bioenergy & waste		1.4	1.4	1.4	2.1	2
otal (6)		218.4	230.0	226.8	230.7	231
ercentage shares (energ	ny sunnlied bacie)	210.4	200.0	220.0	200.1	201
rercentage snares (energ Coal	ay supplied basis)	22.4	10.0	18.0	17.8	15
Petroleum		34.5	19.9 33.8	33.3	32.7	
Petroleum Natural gas			33.8			33
		31.7 9.7	35.2 9.6	36.8 10.2	37.8 10.2	40 9
			0.1	0.2	0.2	0
Nuclear electricity					U.Z	
Nuclear electricity Hydro electricity		0.2			0.5	^
Nuclear electricity Hydro electricity Net electricity imports		0.6	0.6	0.6	0.5 0.9	0
Nuclear electricity Hydro electricity					0.5 0.9 88.3	

## 1.1.1 Inland consumption of primary fuels and equivalents for energy use, 1970 to 2013 (continued)

Unit M.tonnes 59.7 63.5 58.8 63.5  " 69.9 69.1 67.0 66.5  " 69.9 69.1 67.0 66.5  " 85.063 90.093 87,848 88,686 electricity (4)/5) " 6,032 5,020 6,047 4,516 imports 14,174 10,399 8,414 2,160  s of oil equivalent  38.5 40.8 37.7 40.5  76.7 75.9 73.5 73.0  95.9 95.6 94.3 94.6  icity 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 raste 234.8 236.9 229.6 231.9  chares (energy supplied basis)  16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 icity 9.4 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 avaste 1.0 1.1 1.2 1.3	9.9.7 63.5 58.8 63.5 61.3 68.3 99.9 69.1 67.0 66.5 68.3 91.2 1,111,363 1,097,031 1,100,616 1,123,922 1063 90,093 87,848 88,686 79,999 032 5,020 6,047 4,516 6,783 174 10,399 8,414 2,160 7,490 18.5 40.8 37.7 40.5 39.1 6.7 75.9 73.5 73.0 75.1 6.7 75.9 73.5 73.0 75.1 9.5 9.6 20.8 20.1 20.0 18.2 0.5 0.4 0.5 0.4 0.6 1.2 0.9 0.7 0.2 0.6 1.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	Unit Coal (1)		In original units of measurement	n original units of measurement		2000 2001 2002 2003 2004		
Unit M.tonnes 59.7 63.5 58.8 63.5  " 69.9 69.1 67.0 66.5  " 69.9 69.1 67.0 66.5  " 85.063 90.093 87,848 88,686 electricity (4)/5) " 6,032 5,020 6,047 4,516 imports 14,174 10,399 8,414 2,160  s of oil equivalent  38.5 40.8 37.7 40.5  76.7 75.9 73.5 73.0  95.9 95.6 94.3 94.6  icity 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 raste 234.8 236.9 229.6 231.9  chares (energy supplied basis)  16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 icity 9.4 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 avaste 1.0 1.1 1.2 1.3	9.9         69.1         67.0         66.5         68.3           942         1,111,363         1,097,031         1,100,616         1,123,922           963         90,093         87,848         88,686         79,999           032         5,020         6,047         4,516         6,783           174         10,399         8,414         2,160         7,490           18.5         40.8         37.7         40.5         39.1           6.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           2.3         2.5         2.8         3.1         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8<	Coal (1)	In original units of measurement						2000 2001 2002 2003 2004
M.tonnes 59.7 63.5 58.8 63.5 66.5 66.5 69.9 69.1 67.0 66.5 66.5 66.5 69.9 69.1 67.0 66.5 66.5 66.5 66.5 66.5 66.5 66.5 66	9.9         69.1         67.0         66.5         68.3           942         1,111,363         1,097,031         1,100,616         1,123,922           963         90,093         87,848         88,686         79,999           032         5,020         6,047         4,516         6,783           174         10,399         8,414         2,160         7,490           18.5         40.8         37.7         40.5         39.1           6.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           1.2         0.9         2.7         0.2         0.6           1.4         236.9         229.6         231.9         233.6           4.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8<	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         87,848         88,686         79,999           Million tonnes of oil equivalent         8,686         79,999         6,047         4,516         6,783           Million tonnes of oil equivalent         8         8         37,7         40.5         39,1           Petroleum (2)         76.5         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5		Unit			original units of measurement	original units of measurement	
" 69.9 69.1 67.0 66.5 clty (4) " 85.063 90.093 87.848 88.686 electricity (4)(5) " 6,032 5,020 6,047 4,516 imports 14,174 10,399 8,414 2,160 s of oil equivalent 38.5 40.8 37.7 40.5 76.7 75.9 73.5 73.0 95.9 95.6 94.3 94.6 city (5) 0.5 0.4 6.2 2.3 2.5 2.8 3.1 20.0 electricity (5) 0.5 0.4 6.2 3.2 2.3 2.5 2.8 3.1 23.4 236.9 229.6 231.9 chares (energy supplied basis) 16.4 17.2 16.4 17.5 40.8 40.8 40.3 41.1 40.8 6.2 40.8 40.3 41.1 40.8 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	9.9         69.1         67.0         66.5         68.3           942         1,111,363         1,097,031         1,100,616         1,123,922           963         90,093         87,848         88,686         79,999           032         5,020         6,047         4,516         6,783           174         10,399         8,414         2,160         7,490           18.5         40.8         37.7         40.5         39.1           6.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           1.2         0.9         2.7         0.2         0.6           1.4         236.9         229.6         231.9         233.6           4.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8<	Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,424         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tomose of oil equivalent         5,020         40,8         37.7         40,5         39.1           Million tomose of oil equivalent         76,7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         12.2         0.9         0.7         0.2         0.6           Net electricity imports	Unit						original units of measurement
(a) GWh 1,114,942 1,111,363 1,097,031 1,100,616 (acity (4) * 85,063 90,093 87,848 88,686 (electricity (4)(5) * 6,032 5,020 6,047 4,516 (imports 14,174 10,399 8,414 2,160 (imports 76,7 75,9 73,5 73,0 (imports 76,7 76,9 76,7 76,9 73,5 73,0 (imports 76,7 76,9 76,7 76,9 73,5 73,0 (imports 76,7 76,9 76,7 76,9 76,7 76,9 76,7 76,9 76,0 76,0 76,0 76,0 76,0 76,0 76,0 76,0	942         1,111,363         1,097,031         1,100,616         1,123,922           963         90,093         87,848         88,686         79,999           902         5,020         6,047         4,516         6,783           174         10,399         8,414         2,160         7,490           185         40.8         37.7         40.5         39.1           16-7         75.9         73.5         73.0         75.1           159         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           1.2         0.9         0.7         0.2         0.6           4.8         236.9         229.6         231.9         233.6           4.4         17.2         16.4         17.5         16.7           127         32.0         32.0         31.5         32.1           0.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Nuclear electricity (4)(4)         " 65,032         90,993         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         " 66,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         9.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Net electricity imports         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8					Unit	Unit	original units of measurement Unit
city (4) " 85,063 90,093 87,848 88,686 electricity (4)(5) " 6,032 5,020 6,047 4,516 imports 14,174 10,399 8,414 2,160 s of oil equivalent  38.5 40.8 37.7 40.5 76.7 75.9 73.5 73.0 95.9 95.6 94.3 94.6 city 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 asate 23.3 2.5 2.8 3.1 234.8 236.9 229.6 231.9 shares (energy supplied basis)  16.4 17.2 16.4 17.5 16.4 17.5 40.8 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 asate 1.0 1.1 1.2 1.3 asate 1.0 1.1 1.2 1.3 asate 1.0 1.1 1.1 1.2 1.3 asate 1.0 1.1 1.2 1.3 asate 1.0 1.1 1.2 1.3 asate 1.0 1.1 1.2 1.3 asate 1.0 1.2 1.3 asate 1.0 1.2 1.2 1.3 asate 1.0 1.2 1.2 1.3 asate 1.0 1.2	063         90,093         87,848         88,686         79,999           032         5,020         6,047         4,516         6,783           174         10,399         8,414         2,160         7,490           68.5         40.8         37.7         40.5         39.1           67         75.9         73.5         73.0         75.1           96.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           1.2         0.9         0.7         0.2         0.6           1.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2	Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Teroleum (a)         23.7         32.0         32.6         23.1         3.5           Percentage shares (energy supplied basis)           Coal<	Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3			Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3
electricity (4)(5)	032         5,020         6,047         4,516         6,783           174         10,399         8,414         2,160         7,490           18.5         40.8         37.7         40.5         39.1           6.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         34.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           1.2         0.9         2.7         0.2         0.6           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3 <td>Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind &amp; Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy &amp; waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)         6         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.</td> <td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3</td> <td></td> <td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3</td> <td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3</td> <td>Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) 69.9 69.1 67.0 66.5 68.3</td> <td>Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 etroleum (2) * 69.9 69.1 67.0 66.5 68</td> <td>original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  troleum (2) " 69.9 69.1 67.0 66.5 68.3</td>	Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)         6         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3		Petroleum (2) " 69.9 69.1 67.0 66.5 68.3	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) 69.9 69.1 67.0 66.5 68.3	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 etroleum (2) * 69.9 69.1 67.0 66.5 68	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  troleum (2) " 69.9 69.1 67.0 66.5 68.3
imports 14,174 10,399 8,414 2,160 s of oil equivalent 38.5 40.8 37.7 40.5 76.7 75.9 73.5 73.0 0) 95.9 95.6 94.3 94.6 icity 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 raste 234.8 236.9 229.6 231.9 chares (energy supplied basis) 16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 raste 1.0 1.1 1.2 1.3	174         10,399         8,414         2,160         7,490           18.5         40.8         37.7         40.5         39.1           16.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           2.3         2.5         2.8         3.1         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           127         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.8 <t< td=""><td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922</td><td>Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922</td><td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922</td><td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922</td><td>Unit  Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  Petroleum (2) " 69.9 69.1 67.0 66.5 68.3  Vatural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922</td><td>Unit  Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 Petroleum (2) " 69.9 69.1 67.0 66.5 68 latural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,92</td><td>original units of measurement           Unit         Unit           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           ettroleum (2)         "         69.9         69.1         67.0         66.5         68.3           atural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922</td></t<>	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922	Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922	Unit  Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  Petroleum (2) " 69.9 69.1 67.0 66.5 68.3  Vatural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922	Unit  Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 Petroleum (2) " 69.9 69.1 67.0 66.5 68 latural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,92	original units of measurement           Unit         Unit           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           ettroleum (2)         "         69.9         69.1         67.0         66.5         68.3           atural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922
38.5   40.8   37.7   40.5	88.5	Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.6           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         23         2.5         2.8         3.1         3.5           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,998	Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Vatural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Vuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 Petroleum (2) " 69.9 69.1 67.0 66.5 68 latural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,92 luclear electricity (4) " 85,063 90,093 87,848 88,686 79,98	original units of measurement           Unit         Unit           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           stural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           uclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999
38.5 40.8 37.7 40.5 76.7 75.9 73.5 73.0 73.0 95.9 95.6 94.3 94.6 loitly 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 2.3 2.5 2.8 3.1 23.4 234.8 236.9 229.6 231.9 chares (energy supplied basis)  16.4 17.2 16.4 17.5 16.4 17.5 16.4 17.5 40.8 40.8 40.3 41.1 40.8 61.5 40.8 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	76.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           96         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           2.3         2.5         2.8         3.1         3.5           4.4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           127         32.0         32.0         31.5         32.1           108         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (f5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         236.6           Percentage shares (energy supplied basis)         Total (6)         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.8         40.8         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,998           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         66.3           Valural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Valuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783	Unit           Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Alatural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 Petroleum (2) " 69.9 69.1 67.0 66.5 68 Ratural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,92 Unclear electricity (4) " 85,063 90,093 87,848 88,686 79,95 Vind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,78	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  etroleum (2) " 69.9 69.1 67.0 66.5 68.3  stural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922  ulcaer electricity (4) " 85,063 90,093 87,848 88,686 79,999  ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783
76.7 75.9 73.5 73.0 95.9 95.6 94.3 94.6 94.3 94.6 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	76.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           96         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           2.3         2.5         2.8         3.1         3.5           4.4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           127         32.0         32.0         31.5         32.1           108         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,92         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,111,492         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490	Unit           Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Wuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490	Unit           Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61           fetroleum (2)         "         69.9         69.1         67.0         66.5         68           latural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,92           luclear electricity (4)         "         85,063         90,093         87,848         88,686         79,92           let electricity imports         14,174         10,399         8,414         2,160         7,45	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  troleum (2) " 69.9 69.1 67.0 66.5 68.3  atural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922  uclear electricity (4) " 85,063 90,093 87,848 88,686 79,999  ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783  at electricity imports 14,174 10,399 8,414 2,160 7,490
95.9 95.6 94.3 94.6 loity 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 limports 1.2 0.9 0.7 0.2 aste 234.8 236.9 229.6 231.9 limports 1.2 10.9 0.7 0.2 limports 234.8 236.9 229.6 231.9 limports 234.8 236.9 29.6 231.9 limports 40.8 40.3 41.1 40.8 loity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 limports 0.5 0.4 0.3 0.1 limports 0.5 0.5 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	55.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           2.3         2.5         2.8         3.1         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         23.4         23.6         22.9         229.6         23.0         23.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity (imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         *	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,993         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent	Petroleium (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Vind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Vet electricity imports         14,174         10,399         8,414         2,160         7,490           Villion tonnes of oil equivalent         14,174         10,399         8,414         2,160         7,490	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 Petroleum (2) " 69.9 69.1 67.0 66.5 68 latural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,92 luclear electricity (4) " 85,063 90,093 87,848 88,686 79,92 fivid & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,78 let electricity imports 14,174 10,399 8,414 2,160 7,48 lillion tonnes of oil equivalent	original units of measurement           Unit         Unit           ball (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           stural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           cyclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           at electricity imports         6,032         5,020         6,047         4,516         6,783           at electricity imports         14,174         10,399         8,414         2,160         7,490           Ilion tonnes of oil equivalent
icity 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 asste 2.3 2.5 2.8 3.1 234.8 236.9 229.6 231.9 chares (energy supplied basis)  16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 asste 1.0 1.1 1.2 1.3	9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           2.3         2.5         2.8         3.1         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)         Fercentage shares (and the state of th	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,995           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Vet electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Vuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1	Unit   Coal (1)   M.tonnes   59.7   63.5   58.8   63.5   61.3	Unit	original units of measurement Unit bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 etroleum (2) " 69.9 69.1 67.0 66.5 68.3 stural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 clear electricity (4) " 85,063 90,093 87,848 88,686 79,999 ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490 Illion tonnes of oil equivalent bal (1) 38.5 40.8 37.7 40.5 39.1
electricity (5) 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 araste 234.8 236.9 229.6 231.9 chares (energy supplied basis) 16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 araste 1.0 1.1 1.2 1.3	0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           2.3         2.5         2.8         3.1         3.5           4.4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           127         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Willion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         66.3           Astural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Aluclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           vet electricity imports         14,174         10,399         8,414         2,160         7,490           Itillion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1	Unit	Unit	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  bar (10) " 69.9 69.1 67.0 66.5 68.3  stural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922  ulcelar electricity (4) " 85,063 90,093 87,848 88,686 79,999  ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783  at electricity imports 14,174 10,399 8,414 2,160 7,490  Illion tonnes of oil equivalent  bal (1) 38.5 40.8 37.7 40.5 39.1  throleum (2) 76.7 75.9 73.5 73.0 75.1
imports 1.2 0.9 0.7 0.2 aste 2.3 2.5 2.8 3.1 234.8 236.9 229.6 231.9 chares (energy supplied basis)  16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 aste 1.0 1.1 1.2 1.3	1.2         0.9         0.7         0.2         0.6           2.3         2.5         2.8         3.1         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           127         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         2         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         86,868         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Nuclear electricity (4)         85,063         90,093         8,7848         88,686         79,999           Vind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Vet electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Deal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6	Unit   Unit   Coal (1)   M.tonnes   59.7   63.5   58.8   63.5   61.3     Petroleum (2)	Unit	original units of measurement Unit bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 etroleum (2) " 69.9 69.1 67.0 66.5 68.3 stural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 uclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 ind & Hydro electricity imports 14,174 10,399 8,414 2,160 7,490  Illion tonnes of oil equivalent ual (1) 38.5 40.8 37.7 40.5 39.1 etroleum (2) 76.7 75.9 73.5 73.0 75.1 etroleum (2) 95.9 95.6 94.3 94.6 96.6
Asste 2.3 2.5 2.8 3.1 234.8 236.9 229.6 231.9 234.8 236.9 229.6 231.9 234.8 236.9 229.6 231.9 234.8 236.9 229.6 231.9 234.8 236.9 229.6 231.9 234.8 236.9 23	2.3         2.5         2.8         3.1         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.8         41.4         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,993         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,292 Mind & Hydro electricity (4) (9 85,063 90,093 87,848 88,686 79,999 Mind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Million tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valtural gas (3) 95.9 95.6 94.3 94.6 96.6 Valcear electricity 19.6 20.8 20.1 20.0 18.2	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,789           Vet electricity imports         *         14,174         10,399         8,414         2,160         7,490           tillilion tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Valural gas (3)         19.6         20.8         20.1         20.0         18.2	Unit	Unit	original units of measurement Unit bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 etroleum (2) " 69.9 69.1 67.0 66.5 68.3 etroleum (3) " 85.063 90.093 87.848 88.686 79.999 ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14.174 10.399 8,414 2,160 7,490 lilion tonnes of oil equivalent bal (1) 38.5 40.8 37.7 40.5 39.1 etroleum (2) 76.7 75.9 73.5 73.0 75.1 stural gas (3) 95.9 95.6 94.3 94.6 96.6 sclear electricity 19.6 20.8 20.1 20.0 18.2
234.8 236.9 229.6 231.9  thares (energy supplied basis)  16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8  ticity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 vaste 1.0 1.1 1.2 1.3	44.8     236.9     229.6     231.9     233.6       6.4     17.2     16.4     17.5     16.7       127     32.0     32.0     31.5     32.1       10.8     40.3     41.1     40.8     41.4       8.4     8.8     8.8     8.6     7.8       0.2     0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)(*)         *         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Stillion tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Fetroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Vuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5	Unit	Unit	original units of measurement Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 betroleum (2) * 69.9 69.1 67.0 66.5 68.3  sturul gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922  ulclear electricity (4) * 85,063 90,993 87,848 88,686 79,999  ind & Hydro electricity (4)(5) * 6,032 5,020 6,047 4,516 6,783  et electricity imports 14,174 10,399 8,414 2,160 7,490  Illion tonnes of oil equivalent  all (1) 38.5 40.8 37.7 40.5 39.1  etroleum (2) 76.7 75.9 73.5 73.0 75.1  stural gas (3) 95.9 95.6 94.3 94.6 96.6  global erelectricity (5) 19.6 20.8 20.1 20.0 18.2  ind & Hydro electricity (5) 0.5 0.4 0.5 0.4
Hares (energy supplied basis)  16.4 17.2 16.4 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 rassle 1.0 1.1 1.2 1.3	6.4 17.2 16.4 17.5 16.7 12.7 32.0 32.0 31.5 32.1 10.8 40.3 41.1 40.8 41.4 8.4 8.8 8.8 8.6 7.8 0.2 0.2 0.2 0.2 0.2 0.5 0.4 0.3 0.1 0.3	Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         20         8,418         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,993         87,848         86,868         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind & Hydro electricity (4/5) " 6,032 5,020 6,047 4,516 6,783 Note electricity imports 14,174 10,399 8,414 2,160 7,490 Nillilion tonnes of oil equivalent Coal (1) 38.5 40.8 37,7 40.5 39,1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 24.0 40.6 Nuclear electricity (5) 0,5 0,4 0,5 0,4 0.6 Net electricity imports 12,2 0,9 0,7 0,2 0.6	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Nuclear electricity (4)         85,063         90,093         8,7848         88,686         79,999           Vind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Viet electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Deal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Vuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Vet electricity imports <td< td=""><td>  Unit</td><td>  Unit</td><td>original units of measurement Unit bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 etroleum (2) " 69.9 69.1 67.0 66.5 68.3 etural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 etalear electricity (4) (** 85,063 90,093 87,848 88,686 79,999 eind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490  Ulion tonnes of oil equivalent bal (1) 38.5 40.8 37.7 40.5 39.1 etroleum (2) 76.7 75.9 73.5 73.0 75.1 etroleum (2) 95.9 95.6 94.3 94.6 96.6 eclear electricity (5) 0.5 0.4 0.5 0.4 et electricity imports 1.2 0.9 0.7 0.2</td></td<>	Unit	Unit	original units of measurement Unit bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 etroleum (2) " 69.9 69.1 67.0 66.5 68.3 etural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 etalear electricity (4) (** 85,063 90,093 87,848 88,686 79,999 eind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490  Ulion tonnes of oil equivalent bal (1) 38.5 40.8 37.7 40.5 39.1 etroleum (2) 76.7 75.9 73.5 73.0 75.1 etroleum (2) 95.9 95.6 94.3 94.6 96.6 eclear electricity (5) 0.5 0.4 0.5 0.4 et electricity imports 1.2 0.9 0.7 0.2
16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 asste 1.0 1.1 1.2 1.3	12.7     32.0     32.0     31.5     32.1       10.8     40.3     41.1     40.8     41.4       8.4     8.8     8.8     8.6     7.8       0.2     0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.8         34.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,14,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         Coal (7)         75.9         73.5         73.0         75.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         "         85,063         90,093         8,7848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Viet electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Auclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           S	Unit	Unit	Original units of measurement           Unit         Unit           pal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           etroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           uclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           st electricity imports         14,174         10,399         8,414         2,160         7,490           llion tonnes of oil equivalent         Stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         76.7         75.9         94.3         94.6         96.6           stroleum (2)         95.9         95.6         94.3         94.6         96.6           stroleur (2)         95.9
32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 ticity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 raste 1.0 1.1 1.2 1.3	12.7     32.0     32.0     31.5     32.1       10.8     40.3     41.1     40.8     41.4       8.4     8.8     8.8     8.6     7.8       0.2     0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         59.7         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38,5         40,8         37,7         40,5         39,1           Petroleum (2)         76,7         75,9         73,5         73,0         75,1           Natural gas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity         19,6         20,8         20,1         20,0         18,2           Wind & Hydro electricity (5)         0.5         0,4         0,5         0,4         0,6           Net electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy & waste         2,3         2,5         2,8         3,1         3,5           Total (6)         234,8         236,9         229,6         231,9	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Patroleum (2)         95.9         95.6         94.3         94.6         96.6           Viola & Hydro electricity         19.6         20.8         20.1         20.0         18.2           Vind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5           Vet electricity imports         1.2         0.9         0.7	Coal (1)	Unit	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  etroleum (2) " 69.9 69.1 67.0 66.5 68.3  sturual gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922  clacear electricity (4) (5) " 85,063 90,093 87,848 88,686 79,999  ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783  et electricity imports 14,174 10,399 8,414 2,160 7,490  Illion tonnes of oil equivalent  ball (1) 38.5 40.8 37.7 40.5 39.1  etroleum (2) 76.7 75.9 73.5 73.0 75.1  attural gas (3) 95.9 95.6 94.3 94.6 96.6  cleaer electricity 196 20.8 20.1 20.0 18.2  ind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6  et electricity imports 1.2 0.9 0.7 0.2 0.6  et electricity imports 1.2 2.8 23.6 231.9 233.6  tall (6) 234.8 236.9 229.6 231.9
40.8 40.3 41.1 40.8 40.3 41.1 40.8 40.1 40.8 40.1 40.8 40.1 40.8 40.1 40.1 40.8 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1	10.8     40.3     41.1     40.8     41.4       8.4     8.8     8.8     8.6     7.8       0.2     0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         86,868         79,992           Wind & Hydroe electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Auclear electricity (4) (*)         85,063         90,093         87,848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Villion tonnes of oil equivalent         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5           Net electricity imports         1.2         0.9         0.7	Unit	Unit	original units of measurement  Dal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 61.3 61.0 et deleuricity (2) " 69.9 69.1 67.0 66.5 68.3 61.3 61.3 61.3 61.3 61.3 61.3 61.3 61
icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 asaste 1.0 1.1 1.2 1.3	8.4     8.8     8.8     8.6     7.8       0.2     0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Nuclear electricity 8.4 8.8 8.6 7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         " 69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         " 85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Net electricity imports         2.3<	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)(*)         *         85,063         90,093         87,848         86,866         79,992           Wind & Hydro electricity (4)(*)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         Coal (*)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Net electricity imports         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Vatural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,323 Vatural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,323 Vatural gas (3) 90.093 87,848 88,686 79,999 Vind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Vetilitilion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Vatural gas (3) 95.9 95.6 94.3 40.4 66.6 Vuclear electricity (5) 95.9 95.6 94.3 40.4 0.6 Vuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Vet electricity imports 1.2 0.9 0.7 0.2 0.6 Vet electricity imports 1.2 0.9 0.7 0.2 0.6 Vet electricity imports 1.2 0.9 229.6 231.9 233.6 Vet electricity electricity (5) 234.8 236.9 229.6 231.9 233.6 Vet electricity electricity (5) 234.8 236.9 229.6 231.9 233.6 Vet electricity electricity electricity (5) 234.8 236.9 229.6 231.9 233.6 Vet electricity e	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90.093         8,7848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Vitillion tonnes of oil equivalent         6,032         5,020         6,047         4,516         6,789           Valural (3)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Vuclear electricity         19.6         20.8         20.1         20.0         18.2           Vind & Hydro electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1 <td>  Coal (1)</td> <td>  Unit</td> <td>original units of measurement           ball (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           strula gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind &amp; Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           st electricity imports         14,174         10,399         8,414         2,160         7,490           ball (1)         38.5         40.8         37.7         40.5         39.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         95.9         95.6         94.3         34.6         96.6           suclear electricity         19.6         20.8         20.1         20.0         18.2           suclear electricity (5)         0.5         0.4         0.5         0.4         0.6           s</td>	Coal (1)	Unit	original units of measurement           ball (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           strula gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           st electricity imports         14,174         10,399         8,414         2,160         7,490           ball (1)         38.5         40.8         37.7         40.5         39.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         95.9         95.6         94.3         34.6         96.6           suclear electricity         19.6         20.8         20.1         20.0         18.2           suclear electricity (5)         0.5         0.4         0.5         0.4         0.6           s
electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 aaste 1.0 1.1 1.2 1.3	0.2     0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3		Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         98.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         7,299.99           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6 <td>Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,992           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Willion tonnes of oil equivalent         76,77         75,9         73,5         73,0         39,1           Petroleum (2)         76,7         75,9         73,5         73,0         75,1           Nuclear electricity agas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity (5)         0,5         0,4         0,5         0,4         0,6           Wind &amp; Hydro electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy &amp; waste         2,3         2,5         2,8         3,1         3,5           Total (6)         234,8         236,9         229,6         231,9         233,6           Percentage shares (energy supplied basis)         16,4         17,2         <t< td=""><td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Valuelar electricity (4) " 85,063 90,093 87,848 88,686 79,999 Mind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent Solution (4) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral electricity 19.6 20.8 20.1 20.0 18.2 Vind &amp; Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Sloenergy &amp; waste 2.3 2.5 2.8 3.1 3.5 otal (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis)</td><td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Billion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Fetroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Vind &amp; Hydro electricity         19.6         20.8         20.1         20.0         18.2           Vind &amp; Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.5           Sciencergy &amp; waste         2.3</td><td>  Coal (1)</td><td>  Unit</td><td>original units of measurement Unit Dal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Petroleum (3) " 85,063 90.093 87,848 88,686 79.999 pind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490                                       </td></t<></td>	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Willion tonnes of oil equivalent         76,77         75,9         73,5         73,0         39,1           Petroleum (2)         76,7         75,9         73,5         73,0         75,1           Nuclear electricity agas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity (5)         0,5         0,4         0,5         0,4         0,6           Wind & Hydro electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy & waste         2,3         2,5         2,8         3,1         3,5           Total (6)         234,8         236,9         229,6         231,9         233,6           Percentage shares (energy supplied basis)         16,4         17,2 <t< td=""><td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Valuelar electricity (4) " 85,063 90,093 87,848 88,686 79,999 Mind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent Solution (4) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral electricity 19.6 20.8 20.1 20.0 18.2 Vind &amp; Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Sloenergy &amp; waste 2.3 2.5 2.8 3.1 3.5 otal (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis)</td><td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Billion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Fetroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Vind &amp; Hydro electricity         19.6         20.8         20.1         20.0         18.2           Vind &amp; Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.5           Sciencergy &amp; waste         2.3</td><td>  Coal (1)</td><td>  Unit</td><td>original units of measurement Unit Dal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Petroleum (3) " 85,063 90.093 87,848 88,686 79.999 pind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490                                       </td></t<>	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Valuelar electricity (4) " 85,063 90,093 87,848 88,686 79,999 Mind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent Solution (4) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral electricity 19.6 20.8 20.1 20.0 18.2 Vind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Sloenergy & waste 2.3 2.5 2.8 3.1 3.5 otal (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Billion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Fetroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Vind & Hydro electricity         19.6         20.8         20.1         20.0         18.2           Vind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.5           Sciencergy & waste         2.3	Coal (1)	Unit	original units of measurement Unit Dal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Petroleum (3) " 85,063 90.093 87,848 88,686 79.999 pind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490
imports 0.5 0.4 0.3 0.1 raste 1.0 1.1 1.2 1.3	0.5 0.4 0.3 0.1 0.3	Wind & rrydro electricity 0.2 0.2 0.2 0.2 0.2	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         86,868         79,992           Wind & Hydroe electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Wind & Hydro electricity (5)         2.3         2.5         2.8         3.1         33.1         32.5           Total (6)         234.8         236.9         229.6<	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Nite electricity imports 14,174 10,399 8,414 2,160 7,490 Nillilion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity (5) 19.6 20.8 20.1 20.0 18.2 Nind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Sloenery & waste 2.3 25.5 2.8 3.1 3.5 Sloenery & waste (16.4 17.2 16.4 17.5 16.7 Petroleum 23.7 32.0 32.0 31.5 32.1 Natural gas 40.8 40.8 40.3 41.1 40.8 41.4	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Auclear electricity (4) (*)         85,063         90,093         8,7848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Villion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Valural gas (3)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Valural gas (3)         95.9         95.6         94.3         94.6 <t< td=""><td>  Unit</td><td>  Unit</td><td>original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           setroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind &amp; Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           ind &amp; Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           steroleum (2)         76.7         75.9         73.5         73.0         75.1           strutural gas (3)         95.9         95.6         94.3         94.6         96.6           stel electricity imports         1.2         0.9         0.7         0.2         0.6           et electricity imports         1.2         0.9         0.7         0.2         0.6</td></t<>	Unit	Unit	original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           setroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           ind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           steroleum (2)         76.7         75.9         73.5         73.0         75.1           strutural gas (3)         95.9         95.6         94.3         94.6         96.6           stel electricity imports         1.2         0.9         0.7         0.2         0.6           et electricity imports         1.2         0.9         0.7         0.2         0.6
vaste 1.0 1.1 1.2 1.3			Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         " 69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         " 85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         " 6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)(*)         *         85,063         90,093         87,848         86,866         79,992           Wind & Hydro electricity (4)(*)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         50         40,8         37,7         40,5         39,1           Petroleum (2)         76,7         75,9         73,5         73,0         75,1           Natural gas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity         19,6         20,8         20,1         20,0         18,2           Wind & Hydro electricity (5)         0,5         0,4         0,5         0,4         0,6           Net electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy & waste         2,3         2,5         2,8         3,1         3,5           Total (6)         234,8         236,9         22	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3.2 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,928 (20) 87,848 88,666 729,999 Mind & Hydro electricity (4) " 85,063 90,093 87,848 88,666 729,999 Mind & Hydro electricity imports 14,174 10,399 8,414 2,160 7,490 Millillon tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 34utral gas (3) 95.9 95.6 94.3 44.0 40.5 40.6 80.0 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Nuclear electricity (6) 234.8 236.9 229.6 231.9 233.6 Natural gas (6) 234.8 236.9 229.6 231.9 233.6 Natural gas (7) 237.6 Natural gas (8) 238.8 238.9 229.6 231.9 233.6 Natural gas (8) 248.8 256.9 259.6 231.9 233.6 Natural gas (9) 249.6 241.9 241.4 Natural gas (9) 249.6 241.9 241.4 Natural gas (9) 240.8 241.1 240.8 241.4 Natural gas (9) 240.8 241.4 241.4 Natural gas (9) 2	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4) (*)         85,063         90,093         8,7848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Villion tonnes of oil equivalent         7,490         8,77         40,5         39.1           Vallion tonnes of oil equivalent         38.5         40.8         37.7         40,5         39.1           Vellar (2)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Vulcear electricity         19.6         20.8         20.1         20.0         18.2           Vind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Vind & Hydro electricity imports         1.2         0.9         0.7         0.	Coal (1)	Unit	original units of measurement           ball (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           stroleum (2)         "         85,063         90.993         87,848         88,686         79,999           sid & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           st electricity imports         14,174         10,399         8,414         2,160         7,490           stal (1)         38.5         40.8         37.7         40.5         39.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         76.7         75.9         93.5         93.6         94.8         44.6         96.6           stroleum (2)         95.9         95.6         94.3         94.6         96.6         96.8         96.6         94.3         94.6         96.6         96.6         94.3         94.6         96.6
	10 11 10 10 15		Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         98.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         6.83           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6 <t< td=""><td>Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         86,868         79,992           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Willion tonnes of oil equivalent         76,77         75,9         73,5         73,0         75,1           Coal (7)         76,7         75,9         73,5         73,0         75,1           Natural gas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity         19,6         20,8         20,1         20,0         18,2           Wind &amp; Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy &amp; waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         <td< td=""><td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Valuelar glactricity (4) " 85,063 90,093 87,848 88,686 79,999 Mind &amp; Hydro electricity (4)(5) " 66,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent Solution (4) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral electricity (5) 0.5 0.4 0.5 0.4 0.6 Valueral electricity (5) 0.5 0.4 0.5 0.4 0.6 Valueral electricity imports 1,2 0.9 0.7 0.2 0.6 Valueral electricity imports 2,3 2.5 2.8 3.1 3.5 Valueral gas (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis) Cola (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis) Cola (4) 8.4 0.8 40.3 41.1 40.8 41.4 Valueral gas (4) 8.4 8.8 8.8 8.6 7.8 Valueral gas (4) 8.4 8.8 8.8 8.6 7.8 Valueral electricity (5) 8.4 8.8 8.8 8.6 7.8 Valueral gas (4) 8.4 0.8 8.8 8.8 8.6 7.8 Valueral gas (4) 8.4 0.8 8.8 8.8 8.6 7.8 Valueral electricity (5) 8.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9</td><td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Nide electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Tetroleum (2)         76.7         75.9         73.5         73.0         75.1           Patroleum (2)         76.7         75.9         73.5         73.0         75.1           Valuelar electricity         19.6         20.8         20.1         20.0         18.2           Vind &amp; Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.6           Vet electricity imports         1.2         0.9         0.7         0.2         0.6</td><td>  Coal (1)</td><td>  Unit</td><td>Original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,161         1,123,922           uclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind &amp; Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           ste electricity imports         14,174         10,399         8,414         2,160         7,490           llion tonnes of oil equivalent         Wall (1)         38.5         40.8         3.7.7         40.5         39.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1         75.0         75.1         73.0         75.1           stural gas (3)         95.9         95.6         94.3         94.6         96.6         94.3         94.6         96.6           stel electricity imports         1.2         0.9         0.7         0.2</td></td<></td></t<>	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         86,868         79,992           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Willion tonnes of oil equivalent         76,77         75,9         73,5         73,0         75,1           Coal (7)         76,7         75,9         73,5         73,0         75,1           Natural gas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity         19,6         20,8         20,1         20,0         18,2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9 <td< td=""><td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Valuelar glactricity (4) " 85,063 90,093 87,848 88,686 79,999 Mind &amp; Hydro electricity (4)(5) " 66,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent Solution (4) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral electricity (5) 0.5 0.4 0.5 0.4 0.6 Valueral electricity (5) 0.5 0.4 0.5 0.4 0.6 Valueral electricity imports 1,2 0.9 0.7 0.2 0.6 Valueral electricity imports 2,3 2.5 2.8 3.1 3.5 Valueral gas (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis) Cola (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis) Cola (4) 8.4 0.8 40.3 41.1 40.8 41.4 Valueral gas (4) 8.4 8.8 8.8 8.6 7.8 Valueral gas (4) 8.4 8.8 8.8 8.6 7.8 Valueral electricity (5) 8.4 8.8 8.8 8.6 7.8 Valueral gas (4) 8.4 0.8 8.8 8.8 8.6 7.8 Valueral gas (4) 8.4 0.8 8.8 8.8 8.6 7.8 Valueral electricity (5) 8.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9</td><td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Nide electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Tetroleum (2)         76.7         75.9         73.5         73.0         75.1           Patroleum (2)         76.7         75.9         73.5         73.0         75.1           Valuelar electricity         19.6         20.8         20.1         20.0         18.2           Vind &amp; Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.6           Vet electricity imports         1.2         0.9         0.7         0.2         0.6</td><td>  Coal (1)</td><td>  Unit</td><td>Original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,161         1,123,922           uclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind &amp; Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           ste electricity imports         14,174         10,399         8,414         2,160         7,490           llion tonnes of oil equivalent         Wall (1)         38.5         40.8         3.7.7         40.5         39.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1         75.0         75.1         73.0         75.1           stural gas (3)         95.9         95.6         94.3         94.6         96.6         94.3         94.6         96.6           stel electricity imports         1.2         0.9         0.7         0.2</td></td<>	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Valuelar glactricity (4) " 85,063 90,093 87,848 88,686 79,999 Mind & Hydro electricity (4)(5) " 66,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent Solution (4) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral electricity (5) 0.5 0.4 0.5 0.4 0.6 Valueral electricity (5) 0.5 0.4 0.5 0.4 0.6 Valueral electricity imports 1,2 0.9 0.7 0.2 0.6 Valueral electricity imports 2,3 2.5 2.8 3.1 3.5 Valueral gas (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis) Cola (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis) Cola (4) 8.4 0.8 40.3 41.1 40.8 41.4 Valueral gas (4) 8.4 8.8 8.8 8.6 7.8 Valueral gas (4) 8.4 8.8 8.8 8.6 7.8 Valueral electricity (5) 8.4 8.8 8.8 8.6 7.8 Valueral gas (4) 8.4 0.8 8.8 8.8 8.6 7.8 Valueral gas (4) 8.4 0.8 8.8 8.8 8.6 7.8 Valueral electricity (5) 8.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Nide electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Tetroleum (2)         76.7         75.9         73.5         73.0         75.1           Patroleum (2)         76.7         75.9         73.5         73.0         75.1           Valuelar electricity         19.6         20.8         20.1         20.0         18.2           Vind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.6           Vet electricity imports         1.2         0.9         0.7         0.2         0.6	Coal (1)	Unit	Original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,161         1,123,922           uclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           ste electricity imports         14,174         10,399         8,414         2,160         7,490           llion tonnes of oil equivalent         Wall (1)         38.5         40.8         3.7.7         40.5         39.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1         75.0         75.1         73.0         75.1           stural gas (3)         95.9         95.6         94.3         94.6         96.6         94.3         94.6         96.6           stel electricity imports         1.2         0.9         0.7         0.2
and the second s	1.0 1.1 1.2 1.3 1.5		Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         " 69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)(5)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) 8 85,063 90,093 87,848 88,686 79,999 10,000 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 MIIIIon tonnes of oil equivalent Coal (1) 38,5 40,8 37,7 40,5 39,1 Petroleum (2) 76,7 75,9 95,6 94,3 94,6 96,6 Nuclear electricity (7) 19,6 20,8 20,1 20,0 18,2 Nuclear electricity imports 12 0,9 0,7 0,2 0,6 Net electricity imports 2,3 2,5 2,8 3,1 3,5 10 10 10 10 10 10 10 10 10 10 10 10 10	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490  Million tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Nuclear electricity 19.6 20.8 20.1 20.0 18.2 Nuclear electricity 19.6 20.8 20.1 20.0 18.2 Nind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Sioenery & waste 2.3 25.5 2.8 3.1 3.5 Sioenery & waste 2.3 26.9 229.6 231.9 233.6  Vercentage shares (energy supplied basis) Coal 16.4 17.2 16.4 17.5 16.7 Petroleum 32.7 32.0 32.0 31.5 32.1 Vuclear electricity (4) 8.4 8.8 8.8 8.6 7.8 Nind & Hydro electricity (4) 8.4 8.8 8.8 8.6 7.8 Nind & Hydro electricity (4) 8.4 8.8 8.8 8.6 7.8 Nind & Hydro electricity (4) 9.2 0.2 0.2 Vet electricity imports 0.5 0.4 0.3 0.1 0.3	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4) (*)         85,063         90,093         8,7848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Vind & Hydro electricity (imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Local (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Valural gas (	Unit	Unit	original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           atural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,999           indear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           st electricity imports         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent           Use of including includ
endency (7) 89.9 89.6 89.5 89.8	9.9 89.6 89.5 89.8 90.2	1.0 1.1 1.2 1.3 1.3	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         " 69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)(5)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) 8 85,063 90,093 87,848 88,686 79,999 10,000 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 MIIIIon tonnes of oil equivalent Coal (1) 38,5 40,8 37,7 40,5 39,1 Petroleum (2) 76,7 75,9 95,6 94,3 94,6 96,6 Nuclear electricity (7) 19,6 20,8 20,1 20,0 18,2 Nuclear electricity imports 12 0,9 0,7 0,2 0,6 Net electricity imports 2,3 2,5 2,8 3,1 3,5 10 10 10 10 10 10 10 10 10 10 10 10 10	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490  Million tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Nuclear electricity 19.6 20.8 20.1 20.0 18.2 Nuclear electricity 19.6 20.8 20.1 20.0 18.2 Nind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Sioenery & waste 2.3 25.5 2.8 3.1 3.5 Sioenery & waste 2.3 26.9 229.6 231.9 233.6  Vercentage shares (energy supplied basis) Coal 16.4 17.2 16.4 17.5 16.7 Petroleum 32.7 32.0 32.0 31.5 32.1 Vuclear electricity (4) 8.4 8.8 8.8 8.6 7.8 Nind & Hydro electricity (4) 8.4 8.8 8.8 8.6 7.8 Nind & Hydro electricity (4) 8.4 8.8 8.8 8.6 7.8 Nind & Hydro electricity (4) 9.2 0.2 0.2 Vet electricity imports 0.5 0.4 0.3 0.1 0.3	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4) (*)         85,063         90,093         8,7848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Vind & Hydro electricity (imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Local (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Valural gas (	Unit	Unit	original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           atural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,999           indear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           st electricity imports         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent           Use of including includ
2005 2000 2007 2000	005 2006 2007 2009 2000		Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Wet electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) 8 85,063 90,093 87,848 88,686 79,999 Wind & Hydro electricity (4)(5) 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Million tonnes of oil equivalent Coal (7) 76,7 75,9 73.5 73.0 75.1 Natural gas (3) 95,9 95,6 94,3 94,6 96,6 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.5 0.4 0.5 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity (5) 0.5 0.4 0.5 0	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90.093 87,848 88,666 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Nillilion tonnes of oil equivalent Coal (1) 38.5 40.8 37,7 40.5 39,1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity imports 19,6 20.8 20,1 20,0 18,2 Net electricity imports 1,2 0,9 0,7 0,2 0,6 Net electricity imports 2,3 2,5 2,8 3,1 3,5 Net electricity imports 2,3 2,5 2,8 3,1 3,5 Net electricity imports 1,2 1,2 0,9 1,7 0,2 0,6 Net electricity imports 1,2 0,9 0,7 0,2 0,6 Net electricity imports 1,3 3,5 Network imports 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Auclear electricity (4)         85,063         90,993         87,848         86,686         79,999           Wind & Hydro electricity (4)(5)         6032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Muclear electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6         0	Unit	Unit	Distribution   Continue   Conti
	2000 2007 2008 2009	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         76.7         76.7         75.9         73.5         73.0         75.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8<	Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) 8 85,063 90,093 87,848 88,686 79,995 (6,047 4,516 6,783 14,174 10,399 8,414 2,160 7,490 Million tonnes of oil equivalent Coal (7) 38,5 40,8 37,7 40,5 39,1 75,1 75,9 73,5 73,0 75,1 75,1 75,9 73,5 73,0 75,1 75,1 75,1 75,1 75,1 75,1 75,1 75,1	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3.2 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,928.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,928.3 Nind & Hydro electricity (4) " 85,063 90,093 87,848 88,686 1,29,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Nillillion tonnes of oil equivalent  Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Rioenergy & waste 2.3 2.5 2.8 3.1 3.5 Rioenergy & waste 2.3 2.5 2.8 3.1 3.5 Rioenergy & waste 2.3 26.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis)  Coal 16.4 17.2 16.4 17.5 16.7 Petroleum 32.7 32.0 32.0 31.5 32.1 Nuclear electricity 8.4 8.8 8.8 8.6 7.8 Nuclear electricity 9.8 4.8 8.8 8.8 8.6 7.8 Nuclear electricity 9.9 89.6 89.5 89.8 90.2	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Vatural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Vuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Vet electricity imports         14,174         10,399         8,414         2,160         7,490           Villion tonnes of oil equivalent         76.7         75.9         73.5         73.0         75.1           Vetroleum (2)         76.7         75.9         73.5         73.0         75.1           Valuclear electricity         19.6         20.8         20.1         20.0         18.2           Vind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Vet electricity imports         1.2         0.9         0.7         0.2         0.6           Vet electricity waste         2.3         2.5         2.8	Unit	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 Petroleum (2) " 69.9 69.1 67.0 66.5 68 Latural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,92 Virid & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,77 Let electricity imports 14,174 10,399 8,414 2,160 7,48 Unillion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39 Petroleum (2) 76.7 75.9 73.5 73.0 75 Latural gas (3) 95.9 95.6 94.3 94.6 96 Luclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Luclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Luclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Luclear electricity (6) 234.8 236.9 229.6 231.9 233 Let electricity imports 16.4 17.2 16.4 17.5 16 Petroleum (2) 23.7 32.0 32.0 31.5 32 Let electricity 84.8 88 8.8 67 Let electricity 85 40.8 40.3 41.1 40.8 41 Luclear electricity 85 40.8 40.3 41.1 40.8 41 Luclear electricity 85 40.8 40.3 41.1 40.8 41 Luclear electricity 88.4 88 8.8 8.6 7 Luclear electricity 88.4 88 88 8.8 86 7 Luclear electricity 88.4 88 88 88 86 7 Luclear electricity 88.4 88 88 88 86 7 Luclear electricity 88.4 88 88 88 88 88 88 88 88 88 88 88 88 88	Distribution   Continue   Conti
Unit		Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2  2005 2006 2007 2008 2009	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         6.83           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalert           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste<	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 William (24) " 85,063 90,093 87,848 88,686 79,999 Mind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Mind & Hydro electricity imports	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Fetroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         44.3         94.6         96.6           Vulcear electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.6           Vet electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.6           Vet electricity (7) <td>  Coal (1)</td> <td>  Coole   1</td> <td>  Dright   Company   Compa</td>	Coal (1)	Coole   1	Dright   Company   Compa
M.tonnes 62.4 68.0 63.7 59.0		Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2  2005 2006 2007 2008 2009  In original units of measurement	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Wet electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0	Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) 85,063 90,093 87,848 88,686 79,999	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Nite electricity imports 14,174 10,399 8,414 2,160 7,490 Nillilion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 40.4 40.5 40.6 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Coal (16) 234.8 236.9 229.6 231.9 233.6 Petroleum (2) 23.7 32.0 32.0 31.5 32.1 Natural gas Manage (16.4 17.2 16.4 17.5 16.7 Petroleur (2) 2.0 2 0.2 0.2 Natural gas 40.8 40.3 41.1 40.8 41.4 Nuclear electricity (5) 8.4 8.8 8.8 8.6 7.8 Nuclear electricity (5) 8.4 8.8 8.8 8.6 7.8 Nuclear electricity imports 1.1 10.1 1.2 1.3 1.5 Ossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Juclear electricity (4) (*)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Villion tonnes of oil equivalent         6,032         5,020         6,047         4,516         6,789           Value electricity imports         14,174         10,399         8,414         2,160         7,490           Value electricity imports         38.5         40.8         37.7         40.5         39.1           Value al electricity         19.6         20.8         20.1         20.0         18.2           Value al electricity imports         1.2         0.9         0.7         0.2         0.6           Value al electricity imports         1.2         0.9         0.7         0.2         0.6           Value al electricity imports         1.2 <td< td=""><td>  Unit</td><td>  Unit</td><td>  Distribution   Continue   Conti</td></td<>	Unit	Unit	Distribution   Continue   Conti
" 71.3 70.4 69.6 67.6r	52.4 68.0 63.7 59.0 48.8	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2  2005 2006 2007 2008 2009  In original units of measurement Unit	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         60,32         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         76.7         76.7         75.9         73.5         73.0         75.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1         75.9         79.5         73.5         73.0         75.1           Nuclear electricity (3)         95.9         95.6         94.3         94.6         96.6         96.6         94.3         94.6         96.6         96.6         96.6         94.2         96.6         96.6         96.6         96.6         96.6         96.6         96.2         96.6	Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) 8 85,063 90,093 87,848 88,686 79,995 Wind & Hydro electricity (4)(5) 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Million tonnes of oil equivalent Coal (7) 76,7 75,9 73,5 73,0 75,1 Natural gas (3) 95,9 95,6 94,3 94,6 96,6 96,8 Nuclear electricity (7) 19,6 20,8 Net electricity imports 12,2 0,9 0,7 0,2 0,6 Net electricity (6) 234,8 236,9 229,6 231,9 233,6 Percentage shares (energy supplied basis) Coal 16,4 17,2 16,4 17,5 16,7 Petroleum 32,7 32,0 32,0 31,5 32,1 Natural gas (4) 40,8 40,3 41,1 40,8 41,4 Natural gas (5) 40,8 Hydro electricity 8,8 48,8 8,8 8,6 7,8 Natural gas 40,8 Hydro electricity 9,0 2,0 2,0 2,0 2,0 3,0 3,0 1,0 3,0 1,0 3,0 1,0 3,0 1,0 1,0 1,0 1,0 1,1 1,1 2,1 3,1 5,1 5,1 5,1 5,1 5,1 5,1 5,1 5,1 5,1 5	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 61,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent  Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 94.6 86.6 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Nind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Bioenergy & waste 2.3 2.5 2.8 3.1 3.5 otal (6) 234.8 236.9 229.6 231.9 233.6 Petroleum (2) 24.8 26.9 229.6 231.9 233.6 Petroleum (3) 32.7 32.0 32.0 31.5 32.1  Petroleum (4) 32.7 32.0 32.0 31.5 32.1 Natural gas 40.8 40.8 40.3 41.1 40.8 41.4 Nuclear electricity (5) 0.5 0.4 0.3 41.1 40.8 41.4 Nuclear electricity (5) 8.4 8.8 8.8 8.6 7.8 Nind & Hydro electricity (5) 8.4 8.8 8.8 8.6 7.8 Nind & Hydro electricity (5) 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         "85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Vite electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Description tonnes of oil equivalent           Betroleum (2)         76.7         75.9         73.5         73.0         75.1           Description electricity (5)         0.5         0.4 <td>  Unit</td> <td>  Unit</td> <td>  Discriptional units of measurement   Unit   Unit</td>	Unit	Unit	Discriptional units of measurement   Unit   Unit
gWh 1,096,544 1,039,629 1,048,930 1,083,615r		Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2  2005 2006 2007 2008 2009  In original units of measurement  Unit  Coal (1) M.tonnes 62.4 68.0 63.7 59.0 48.8 Petroleum (2) * 71.3 70.4 69.6 67.6r 64.8r	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         " 69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)(5)         " 65,062         5,020         6,047         4,516         6,783           Wind & Hydro electricity (4)(5)         " 6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity imports         1.2         0.9         0.7         0.2         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Siloenergy & waste         2	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Note electricity imports 14,174 10,399 8,414 2,160 7,490 Nillion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 40.4 94.6 96.6 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Note electricity imports 1.2 0.9 0.7 0.2 0.6 Note electricity imports 1.2 0.9 0.7 0.2 0.6 Note electricity imports 1.2 0.9 0.7 0.2 0.6 Note electricity (6) 23.8 26.9 229.6 231.9 233.6 Petroleum (2) 32.7 32.0 32.0 31.5 32.1 Natural gas 40.8 40.8 40.3 41.1 40.8 41.4 Nuclear electricity (4) 8.4 8.8 8.8 8.6 7.8 Nind & Hydro electricity (4) 9.2 0.2 0.2 0.2 0.2 Note electricity (4) 9.3 0.5 0.4 0.5 0.4 10.5 Note the electricity (4) 9.2 0.2 0.2 0.2 0.2 Note (4) 9.5 0.5 0.4 0.5 0.4 10.5 Note (4) 9.5 0.5 0.5 0.4 0.5 0.4 10.5 Note (5) 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 Note (6) 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 Note (6) 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           NUrind & Hydro electricity (4) (*)         85,063         90,093         8,7848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Wind & Hydro electricity (imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Deal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Nind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6	Unit	Unit	Distribution   Continue   Conti
icity (4) " 91.619 75.451 63.000 50.400	1.3 70.4 69.6 67.6r 64.8r	Fossii fuel dependency (7) 89.9 89.6 89.5 89.8 90.2  2005 2006 2007 2008 2009  In original units of measurement  Unit  Coal (1) M.tonnes 62.4 68.0 63.7 59.0 48.8 Petroleum (2) * 71.3 70.4 69.6 67.6r 64.8r	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         6,783           Nuclear electricity (4)(5)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.6         Net electricity imports         1.2         0.9         0.7         0.2 <t< td=""><td>Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) 8 85,063 90,093 87,848 86,866 79,995 Wind &amp; Hydro electricity (4)(5) 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Million tonnes of oil equivalent Coal (7) 38,5 40,8 37,7 40,5 39,1 75,1 75,9 73,5 73,0 75,1 75,1 75,9 73,5 73,0 75,1 75,1 75,1 75,9 75,5 73,0 75,1 75,1 75,1 75,1 75,1 75,1 75,1 75,1</td><td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Nillion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 40.4 40.5 40.6 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net (16) 234.8 236.9 229.6 231.9 233.6 Petroleum (2) 32.7 32.0 32.0 31.5 32.1 Natural gas (3) 40.8 40.3 41.1 40.8 41.4 Nuclear electricity (4) 8.4 8.8 8.8 8.6 7.8 Net delectricity (5) 0.5 0.4 0.3 30.1 Net (4) 40.8 41.4 Nuclear electricity (5) 0.5 0.4 0.3 30.1 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.5 Net (4) (6) 234.8 236.9 229.6 231.9 233.6 Net (4) (6) 234.8 236.9 229.6 231.9 233.6 Net (4) (5) 234.8 236.9 229.6 231.9 233.6 Net (4) 24.4 24.4 25.4 25.4 25.4 25.4 25.4 25.4</td><td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4) (*)         85,063         90,093         87,848         86,686         79,999           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Villion tonnes of oil equivalent         6,032         5,020         6,047         4,516         6,789           Value electricity imports         14,174         10,399         8,414         2,160         7,490           Value electricity imports         38.5         40.8         37.7         40.5         39.1           Value electricity         19.6         20.8         20.1         20.0         18.2           Value electricity imports         1.2         0.9         0.7         0.2         0.6           Value electricity imports         1.2         0.9         0.7         0.2         0.6           Value electricity imports         1.2         0.9</td><td>  Unit</td><td>  Unit</td><td>  Distribution   Continue   Conti</td></t<>	Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) 8 85,063 90,093 87,848 86,866 79,995 Wind & Hydro electricity (4)(5) 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Million tonnes of oil equivalent Coal (7) 38,5 40,8 37,7 40,5 39,1 75,1 75,9 73,5 73,0 75,1 75,1 75,9 73,5 73,0 75,1 75,1 75,1 75,9 75,5 73,0 75,1 75,1 75,1 75,1 75,1 75,1 75,1 75,1	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Nillion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 40.4 40.5 40.6 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net (16) 234.8 236.9 229.6 231.9 233.6 Petroleum (2) 32.7 32.0 32.0 31.5 32.1 Natural gas (3) 40.8 40.3 41.1 40.8 41.4 Nuclear electricity (4) 8.4 8.8 8.8 8.6 7.8 Net delectricity (5) 0.5 0.4 0.3 30.1 Net (4) 40.8 41.4 Nuclear electricity (5) 0.5 0.4 0.3 30.1 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.5 Net (4) (6) 234.8 236.9 229.6 231.9 233.6 Net (4) (6) 234.8 236.9 229.6 231.9 233.6 Net (4) (5) 234.8 236.9 229.6 231.9 233.6 Net (4) 24.4 24.4 25.4 25.4 25.4 25.4 25.4 25.4	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4) (*)         85,063         90,093         87,848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Villion tonnes of oil equivalent         6,032         5,020         6,047         4,516         6,789           Value electricity imports         14,174         10,399         8,414         2,160         7,490           Value electricity imports         38.5         40.8         37.7         40.5         39.1           Value electricity         19.6         20.8         20.1         20.0         18.2           Value electricity imports         1.2         0.9         0.7         0.2         0.6           Value electricity imports         1.2         0.9         0.7         0.2         0.6           Value electricity imports         1.2         0.9	Unit	Unit	Distribution   Continue   Conti
	'1.3 70.4 69.6 67.6r 64.8r 544 1,039,629 1,048,930 1,083,615r 1,003,271r	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2  2005 2006 2007 2008 2009  In original units of measurement  Unit  Coal (1) M.tonnes 62.4 68.0 63.7 59.0 48.8 Petroleum (2) * 71.3 70.4 69.6 67.6 64.8r Natural gas (3) GWh 1,096,544 1,039,629 1,048,930 1,083,615r 1,003,271r Nuclear electricity (4) * 81,618 75,451 63,028 52,486 69,098	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Whet electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         60.0         1,114,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         50.04         10,89         95.6         94.3         94.6         96.6           Million tonnes         6 oil 40,80         37.7         740.5         39.1         19.6         20.8         20.1         20.0         18.2         19.0	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Nillion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Nuclear electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net electricity imports 3.2 2.5 2.8 3.1 3.5 Net electricity imports 4.2 0.9 0.7 0.2 0.6 Net electricity imports 4.3 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.3 2.7 32.0 32.0 31.5 32.1 Natural gas 40.8 40.3 41.1 40.8 41.4 Nuclear electricity 40.8 4 8.8 8.8 8.6 7.8 Nind & Hydro electricity 40.1 40.8 40.3 41.1 40.8 41.4 Nuclear electricity imports 5.5 0.4 0.3 0.1 0.3 Nind & Hydro electricity imports 6.5 0.4 0.3 0.1 0.3 Nind & Hydro electricity imports 6.5 0.4 0.3 0.1 0.3 Nind & Hydro electricity imports 6.5 0.4 0.3 0.1 0.3 Nind & Hydro electricity imports 6.5 0.4 0.3 0.1 0.3 Nind & Hydro electricity imports 6.5 0.4 0.3 0.1 0.3 Nind & Hydro electricity imports 6.5 0.4 0.3 0.1 0.3 Nind & Hydro electricity imports 6.5 0.4 0.3 0.1 0.3 Nind & Hydro electricity imports 6.5 0.4 0.3 0.1 0.3 Nind & Hydro electricity imports 6.5 0.4 0.3 0.1 0.3 Nind & Hydro electricity imports 6.5 0.4 0.3 0.1 0.3 Nind & Hydro electricity imports 6.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Jatural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Juclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Hillion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Hillion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Hillion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Hillion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Hillion tonnes oil equivalent	Unit	Unit	Unit
electricity (4)(5) " 7,834 8,829 10,365 12,285	'1.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           618         75,451         63,028         52,486         69,098	Fossii fuel dependency (7) 89.9 89.6 89.5 89.8 90.2  2005 2006 2007 2008 2009  In original units of measurement  Unit  Coal (1) M.tonnes 62.4 68.0 63.7 59.0 48.8  Petroleum (2) " 71.3 70.4 69.6 67.6r 64.8r  Natural gas (3) GWh 1,096,544 1,039,629 1,048,930 1,083,615r 1,003,271r  Nuclear electricity (4) " 81,618 75,451 63,028 52,486 69,098  Wind & Hydro electricity (4/5) " 7,834 8,829 10,365 12,285 14,534r	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         6.83           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Whet electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity imports         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity imports         1.2         0.9	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Note electricity imports 14,174 10,399 8,414 2,160 7,490 Nillilion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 40.4 40.5 40.6 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Nind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Note electricity imports 1.2 0.9 0.7 0.2 0.6 Note lectricity imports 2.3 25 2.8 3.1 3.5 Notal (6) 234.8 236.9 229.6 231.9 233.6 Petroleum (2) 32.7 32.0 32.0 31.5 32.1 Natural gas (3) 40.8 40.8 40.3 41.1 40.8 41.4 Nuclear electricity (4) 8.4 8.8 8.8 8.8 8.6 7.8 Nind & Hydro electricity (5) 0.5 0.4 0.3 10.1 0.3 Sioenergy & waste 0.2 0.2 0.2 0.2 0.2 0.2 Nind (6) 20.8 20.8 20.1 10.0 31.5 32.1 Notatival gas (40.8 40.3 41.1 10.8 41.4 Nuclear electricity (7) 89.9 89.6 89.5 89.8 90.2  Petroleum (8) 40.8 40.3 41.1 1.2 1.3 1.5 Notatival gas (40.8 60.4 60.4 60.3 5.7 5.9 0 48.8 Notatival gas (40.8 60.4 60.4 60.3 5.7 5.9 0 48.8 Notatival gas (40.8 40.3 40.4 69.6 67.6 64.8 Natural gas (40.8 40.3 40.3 1.04.8 5.4 66.0 67.6 64.8 Natural gas (40.8 40.8 40.3 1.04.8 5.4 66.0 67.6 64.8 Natural gas (40.8 40.8 40.9 1.04.8 5.4 66.0 67.6 64.8 64.8 Natural gas (50.4 60.9 67.6 64.8 66.0 67.6 64.8 64.8 66.0 67.6 64.8 64.8 64.8 66.0 67.6 64.8 64.8 64.8 66.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 60	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Niclear electricity (4)         85,063         90,093         87,848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Wind electricity imports         14,174         10,399         8,414         2,160         7,490           Net el electricity imports         38.5         40.8         37.7         40.5         39.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Vertural gas (3)         95.9         95.6         94.3         94.6         96.6           Net electricity imports         1.2         0.9         0.7	Unit	Unit	District   Continuity   Conti
electricity (4)(5) " 7,834 8,829 10,365 12,285	11.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271           618         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2  2005 2006 2007 2008 2009  In original units of measurement  Unit  Coal (1) M.tonnes 62.4 68.0 63.7 59.0 48.8  Petroleum (2) " 71.3 70.4 69.6 67.6r 64.8r  Natural gas (3) GWh 1,096,544 1,039,629 1,048,930 1,083,615r 1,003,271r  Nuclear electricity (4) " 81,618 75,451 63,028 52,486 69,098  Wind & Hydro electricity (4)(5) " 7,834 8,829 10,365 12,285 14,534r	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         6.83           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Whet electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity imports         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity imports         1.2         0.9	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Note electricity imports 14,174 10,399 8,414 2,160 7,490 Nillilion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 40.4 40.5 40.6 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Nind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Note electricity imports 1.2 0.9 0.7 0.2 0.6 Note lectricity imports 2.3 25 2.8 3.1 3.5 Notal (6) 234.8 236.9 229.6 231.9 233.6 Petroleum (2) 32.7 32.0 32.0 31.5 32.1 Natural gas (3) 40.8 40.8 40.3 41.1 40.8 41.4 Nuclear electricity (4) 8.4 8.8 8.8 8.8 8.6 7.8 Nind & Hydro electricity (5) 0.5 0.4 0.3 10.1 0.3 Sioenergy & waste 0.2 0.2 0.2 0.2 0.2 0.2 Nind (6) 20.8 20.8 20.1 10.0 31.5 32.1 Notatival gas (40.8 40.3 41.1 10.8 41.4 Nuclear electricity (7) 89.9 89.6 89.5 89.8 90.2  Petroleum (8) 40.8 40.3 41.1 1.2 1.3 1.5 Notatival gas (40.8 60.4 60.4 60.3 5.7 5.9 0 48.8 Notatival gas (40.8 60.4 60.4 60.3 5.7 5.9 0 48.8 Notatival gas (40.8 40.3 40.4 69.6 67.6 64.8 Natural gas (40.8 40.3 40.3 1.04.8 5.4 66.0 67.6 64.8 Natural gas (40.8 40.8 40.3 1.04.8 5.4 66.0 67.6 64.8 Natural gas (40.8 40.8 40.9 1.04.8 5.4 66.0 67.6 64.8 64.8 Natural gas (50.4 60.9 67.6 64.8 66.0 67.6 64.8 64.8 66.0 67.6 64.8 64.8 64.8 66.0 67.6 64.8 64.8 64.8 66.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 69.9 8 60.9 60	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Niclear electricity (4)         85,063         90,093         87,848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Wind electricity imports         14,174         10,399         8,414         2,160         7,490           Net el electricity imports         38.5         40.8         37.7         40.5         39.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Vertural gas (3)         95.9         95.6         94.3         94.6         96.6           Net electricity imports         1.2         0.9         0.7	Unit	Unit	District   Continuity   Conti
electricity (4)(5)	11.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271           618         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r	Fossii fuel dependency (7) 89.9 89.6 89.5 89.8 90.2  2005 2006 2007 2008 2009  In original units of measurement  Unit  Coal (1) M.tonnes 62.4 68.0 63.7 59.0 48.8  Petroleum (2) " 71.3 70.4 69.6 67.6r 64.8r  Natural gas (3) GWh 1,096,544 1,039,629 1,048,930 1,083,615r 1,003,271r  Nuclear electricity (4) " 81,618 75,451 63,028 52,486 69,098  Wind & Hydro electricity (4)(5) " 7,834 8,829 10,365 12,285 14,534r	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         6.83           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1         1           Nuclear electricity (3)         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent  Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Autural gas (3) 95.9 95.6 94.3 40.6 66.6 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Bioenergy & waste 23 25 28 3.1 3.5 coal (6) 234.8 236.9 229.6 231.9 233.6  Petroleum (2) 23.4 17.2 16.4 17.5 16.7 Petroleum (3) 2.7 32.0 32.0 31.5 32.1  Valural gas (4) 40.8 40.3 41.1 40.8 41.4 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.5 Coal (6) 234.8 236.9 229.6 231.9 233.6  Petroleum (8) 40.8 40.3 41.1 40.8 41.4 Nuclear electricity (9) 9.9 89.6 89.5 89.8 90.2  Coal 16.4 17.2 16.4 17.5 16.7 Petroleum (2) 2.0 0.2 0.2 0.2 0.2 0.2 Coal (3) 31.5 32.1  Nind & Hydro electricity (9) 9.9 89.6 89.5 89.8 90.2  Coal (1) 1.1 1.2 1.3 1.5  cossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2  Potroleum (2) "71.3 70.4 69.6 67.6 64.8 Natural gas (3) GWh 1,096,544 1,039,629 1,048,930 1,083,615r 1,003,271r Nuclear electricity (4)(5) "71.8 48.8 829 1,0365 12.86 69.088 Natural gas (3) GWh 1,096,544 1,039,629 1,048,930 1,083,615r 1,003,271r Nuclear electricity (4)(5) "71.8 48.8 829 1,0365 12.86 69.088 Natural gas (3) GWh 1,096,544 1,039,629 1,048,930 1,083,615r 1,003,271r Nuclear electricity (4)(5) "71.8 48.8 829 1,0365 12.86 69.088 Natural gas (3) GWh 1,096,544 1,039,629 1,048,930 1,083,615r 1,003,271r Nuclear electricity (4)(5) "71.8 48.8 829 1,0365 12.86 69.088 Natural gas (3) GWh 1,096,544 1,039,629 1,048,930 1,083,615r 1,003,271r Nuclear electricity (4)(5) "71.8 48.8 829 1,0365 12.86 69.088 Natural gas (3) GWh 1,096,544 1,039,629 1,048,930 1,083,615r 1,003,271r Nuclear electricity (4)(5) "71.8 48.8 829 1,0365 12.86 69.088	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Billion tonnes of oil equivalent         76.7         75.9         73.5         73.0         75.1           Villion tonnes of oil equivalent         76.7         75.9         73.5         73.0         75.1           Valuelar electricity         19.6         20.8         20.1         20.0         18.2           Valuelar electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.6           Valuelar electricity (6)         0.5         0.4         0.5         0.4         0.5         0.4	Unit	Unit	Drighal units of measurement   Unit   Unit
electricity (4)(5)	11.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           618         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    2005   2006   2007   2008   2009     2008   2009     2008   2009     2009   2008   2009     2009   2008   2009     2009   2008   2009     2009   2008   2009     2009   2008   2009     2009   2009   2008   2009     2009   2009   2009     2009   2009   2009   2009     2009   2009   2009   2009     2009   2009   2009   2009     2009   2009   2009   2009     2009   2009   2009   2009     2009   2009   2009   2009     2009   2009   2009   2009     2009   2009   2009   2009     2009   2009   2009   2009     2009   2009   2009   2009     2009   2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009     2009	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,97,031         1,100,616         6.73           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Wind Electricity imports         14,174         10,399         8,414         2,160         7,490         7,490         7,405         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1         Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity imports         1.2         0.9         0.7         0.2         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6 </td <td>Natural gas (3)</td> <td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90.093 87,848 88,666 79,999 Nind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Nillion tonnes of oil equivalent Coal (1) 38.5 40.8 37,7 40.5 39.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 1.4 17.5 16.7 Natural gas 40.8 40.8 40.3 41.1 40.8 41.4 Nuclear electricity 8.4 8.8 8.8 8.6 7.8 Nuclear electricity imports 0.5 0.4 0.3 0.1 0.3 Nuclear electricity imports 0.5 0.0 0.0 0.0 0.0 0.0 0.0 Nuclear electricity imports 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td> <td>  Coal (1)</td> <td>  Unit</td> <td>  Unit</td> <td>  Unit call (1)</td>	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90.093 87,848 88,666 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Nillion tonnes of oil equivalent Coal (1) 38.5 40.8 37,7 40.5 39.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 1.4 17.5 16.7 Natural gas 40.8 40.8 40.3 41.1 40.8 41.4 Nuclear electricity 8.4 8.8 8.8 8.6 7.8 Nuclear electricity imports 0.5 0.4 0.3 0.1 0.3 Nuclear electricity imports 0.5 0.0 0.0 0.0 0.0 0.0 0.0 Nuclear electricity imports 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Coal (1)	Unit	Unit	Unit call (1)
electricity (4)(5) 7,834 8,829 10,365 12,285 imports 8,321 7,517 5,215 11,022 s of oil equivalent 39.9 43.4 41.0 38.2	1.1.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271f           618         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           99.9         43.4         41.0         38.2         31.2r	Fossii fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    2005   2006   2007   2008   2009     10 original units of measurement	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         6,783           Nuclear electricity (4)(5)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Wind Electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         60.0         8,81         37.7         40.5         39.1           Million tonnes of oil equivalent         76.7         75.9         73.5         73.0         75.1           Petroleum (2)         76.7         75.9         95.6         94.3         94.6         96.6           Nuclear electricity imports         1.2         0.9         0.7         0.2         0.6 <td>Natural gas (3)</td> <td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Nite electricity imports 14,174 10,399 8,414 2,160 7,490 Nillilion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Nuclear electricity (5) 95.6 94.3 40.6 96.6 Nuclear electricity (5) 19.6 20.8 20.1 20.0 18.2 Nind &amp; Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 25 2.8 3.1 3.5 Coal (6) 234.8 236.9 229.6 231.9 233.6 Petroleum (2) 327 320 320 31.5 32.1 Natural gas (3) 40.8 40.3 41.1 40.8 41.4 Nuclear electricity (4) 8.4 8.8 8.8 8.6 7.8 Nind &amp; Hydro electricity (5) 0.5 0.4 0.5 0.4 0.5 Nind &amp; Hydro electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 0.7 Net electricity imports 1.4 1.4 1.7 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4</td> <td>  Coal (1)</td> <td>  Unit</td> <td>  Unit</td> <td>  Distribution   Company   Company  </td>	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Nite electricity imports 14,174 10,399 8,414 2,160 7,490 Nillilion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Nuclear electricity (5) 95.6 94.3 40.6 96.6 Nuclear electricity (5) 19.6 20.8 20.1 20.0 18.2 Nind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 25 2.8 3.1 3.5 Coal (6) 234.8 236.9 229.6 231.9 233.6 Petroleum (2) 327 320 320 31.5 32.1 Natural gas (3) 40.8 40.3 41.1 40.8 41.4 Nuclear electricity (4) 8.4 8.8 8.8 8.6 7.8 Nind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.5 Nind & Hydro electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 0.7 Net electricity imports 1.4 1.4 1.7 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	Coal (1)	Unit	Unit	Distribution   Company
electricity (4)(5)	11.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           618         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           19,9         43,4         41,0         38,2         31,2r           78,2         77,4         76,3         74,0r         70,9r	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    2005   2006   2007   2008   2009     10 original units of measurement	Coal (1)         M.tonnes         59,7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         6.73           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1         1         1.0         96.6         94.3         94.6         96.6         96.6         94.3         94.6         96.6         96.6         94.3         94.6         96.6         96.6         96.6         96.6         96.6         96.6         96.6         96.6         96.6         96.2         96.6         96.2	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3  Astural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922  Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999  Mind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783  Net electricity imports 14,174 10,399 8,414 2,160 7,490  Hillion tonnes of oil equivalent  Coal (1) 38.5 40.8 37.7 40.5 39.1  Petroleum (2) 76.7 75.9 73.5 73.0 75.1  Autural gas (3) 95.9 95.6 94.3 44.6 66.6  Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.6  Bioenergy & waste 2,3 2.5 2.8 3.1 3.5  Coal (6) 234.8 236.9 229.6 231.9 233.6  Coal (7) 234.8 236.9 229.6 231.9 233.6  Coal (8) 40.8 40.3 41.1 40.8 41.4  Nuclear electricity (19 0.2 0.2 0.2 0.2 0.2 0.2  Nuclear electricity (19 0.5 0.4 0.5 0.4 0.6  Bioenergy & waste 2,3 2.5 2.8 3.1 3.5  Coal (8) 40.8 40.3 41.1 40.8 41.4  Nuclear electricity (19 0.2 0.2 0.2 0.2 0.2 0.2  Nuclear electricity (19 0.2 0.2 0.2 0.2 0.2 0.2  Coal 40.8 40.8 40.3 41.1 40.8 41.4  Nuclear electricity (19 0.2 0.2 0.2 0.2 0.2 0.2  Coal (1) 40.8 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41	Coal (1)	Unit	Unit	Distribution   Continuity   C
electricity (4)(5) * 7,834 8,829 10,365 12,285 imports 8,321 7,517 5,215 11,022 s of oil equivalent 39.9 43.4 41.0 38.2 78.2 77.4 76.3 74.0r 94.3 89.4 90.2 93.2	1.1.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           518         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           19.9         43.4         41.0         38.2         31.2r           88.2         77.4         76.3         74.0r         70.9r           44.3         89.4         90.2         93.2         86.3r	Fossii fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    10 original units of measurement	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.9         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Nuclear electricity (4)         8.86,863         90,993         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         76.7         75.9         73.5         73.0         73.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity waste         2.2         2.0         20.1         0.2         0.6           Bioenergy & waste         2.3         2.2         2.2         2.2 </td <td>Natural gas (3)</td> <td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Nillion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net electricity imports 3.2 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.4 17.2 16.4 17.5 16.7 Net electricity imports 4.8 8.8 8.8 8.6 7.8 8 Net electricity 4.0 8.4 8.8 8.8 8.6 7.8 8 Net electricity 4.0 8.4 8.8 8.8 8.6 7.8 8 Net electricity 5.0 5 5 5 5 5 8 Net electricity 5.0 5 5 5 5 5 8 Net electricity 5.0 5 5 5 5 5 5 8 Net electricity 5.0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td> <td>  Coal (1)</td> <td>  Unit</td> <td>  Unit</td> <td>  Unit   Unit  </td>	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Nillion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Net electricity imports 3.2 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.2 2.3 2.5 2.8 3.1 3.5 Net electricity imports 4.4 17.2 16.4 17.5 16.7 Net electricity imports 4.8 8.8 8.8 8.6 7.8 8 Net electricity 4.0 8.4 8.8 8.8 8.6 7.8 8 Net electricity 4.0 8.4 8.8 8.8 8.6 7.8 8 Net electricity 5.0 5 5 5 5 5 8 Net electricity 5.0 5 5 5 5 5 8 Net electricity 5.0 5 5 5 5 5 5 8 Net electricity 5.0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Coal (1)	Unit	Unit	Unit
electricity (4)(5)	1.1.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271f           618         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           49.9         43.4         41.0         38.2         31.2r           78.2         77.4         76.3         74.0r         70.9r           44.3         89.4         90.2         93.2         86.3r           44.4         17.1         14.0         11.9         15.2	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    10 original units of measurement	Coal (1)	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Nind & Hydro electricity (4)(5) " 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 12,2 0.9 0.7 0.2 0.6 Net electricity imports 2,3 2.5 2.8 3.1 3.5 Net electricity imports 1,2 0.9 0.7 0.2 0.6 Net electricity imports 2,3 2.5 2.8 3.1 3.5 Net electricity imports 3,2 2.5 2.8 3.1 3.5 Net electricity imports 1,2 0.9 0.7 0.2 0.6 Net electricity imports 1,4 0.5 0.4 0.5 0.4 0.5 Net electricity imports 1,4 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1,4 0.5 0.4 0.5 0.4 0.5 Net electricity imports 1,4 0.5 0.4 0.5 0.4 0.5 Net electricity 1,4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 Net electricity 1,4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 Net electricity 1,4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 Net electricity 1,4 0.5 0.4 0.5 0	Coal (1)	Unit   Coal (1)	Unit	Unit
electricity (4)(5)	1.1.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           618         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           99.9         43.4         41.0         38.2         31,2r           77.4         76.3         77.0r         70.9r           4.3         89.4         90.2         93.2         86.3r           8.4         17.1         14.0         11.9         15.2           0.7         0.8         0.9         1.1         1.2r           0.7         0.6         0.4         0.9         0.2	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    10 original units of measurement	Coal (1)	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 88.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88.686 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 vet electricity imports 14,174 10,399 8,414 2,160 7,490 Million tonnes of oil equivalent    Daal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Valuelear electricity imports 19.6 20.8 20.1 20.0 18.2 Valuelear electricity imports 1.2 0.9 0.7 0.2 0.6 Valuelear electricity imports 1.2 0.9 0.7 0.2 0.6 Valuelear electricity imports 2.3 2.5 2.8 3.1 3.5 olail (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis)    Petroleum 32.7 32.0 32.0 33.5 32.1 Valuelear electricity 8.4 8.8 8.8 8.8 8.6 74.8 Valuelear electricity 9.0 2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Daal (1)	Unit   Coal   1	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 Petroleum (2) " 69.9 69.1 67.0 66.5 68 Petroleum (2) " 69.9 69.1 67.0 66.5 68 Petroleum (2) " 85.63 90.093 87.848 88.686 79.98 Pull dela electricity (4) (5) " 6.032 5.020 6.047 4.516 6.76 Petroleum (2) " 65.032 5.020 6.047 4.516 6.76 Petroleum (3) 5.020 6.047 4.516 6.76 Petroleum (4) 5 8.563 90.093 87.848 88.686 79.98 Pull del Hydro electricity (4)(5) " 6.032 5.020 6.047 4.516 6.76 Petroleum (5) 76.7 75.9 73.5 73.0 75 Petroleum (2) 9.5 0.4 0.5 0.4 0.5 Petroleum (3) 59.9 95.6 94.3 94.6 96 Petroleum (4) 19.6 20.8 20.1 20.0 18 Petroleum (5) 23.4 20.9 0.7 0.2 0.0 Petroleum (5) 20.0 0.0 0.0 0.0 0.0 0.0 Petroleum (7) 89.9 89.6 89.5 89.8 0.0 Petroleum (7) 89.9 89.9 89.6 89.5 89.8 0.0 Petroleum (7) 89.9 89.9 89.6 89.5 89.8 89.8 0.0 Petroleum (7) 89.9 89.9 89.6 89.5 89.8 89.8 0.0 Petroleum (7) 89.9 89.9 89.6 89.5 89.8 89.8 89	Driginal units of measurement
electricity (4)(5) * 7,834 8,829 10,365 12,285 imports 8,321 7,517 5,215 11,022 s of oil equivalent 39.9 43.4 41.0 38.2 78.2 77.4 76.3 74.0 r c) 94.3 89.4 90.2 93.2 city 18.4 17.1 14.0 11.9 electricity (5) 0.7 0.8 0.9 1.1 imports 0.7 0.6 0.4 0.9	1.1.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           618         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           99.9         43.4         41.0         38.2         31,2r           77.4         76.3         77.0r         70.9r           4.3         89.4         90.2         93.2         86.3r           8.4         17.1         14.0         11.9         15.2           0.7         0.8         0.9         1.1         1.2r           0.7         0.6         0.4         0.9         0.2	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    10 original units of measurement	Coal (1)	Natural gas (3)	Petroleum (2)	Deal (1)   M.tonnes   59.7   63.5   58.8   63.5   61.3	Unit   Coal     M. Itonnes   59.7   63.5   58.8   63.5   61.3   61.3   61.0   61.0   69.9   69.1   67.0   66.5   68.3   68.3   61.0   69.9   69.1   67.0   66.5   68.3   61.0   68.5   61.0   68.5   68.3   61.0   68.5   68.3   61.0   68.5   68.3   61.0   68.5   68.3   61.0   68.5   61.0   68.5   68.3   61.0   68.5   61.0   68.5   68.3   61.0   68.5   68.3   61.0   68.5   68.3   61.0   68.5   68.3   68.0   68.0   68.0   68.0   68.0   68.0   69.0	Unit coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 electroleum (2) 69.9 69.1 67.0 66.5 68 latural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,92 (luclear electricity (4) 85,063 90,093 87,948 88,686 79,99 (lind & hydro electricity (4)(5) 6.6,032 5,020 6,047 4,516 6,78 electricity imports 14,174 10,399 8,414 2,160 7,45 (lillion tonnes of oil equivalent coal (1) 38.5 40.8 37.7 40.5 39 electricity imports 95.9 95.6 94.3 94.6 96.6 100 100 100 100 100 100 100 100 100 10	Continuity   Con
electricity (4)(5) * 7,834 8,829 10,365 12,285 imports 8,321 7,517 5,215 11,022 s of oil equivalent 39.9 43.4 41.0 38.2 78.2 77.4 76.3 74.0 r c) 94.3 89.4 90.2 93.2 city 18.4 17.1 14.0 11.9 electricity (5) 0.7 0.8 0.9 1.1 imports 0.7 0.6 0.4 0.9	1.1.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           618         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           19.9         43.4         41.0         38.2         31.2r           78.2         77.4         76.3         74.0r         70.9r           44.3         89.4         90.2         93.2         86.3r           8.4         17.1         14.0         11.9         15.2           0.7         0.8         0.9         1.1         1.2r           0.7         0.6         0.4         0.9         0.2           4.2         4.4         4.7         5.5r         6.1r	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    10 original units of measurement	Coal (1)	Natural gas (3)	Petroleum (2)	Deal (1)	Unit   Coal   1	Unit coal (1) M.tonnes 59.7 63.5 58.8 63.5 68 electroleum (2) 69.9 69.1 67.0 66.5 68 electroleum (2) 69.9 69.1 67.0 66.5 68 electroleum (2) 69.9 69.1 67.0 66.5 68 electroleum (2) 80.9 1,111,4942 1,111,363 1,097,031 1,100,616 1,123,92 (buclear electricity (4) 85,063 90,093 87,848 88,686 79,99 (bind & Hydro electricity (4)(5) 6 6,032 5,020 6,047 4,516 6,78 electricity imports 14,174 10,399 8,414 2,160 7,45 electricity imports 14,174 10,399 8,414 2,160 7,45 electricity imports 38.5 40.8 37.7 40.5 39 electroleum (2) 76.7 75.9 73.5 73.0 75 electricity (4) 95.9 95.6 94.3 94.6 96 unclear electricity (4) 19.6 95.9 95.6 94.3 94.6 96 unclear electricity (5) 0.5 0.4 0.5 0.4 0.5 0.4 0.5 electricity (5) 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 electricity (5) 0.5 0.4 0.5 0.	Continue   Continue
electricity (4)(5) * 7,834 8,829 10,365 12,285 imports 8,321 7,517 5,215 11,022 is of oil equivalent 39.9 43.4 41.0 38.2 78.2 77.4 76.3 74.0r 94.3 89.4 90.2 93.2 icity 18.4 17.1 14.0 11.9 electricity (5) 0.7 0.8 0.9 1.1 imports 0.7 0.6 0.4 0.9 raste 4.2 4.4 4.7 5.5r 236.3 233.1 227.5 224.7r chares (energy supplied basis)	1.1.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           618         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           19.9         43.4         41.0         38.2         31.2r           78.2         77.4         76.3         74.0r         70.9r           84.3         17.1         14.0         11.9         15.2           0.7         0.8         0.9         1.1         1.2r           0.7         0.6         0.4         0.9         0.2           4.2         4.4         4.7         5.5r         6.1r           6.63         233.1         227.5         224.7r         211.2r	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    10	Coal (1) M.tonnes 59.7 69.5 58.8 63.5 61.3 Petroleum (2) 69.9 69.1 67.0 66.5 68.3 Natural gas (2) 8.0 69.9 69.1 67.0 66.5 68.3 Natural gas (2) 8.0 69.9 69.1 67.0 66.5 68.3 Natural gas (2) 8.0 69.9 90.93 87.848 88.686 79.999 (Wind & Hydro electricity (4)(5) 8.0 63.2 50.20 6.047 4.616 6.783 Natural gas (2) 8.0 61.3 10.07.031 1.100.616 1.123.922 50.000 60.047 4.616 6.783 Nat electricity imports 14,174 10.399 8.414 2.160 7.490 Million tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity (5) 0.5 0.4 0.5 0.4 0.5 0.4 10.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 1.2 0.0 0.5 0.4 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 88.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 vet electricity imports 14,174 10,399 8,414 2,160 7,490 fillion tonnes of oil equivalent	Deal (1)   M.tonnes   59.7   63.5   58.8   63.5   61.3	Unit Deal (1) M.tonnes 59.7 69.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Autural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,122,3922 Vuclear electricity (4)(5) " 66,032 5,020 6,047 4,516 6,783 Vuclear electricity imports 14,174 10,399 8,414 2,160 7,490 VIIII (4)  83.5 40.8 37.7 40.5 6,783 VIIII (1)  83.5 40.8 37.7 40.5 39.1 Vuclear electricity imports 9,95.9 95.6 94.3 94.6 96.6 Vuclear electricity imports 1.2 0.9 0.7 0.2 0.6 VIVI de Al-yrlo electricity (5) 0.5 0.4 0.5 0.4 0.5 VIVI de Al-yrlo electricity imports 1.2 0.9 0.7 0.2 VIVI de Al-yrlo electricity imports 1.2 0.9 0.7 0.2 VIVI de Al-yrlo electricity imports 1.2 0.9 0.7 0.2 VIVI de Al-yrlo electricity 1.3 32.7 32.0 32.0 VIVI de Al-yrlo electricity 1.3 32.7 32.0 32.0 VIVI de Al-yrlo electricity 1.3 32.7 32.0 32.0 VIVI de Al-yrlo electricity 1.3 40.5 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6	Unit coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 electroleum (2) "	Display   Company   Comp
electricity (4)(5) * 7,834 8,829 10,365 12,285 imports 8,321 7,517 5,215 11,022 s of oil equivalent 39.9 43.4 41.0 38.2 78.2 77.4 76.3 74.0r 19.1 94.3 89.4 90.2 93.2 icity 18.4 17.1 14.0 11.9 electricity (5) 0.7 0.8 0.9 1.1 imports 0.7 0.6 0.4 0.9 vaste 4.2 4.4 4.7 5.5r 236.3 233.1 227.5 224.7r ishares (energy supplied basis)	1.13         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           618         75,451         63,028         52,486         69,998           334         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           19.9         43.4         41.0         38.2         31,2r           7.2         77.4         76.3         74.0r         70.9r           44.3         89.4         90.2         33.2         86.3r           8.4         17.1         14.0         11.9         15.2           0.7         0.8         0.9         1.1         1.2r           0.7         0.6         0.4         0.9         0.2           4.2         4.4         4.7         5.5r         6.1r           16.3         233.1         227.5         224.7r         211.2r           6.9         18.6         18.0         17.0r         14.8r	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    10 original units of measurement	Coal (1)	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 88.3 Astural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85.063 90,093 87,848 88,866 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Will de Heydro electricity (4)(5) " 80,032 5,020 6,047 4,516 6,783 Will de Hydro electricity (4)(5) " 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity (19) 19.6 20.8 20.1 20.0 18.2 Wind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.5 0.4 0.6 Rice leactricity imports 12 0.9 0.7 0.2 0.6 Rice leactricity imports 14 0.8 40.8 40.3 40.1 40.8 40.4 Rice leactricity imports 15 0.0 4 0.3 0.1 10.3 Rice leactricity 10 0.2 0.2 0.2 0.2 0.2 Reteleactricity imports 0.5 0.4 0.3 0.1 0.3 Rice leactricity	Deal (1)   M.tonnes   59.7   63.5   58.8   63.5   61.3	Unit Deal (1) M.tonnes 59.7 69.5 58.8 63.5 61.3 Petroleum (2) * 69.9 69.1 67.0 66.5 68.3 Petroleum (2) * 69.0 69.3 17.44.942 1.111.363 1.097.031 1.100.616 1.122.3.922 Valuelaer electricity (4)(5) * 6.032 5.020 6.047 4.516 6.783 Vetroleum (2) * 6.032 5.020 6.047 4.516 6.783 Vet electricity imports 14,174 10.399 8.414 2,160 7.490 Vet electricity imports 5 14,174 10.399 8.414 2,160 7.490 Vetroleum (2) 76.7 75.9 73.5 73.0 75.1 Valuelaer electricity 19.6 20.8 20.1 20.0 18.2 Vinid & Hydro electricity 19.6 20.8 20.1 20.0 18.2 Vinid & Hydro electricity 19.6 20.8 20.1 20.0 18.2 Vinid & Hydro electricity imports 1.2 0.9 0.7 0.2 0.8 Valuelaer electricity imports 1.2 0.9 0.7 0.2 0.8 Valuelaer electricity imports 2.3 2.5 2.8 3.1 3.5 Valuelaer electricity 2.3 2.5 2.8 3.1 3.5 Valuelaer electricity 3.2 3.2 5 2.8 3.1 3.5 Valuelaer electricity 3.3 40.8 40.3 41.1 40.8 41.4 Valuelaer electricity 8.4 8.8 8.8 8.8 8.6 7.8 Valuelaer electricity 8.4 8.8 8.8 8.8 8.6 7.8 Valuelaer electricity 19.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	Unit	Display
electricity (4)(5) * 7,834 8,829 10,365 12,285 imports 8,321 7,517 5,215 11,022 is of oil equivalent 39.9 43.4 41.0 38.2 78.2 77.4 76.3 74.0r 94.3 89.4 90.2 93.2 icity 18.4 17.1 14.0 11.9 electricity (5) 0.7 0.8 0.9 1.1 imports 0.7 0.6 0.4 0.9 raste 4.2 4.4 4.7 5.5r 236.3 233.1 227.5 224.7r chares (energy supplied basis)	1.13         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           518         75,451         63,028         52,486         69,098           334         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           19.9         43.4         41.0         38.2         31.2r           78.2         77.4         76.3         74.0r         70.9r           44.3         89.4         90.2         33.2         86.3r           8.4         17.1         14.0         11.9         15.2           0.7         0.8         0.9         1.1         1.2r           0.7         0.6         0.4         0.9         0.2           4.2         4.4         4.7         5.5r         6.1r           16.3         233.1         227.5         224.7r         211.2r           6.9         18.6         18.0         17.0r         14.8r	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    10 original units of measurement   Unit	Coal (1)	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 88.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Vacclear electricity (4) " 85.063 90,093 87,848 88.686 79,999 Mind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vact electricity imports 14,174 10,399 8,414 2,160 7,499 Million tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 7,499 Million tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 73.0 75.1 Vatural gas (3) 95.9 95.6 94.3 94.6 96.6 Vacclear electricity 191.6 20.8 20.1 20.0 18.2 Vind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.5 0.4 0.6 Vact electricity imports 1.2 0.9 0.7 0.2 0.6 Vacclear electricity imports 1.2 0.9 0.7 0.2 0.6 Vacclear electricity waste 2.3 2.5 2.8 3.1 3.5 Otal (6) 234.8 236.9 229.6 231.9 233.6 Vacclear electricity 2.3 2.5 0.2 8 2.3 1 3.5 Vacclear electricity 2.3 2.5 2.8 3.1 3.5 Vacclear electricity 2.3 2.5 2.8 3.1 3.5 Vacclear electricity 2.3 2.5 2.8 3.1 3.5 Vacclear electricity 3.2 2.3 2.5 2.8 3.1 3.5 Vacclear electricity 3.2 2.3 2.5 2.8 3.1 3.5 Vacclear electricity 3.2 2.3 2.5 2.8 3.1 3.5 Vacclear electricity 3.3 2.0 3.2 3.2 3.3 3.5 3.2 Vacclear electricity 3.2 4.8 4.8 8 8.8 8.6 7.8 Vacclear electricity 4.8 4 8.8 8.8 8.6 6 7.8 Vacclear electricity 4.8 4 8.8 8.8 8.6 6 7.8 Vacclear electricity 4.8 4 8.8 8.8 8.6 6 7.8 Vacclear electricity 4.8 4 8.8 8.8 8.6 6 7.8 Vacclear electricity 4.8 4 8.8 8.8 8.6 6 7.8 Vacclear electricity 4.8 5 8.9 8.9 9.0 2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Dearl (1)   M.tonnes   59.7   63.5   58.8   63.5   61.3     Petroleum (2)   "   69.9   69.1   67.0   66.5   68.3     Stutural gas (3)   GWh   1,114,942   1,111,363   1,097,031   1,100,616   1,123,922     Stude electricity (4) (5)   "   65,063   90,093   87,848   88,686   79,999     Wind & Hydro electricity (4)(5)   "   60,322   5,020   6,047   4,516   6,783     Stel electricity imports   14,174   10,399   8,414   2,160   7,490     Stel electricity imports   14,174   10,399   8,414   2,160   7,490     Stel electricity imports   38.5   40.8   37.7   40.5   39.1     Petroleum (2)   76.7   75.9   73.5   73.0   75.1     Statural gas (3)   59.9   95.6   94.3   94.6   96.6     Suclear electricity imports   1.2   0.9   0.7   0.2   0.6     Stel electricity imports   1.3   3.5     Stel electricity   3.2   3.2   3.5   3.1   3.5     Stel electricity   3.4   3.8   8.8   8.6   7.8     Petroleum   32.7   32.0   32.0   31.5   32.1     Statural gas   40.8   40.3   41.1   40.8   41.4     Valuelear electricity   8.4   8.8   8.8   8.6   7.8     Stel electricity imports   0.5   0.4   0.6     Stel electricity (4)   8   8.8   8.8   8.6   7.8     Stel electricity (4)   8   8.8   8.8     Stel electricity (4)   8	Description   Color	Unit	Display   Company   Comp
electricity (4)(5) " 7,834 8,829 10,365 12,285 imports 8,321 7,517 5,215 11,022 s of oil equivalent	1.1.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           518         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           99.9         43.4         41.0         38.2         31,2r           77.4         76.3         77.0r         70.9r           78.2         77.4         76.3         74.0r         70.9r           8.4         17.1         14.0         11.9         15.2           0.7         0.8         0.9         1.1         1.2r           0.7         0.6         0.4         0.9         0.2           4.2         4.4         4.7         5.5r         6.1r           6.9         18.6         18.0         17.0r         14.8r           33.1         33.2         33.5         32.9r         33.6r           39.9         38.4         39.6         41.5r         40.8r	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    10	Coal (1)	Natural gas (3)   GWh	Petroleum (2)	Case   (1)	Unit   December   Color   Millorines   Solit	Unit   Date   Content	Distriction   Company
electricity (4)(5) * 7,834 8,829 10,365 12,285 imports 8,321 7,517 5,215 11,022 s of oil equivalent 39.9 43.4 41.0 38.2 78.2 77.4 76.3 74.0r 10) 94.3 89.4 90.2 93.2 icity 18.4 17.1 14.0 11.9 electricity (5) 0.7 0.8 0.9 1.1 imports 0.7 0.6 0.4 0.9 1.1 imports 4.2 4.4 4.7 5.5r 236.3 233.1 227.5 224.7r inhares (energy supplied basis) 16.9 18.6 18.0 17.0r 33.1 33.2 33.5 32.9r 39.9 38.4 39.6 41.5r icity 7.8 7.3 6.2 5.3	1.1.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           618         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           19.9         43.4         41.0         38.2         31.2r           8.2         77.4         76.3         74.0r         70.9r           44.3         89.4         90.2         33.2         86.3r           8.4         17.1         14.0         11.9         15.2           0.7         0.8         0.9         1.1         1.2r           0.7         0.6         0.4         0.9         0.2           4.2         4.4         4.7         5.5r         6.1r           6.3         233.1         227.5         224.7r         211.2r           6.9         18.6         18.0         17.0r         14.8r           33.1         33.2         33.5         32.9r         33.6r           39.9         38.4         39.6	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    10 original units of measurement	Coal (1)	Natural gas (3)	Petroleum (2) * 89.9 69.1 67.0 66.5 88.3 Asturai gas (3) GWh 1,114,942 * 85,063 90,093 87,848 88,686 79,999 Nind & Hydro electricity (4)(5) * 6,052 5,020 6,047 4,516 6,783 Nind & Hydro electricity (4)(5) * 6,052 5,020 6,047 4,516 6,783 Villear electricity imports 14,174 10,399 8,414 2,160 7,490  ### Author of the electricity imports 14,174 10,399 8,414 2,160 7,490  ### Author of the electricity imports 14,174 10,399 8,414 2,160 7,490  ### Author of the electricity imports 1,147 10,399 8,414 2,160 7,490  ### Author of the electricity imports 1,147 10,399 8,414 2,160 7,490  ### Author of the electricity imports 1,147 10,399 8,141 4,141 10,399 8,141 10,390 8,14 10,390 8,	Case   (1)	Unit   Doal (1)	Unit   Deal (1)   M.I.tonnes   59.7   63.5   58.8   63.5   61   67.0   66.5   68   68.1   67.0   66.5   68   68.1   67.0   66.5   68   68.1   67.0   66.5   68   68.1   67.0   66.5   68   68.1   68.1   67.0   66.5   68   68.1   67.0   66.5   68   68.1   67.0   66.5   68   68.1   68.1   67.0   68.5   68   69.9   69.1   67.0   66.5   68   68.1   68.1   67.0   68.5   68   69.9   69.0	District   Continue   Continue
electricity (4)(5) * 7,834 8,829 10,365 12,285 imports 8,321 7,517 5,215 11,022 is of oil equivalent \$\$ 39.9 43.4 41.0 38.2 78.2 77.4 76.3 74.0 or 0.0 or 0.	1.13         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           618         75,451         63,028         52,486         69,098           834         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           19.9         43.4         41.0         38.2         31.2r           8.2         77.4         76.3         74.0r         70.9r           44.3         89.4         90.2         93.2         86.3r           8.4         17.1         14.0         11.9         15.2           0.7         0.8         0.9         1.1         1.2r           0.7         0.6         0.4         0.9         0.2           4.2         4.4         4.7         5.5r         6.1r           6.3         233.1         227.5         224.7r         211.2r           6.9         18.6         18.0         17.0r         14.8r           33.1         33.2         33.5         32.9r         33.6r           33.1         33.2         33.5<	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2    10 original units of measurement   Unit	Coal (1)	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0 66.5 88.3 Astural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,122,392 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind & Phytro electricity (4)(5) 6,032 5,020 6,047 4,516 6,783 Vind & Phytro electricity (4)(5) 6,032 5,020 6,047 4,516 6,783 Vind & Phytro electricity (4)(5) 6,032 5,020 6,047 4,516 6,783 Vind & Phytro electricity (4)(5) 7,490  ### Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Vatural gas (3) 95.9 95.6 94.3 94.6 96.6 Vind & Phytro electricity (5) 0.5 0.4 0.5 0.4 0.6 Vind & Phytro electricity (5) 0.5 0.4 0.5 0.4 0.6 Verecentage shares (energy supplied basis) Coal (1) 20.9 0.7 0.2 0.6 Verecentage shares (energy supplied basis) Coal Petroleum 2.7 32.0 32.0 31.5 32.1 Valural gas 40.8 40.8 40.3 41.1 40.8 41.4 Valuciar electricity (9) 8.4 8.8 8.8 8.8 8.6 77.8 Valural gas 40.8 40.3 41.1 40.8 41.4 Valuciar electricity (9) 8.4 8.8 8.8 8.8 8.6 74.8 Valuciar electricity (9) 8.9 89.6 89.5 89.8 90.2  Vet electricity imports 0.5 0.4 0.3 0.1 0.3 0.1 Valural gas 40.8 40.3 41.1 40.8 41.4 Valuciar electricity 0.2 0.2 0.2 0.2 0.2 Vet electricity (9) 8.9 89.6 89.5 89.8 90.2  Vet electricity imports 0.5 0.4 0.3 0.1 0.3 0.1 Vet electricity imports 0.5 0.4 0.3 0.1 0.3 0.1 Vet electricity imports 0.5 0.4 0.3 0.1 0.3 0.1 Vet electricity imports 0.5 0.4 0.3 0.1 0.3 0.1 Vet electricity imports 0.5 0.4 0.3 0.1 0.3 0.1 Vet electricity imports 0.5 0.4 0.3 0.1 0.3 0.5 Vet electricity imports 0.5 0.4 0.3 0.1 0.3 0.5 Vet electricity imports 0.5 0.4 0.3 0.1 0.3 0.5 Vet electricity imports 0.5 0.4 0.3 0.1 0.3 0.5 Vet electricity imports 0.5 0.4 0.3 0.1 0.3 0.5 Vet electricity imports 0.5 0.4 0.3 0.1 0.3 0.5 Vet electricity imports 0.5 0.4 0.9 0.9 0.9 0.9 Vet electricity (9) 8.9 8.9 8.9 8.9 8.9 8.9 5.0 9.0 48.8 0.9 Vet electricity imports 0.5 0.4 0.9 0.9 0.9 0.9 Vet electricity (9) 8.9 8.9 8.9 8.9 8.9 8.9 9.5 5.9 9.8 9.9 Vet electricity (4)(5) 8.7 8.3 8.9 9.9 1.0 9.9 1.1 1.0 1.2 1.3 1.5 1.0 9.2 1.0 9.9 1.0 9.9 1.0 1.0 9.9 1.0 9.9 1.0 9.9 1.0 9.9 1.0	Case   (1)	Unit   Coal (1)	Unit   Date   Content	Distriction   Company
electricity (4)(5) " 7,834 8,829 10,365 12,285 imports 8,321 7,517 5,215 11,022 s of oil equivalent	1.1.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           518         75,451         63,028         52,486         69,098           334         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           99.9         43.4         41.0         38.2         31,2r           8.2         77.4         76.3         74.0r         70.9r           8.2         77.4         76.3         74.0r         70.9r           8.4         17.1         14.0         11.9         15.2           0.7         0.8         0.9         1.1         1.2r           0.7         0.6         0.4         0.9         0.2           4.2         4.4         4.7         5.5r         6.1r           6.9         18.6         18.0         17.0r         14.8r           33.1         33.2         33.5         32.9r         33.6r           39.9         38.4         39.6         41.5r         40.8r           7.8         7.3         6.2	Possil fuel dependency (7)   89.9   89.6   89.5   89.8   90.2	Coal (1) M.Jonnes 59.7 63.5 58.8 63.5 61.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) 85,063 90,983 87,848 88,686 79,999 81,016 47,00 66.5 67,20 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4)(5) 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Million tonnes of oil equivalent Coal (1) 38.5 40.8 37,7 40.5 39.1 Natural gas (3) 76,7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Million tonnes of oil equivalent (2) 76.7 75.9 75.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Nuclear electricity imports 12.2 0.9 0.7 0.2 0.6 Net electricity 19.5 Net of electrici	Natural gas (3)	Petroleum (2) " 89.9 69.1 67.0 66.5 88.3 Astural gas (3) GWh 1,114,942 " 85,063 90,093 87,848 88,686 79,999 N/Ind & Hydror electricity (4)(5) " 6,052 5,020 6,047 4,516 6,783 Nuclear electricity imports 14,174 10,399 8,414 2,160 7,490 Willion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Astural gas (3) 95.9 95.6 94.3 94.6 96.6 60.4 Auclear electricity (4) 19.6 0.5 0.4 0.5 0.4 0.5 0.4 0.6 0.4 Willion tonnes of oil equivalent Coal (1) 20.5 0.5 0.4 0.5 0.4 0.5 0.4 0.6 0.4 Astural gas (3) 95.9 95.6 94.3 94.6 96.6 0.4 0.6 0.4 Astural gas (3) 95.9 95.6 94.3 94.6 96.6 0.4 0.5 0.4 0.5 0.4 0.5 0.	Coal (1)	Unit   Does   Color	Data   Continue   Co	Unit
electricity (4)(5) " 7,834 8,829 10,365 12,285 imports 8,321 7,517 5,215 11,022 s of oil equivalent	1.1.3         70.4         69.6         67.6r         64.8r           544         1,039,629         1,048,930         1,083,615r         1,003,271r           518         75,451         63,028         52,486         69,098           334         8,829         10,365         12,285         14,534r           321         7,517         5,215         11,022         2,861           99.9         43.4         41.0         38.2         31,2r           8.2         77.4         76.3         74.0r         70.9r           8.2         77.4         76.3         74.0r         70.9r           8.4         17.1         14.0         11.9         15.2           0.7         0.8         0.9         1.1         1.2r           0.7         0.6         0.4         0.9         0.2           4.2         4.4         4.7         5.5r         6.1r           6.9         18.6         18.0         17.0r         14.8r           33.1         33.2         33.5         32.9r         33.6r           39.9         38.4         39.6         41.5r         40.8r           7.8         7.3         6.2	Fossil fuel dependency (7) 89.9 89.6 89.5 89.8 90.2	Coal (1) M.Jonnes 59.7 63.5 58.8 63.5 61.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) 85,063 90,983 87,848 88,686 79,999 81,016 47,00 66.5 67,20 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4)(5) 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Million tonnes of oil equivalent Coal (1) 38.5 40.8 37,7 40.5 39.1 Natural gas (3) 76,7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Million tonnes of oil equivalent (2) 76.7 75.9 75.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Nuclear electricity imports 19.6 20.8 20.1 20.0 18.2 Nuclear electricity imports 12.2 0.9 0.7 0.2 0.6 Net electricity 19.5 Net of electrici	Natural gas (3)	Petroleum (2) " 89.9 69.1 67.0 66.5 88.3 Astural gas (3) GWh 1,114,942 " 85,063 90,093 87,848 88,686 79,999 N/Ind & Hydror electricity (4)(5) " 6,052 5,020 6,047 4,516 6,783 Nuclear electricity imports 14,174 10,399 8,414 2,160 7,490 Willion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Astural gas (3) 95.9 95.6 94.3 94.6 96.6 60.4 Auclear electricity (4) 19.6 0.5 0.4 0.5 0.4 0.5 0.4 0.6 0.4 Willion tonnes of oil equivalent Coal (1) 20.5 0.5 0.4 0.5 0.4 0.5 0.4 0.6 0.4 Astural gas (3) 95.9 95.6 94.3 94.6 96.6 0.4 0.6 0.4 Astural gas (3) 95.9 95.6 94.3 94.6 96.6 0.4 0.5 0.4 0.5 0.4 0.5 0.	Coal (1)	Unit   Does   Color	Data   Continue   Co	Unit
" 71.3 70.4 69.6 gWh 1,096,544 1,039,629 1,048,930 1,08	2.4 68.0 63.7	Fossil fuel dependency (7)   89.9   89.6   89.5	Coal (1)         M.tonnes         59.7         63.5         58.8           Petroleum (2)         69.9         69.1         67.0           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,10           Nuclear electricity (4)         85,063         90,093         87,848         8           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047           Net electricity imports         14,174         10,399         8,414           Million tonnes of oil equivalent         60.2         8         20.1           Coal (1)         38.5         40.8         37.7         75.9         73.5           Petroleum (2)         76.7         75.9         73.5 <td< td=""><td>Natural gas (3)</td><td>Petroleum (2) " 69.9 69.1 67.0   Valural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,10   Valural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,10   Valuclear electricity (4) " 85,063 90,093 87,848 8 8   Vind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047   Vet electricity imports 14,174 10,399 8,414   Valural gas (3)</td><td>  Coal (1)</td><td>Unit Coal (1) M.tonnes 59.7 63.5 58.8 Petroleum (2) * 69.9 69.1 67.0 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,10 Nuclear electricity (4)(5) * 85,063 90,093 87,848 8 Nind &amp; Hydro electricity (4)(5) * 6,032 5,020 6,047 Net electricity imports 14,174 10,399 8,414  Illillion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 Petroleum (2) 76.7 75.9 73.5 Natural gas (3) 95.9 95.6 94.3 Nuclear electricity Nind &amp; Hydro electricity (5) 0.5 0.4 0.5 Net electricity imports 1.2 0.9 0.7 Note electricity imports 2.3 2.5 2.8 Note electricity imports 2.3 2.5 2.8 Note electricity imports 3.27 32.0 32.0 Note electricity 4.32 40.8 40.3 41.1 Note electricity 4.32 40.8 8.8 8.8 Note electricity 4.32 40.8 40.3 41.1 Note electricity 4.32 40.8 8.8 8.8 Note electricity 4.32 40.8 8.8 Note electricity 4.32 40.8 8.8</td><td>Unit Coal (1) M.tonnes 59.7 63.5 58.8 Petroleum (2) 8.9 69.1 67.0 Petroleum (2) 8.9 69.1 67.0 Petroleum (2) 8.0 GWh 1,114,942 1,111,363 1,097,031 1,10 Ruclear electricity (4) 8.063 90,093 87,848 8.0 Ferroleum (2) 6,002 6,004 Petroleum (2) 6,002 6,004 Petroleum (2) 8.0 Ferroleum (2)</td><td>original units of measurement           Unit         Unit           ball (1)         M.tonnes         59.7         63.5         58.8           stroleum (2)         "         69.9         69.1         67.0           stural gas (3)         GWh         1,114,942         1,111,363         1,007,031         1,10           clockear electricity (4)         "         85,663         90,093         87,848         8           sind &amp; Hydro electricity (4)(5)         "         6,032         5,020         6,047           telectricity imports         14,174         10,399         8,414           Lilion tonnes of oil equivalent           telectricity imports         37.7         75.9         73.5           tertroleum (2)         76.7         75.9         73.5           telectricity (5)         0.5         0.4         0.5         etelectricity (5)</td></td<>	Natural gas (3)	Petroleum (2) " 69.9 69.1 67.0   Valural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,10   Valural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,10   Valuclear electricity (4) " 85,063 90,093 87,848 8 8   Vind & Hydro electricity (4)(5) " 6,032 5,020 6,047   Vet electricity imports 14,174 10,399 8,414   Valural gas (3)	Coal (1)	Unit Coal (1) M.tonnes 59.7 63.5 58.8 Petroleum (2) * 69.9 69.1 67.0 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,10 Nuclear electricity (4)(5) * 85,063 90,093 87,848 8 Nind & Hydro electricity (4)(5) * 6,032 5,020 6,047 Net electricity imports 14,174 10,399 8,414  Illillion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 Petroleum (2) 76.7 75.9 73.5 Natural gas (3) 95.9 95.6 94.3 Nuclear electricity Nind & Hydro electricity (5) 0.5 0.4 0.5 Net electricity imports 1.2 0.9 0.7 Note electricity imports 2.3 2.5 2.8 Note electricity imports 2.3 2.5 2.8 Note electricity imports 3.27 32.0 32.0 Note electricity 4.32 40.8 40.3 41.1 Note electricity 4.32 40.8 8.8 8.8 Note electricity 4.32 40.8 40.3 41.1 Note electricity 4.32 40.8 8.8 8.8 Note electricity 4.32 40.8 8.8 Note electricity 4.32 40.8 8.8	Unit Coal (1) M.tonnes 59.7 63.5 58.8 Petroleum (2) 8.9 69.1 67.0 Petroleum (2) 8.9 69.1 67.0 Petroleum (2) 8.0 GWh 1,114,942 1,111,363 1,097,031 1,10 Ruclear electricity (4) 8.063 90,093 87,848 8.0 Ferroleum (2) 6,002 6,004 Petroleum (2) 6,002 6,004 Petroleum (2) 8.0 Ferroleum (2)	original units of measurement           Unit         Unit           ball (1)         M.tonnes         59.7         63.5         58.8           stroleum (2)         "         69.9         69.1         67.0           stural gas (3)         GWh         1,114,942         1,111,363         1,007,031         1,10           clockear electricity (4)         "         85,663         90,093         87,848         8           sind & Hydro electricity (4)(5)         "         6,032         5,020         6,047           telectricity imports         14,174         10,399         8,414           Lilion tonnes of oil equivalent           telectricity imports         37.7         75.9         73.5           tertroleum (2)         76.7         75.9         73.5           telectricity (5)         0.5         0.4         0.5         etelectricity (5)
vaste 1.0 1.1 1.2 1.3			Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         86,868         79,992           Wind & Hydroe electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Wind & Hydro electricity (5)         2.3         2.5         2.8         3.1         33.1         32.5           Total (6)         234.8         236.9         229.6<	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Nite electricity imports 14,174 10,399 8,414 2,160 7,490 Nillilion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity (5) 19.6 20.8 20.1 20.0 18.2 Nind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Sloenery & waste 2.3 25.5 2.8 3.1 3.5 Sloenery & waste (16.4 17.2 16.4 17.5 16.7 Petroleum 23.7 32.0 32.0 31.5 32.1 Natural gas 40.8 40.8 40.3 41.1 40.8 41.4	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Auclear electricity (4) (*)         85,063         90,093         8,7848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Villion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Valural gas (3)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Valural gas (3)         95.9         95.6         94.3         94.6 <t< td=""><td>  Unit</td><td>  Unit</td><td>original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           setroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind &amp; Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           ind &amp; Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           steroleum (2)         76.7         75.9         73.5         73.0         75.1           strutural gas (3)         95.9         95.6         94.3         94.6         96.6           stel electricity imports         1.2         0.9         0.7         0.2         0.6           et electricity imports         1.2         0.9         0.7         0.2         0.6</td></t<>	Unit	Unit	original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           setroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           ind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           steroleum (2)         76.7         75.9         73.5         73.0         75.1           strutural gas (3)         95.9         95.6         94.3         94.6         96.6           stel electricity imports         1.2         0.9         0.7         0.2         0.6           et electricity imports         1.2         0.9         0.7         0.2         0.6
vaste 1.0 1.1 1.2 1.3			Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         86,868         79,992           Wind & Hydroe electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Wind & Hydro electricity (5)         2.3         2.5         2.8         3.1         33.1         32.5           Total (6)         234.8         236.9         229.6<	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Nite electricity imports 14,174 10,399 8,414 2,160 7,490 Nillilion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity (5) 19.6 20.8 20.1 20.0 18.2 Nind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Sloenery & waste 2.3 25.5 2.8 3.1 3.5 Sloenery & waste (16.4 17.2 16.4 17.5 16.7 Petroleum 23.7 32.0 32.0 31.5 32.1 Natural gas 40.8 40.8 40.3 41.1 40.8 41.4	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Auclear electricity (4) (*)         85,063         90,093         8,7848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Villion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Valural gas (3)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Valural gas (3)         95.9         95.6         94.3         94.6 <t< td=""><td>  Unit</td><td>  Unit</td><td>original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           setroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind &amp; Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           ind &amp; Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           steroleum (2)         76.7         75.9         73.5         73.0         75.1           strutural gas (3)         95.9         95.6         94.3         94.6         96.6           stel electricity imports         1.2         0.9         0.7         0.2         0.6           et electricity imports         1.2         0.9         0.7         0.2         0.6</td></t<>	Unit	Unit	original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           setroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           ind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           steroleum (2)         76.7         75.9         73.5         73.0         75.1           strutural gas (3)         95.9         95.6         94.3         94.6         96.6           stel electricity imports         1.2         0.9         0.7         0.2         0.6           et electricity imports         1.2         0.9         0.7         0.2         0.6
imports 0.5 0.4 0.3 0.1 raste 1.0 1.1 1.2 1.3	0.5 0.4 0.3 0.1 0.3	Wind & Hydro electricity 0.2 0.2 0.2 0.2 0.2	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         86,868         79,992           Wind & Hydroe electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Wind & Hydro electricity (5)         2.3         2.5         2.8         3.1         33.1         32.5           Total (6)         234.8         236.9         229.6<	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Nite electricity imports 14,174 10,399 8,414 2,160 7,490 Nillilion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity (5) 19.6 20.8 20.1 20.0 18.2 Nind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Net electricity imports 2.3 2.5 2.8 3.1 3.5 Sloenery & waste 2.3 25.5 2.8 3.1 3.5 Sloenery & waste (16.4 17.2 16.4 17.5 16.7 Petroleum 23.7 32.0 32.0 31.5 32.1 Natural gas 40.8 40.8 40.3 41.1 40.8 41.4	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Auclear electricity (4) (*)         85,063         90,093         8,7848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Villion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Valural gas (3)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Valural gas (3)         95.9         95.6         94.3         94.6 <t< td=""><td>  Unit</td><td>  Unit</td><td>original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           setroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind &amp; Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           ind &amp; Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           steroleum (2)         76.7         75.9         73.5         73.0         75.1           strutural gas (3)         95.9         95.6         94.3         94.6         96.6           stel electricity imports         1.2         0.9         0.7         0.2         0.6           et electricity imports         1.2         0.9         0.7         0.2         0.6</td></t<>	Unit	Unit	original units of measurement           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           setroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           ind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           steroleum (2)         76.7         75.9         73.5         73.0         75.1           strutural gas (3)         95.9         95.6         94.3         94.6         96.6           stel electricity imports         1.2         0.9         0.7         0.2         0.6           et electricity imports         1.2         0.9         0.7         0.2         0.6
imports 0.5 0.4 0.3 0.1 raste 1.0 1.1 1.2 1.3	0.5 0.4 0.3 0.1 0.3	Wind & Hydro electricity 0.2 0.2 0.2 0.2 0.2 0.2	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         98.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         7,299.99           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6 <td>Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,992           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Willion tonnes of oil equivalent         76,77         75,9         73,5         73,0         39,1           Petroleum (2)         76,7         75,9         73,5         73,0         75,1           Nuclear electricity agas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity (5)         0,5         0,4         0,5         0,4         0,6           Wind &amp; Hydro electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy &amp; waste         2,3         2,5         2,8         3,1         3,5           Total (6)         234,8         236,9         229,6         231,9         233,6           Percentage shares (energy supplied basis)         16,4         17,2         <t< td=""><td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Valuelar electricity (4) " 85,063 90,093 87,848 88,686 79,999 Mind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent Solution (4) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral electricity 19.6 20.8 20.1 20.0 18.2 Vind &amp; Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Sloenergy &amp; waste 2.3 2.5 2.8 3.1 3.5 otal (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis)</td><td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Billion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Fetroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Vind &amp; Hydro electricity         19.6         20.8         20.1         20.0         18.2           Vind &amp; Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.5           Sciencergy &amp; waste         2.3</td><td>  Coal (1)</td><td>  Unit</td><td>original units of measurement Unit Dal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Petroleum (3) " 85,063 90.093 87,848 88,686 79.999 pind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490                                       </td></t<></td>	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Willion tonnes of oil equivalent         76,77         75,9         73,5         73,0         39,1           Petroleum (2)         76,7         75,9         73,5         73,0         75,1           Nuclear electricity agas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity (5)         0,5         0,4         0,5         0,4         0,6           Wind & Hydro electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy & waste         2,3         2,5         2,8         3,1         3,5           Total (6)         234,8         236,9         229,6         231,9         233,6           Percentage shares (energy supplied basis)         16,4         17,2 <t< td=""><td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Valuelar electricity (4) " 85,063 90,093 87,848 88,686 79,999 Mind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent Solution (4) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral electricity 19.6 20.8 20.1 20.0 18.2 Vind &amp; Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Sloenergy &amp; waste 2.3 2.5 2.8 3.1 3.5 otal (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis)</td><td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Billion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Fetroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Vind &amp; Hydro electricity         19.6         20.8         20.1         20.0         18.2           Vind &amp; Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.5           Sciencergy &amp; waste         2.3</td><td>  Coal (1)</td><td>  Unit</td><td>original units of measurement Unit Dal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Petroleum (3) " 85,063 90.093 87,848 88,686 79.999 pind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490                                       </td></t<>	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Valuelar electricity (4) " 85,063 90,093 87,848 88,686 79,999 Mind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent Solution (4) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral electricity 19.6 20.8 20.1 20.0 18.2 Vind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Sloenergy & waste 2.3 2.5 2.8 3.1 3.5 otal (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Billion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Fetroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Vind & Hydro electricity         19.6         20.8         20.1         20.0         18.2           Vind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.5           Sciencergy & waste         2.3	Coal (1)	Unit	original units of measurement Unit Dal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Petroleum (3) " 85,063 90.093 87,848 88,686 79.999 pind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490
electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 aaste 1.0 1.1 1.2 1.3	0.2     0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	the state of the s	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         98.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         7,299.99           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6 <td>Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,992           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Willion tonnes of oil equivalent         76,77         75,9         73,5         73,0         39,1           Petroleum (2)         76,7         75,9         73,5         73,0         75,1           Nuclear electricity agas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity (5)         0,5         0,4         0,5         0,4         0,6           Wind &amp; Hydro electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy &amp; waste         2,3         2,5         2,8         3,1         3,5           Total (6)         234,8         236,9         229,6         231,9         233,6           Percentage shares (energy supplied basis)         16,4         17,2         <t< td=""><td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Valuelar electricity (4) " 85,063 90,093 87,848 88,686 79,999 Mind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent Solution (4) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral electricity 19.6 20.8 20.1 20.0 18.2 Vind &amp; Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Sloenergy &amp; waste 2.3 2.5 2.8 3.1 3.5 otal (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis)</td><td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Billion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Fetroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Vind &amp; Hydro electricity         19.6         20.8         20.1         20.0         18.2           Vind &amp; Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.5           Sciencergy &amp; waste         2.3</td><td>  Coal (1)</td><td>  Unit</td><td>original units of measurement Unit Dal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Petroleum (3) " 85,063 90.093 87,848 88,686 79.999 pind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490                                       </td></t<></td>	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Willion tonnes of oil equivalent         76,77         75,9         73,5         73,0         39,1           Petroleum (2)         76,7         75,9         73,5         73,0         75,1           Nuclear electricity agas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity (5)         0,5         0,4         0,5         0,4         0,6           Wind & Hydro electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy & waste         2,3         2,5         2,8         3,1         3,5           Total (6)         234,8         236,9         229,6         231,9         233,6           Percentage shares (energy supplied basis)         16,4         17,2 <t< td=""><td>Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Valuelar electricity (4) " 85,063 90,093 87,848 88,686 79,999 Mind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent Solution (4) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral electricity 19.6 20.8 20.1 20.0 18.2 Vind &amp; Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Sloenergy &amp; waste 2.3 2.5 2.8 3.1 3.5 otal (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis)</td><td>Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Billion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Fetroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Vind &amp; Hydro electricity         19.6         20.8         20.1         20.0         18.2           Vind &amp; Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.5           Sciencergy &amp; waste         2.3</td><td>  Coal (1)</td><td>  Unit</td><td>original units of measurement Unit Dal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Petroleum (3) " 85,063 90.093 87,848 88,686 79.999 pind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490                                       </td></t<>	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Valuelar electricity (4) " 85,063 90,093 87,848 88,686 79,999 Mind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Hillion tonnes of oil equivalent Solution (4) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral gas (3) 95.9 95.6 94.3 94.6 96.6 Valueral electricity 19.6 20.8 20.1 20.0 18.2 Vind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Sloenergy & waste 2.3 2.5 2.8 3.1 3.5 otal (6) 234.8 236.9 229.6 231.9 233.6 Vercentage shares (energy supplied basis)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Billion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Fetroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Vind & Hydro electricity         19.6         20.8         20.1         20.0         18.2           Vind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.5           Sciencergy & waste         2.3	Coal (1)	Unit	original units of measurement Unit Dal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Petroleum (3) " 85,063 90.093 87,848 88,686 79.999 pind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490
electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 aaste 1.0 1.1 1.2 1.3	0.2     0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	the state of the s	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         " 69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         " 85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Net electricity imports         2.3<	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)(*)         *         85,063         90,093         87,848         86,866         79,992           Wind & Hydro electricity (4)(*)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         Coal (*)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Net electricity imports         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Vatural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,323 Vatural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,323 Vatural gas (3) 90.093 87,848 88,686 79,999 Vind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Vetilitilion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Vatural gas (3) 95.9 95.6 94.3 40.4 66.6 Vuclear electricity (5) 95.9 95.6 94.3 40.4 0.6 Vuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Vet electricity imports 1.2 0.9 0.7 0.2 0.6 Vet electricity imports 1.2 0.9 0.7 0.2 0.6 Vet electricity imports 1.2 0.9 229.6 231.9 233.6 Vet electricity electricity (5) 234.8 236.9 229.6 231.9 233.6 Vet electricity electricity (5) 234.8 236.9 229.6 231.9 233.6 Vet electricity electricity electricity (5) 234.8 236.9 229.6 231.9 233.6 Vet electricity e	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90.093         8,7848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Vitillion tonnes of oil equivalent         6,032         5,020         6,047         4,516         6,789           Valural (3)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Vuclear electricity         19.6         20.8         20.1         20.0         18.2           Vind & Hydro electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1 <td>  Coal (1)</td> <td>  Unit</td> <td>original units of measurement           ball (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           strula gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind &amp; Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           st electricity imports         14,174         10,399         8,414         2,160         7,490           ball (1)         38.5         40.8         37.7         40.5         39.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         95.9         95.6         94.3         34.6         96.6           suclear electricity         19.6         20.8         20.1         20.0         18.2           suclear electricity (5)         0.5         0.4         0.5         0.4         0.6           s</td>	Coal (1)	Unit	original units of measurement           ball (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           strula gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           st electricity imports         14,174         10,399         8,414         2,160         7,490           ball (1)         38.5         40.8         37.7         40.5         39.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         95.9         95.6         94.3         34.6         96.6           suclear electricity         19.6         20.8         20.1         20.0         18.2           suclear electricity (5)         0.5         0.4         0.5         0.4         0.6           s
icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 asaste 1.0 1.1 1.2 1.3	8.4     8.8     8.8     8.6     7.8       0.2     0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Nuclear electricity 8.4 8.8 8.6 7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         " 69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         " 85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Net electricity imports         2.3<	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)(*)         *         85,063         90,093         87,848         86,866         79,992           Wind & Hydro electricity (4)(*)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         Coal (*)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Net electricity imports         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Vatural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,323 Vatural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,323 Vatural gas (3) 90.093 87,848 88,686 79,999 Vind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Vetilitilion tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Vatural gas (3) 95.9 95.6 94.3 40.4 66.6 Vuclear electricity (5) 95.9 95.6 94.3 40.4 0.6 Vuclear electricity (5) 0.5 0.4 0.5 0.4 0.6 Vet electricity imports 1.2 0.9 0.7 0.2 0.6 Vet electricity imports 1.2 0.9 0.7 0.2 0.6 Vet electricity imports 1.2 0.9 229.6 231.9 233.6 Vet electricity electricity (5) 234.8 236.9 229.6 231.9 233.6 Vet electricity electricity (5) 234.8 236.9 229.6 231.9 233.6 Vet electricity electricity electricity (5) 234.8 236.9 229.6 231.9 233.6 Vet electricity e	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90.093         8,7848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Vitillion tonnes of oil equivalent         6,032         5,020         6,047         4,516         6,789           Valural (3)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Vuclear electricity         19.6         20.8         20.1         20.0         18.2           Vind & Hydro electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1 <td>  Coal (1)</td> <td>  Unit</td> <td>original units of measurement           ball (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           strula gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind &amp; Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           st electricity imports         14,174         10,399         8,414         2,160         7,490           ball (1)         38.5         40.8         37.7         40.5         39.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         95.9         95.6         94.3         34.6         96.6           suclear electricity         19.6         20.8         20.1         20.0         18.2           suclear electricity (5)         0.5         0.4         0.5         0.4         0.6           s</td>	Coal (1)	Unit	original units of measurement           ball (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           strula gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           clear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           st electricity imports         14,174         10,399         8,414         2,160         7,490           ball (1)         38.5         40.8         37.7         40.5         39.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         95.9         95.6         94.3         34.6         96.6           suclear electricity         19.6         20.8         20.1         20.0         18.2           suclear electricity (5)         0.5         0.4         0.5         0.4         0.6           s
40.8 40.3 41.1 40.8 40.3 41.1 40.8 40.1 40.8 40.1 40.8 40.1 40.8 40.1 40.1 40.8 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1	0.8     40.3     41.1     40.8     41.4       8.4     8.8     8.8     8.6     7.8       0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         86,868         79,992           Wind & Hydroe electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Auclear electricity (4) (*)         85,063         90,093         87,848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Villion tonnes of oil equivalent         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5           Net electricity imports         1.2         0.9         0.7	Unit	Unit	original units of measurement  Dal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 61.3 61.0 et deleuricity (2) " 69.9 69.1 67.0 66.5 68.3 61.3 61.3 61.3 61.3 61.3 61.3 61.3 61
40.8 40.3 41.1 40.8 40.3 41.1 40.8 40.1 40.8 40.1 40.8 40.1 40.8 40.1 40.1 40.8 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1	0.8     40.3     41.1     40.8     41.4       8.4     8.8     8.8     8.6     7.8       0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         86,868         79,992           Wind & Hydroe electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Auclear electricity (4) (*)         85,063         90,093         87,848         86,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Villion tonnes of oil equivalent         14,174         10,399         8,414         2,160         7,490           Illion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5           Net electricity imports         1.2         0.9         0.7	Unit	Unit	original units of measurement  Dal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 61.3 61.0 et deleuricity (2) " 69.9 69.1 67.0 66.5 68.3 61.3 61.3 61.3 61.3 61.3 61.3 61.3 61
32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 ticity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 raste 1.0 1.1 1.2 1.3	12.7     32.0     32.0     31.5     32.1       10.8     40.3     41.1     40.8     41.4       8.4     8.8     8.6     7.8       0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         59.7         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38,5         40,8         37,7         40,5         39,1           Petroleum (2)         76,7         75,9         73,5         73,0         75,1           Natural gas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity         19,6         20,8         20,1         20,0         18,2           Wind & Hydro electricity (5)         0.5         0,4         0,5         0,4         0,6           Net electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy & waste         2,3         2,5         2,8         3,1         3,5           Total (6)         234,8         236,9         229,6         231,9	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Alet electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Patroleum (2)         95.9         95.6         94.3         94.6         96.6           Viola & Hydro electricity         19.6         20.8         20.1         20.0         18.2           Vind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5           Vet electricity imports         1.2         0.9         0.7	Coal (1)	Unit	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  etroleum (2) " 69.9 69.1 67.0 66.5 68.3  sturual gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922  clacear electricity (4) (5) " 85,063 90,093 87,848 88,686 79,999  ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783  et electricity imports 14,174 10,399 8,414 2,160 7,490  Illion tonnes of oil equivalent  ball (1) 38.5 40.8 37.7 40.5 39.1  etroleum (2) 76.7 75.9 73.5 73.0 75.1  attural gas (3) 95.9 95.6 94.3 94.6 96.6  cleaer electricity 196 20.8 20.1 20.0 18.2  ind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6  et electricity imports 1.2 0.9 0.7 0.2 0.6  et electricity imports 1.2 2.8 23.6 231.9 233.6  tall (6) 234.8 236.9 229.6 231.9
32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 ticity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 raste 1.0 1.1 1.2 1.3	12.7     32.0     32.0     31.5     32.1       10.8     40.3     41.1     40.8     41.4       8.4     8.8     8.6     7.8       0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,14,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         Coal (7)         75.9         73.5         73.0         75.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Viet electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Auclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Side electricity imports         <	Unit	Unit	Original units of measurement           Unit         Unit           pal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           etroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           uclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           st electricity imports         14,174         10,399         8,414         2,160         7,490           llion tonnes of oil equivalent         Stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         76.7         75.9         94.3         94.6         96.6           stroleum (2)         95.9         95.6         94.3         94.6         96.6           stroleur (2)         95.9
16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 asste 1.0 1.1 1.2 1.3	12.7     32.0     32.0     31.5     32.1       10.8     40.3     41.1     40.8     41.4       8.4     8.8     8.6     7.8       0.2     0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.8         40.4         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,14,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         Coal (7)         75.9         73.5         73.0         75.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Viet electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Auclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Side electricity imports         <	Unit	Unit	Original units of measurement           Unit         Unit           pal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           etroleum (2)         "         69.9         69.1         67.0         66.5         68.3           attural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           uclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           ind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           st electricity imports         14,174         10,399         8,414         2,160         7,490           llion tonnes of oil equivalent         Stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         76.7         75.9         73.5         73.0         75.1           stroleum (2)         76.7         75.9         94.3         94.6         96.6           stroleum (2)         95.9         95.6         94.3         94.6         96.6           stroleur (2)         95.9
Hares (energy supplied basis)  16.4 17.2 16.4 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 rassle 1.0 1.1 1.2 1.3	6.4 17.2 16.4 17.5 16.7 12.7 32.0 32.0 31.5 32.1 10.8 40.3 41.1 40.8 41.4 8.4 8.8 8.8 8.6 7.8 0.2 0.2 0.2 0.2 0.2 0.5 0.4 0.3 0.1 0.3	Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         20         8,418         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,993         87,848         86,868         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,666 79,999 Nind & Hydro electricity (4/5) " 6,032 5,020 6,047 4,516 6,783 Note electricity imports 14,174 10,399 8,414 2,160 7,490 Nillilion tonnes of oil equivalent Coal (1) 38.5 40.8 37,7 40.5 39,1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 24.0 40.6 Nuclear electricity (5) 0,5 0,4 0,5 0,4 0.6 Net electricity imports 12,2 0,9 0,7 0,2 0.6	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Nuclear electricity (4)         85,063         90,093         8,7848         88,686         79,999           Vind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,789           Viet electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Deal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Vuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Vet electricity imports <td< td=""><td>  Unit</td><td>  Unit</td><td>original units of measurement Unit bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 etroleum (2) " 69.9 69.1 67.0 66.5 68.3 etural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 etalear electricity (4) (** 85,063 90,093 87,848 88,686 79,999 eind &amp; Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490  Ulion tonnes of oil equivalent bal (1) 38.5 40.8 37.7 40.5 39.1 etroleum (2) 76.7 75.9 73.5 73.0 75.1 etroleum (2) 95.9 95.6 94.3 94.6 96.6 eclear electricity (5) 0.5 0.4 0.5 0.4 et electricity imports 1.2 0.9 0.7 0.2</td></td<>	Unit	Unit	original units of measurement Unit bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 etroleum (2) " 69.9 69.1 67.0 66.5 68.3 etural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 etalear electricity (4) (** 85,063 90,093 87,848 88,686 79,999 eind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490  Ulion tonnes of oil equivalent bal (1) 38.5 40.8 37.7 40.5 39.1 etroleum (2) 76.7 75.9 73.5 73.0 75.1 etroleum (2) 95.9 95.6 94.3 94.6 96.6 eclear electricity (5) 0.5 0.4 0.5 0.4 et electricity imports 1.2 0.9 0.7 0.2
234.8 236.9 229.6 231.9  thares (energy supplied basis)  16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8  ticity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 vaste 1.0 1.1 1.2 1.3	4.8     236.9     229.6     231.9     233.6       6.4     17.2     16.4     17.5     16.7       127     32.0     32.0     31.5     32.1       10.8     40.3     41.1     40.8     41.4       8.4     8.8     8.8     8.6     7.8       0.2     0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)(*)         *         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Stillion tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Fetroleum (2)         76.7         75.9         73.5         73.0         75.1           Autural gas (3)         95.9         95.6         94.3         94.6         96.6           Vuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5	Unit	Unit	original units of measurement Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 betroleum (2) * 69.9 69.1 67.0 66.5 68.3  sturul gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922  ulclear electricity (4) * 85,063 90,993 87,848 88,686 79,999  ind & Hydro electricity (4)(5) * 6,032 5,020 6,047 4,516 6,783  et electricity imports 14,174 10,399 8,414 2,160 7,490  Illion tonnes of oil equivalent  all (1) 38.5 40.8 37.7 40.5 39.1  etroleum (2) 76.7 75.9 73.5 73.0 75.1  stural gas (3) 95.9 95.6 94.3 94.6 96.6  global erelectricity (5) 19.6 20.8 20.1 20.0 18.2  ind & Hydro electricity (5) 0.5 0.4 0.5 0.4
Asste 2.3 2.5 2.8 3.1 234.8 236.9 229.6 231.9 234.8 236.9 229.6 231.9 234.8 236.9 229.6 231.9 234.8 236.9 229.6 231.9 234.8 236.9 229.6 231.9 234.8 236.9 23	2.3         2.5         2.8         3.1         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,993         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Valtural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,292 Mind & Hydro electricity (4) (9 85,063 90,093 87,848 88,686 79,999 Mind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Vet electricity imports 14,174 10,399 8,414 2,160 7,490 Million tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Valtural gas (3) 95.9 95.6 94.3 94.6 96.6 Valcear electricity 19.6 20.8 20.1 20.0 18.2	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Astural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,789           Vet electricity imports         *         14,174         10,399         8,414         2,160         7,490           tillilion tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6           Valural gas (3)         19.6         20.8         20.1         20.0         18.2	Unit	Unit	original units of measurement Unit bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 etroleum (2) " 69.9 69.1 67.0 66.5 68.3 etroleum (3) " 85.063 90.093 87.848 88.686 79.999 ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14.174 10.399 8,414 2,160 7,490 lilion tonnes of oil equivalent bal (1) 38.5 40.8 37.7 40.5 39.1 etroleum (2) 76.7 75.9 73.5 73.0 75.1 stural gas (3) 95.9 95.6 94.3 94.6 96.6 sclear electricity 19.6 20.8 20.1 20.0 18.2
imports 1.2 0.9 0.7 0.2 aste 2.3 2.5 2.8 3.1 234.8 236.9 229.6 231.9 chares (energy supplied basis)  16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 aste 1.0 1.1 1.2 1.3	1.2     0.9     0.7     0.2     0.6       2.3     2.5     2.8     3.1     3.5       4.8     236.9     229.6     231.9     233.6       6.4     17.2     16.4     17.5     16.7       127     32.0     32.0     31.5     32.1       10.8     40.3     41.1     40.8     41.4       8.4     8.8     8.6     7.8       0.2     0.2     0.2     0.2       0.5     0.4     0.3     0.1     0.3	Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         2         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         86,868         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,23,922           Nuclear electricity (4)         85,063         90,093         8,7848         88,686         79,999           Vind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Vet electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent           Deal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Valural gas (3)         95.9         95.6         94.3         94.6         96.6	Unit   Unit   Coal (1)   M.tonnes   59.7   63.5   58.8   63.5   61.3     Petroleum (2)	Unit	original units of measurement Unit bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 etroleum (2) " 69.9 69.1 67.0 66.5 68.3 stural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 uclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 ind & Hydro electricity imports 14,174 10,399 8,414 2,160 7,490  Illion tonnes of oil equivalent ual (1) 38.5 40.8 37.7 40.5 39.1 etroleum (2) 76.7 75.9 73.5 73.0 75.1 etroleum (2) 95.9 95.6 94.3 94.6 96.6
electricity (5) 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 araste 2.3 2.5 2.8 3.1 2.3 2.5 2.8 3.1 2.4 2.3 2.5 2.8 3.1 2.4 2.3 2.5 2.8 3.1 2.4 2.3 2.5 2.8 3.1 2.4 2.3 2.5 2.8 3.1 2.4 2.3 2.5 2.8 3.1 2.4 2.3 2.5 2.8 2.8 2.3 2.9 2.2 2.6 2.3 2.9 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	1.2         0.9         0.7         0.2         0.6           2.3         2.5         2.8         3.1         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           127         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Willion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         66.3           Astural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Aluclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           vet electricity imports         14,174         10,399         8,414         2,160         7,490           Itillion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1	Unit	Unit	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  bar (10) " 69.9 69.1 67.0 66.5 68.3  stural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922  ulcelar electricity (4) " 85,063 90,093 87,848 88,686 79,999  ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783  at electricity imports 14,174 10,399 8,414 2,160 7,490  Illion tonnes of oil equivalent  bal (1) 38.5 40.8 37.7 40.5 39.1  throleum (2) 76.7 75.9 73.5 73.0 75.1
icity 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 asste 2.3 2.5 2.8 3.1 234.8 236.9 229.6 231.9 chares (energy supplied basis)  16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 asste 1.0 1.1 1.2 1.3	0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           2.3         2.5         2.8         3.1         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           127         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.6         7.8           0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)         Fercentage shares (energy supplied basis)         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,995           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Vet electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Vuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Hillion tonnes of oil equivalent         38.5         40.8         37.7         40.5         39.1	Unit   Coal (1)   M.tonnes   59.7   63.5   58.8   63.5   61.3	Unit	original units of measurement Unit bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 etroleum (2) " 69.9 69.1 67.0 66.5 68.3 stural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 clear electricity (4) " 85,063 90,093 87,848 88,686 79,999 ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 et electricity imports 14,174 10,399 8,414 2,160 7,490 Illion tonnes of oil equivalent bal (1) 38.5 40.8 37.7 40.5 39.1
icity 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 asste 2.3 2.5 2.8 3.1 234.8 236.9 229.6 231.9 chares (energy supplied basis)  16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 asste 1.0 1.1 1.2 1.3	9.6 20.8 20.1 20.0 18.2 0.5 0.4 0.5 0.4 0.6 1.2 0.9 0.7 0.2 0.6 2.3 2.5 2.8 3.1 3.5 4.8 236.9 229.6 231.9 233.6 6.4 17.2 16.4 17.5 16.7 12.7 32.0 32.0 31.5 32.1 0.8 40.3 41.1 40.8 41.4 8.4 8.8 8.8 8.6 7.8 0.2 0.2 0.2 0.2 0.2 0.2 0.5 0.4 0.3 0.1 0.3	Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)         Fercentage shares (energy supplied basis)         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity (imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         *	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,993         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent	Petroleium (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Vind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Vet electricity imports         14,174         10,399         8,414         2,160         7,490           Villion tonnes of oil equivalent         14,174         10,399         8,414         2,160         7,490	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Nuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999 Nind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 Petroleum (2) " 69.9 69.1 67.0 66.5 68 latural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,92 luclear electricity (4) " 85,063 90,093 87,848 88,686 79,92 fivid & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,78 let electricity imports 14,174 10,399 8,414 2,160 7,48 lillion tonnes of oil equivalent	original units of measurement           Unit         Unit           ball (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           stural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           cyclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           at electricity imports         6,032         5,020         6,047         4,516         6,783           at electricity imports         14,174         10,399         8,414         2,160         7,490           Ilion tonnes of oil equivalent
95.9 95.6 94.3 94.6 loity 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 limports 1.2 0.9 0.7 0.2 aste 234.8 236.9 229.6 231.9 limports 1.2 10.9 0.7 0.2 limports 234.8 236.9 229.6 231.9 limports 234.8 236.9 29.6 231.9 limports 40.8 40.3 41.1 40.8 loity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 limports 0.5 0.4 0.3 0.1 limports 0.5 0.5 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	55.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.6         1.2         0.9         0.7         0.2         0.6           1.2         0.9         0.7         0.2         0.6         3.1         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         25.9         2.8         3.1         3.5           Total (6)         28.8         23.9         229.6         23.0         23.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,92         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,111,492         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490	Unit           Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Wuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490	Unit           Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61           fetroleum (2)         "         69.9         69.1         67.0         66.5         68           latural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,92           luclear electricity (4)         "         85,063         90,093         87,848         88,686         79,92           let electricity imports         14,174         10,399         8,414         2,160         7,45	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  troleum (2) " 69.9 69.1 67.0 66.5 68.3  atural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922  uclear electricity (4) " 85,063 90,093 87,848 88,686 79,999  ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783  at electricity imports 14,174 10,399 8,414 2,160 7,490
76.7 75.9 73.5 73.0 95.9 95.6 94.3 94.6 94.3 94.6 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	76.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           2.3         2.5         2.8         3.1         3.5           4.4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           227         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.6         7.8           0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,92         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,992           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,111,492         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490	Unit           Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Wuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490	Unit           Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61           fetroleum (2)         "         69.9         69.1         67.0         66.5         68           latural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,92           luclear electricity (4)         "         85,063         90,093         87,848         88,686         79,92           let electricity imports         14,174         10,399         8,414         2,160         7,45	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  troleum (2) " 69.9 69.1 67.0 66.5 68.3  atural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922  uclear electricity (4) " 85,063 90,093 87,848 88,686 79,999  ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783  at electricity imports 14,174 10,399 8,414 2,160 7,490
38.5 40.8 37.7 40.5 76.7 75.9 73.5 73.0 73.0 95.9 95.6 94.3 94.6 loitly 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 2.3 2.5 2.8 3.1 23.4 234.8 236.9 229.6 231.9 chares (energy supplied basis)  16.4 17.2 16.4 17.5 16.4 17.5 16.4 17.5 40.8 40.8 40.3 41.1 40.8 61.5 40.8 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	76.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           2.3         2.5         2.8         3.1         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           2.7         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.6         7.8           0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         75.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)         E         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.8         8.8         8.6         7.8	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,998           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783	Petroleum (2)	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         66.3           Valural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Valuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783	Unit           Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Alatural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 Petroleum (2) " 69.9 69.1 67.0 66.5 68 latural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,92 Unclear electricity (4) " 85,063 90,093 87,848 88,686 79,95 Vind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,78	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  etroleum (2) " 69.9 69.1 67.0 66.5 68.3  stural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922  ulcaer electricity (4) " 85,063 90,093 87,848 88,686 79,999  ind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783
38.5   40.8   37.7   40.5	88.5 40.8 37.7 40.5 39.1 66.7 75.9 73.5 73.0 75.1 55.9 95.6 94.3 94.6 96.6 9.6 20.8 20.1 20.0 18.2 0.5 0.4 0.5 0.4 0.6 1.2 0.9 0.7 0.2 0.6 2.3 2.5 2.8 3.1 3.5 4.8 236.9 229.6 231.9 233.6 6.4 17.2 16.4 17.5 16.7 2.7 32.0 32.0 31.5 32.1 0.8 40.3 41.1 40.8 41.4 8.4 8.8 8.8 8.6 7.8 0.2 0.2 0.2 0.2 0.2 0.5 0.4 0.3 0.1 0.3	Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)         V         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         41.1         40.8         41.4           Nuclear electricity         8.4         8.8         8.8         8.6         7.	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,998	Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         *         69.9         69.1         67.0         66.5         68.3           Autural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Auclear electricity (4)         *         85,063         90,093         87,848         88,686         79,999	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Vatural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922 Vuclear electricity (4) " 85,063 90,093 87,848 88,686 79,999	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 Petroleum (2) " 69.9 69.1 67.0 66.5 68 latural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,92 luclear electricity (4) " 85,063 90,093 87,848 88,686 79,98	original units of measurement           Unit         Unit           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           stroleum (2)         "         69.9         69.1         67.0         66.5         68.3           stural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           uclear electricity (4)         "         85,063         90,093         87,848         88,686         79,999
imports 14,174 10,399 8,414 2,160 s of oil equivalent 38.5 40.8 37.7 40.5 76.7 75.9 73.5 73.0 0) 95.9 95.6 94.3 94.6 icity 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 raste 234.8 236.9 229.6 231.9 chares (energy supplied basis) 16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 raste 1.0 1.1 1.2 1.3	174         10,399         8,414         2,160         7,490           18.5         40.8         37.7         40.5         39.1           16.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.6         1.2         0.9         0.7         0.2         0.6           1.2         0.9         0.7         0.2         0.6         3.5         4.8         231.9         233.6           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           127         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         38.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         <	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922	Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922	Unit  Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  Petroleum (2) " 69.9 69.1 67.0 66.5 68.3  Vatural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,922	Unit  Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 Petroleum (2) " 69.9 69.1 67.0 66.5 68 latural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,616 1,123,92	original units of measurement           Unit         Unit           bal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           ettroleum (2)         "         69.9         69.1         67.0         66.5         68.3           atural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922
imports 14,174 10,399 8,414 2,160 s of oil equivalent 38.5 40.8 37.7 40.5 76.7 75.9 73.5 73.0 0) 95.9 95.6 94.3 94.6 icity 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 raste 234.8 236.9 229.6 231.9 chares (energy supplied basis) 16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 raste 1.0 1.1 1.2 1.3	174         10,399         8,414         2,160         7,490           18.5         40.8         37.7         40.5         39.1           16.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.6         1.2         0.9         0.7         0.2         0.6           1.2         0.9         0.7         0.2         0.6         3.5         4.8         231.9         233.6           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           127         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2           0.5         0.4         0.3         0.1         0.3	Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38.5         40.8         37.7         40.5         38.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9         0.7         0.2         0.6           Bioenergy & waste         2.3         2.5         2.8         3.1         3.5           Total (6)         234.8         236.9         229.6         231.9         233.6           Percentage shares (energy supplied basis)           Coal         16.4         17.2         16.4         17.5         16.7           Petroleum         32.7         32.0         32.0         31.5         32.1           Natural gas         40.8         40.3         <	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3		Petroleum (2) " 69.9 69.1 67.0 66.5 68.3	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3 Petroleum (2) 69.9 69.1 67.0 66.5 68.3	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61 etroleum (2) * 69.9 69.1 67.0 66.5 68	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3  troleum (2) " 69.9 69.1 67.0 66.5 68.3
icity (4) " 85,063 90,093 87,848 88,686 electricity (4)(5) " 6,032 5,020 6,047 4,516 imports 14,174 10,399 8,414 2,160 s of oil equivalent  38.5 40.8 37.7 40.5 76.7 75.9 73.5 73.0 95.9 95.6 94.3 94.6 icity 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 vaste 23.4 23.5 23.8 3.1 234.8 236.9 229.6 231.9 ishares (energy supplied basis)  16.4 17.2 16.4 17.5 32.7 32.0 32.0 31.5 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 vaste 1.0 1.1 1.2 1.3 vaste 1.0 1.1 1.2 1.3 vaste 1.0 1.1 1.2 1.3 vaste 1.0 1.1 1.2 vast	063         90,093         87,848         88,686         79,999           032         5,020         6,047         4,516         6,783           174         10,399         8,414         2,160         7,490           18.5         40.8         37.7         40.5         39.1           16.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           1.2         3.0         3.1         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           21.7         32.0         32.0         31.5         32.1           20.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2         0.2	Nuclear electricity (4) " 85,063 90,093 87,848 88,866 79,999 Wind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490  Million tonnes of oil equivalent Coal (1) 38.5 40.8 37.7 40.5 39.1 Petroleum (2) 76.7 75.9 73.5 73.0 75.1 Natural gas (3) 95.9 95.6 94.3 94.6 96.6 Nuclear electricity 19,66 20.8 20.1 20.0 18.2 Wind & Hydro electricity (5) 0.5 0.4 0.5 0.4 0.6 Net electricity imports 1.2 0.9 0.7 0.2 0.6 Bioenergy & waste 2.3 2.5 2.8 3.1 3.5 Total (6) 234.8 230.9 229.6 231.9 233.6  Percentage shares (energy supplied basis)  Coal 16.4 17.2 16.4 17.5 16.7 Petroleum 32.7 32.0 32.0 31.5 32.1 Natural gas 40.8 40.3 41.1 Nuclear electricity 40.8 41.4 Nuclear electricity 40.8 8.8 8.8 8.8 6.6 7.8	Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3	retioled ii (2) 59.9 59.1 57.0 56.5 58.3		Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3	Unit Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61	original units of measurement  Unit  bal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3
city (4) " 85,063 90,093 87,848 88,686 electricity (4)(5) " 6,032 5,020 6,047 4,516 imports 14,174 10,399 8,414 2,160 s of oil equivalent  38.5 40.8 37.7 40.5 76.7 75.9 73.5 73.0 95.9 95.6 94.3 94.6 city 19.6 20.8 20.1 20.0 electricity (5) 0.5 0.4 0.5 0.4 imports 1.2 0.9 0.7 0.2 asate 23.3 2.5 2.8 3.1 234.8 236.9 229.6 231.9 shares (energy supplied basis)  16.4 17.2 16.4 17.5 16.4 17.5 40.8 40.8 40.3 41.1 40.8 icity 8.4 8.8 8.8 8.6 electricity 0.2 0.2 0.2 0.2 imports 0.5 0.4 0.3 0.1 asate 1.0 1.1 1.2 1.3 asate 1.0 1.1 1.2 1.3 asate 1.0 1.1 1.1 1.2 1.3 asate 1.0 1.1 1.2 1.3 asate 1.0 1.1 1.2 1.3 asate 1.0 1.1 1.2 1.3 asate 1.0 1.2 1.3 asate 1.0 1.2 1.2 1.3 asate 1.0 1.2 1.2 1.3 asate 1.0 1.2	3063         90,093         87,848         88,686         79,999           3032         5,020         6,047         4,516         6,783           174         10,399         8,414         2,160         7,490           88.5         40.8         37.7         40.5         39.1           16.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           1.2         0.9         2.7         0.2         0.6           1.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           217         32.0         32.0         31.5         32.1           10.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           10.5         0.4         0.3         0.1         0.3 <td>Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind &amp; Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,41         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38,5         40,8         37,7         40,5         39.1           Petroleum (2)         76,7         75,9         73,5         73,0         75.1           Natural gas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity         19,6         20,8         20,1         20,0         18,2           Wind &amp; Hydro electricity (5)         0.5         0,4         0.5         0,4         0,6           Net electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy &amp; waste         2,3         2,5         2,8         3,1         3,5           Total (6)         234,8         236,9         229,6         231,9         236,6           Percentage shares (energy supplied basis)         6         16,4         17,2&lt;</td> <td></td> <td>Potroloum /2) " 00.0 00.4 07.0 00.5 00.5</td> <td>Joal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3</td> <td></td> <td>Unit</td> <td>Unit</td> <td>original units of measurement Unit</td>	Nuclear electricity (4)         85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,41         2,160         7,490           Million tonnes of oil equivalent           Coal (1)         38,5         40,8         37,7         40,5         39.1           Petroleum (2)         76,7         75,9         73,5         73,0         75.1           Natural gas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity         19,6         20,8         20,1         20,0         18,2           Wind & Hydro electricity (5)         0.5         0,4         0.5         0,4         0,6           Net electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy & waste         2,3         2,5         2,8         3,1         3,5           Total (6)         234,8         236,9         229,6         231,9         236,6           Percentage shares (energy supplied basis)         6         16,4         17,2<		Potroloum /2) " 00.0 00.4 07.0 00.5 00.5	Joal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3		Unit	Unit	original units of measurement Unit
(a) GWh 1,114,942 1,111,363 1,097,031 1,100,616 (acity (4) * 85,063 90,093 87,848 88,686 (electricity (4)(5) * 6,032 5,020 6,047 4,516 (imports 14,174 10,399 8,414 2,160 (imports 76,7 75,9 73,5 73,0 (imports 76,7 76,9 76,7 76,9 73,5 73,0 (imports 76,7 76,9 76,7 76,9 73,5 73,0 (imports 76,7 76,9 76,7 76,9 76,7 76,9 76,7 76,9 76,0 76,0 76,0 76,0 76,0 76,0 76,0 76,0	942         1,111,363         1,097,031         1,100,616         1,123,922           963         90,093         87,848         88,686         79,999           302         5,020         6,047         4,516         6,783           174         10,399         8,414         2,160         7,490           18.5         40.8         37.7         40.5         39.1           16.7         75.9         73.5         73.0         75.1           15.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.6         1.2         0.9         0.7         0.2         0.6           1.2         0.9         0.7         0.2         0.6         1.2         3.3         3.5           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           217         32.0         32.0         31.5         32.1           40.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6 </td <td>Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,993         87,848         88,686         79,999           Wind &amp; Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         502         8,020         37,5         70,0         75,1           Coal (1)         38,5         40,8         37,7         40,5         91           Petroleum (2)         76,7         75,9         73,5         73,0         75,1           Natural gas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity imports         19,6         20,8         20,1         20,0         18,2           Wind &amp; Hydro electricity (5)         0,5         0,4         0,5         0,4         0,6           Net electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy &amp; waste         2,3         2,5         &lt;</td> <td></td> <td>Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3</td> <td></td> <td>Unit</td> <td></td> <td></td> <td>original units of measurement</td>	Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         *         85,063         90,993         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         *         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         502         8,020         37,5         70,0         75,1           Coal (1)         38,5         40,8         37,7         40,5         91           Petroleum (2)         76,7         75,9         73,5         73,0         75,1           Natural gas (3)         95,9         95,6         94,3         94,6         96,6           Nuclear electricity imports         19,6         20,8         20,1         20,0         18,2           Wind & Hydro electricity (5)         0,5         0,4         0,5         0,4         0,6           Net electricity imports         1,2         0,9         0,7         0,2         0,6           Bioenergy & waste         2,3         2,5         <		Coal (1) M.tonnes 59.7 63.5 58.8 63.5 61.3		Unit			original units of measurement
" 69.9 69.1 67.0 66.5 clty (4) " 85.063 90.093 87.848 88.686 electricity (4)(5) " 6,032 5,020 6,047 4,516 imports 14,174 10,399 8,414 2,160 s of oil equivalent 38.5 40.8 37.7 40.5 76.7 75.9 73.5 73.0 95.9 95.6 94.3 94.6 city (5) 0.5 0.4 6.2 2.3 2.5 2.8 3.1 20.0 electricity (5) 0.5 0.4 6.2 3.2 2.3 2.5 2.8 3.1 23.4 236.9 229.6 231.9 chares (energy supplied basis) 16.4 17.2 16.4 17.5 40.8 40.8 40.3 41.1 40.8 6.2 40.8 40.3 41.1 40.8 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	9.9         69.1         67.0         66.5         68.3           942         1,111,363         1,097,031         1,100,616         1,123,922           303         90,093         87,848         88,666         79,999           3174         10,399         8,414         2,160         7,490           18.5         40.8         37,7         40.5         39.1           6.7         75.9         73.5         73.0         75.1           55.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           0.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6         7.8           0.2         0.2         0.2         0.2	Petroleum (2)         "         69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)         "         85,063         90,093         87,848         88,868         79,999           Wind & Hydro electricity (4)(5)         "         6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Million tonnes of oil equivalent         5,020         40,8         37.7         40.5         39.1           Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Natural gas (3)         95.9         95.6         94.3         94.6         96.6           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Net electricity imports         1.2         0.9	Unit						original units of measurement
" 69.9 69.1 67.0 66.5 clty (4) " 85.063 90.093 87.848 88.686 electricity (4)(5) " 6,032 5,020 6,047 4,516 imports 14,174 10,399 8,414 2,160 s of oil equivalent 38.5 40.8 37.7 40.5 76.7 75.9 73.5 73.0 95.9 95.6 94.3 94.6 city (5) 0.5 0.4 6.2 2.3 2.5 2.8 3.1 20.0 electricity (5) 0.5 0.4 6.2 3.2 2.3 2.5 2.8 3.1 23.4 236.9 229.6 231.9 chares (energy supplied basis) 16.4 17.2 16.4 17.5 40.8 40.8 40.3 41.1 40.8 6.2 40.8 40.3 41.1 40.8 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	9.9         69.1         67.0         66.5         68.3           942         1,111,363         1,097,031         1,100,616         1,123,922           963         90,093         87,848         88,686         79,999           302         5,020         6,047         4,516         6,783           174         10,399         8,414         2,160         7,490           18.5         40.8         37.7         40.5         39.1           6.7         75.9         73.5         73.0         75.1           55.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           0.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6<	Petroleum (2) " 69.9 69.1 67.0 66.5 68.3 Natural gas (3) GWh 1,114,942 1,111,363 1,097,031 1,100,661 1,123,928 Wind & Hydro electricity (4) " 85,063 90,093 87,848 88,686 79,999 Wind & Hydro electricity (4)(5) " 6,032 5,020 6,047 4,516 6,783 Net electricity imports 14,174 10,399 8,414 2,160 7,490 Wind & Hydro electricity imports	Unit		Unit		r originar units or measurement	original units of measurement	
M.tonnes 59.7 63.5 58.8 63.5 66.5 66.5 69.9 69.1 67.0 66.5 66.5 66.5 69.9 69.1 67.0 66.5 66.5 66.5 66.5 66.5 66.5 66.5 66	9.9         69.1         67.0         66.5         68.3           942         1,111,363         1,097,031         1,100,616         1,123,922           303         90,093         87,848         88,686         79,999           302         5,020         6,047         4,516         6,783           174         10,399         8,414         2,160         7,490           88.5         40.8         37.7         40.5         39.1           6.7         75.9         73.5         73.0         75.1           55.9         95.6         94.3         94.6         96.6           9.6         20.8         20.1         20.0         18.2           0.5         0.4         0.5         0.4         0.6           1.2         0.9         0.7         0.2         0.6           4.8         236.9         229.6         231.9         233.6           6.4         17.2         16.4         17.5         16.7           12.7         32.0         32.0         31.5         32.1           0.8         40.3         41.1         40.8         41.4           8.4         8.8         8.8         8.6<	Coal (1)         M.tonnes         59.7         63.5         58.8         63.5         61.3           Petroleum (2)         " 69.9         69.1         67.0         66.5         68.3           Natural gas (3)         GWh         1,114,942         1,111,363         1,097,031         1,100,616         1,123,922           Nuclear electricity (4)(5)         " 85,063         90,093         87,848         88,686         79,999           Wind & Hydro electricity (4)(5)         " 6,032         5,020         6,047         4,516         6,783           Net electricity imports         14,174         10,399         8,414         2,160         7,490           Willion tonnes of oil equivalent         Coal (1)         38.5         40.8         37.7         40.5         39.1           Petroleum (2)         76.7         75.9         73.5         73.0         75.1           Nuclear electricity         19.6         20.8         20.1         20.0         18.2           Wind & Hydro electricity (5)         0.5         0.4         0.5         0.4         0.6           Nuclear electricity imports         1.2         0.9         0.7         0.2         0.6           Net electricity imports         1.2	Unit						

		2010	2011	2012	2013
In original units of meas	urement				
_	Unit				
Coal (1)	M.tonnes	50.8	50.5	64.1	61.0
Petroleum (2)		64.2r	61.9r	61.1r	60.0
Natural gas (3)	GWh	1,088,519r	902,924r	852,152r	845,222
Nuclear electricity (4)	"	62,140	68,980	70,405	70,608
Wind & Hydro electricity (4)	(5)	13,789r	21,400r	26,300r	35,173
Net electricity imports		2,663	6,222	11,871r	14,429
Million tonnes of oil equ	ivalent				
Coal (1)		32.7r	32.3r	41.0r	39.2
Petroleum (2)		70.2r	67.8r	66.9r	65.5
Natural gas (3)		93.6r	77.6r	73.3r	72.7
Nuclear electricity		13.9	15.6	15.2	15.4
Wind & Hydro electricity (5)	1	1.2	1.8	2.3r	3.0
Net electricity imports		0.2	0.5	1.0	1.2
Bioenergy & waste		6.9	7.2r	7.7r	8.8
Total (6)		218.7r	202.9r	207.2r	205.9
Percentage shares (ener	gy supplied basi	s)			
Coal		14.9	15.9r	19.8r	19.0
Petroleum		32.1r	33.4r	32.3r	31.8
Natural gas		42.8r	38.3	35.4	35.3
Nuclear electricity		6.4	7.7	7.3r	7.5
Wind & Hydro electricity		0.5	0.9	1.1	1.5
Net electricity imports		0.1	0.3	0.5	0.6
Bioenergy & waste		3.2	3.5r	3.7r	4.3
Fossil fuel dependency (7)		89.8r	87.6r	87.4r	86.2

<sup>(1)</sup> Includes other solid fuels.

<sup>(2)</sup> Excludes petroleum for non-energy use and marine bunkers.

<sup>(3)</sup> Includes colliery methane, non-energy use of natural gas up to 1988.

<sup>(4)</sup> Electricity generated i.e. including own use.

<sup>(5)</sup> Excludes pumped storage. Includes generation at wind stations from 1988.

<sup>(6)</sup> Following the introduction of the energy balance presentation it has been possible to separately identify the losses from the statistical difference for gas and electricity, bringing them onto the same basis as other fuels. This has been accounted for in the total from 1994 onwards.

<sup>(7)</sup> Fossil fuel share of energy consumption

### 1.1.2 Availability and consumption of primary fuels and equivalents (energy supplied basis) 1970 to 2013

Thousand tonnes of oil equivalent Available supply Production Imports Exports Primary Natural Natural Elec-Coal Petroleum gas electricity Coal Petroleum Total gas tricity Total Coal Petroleum Total (4) (1) (3) (5) (6) (5) (6) (7) 1970 92,792 166 7,388 110,807 81 131,142 132,109 2,620 19,762 22,381 10,461 839 48 1971 227 17.384 7.661 119,450 2.887 136.359 836 10 140.092 2.048 20.024 22.071 1972 76,484 358 25.084 8.163 110.089 3.408 138.253 771 40 142,472 1.433 21.160 22.593 1973 82,636 400 27,235 7,793 118,064 1,214 144,117 738 5 146,074 2,131 22,026 24,157 1974 68.630 438 32.847 9,322 111,237 2.317 136,472 612 5 139,407 2.149 17.283 19,432 1975 79.172 1,675 34.203 8.446 123,496 3,209 111.703 844 8 115,763 1.975 16,517 18.492 1976 36.221 9.951 2.010 108.818 967 111.796 21.671 23.177 75.988 13.114 135.274 1.506 1977 33,112 74.769 41.186 37.845 10.973 164.773 1.761 90.004 1.680 93,445 1.753 34.865 1978 75,479 58,184 36,241 10,308 180,212 1,736 85,815 4,758 92,309 2,164 41,289 43,460 1979 74,028 83,966 36,596 10,598 205,188 3,169 77,903 8,323 89,394 2,025 57,607 59,632 1980 78.502 210.450 5,030 9.995 61.705 86.911 34.790 10,247 60.385 75.411 3.320 58,385 1981 78.008 10.562 220.223 50.040 10.681 63.912 76.500 96.941 34.712 3.192 6.884 69.615 1982 76,069 112,519 35,281 12,274 236,143 3,360 49,944 9,885 63,189 5,693 80,595 86,288 1983 72.696 125.482 36,379 13,866 248.423 3,713 43,543 10,701 57,957 4,844 90,608 95.452 1984 30.719 137.646 35.563 14,845 218.773 7.980 59.146 12.606 79.731 1.668 101,289 102.957 1985 56,572 139,404 39,679 16,851 252,506 9,482 52,577 12,645 74,703 106,602 109,043 2,441 1986 65.592 139.084 41.717 15,839 262,232 7.794 57,610 11.784 366 77.553 2.615 112,166 114.796 1,000 73,746 1987 63.189 135,071 43.674 14.797 256,731 7.363 54.305 11,079 1.872 107,108 108.980 1988 16,990 63.303 125.469 42.059 248.469 9.270 58.254 9.922 1.103 78.550 1.595 97.266 98.861 60,882 100,373 41,188 18,150 221,320 8,840 64,153 9,784 83,941 1,738 74,434 76,249 1989 1,163 1990 56.443 100,104 45,480 16,706 219,446 10,271 69.217 6,866 1,031 87,385 1,880 80,408 82.293 1991 57.555 99.890 50.638 17.830 226.669 13.493 72.942 6,193 1,412 94.040 1,526 81.105 82.632 1992 226.547 74.025 94.686 85,245 86.155 51.514 103,734 51.494 18,924 13,955 5,268 1,438 854 1993 234.882 13.103 95.312 96.854 41.588 109.613 60.542 21.969 77.612 4.173 1.438 96.326 954 1994 29,704 138,937 21,670 256,559 10,840 68,680 114,083 116,003 64,636 2,843 1,452 83,815 1,098 1995 32.751 142,746 70.807 21,735 269,738 11,615 63.341 1,673 1,405 78,034 889 116,001 117,859 1996 281,559 31.135 142.079 84.180 22.393 13.141 64.347 1,703 1.444 80.635 896 114,909 117.115 1997 30,303 140,443 85,887 23,535 282,082 14,400 63,813 1,209 1,429 80,850 1,061 115,815 118,743 1998 25 757 145.263 90.186 23.950 287.233 15.371 64.696 910 1,083 82.061 931 118.896 122 556 1999 23,219 150,160 99,109 22,942 297,655 14,039 64,085 1,106 1,247 80,476 774 123,920 131,976 2000 19,551 138.282 108,397 20,153 288,690 16,079 74,812 2,238 1,230 94,359 813 123,923 137,330 2001 19,969 127,828 105,870 21,227 277,426 23,565 77,235 2,619 104,337 115,680 128,277 917 679 2002 18,808 127,037 103,646 20,619 272,864 18,995 78,348 5,201 790 103,334 667 120,758 134,451 2003 17.636 116.242 102,996 20,428 260,310 21,396 77.062 7,420 440 106,430 530 107,201 123,208 2004 15.594 104.547 96,411 18,746 238,378 24.182 88.394 11,439 841 125.258 572 103,621 114.202 2005 100.527 12.714 92.883 88.219 19.044 216.541 29.157 88.805 14.904 960 134.312 509 91.503 2006 17,889 197,246 94,233 20,983 86,280 97,446 11,418 83,958 80,012 33,363 884 150,013 462 2007 10.697 83.912 72.125 14,927 185,970 28.928 90,153 29,065 741 149.340 589 88.430 100.011 2008 29,249 91,784 84,312 95,576 11.305 78.580 69.681 12.965r 177.029r 35.012r 1.057 158.076r 607 11.039 16.479r 166.823r 25.100 84,315 77,476 90.248r 2009 74.739 59.732r 39.333r 568 150.624r 616r 2010 11,470 68,983 57,195r 15,111r 157,921r 17,810r 85,935 50,950r 157,238r 906r 74,565 91,213r 614 2011 11,580 56,902 45,289r 17,465r 136,770r 21,432r 88,239 50,600r 747 162,873r 725r 67,209 84,124r 2012 10.634 48.756 38,925r 17,467r 122,016r 29,209r 94,674r 47,250r 1,182r 174.040r 761r 66.684 80,295r 65,708

18.467

36.523

8.025

2013

32.715

95.583

46.011

1.508

177.984

530

76.182

114.366

44.468

<sup>(1)</sup> Crude oil plus all condensates and petroleum gases extracted at gas separation plants.

<sup>(2)</sup> Includes colliery methane.

<sup>(3)</sup> Nuclear and natural flow hydro electricty excluding generation of pumped storage stations. From 1988 includes generation at

<sup>(4)</sup> Includes solar and geothermal heat, solid renewable sources (wood, waste, etc), and gaseous renewable sources (landfill gas, sewage gas) from 1988.

<sup>(5)</sup> Includes other solid fuels.

<sup>(6)</sup> Crude and process oils and petroleum products.

<sup>(7)</sup> Includes exports of natural gas and electricity

# 1.1.2 Availability and consumption of primary fuels and equivalents (energy supplied basis) 1970 to 2013 (continued)

=							,			,	Thousan	d tonnes	of oil eq	uivalent
	Marine				Statistic	al		Gross						
<u> </u>	Bunkers	Stock o	hanges (8		Differen			inland	Non-	Inl	and consu			use
	Petro-	Cool	Petro- leum	Nat-	Cool	Petro-	Total	consum-	energy	Cool	Petro- leum	Natural	Primary electricity	Total
	leum	Coal <i>(5)</i>	(6)	ural gas	Coal <i>(5)</i>	leum (6)	Total (13)	ption <i>(14)</i>	use (10)	Coal <i>(5)</i>	(6)	(2)(11)	(3)(12)	(4)
-		(-)	(-)	3	(-)	(-/	(/	( · · ·/	(1.5)	(-/	(-)	(=/( · ·/	(=/( · =/	1.7
1970	+5,721	+8,542	-680		+199	+466	+665	223,341	10,859	98,994	92,366	11,300	7,435	210,095
1971	+5,874	-7,046	-3,489		-239	-652	-891	220,170	10,839	87,732	93,543	18,220	7,672	207,167
1972	+5,265	-1,370	+2,904		-242	-887	-1,129	225,109	11,474	76,847	100,212	25,855	8,203	211,117
1973	+5,769	+1,456	+458		+60	-340	-280	235,847	12,635	83,235	101,501	27,974	7,797	220,507
1974	+4,922	+4,839	-5,139		-360	-514	-874	225,116	12,865	73,278	94,327	33,460	9,326	210,391
1975	+3,572	-6,489	+3,660		-202	-395	-597	213,769	10,255	73,716	84,963	35,060	8,453	202,192
1976	+3,698	-1,597	-348		+121	-254	-133	218,116	10,925	75,016	83,480	37,188	9,951	205,635
	+2,942	+600	+2,466		-113	-557	-670	222,806	10,517	75,263	85,110	39,526	10,973	210,872
	+2,733	-1,368	-814		-363	-569	-932	223,214	10,245	73,321	87,177	40,999	10,301	211,798
1979	+2,789	+3,600	-2,229		+43	-806	-763	232,768	10,232	78,814	87,681	44,919	10,597	222,011
1000	. 2 500	6 700	. 40		474	1 507	4 700	242 440	7.404	72 000	76 407	44 705	10.047	204 402
	+2,562 +2,156	-6,789	+40		-171 +562	-1,567	-1,738 +408	213,118	7,464	73,263	76,197	44,785	10,247	204,492
	,	-2,013	+3,882		-118	-154		207,756	8,111 8,134	72,865	69,539 70,671	45,392 45,166	10,564 12,274	198,360
	+2,715 +2,118	-5,660 -3,209	+2,305 +1,010		+234	-2,315 -544	-2,433 -310	204,540 206,290	8,625	67,958 68,590	67,228	45,166 47,080	13,866	196,069 196,764
	+2,370	+11,842	+922		-136	+247	+111	206,052	8,847	48,738	84,651	48,168	14,845	196,402
	+2,239	+1,461	+297	-521	-249	-731	-980	216,184	9,230	64,824	72,179	51,803	16,851	205,657
	+2,212	-1,889	+338	-836	+1,126	-83	+1,043	221,432	10,247	70,008	71,148	52,665	16,189	210,010
	+1,756	+3,396	+338	-662	-355	-146	-501	222,311	10,290	71,721	69,431	54,090	15,796	211,038
	+1,932	-1,547	+1,272	-637	+189	-111	+78	225,392	10,970	69,621	74,042	51,352	18,083	213,098
	+2,525	-1,787	-628	-281	+817	+159	+976	224,767	12,039	67,014	75,399	49,113	19,236	211,433
1990	+2,666	+891	+1,049	+108	+1,229	+990	+2,219	226,139	11,252	66,954	77,159	51,187	17,733	213,687
1991	+2,618	-3,402	-851	-273	+947	+448	+1,395	232,330	12,184	67,067	77,137	55,362	19,240	219,505
1992	+2,688	-2,439	+709	-348	+884	-647	+237	230,549	12,890	63,060	77,492	55,080	20,359	216,815
1993	+2,618	+766	-631	+84	+411	+1,597	+2,008	233,964	13,012	54,913	78,126	62,948	23,406	220,564
	+2,451	+11,055	+454	+233	+772	-1,668	-87	231,956	13,521	51,272	76,668	64,857	23,087	217,491
	+2,602	+5,088	+1,122	+820	+820	-426	+1,752	232,458	13,735	48,924	75,421	69,236	23,116	218,421
	+2,813	+2,521	-315	-236	+165	-1,814	+701	243,535	13,547	45,738	77,819	80,984	23,833	229,988
	+3,121	-2,389	+320	-354	+462	-1,784	-1,048	239,694	12,879	40,792	75,483	83,534	24,960	226,814
	+3,257	+773	-741	-32	+39	-692	-38	243,480	12,737	40,970	75,357	87,316	25,023	230,743
1999	+2,471	-491	+428	+670	-669	+1,190	+715	244,291	12,963	35,993	76,433	92,511	24,166	231,328
2000	+2,208	+3,723	+807	-952	-234	+783	+920	247,090	12,283	38,541	76,720	95,868	21,372	234,807
	+2,433	-2,077	-1,333	-57	-196	+486	+569	247,586	10,732	40,778	75,863	95,560	22,121	236,855
	+2,044	+564	+1,514	-633	+154	-490	-99	241,149	11,544	37,699	73,480	94,328	21,342	229,605
	+1,879	+1,979	+217	+304	-146	-451	-273	244,152	12,285	40,482	73,017	94,636	20,614	231,867
	+2,221	-139	-476	-536	-51	-227	-6	246,062	12,429	39,065	75,056	96,640	19,390	233,633
	+2,180	-1,503	+1,677	+114	+17	+344	+390	248,435	12,145	39,859	78,217	94,286	19,760	236,290
	+2,486	-961	-1,325	-553	-156	-12	-146	244,488	11,415	43,358	77,365	89,392	18,536	233,073
2007	+2,513	+1,926	+2,038	+471	-1	-202	-221	237,221	9,729	40,961	76,310	90,192		227,492
2008	3,663r	-1,787	+313	-265	+144	88r	301r	234,127r	9,383r	38,160	74,024r	93,174r	13,913r	224,744r
2009	3,485r	-4,195	+959	-419	-50r	-44r	-443r	220,059r	8,840r	31,196r	70,936r	86,266r		211,220r
2010	2,956r	4,432r		+1,313	648r	-27r	624r	227,340r		32,661r		93,596r		218,684r
2011	3,287r	+149	+877	-1,945	29r	-374r	-491r	211,313r		32,295r		77,638r		202,937r
2012	2,812r	2,023r	-386	-23	276r	-262r	-268r	214,563r		40,972r		73,272r		207,238r
	+2,691	-876 ), stock rise	+875	+53	-114	-235	-384	213,530	7,609	39,193	65,541	72,676	19,707	205,920

<sup>(8)</sup> Stock fall (+), stock rise (-).

<sup>(9)</sup> Recorded demand minus supply.

<sup>(10)</sup> Petroleum products for feedstock for petrochemical plants, industrial and white spirits, lubricants bitumen and wax. Also includes miscellaneous petroleum products mainly for inland consumption but excludes small quantities derived from coal. From 1989 also includes estimated quantities of natural gas used for non-energy purposes. Data for non-energy use of natural gas can be found in Chapter 1, Tables 1.1 to 1.3 and Chapter 4, Tables 4.1 and 4.2.

<sup>(11)</sup> Includes non-energy use of natural gas up to 1988. (See footnote 10).

<sup>(12)</sup> Includes net imports of electricity.

<sup>(13)</sup> As of 1994 this total includes the statistical differences for electricity and natural gas.

<sup>(14)</sup> Equivalent to primary demand as in Chapter 1, Tables 1.1 to 1.3.

# 1.1.3 Comparison of net imports of fuel with total consumption of primary fuels and equivalents, 1970 to 2013

			Gross inland consumption	
t ratio (3)	Import dependency (2) Expo	exports (-) of fuels	of primary fuels (1)	
			plus marine bunkers	
(D)	(C)	(B)	(A)	
	Per cent		Million tonnes of oil	_
_	47.9	109.7	229.1	1970
-	52.2	118.0	226.0	1971
_	52.0	119.9	230.4	1972
-	50.5	121.9	241.6	1973
_	52.2	120.0	230.0	1974
_	44.8	97.3	217.3	1975
_	40.0	88.6	221.8	1976
_	25.9	58.6	225.7	1977
_	21.6	48.8	225.9	1978
_	12.6	29.8	235.6	1979
	12.0	23.0	200.0	1373
-	6.4	13.7	215.7	1980
6.0	-	-12.6	209.9	1981
11.1	-	-23.1	207.3	1982
18.0	-	-37.5	208.4	1983
11.1	-	-23.2	208.4	1984
15.7	-	-34.3	218.4	1985
16.7	-	-37.2	223.6	1986
15.7	-	-35.2	224.1	1987
8.9	-	-20.3	227.3	1988
-	3.4	7.7	227.3	1989
_	2.2	5.1	228.8	1990
-	4.9	11.4	234.9	1991
-	3.7	8.5	233.2	1992
0.2	-	-0.5	236.6	1993
13.7	-	-32.2	234.4	1994
16.9	-	-39.8	235.1	1995
14.8	-	-36.5	246.3	1996
15.6	-	-37.9	242.8	1997
16.4	-	-40.5	246.7	1998
20.9	-	-51.5	246.8	1999
17.2	_	-43.0	249.3	2000
9.6	<del>-</del>	-23.9	250.0	2000
12.8	- -	-31.1	243.2	2001
6.8	-	-31.1 -16.8	246.0	2002
0.0	4.5	11.1		2003
-			248.3	
-	13.5	33.8	250.6	2005
-	21.3	52.6	247.0	2006
-	20.6	49.3	239.7	2007
-	26.3	62.5	237.8r	2008
-	27.0	60.4r	223.5	2009
_	28.7r	66.0r	230.3r	2010
-	36.7r	78.7r	214.6r	2011
-	43.1r	93.7r	217.4r	2012
	47.1	101.8	216.2	2013

<sup>(1)</sup> Includes non-energy use. Equivalent to primary supply plus marine bunkers.

(3) Export ratio (D) =  $\frac{(A)}{Net \ exports \ (B) \ x \ 100}$ 

<sup>(2)</sup> Import dependency (C) =  $\frac{\text{Net imports (B)} \times 100}{\text{Net imports (B)}}$ 

# 1.1.4 Primary energy consumption, gross domestic product and the energy ratio<sup>(1)</sup> 1970 to 2013

		Gross domestic product at	Total inland consumption of primary	
	Energy ratio (3)	market prices (2010 prices)	energy (temperature corrected) (2)	-
Index	Tonnes of oil equivalent per		Million tonnes of	
1970 = 100	£1 million GDP	£ billion	oil equivalent	
	(C)	(B)	(A)	-
100.0	377.6	561.2	211.9	1970
96.7	365.2	574.3	209.7	1971
94.4	356.4	596.5	212.6	1972
92.2	348.1	640.9	223.1	1973
88.8	335.2	633.7	212.4	1974
86.5	326.8	630.5	206.0	1975
85.6	323.1	646.6	208.9	1976
85.2	321.8	662.3	213.1	1977
82.7	312.4	684.0	213.7	1978
82.8	312.8	703.4	220.0	1979
79.2	299.1	689.3	206.2	1980
77.3	291.9	680.7	198.7	1981
74.7	282.1	695.9	196.3	1982
72.4	273.3	722.6	197.5	1983
70.0	264.4	743.9	196.7	1984
69.6	262.9	772.7	203.1	1985
68.0	256.6	805.9	206.8	1986
65.6	247.8	847.5	210.0	1987
64.4	243.3	894.7	217.7	1988
62.8	237.3	917.9	217.8	1989
62.8	237.1	934.6	221.6	1990
63.6	240.0	922.5	221.4	1991
62.5	236.1	934.5	220.6	1992
60.9	230.1	967.1	222.5	1993
57.8	218.2	1,015.0	221.5	1994
56.3	212.8	1,050.8	223.6	1995
55.3	208.8	1,087.5	227.1	1996
53.5	202.0	1,134.8	229.2	1997
53.4	201.5	1,175.3	236.8	1998
52.1	196.7	1,209.9	238.0	1999
50.3	189.8	1,262.6	239.6	2000
49.4	186.4	1,290.2	240.5	2001
47.3	178.7	1,319.8	235.9	2002
45.4	171.3	1,371.9	235.0	2003
44.6	168.3	1,415.5	238.2	2004
43.6	164.5	1,461.3	240.4	2005
41.6	157.1	1,501.5	236.0	2006
39.8	150.3	1,553.0	233.4	2007
38.8	146.6r	1,541.0	226.0r	2008
38.5	145.4r	1,461.4	212.4r	2009
37.9	143.2r	1,485.6	212.7r	2010
36.8	138.8r	1,502.2	208.5r	2011
36.4	137.5r	1,506.4r	207.2r	2012
35.1	132.6	1,532.7	203.2	2013

<sup>(1)</sup> See paragraphs 1.1.13 to 1.1.17.

(B)

<sup>(2)</sup> The methodology used to temperature correct gas consumption has been modified from 1990. See paragraph 1.1.15 onwards.

<sup>(3)</sup> Energy ratio (C) = (A)

=						(0.)		THOU	sand tonne	s or on equ	iivaieiii
					Indust	<b>ry</b> (2)					
	Coal	Coke and breeze (3)	Other solid fuels (4)	Coke oven	Town gas	Natural gas (5)	Electricity	Heat sold	Bioenergy & waste	Petroleum	Total (3)
				_							
1970	12,681	9,655	209	1,164	1,778	1,788	6,275			28,397	62,333
1971	10,232	8,298	176	1,118	1,038	5,194	6,313			28,130	60,746
1972	7,675	7,832	252	1,111	1,154	8,136	6,292			28,674	61,307
1973	7,950	8,340	226	1,290	788	10,791	6,884			28,691	65,149
1974	7,290	7,167	201	975	494	12,320	6,517			24,968	60,058
1975	6,373	6,338	199	1,038	222	12,555	6,479			22,145	55,444
1976 1977	5,902 5,947	7,129	131 158	1,091 1,010	68 30	14,237 14,940	6,950 7,053			21,966 21,978	57,584 57,574
1977	5,627	6,368 5,932	179	899	30 15	15,149	7,053 7,222			21,976	56,673
	6,081	6,512	148	977	18	15,149	7,527			21,570	
1979	6,061	0,312	140	977	10	15,003	1,521			21,590	58,564
1980	5,083	3,335	133	642	13	15,258	6,854			16,938	48,291
1981	4,534	4,564	116	665	13	14,489	6,622			14,761	45,776
1982	4,668	4,083	144	605	8	14,588	6,353			13,530	44,007
1983	4,708	4,307	126	635	5	14,021	6,376			11,988	42,191
1984	3,796	4,408	68	537	5	14,686	6,758			10,859	41,138
1985	4,708	4,655	151	768	3	14,865	6,837			9,701	41,702
1986(11)	5,242	4,144	98	778	3	13,542	6,884			10,240	40,931
1987	4,048	4,660	80	821	3	14,137	8,005			8,456	40,211
1988	4,166	5,041	55	771	-	12,883	8,350		100	9,441	40,807
1989	4,489	4,286	30	613	-	12,515	8,550		102	8,820	39,405
1990	4,172	3,951	42	602	_	12,889	8,655		107	8,242	38,660
1991	4,270	3,691	14	570	_	12,311	8,563		109	8,729	38,257
1992	4,375	3,601	14	534	_	11,380	8,194		279	8,334	36,711
1993	3,553	3,613	7	560	-	11,521	8,328		266	8,592	36,440
1994	3,402	3,818	194	590	-	12,885	8,082		487	8,253	37,711
1995	2,840	3,750	184	576	-	12,680	8,654		526	7,066	36,276
1996	1,959	855	233	439	-	14,081	9,004		533	7,058	34,470
1997	1,963	787	249	457	-	14,754	9,189		532	6,315	34,577
1998	1,607	803	243	385	-	15,140	9,216		461	6,379	34,512
1999	1,353	820	215	205	-	15,203	9,542	1,086	283	5,374	34,222
2000	1,228	753	225	216	-	15,773	9,812	1,099	264	6,039	35,506
2001	1,195	719	210	154	-	15,464	9,573	1,001	243	6,611	35,443
2002	1,186	610	170	78	-	14,202	9,473	1,321	250	6,248	33,764
2003	1,248	589	166	53	-	14,292	9,396	1,128	267	6,899	34,074
2004	1,235	559	180	67	-	13,238	9,584	832	265	6,918	32,912
2005	1,180	535	171	79		13,022	9,976	831	201	6,282	32,303
2006	1,164	488	178	106		12,428	9,879	809	213	6,099	31,442
2007	1,268	513	177	101		11,466	9,699	896	276	6,095	30,540
2008	1,296	443	174	92	-	9,863r	9,815	1,021	414	5,895r	29,053r
2009	1,152	387	20r	49	-	7,847r	8,576	763	415	5,152r	24,389r
2010	1,323r	339	17r	97	_	8,506r	8,987	822	449	5,482r	26,109r
2011	1,194r	306	17r	59r	_	8,127r		769	505	4,500r	24,344r
2012	1,1341 1,212r	342r	17r	43r	_	7,870r	8,410r	766r	458r	4,529r	23,674r
2012	1,441	505	15	62	-	8,023	8,427	847	550	4,351	24,231
2010	ודד,ו	500	13	02		0,023	0,727	ודט	550	7,001	27,201

<sup>(1)</sup> Excluding non-energy use of fuels.

<sup>(2)</sup> Includes the iron and steel industry, but from 1994 onwards excludes iron and steel use of fuels for transformation and energy industry own use purposes.

<sup>(3)</sup> Blast furnace gas is included in coke and breeze up to 1995 and covers electricity transformation, use by ovens and losses. From 1996 onwards, blast furnace gas is included in the total and covers just coke ovens and losses, which is consistent with the methodology used for compiling the energy balances.

<sup>(4)</sup> Includes, from 1994, manufactured liquid fuels.

<sup>(5)</sup> Includes colliery methane. Up to 1988 also includes non-energy use of natural gas.

				Tra	nsport							
			Rail		Road				V	Vater	Air	
-					-			Coal				
		Coke	Electricity				Bioenergy	derived				Total
	Coal	and breeze	(6)	Petroleum	Electricity	Petroleum	& waste	fuel	Coal P	etroleum	Petroleum	(7)
1970	88	35	234	1,254	3	21,406		15	88	1,184	3,869	28,174
1971	68	13	237	1,186	-	22,412		-	63	1,081	4,247	29,306
1972	53	5	229	1,121	-	23,535		-	23	962	4,514	30,442
1973	58	-	224	1,123	-	25,125		-	10	1,088	4,806	32,435
1974	50	-	234	1,048	-	24,465		-	10	1,239	4,219	31,266
1975	40	-	249	1,000	-	23,948		-	8	1,300	4,340	30,885
1976	43	3	247	945	-	24,994		-	8	1,317	4,476	32,032
1977	40	3	252	950	-	25,633		-	8	1,312	4,678	32,875
1978	45	3	254	967	-	26,946		-	5	1,300	5,051	34,571
1979	43	3	254	947	-	27,520		-	5	1,363	5,224	35,359
1980	38	3	262	919	-	27,815		-	5	1,257	5,242	35,541
1981	38	-	259	877	-	27,009		-	-	1,101	5,020	34,304
1982	35	-	229	793	-	27,797		-	3	1,186	4,993	35,037
1983	15	-	247	849	-	28,646		-	3	1,207	5,093	36,059
1984	3	-	247	816	-	30,006		-	-	1,328	5,383	37,782
1985	3	-	254	821	-	30,586		-	-	1,254	5,582	38,500
1986(11)	3	-	259	809	-	32,606		-	-	1,151	6,126	40,954
1987	3	_	264	761	_	34,062		_	-	1,103	6,479	42,672
1988	-	-	282	766	-	36,233		-	-	1,159	6,905	45,345
1989	3	-	272	702	-	37,801		-	-	1,355	7,308	47,442
1990	2	_	455	668	_	38,816		_	-	1,363	7,332	48,635
1991	-	-	454	685	-	38,535		-	-	1,424	6,872	47,973
1992	-	-	461	715	-	39,363		-	-	1,377	7,435	49,355
1993	-	-	641	665	-	39,502		-	-	1,341	7,871	50,024
1994	-	-	599	651	-	39,690		-	-	1,239	8,070	50,253
1995	-	-	636	654	-	39,268		-	-	1,193	8,485	50,238
1996	-	-	710	629	-	40,772		-	-	1,294	8,917	52,321
1997	-	-	729	516	-	41,259		-	-	1,256	9,322	53,083
1998	-	-	732	608	-	41,020		-	-	1,175	10,237	53,772
1999	-	-	738	632	-	41,399		-	-	1,067	11,017	54,853
2000	-	-	741	639	-	41,071		-	-	1,032	11,978	55,461
2001	-	-	759	664	-	41,097		-	-	844	11,774	55,137
2002	-	-	727	662	-	41,936		-	-	702	11,658	55,685
2003	-	-	706	667	-	41,823		-	-	1,234	11,936	56,366
2004	-	-	347	700	2	42,221		-	-	1,196	12,908	57,374
2005	3		347	634	2	42,507	74			1,370	13,856	58,793
2006	14		342	632	2	42,513	188			1,812	13,999	59,501
2007	14		339	646	2	42,884	362			1,618	13,906	59,771
2008	14	_	337	658	2	41,098	845	_	_	1,014r	13,426	57,392r
2009	13	-	346	656	2	39,635	1,038	-	-	951r	12,751	55,393r
2010	14	_	349	660	2	39,159	1,217	-	-	948r	12,288	54,636r
2011	11	_	349	692	2	38,646	1,128	_	_	894r	12,802	54,524r
2012	12	_	350r	698r	2	38,508	958	_	_	833r	12,408	53,769r
2012	10	_	350	700	3	38,177	1,091	_	_	828	12,400	53,418
2010	10		330	700	<u> </u>	30,177	1,031			020	12,200	JJ, <del>4</del> 10

<sup>(6)</sup> Includes, from 1990, electricity used at transport premises (see footnote 11).

<sup>(7)</sup> Includes small amounts of natural gas for road transport.

				Dom	estic				quivalent
			0.1						
		Coke	Other solid	Natural		Heat	Diognoray		Total
	Coal	and breeze	fuels	gas <i>(8)</i>	Electricity	sold	Bioenergy & waste	Petroleum	(4)
•	Cour	510020	14010	(0)	Licotricity	0010	a wadio	1 Otroloum	(1)
1970	14,242	1,761	1,975	8,922	6,622			3,363	36,884
1971	12,164	1,136	2,156	9,900	6,937			3,328	35,621
1972	10,602	849	2,144	11,359	7,471			3,836	36,261
1973	10,565	778	2,053	12,129	7,849			4,202	37,576
1974	9,968	821	1,955	13,562	7,963			3,733	38,002
1975	8,517	645	1,778	14,840	7,670			3,612	37,062
1976	7,910	549	1,640	15,602	7,318			3,615	36,634
1977	8,136	534	1,589	16,600	7,386			3,653	37,898
1978	7,476	471	1,464	18,291	7,378			3,610	38,689
1979	7,688	479	1,431	20,718	7,711			3,539	41,566
1980	6,575	401	1,370	21,258	7,403			2,834	39,841
1981	6,214	368	1,202	22,076	7,260			2,554	39,674
1982	6,242	365	1,146	21,963	7,116			2,385	39,218
1983	5,796	335	1,141	22,346	7,129			2,267	39,014
1984	4,733	335	728	22,502	7,212			2,385	37,896
1985	6,290	385	957	24,394	7,582			2,454	42,062
1986(11)	6,121	335	965	25,797	7,892			2,590	43,700
1987	5,189	315	1,018	26,450	8,015			2,474	43,460
1988	4,741	300	907	25,833	7,940		205	2,441	42,367
1989	3,719	239	815	24,988	7,935		207	2,355	40,258
4000	0.450	054	700	05.005	0.000		000	0.400	40.750
1990	3,153	254	762	25,835	8,066	••	206	2,480	40,756
1991 1992	3,582 3,105	210 176	785 709	28,721	8,436 8,555	••	209 243	2,825 2,889	44,768 44,066
1992	3,498	147	709 751	28,389 29,254	8,639		243 241	2,009 3,019	44,066 45,549
1994	2,957	67	601	28,355	8,721		241	3,004	43,947
1995	2,937	78	470	28,037	8,790		242	2,997	42,691
1996	2,084	129	588	32,317	9,244		241	3,518	48,120
1997	1,992	59	419	29,710	8,982		225	3,389	44,775
1998	1,819	85	439	30,601	9,408		230	3,543	46,126
1999	1,916	86	410	30,788	9,485	 44	230	3,162	46,121
				•					
2000	1,448	95	365	31,806	9,617	44	236	3,239	46,851
2001	1,461	48	328	32,625	9,917	32	240	3,527	48,178
2002	1,009	127	289	32,362	10,319	33	243	3,087	47,471
2003	813	92	255	33,232	10,576	11	247	3,068	48,293
2004	733	36	230	34,085	10,679	52	252	3,265	49,333
2005	474	24	199	32,836	10,809	52	318	3,094	47,805
2006	426	16	200	31,550	10,723	52	358	3,251	46,575
2007	487	11	182	30,341	10,583	52	400	2,877	44,932
2008	515	9	229	30,916	10,301	52	392r	3,033	45,448r
2009	514	7	192r	29,622r	10,193	52	460r	3,013	44,053r
2010	548r	7	221r	33,499	10,218	52	598r	3,428	48,572r
2011	540	6	192r	25,228	9,596	52	580r	2,669	38,862r
2012	506r	5	180r	29,672r	9,868r	52	732r	2,705	43,720r
2013	492	4	216	29,622	9,755	52	884	2,769	43,794

<sup>(8)</sup> Includes town gas prior to 1989. (Separate figures maybe found in previous editions of this Digest).

				Other final users	(9)			
		Coke	Natural					
		and	gas		Heat	Bioenergy		Total
	Coal	breeze	(8)	Electricity	sold	& waste	Petroleum	(4)
1970	2,723	1,499	1,919	3,408			9,038	18,586
1971	2,328	688	2,181	3,534			9,184	17,915
1972	2,013	537	2,509	3,650			9,487	18,195
1973	1,731	602	2,728	3,940			9,585	18,586
1974	1,685	567	3,197	3,642			8,401	17,492
1975	1,234	408	3,393	3,894			8,431	17,360
1976	1,300	335	3,831	4,023			8,668	18,157
1977	1,370	315	3,998	4,257			9,157	19,097
1978	1,300	275	4,393	4,481			8,764	19,213
1979	1,307	285	4,955	4,731			8,754	20,031
1980	1,154	237	5,194	4,733			7,403	18,721
1981	1,174	204	5,315	4,804			7,096	18,592
1982	1,222	212	5,486	4,867			6,678	18,464
1983	1,166	257	5,915	5,106			6,403	18,847
1984	1,141	252	6,101	5,063			6,381	18,938
1985	1,123	297	6,718	5,446			6,018	19,603
1986 <i>(11)</i>	982	390	7,308	5,731			5,723	20,135
1987	935	368	7,534	5,965			4,988	19,790
1988	831	264	7,569	6,240		138	5,008	20,050
1989	698	119	7,278	6,497		138	4,345	19,075
1990	795	127	7,329	6,426		139	4,402	19,218
1991	753	105	8,640	6,717		149	4,456	20,820
1992	622	88	8,585	6,996		150	4,518	20,959
1993	566	74	8,504	6,999		146	4,446	20,735
1994	496	34	8,695	6,951		172	4,289	20,637
1995	362	39	9,374	7,199		189	4,016	21,179
1996	385	-	10,138	7,495		181	3,909	22,108
1997	375	-	9,697	7,859		174	3,362	21,467
1998	291	-	10,114	7,788		174	3,144	21,511
1999	189	-	9,156	7,986	1,368	174	2,464	21,338
2000	57	-	9,498	8,155	1,371	172	2,294	21,547
2001	47	-	9,726	8,359	1,294	173	2,568	22,167
2002	14	-	8,670	8,148	730	188	1,805	19,556
2003	17	-	9,177	8,231	648	196	1,145	19,414
2004	19	-	9,757	8,532	373	198	1,438	20,317
2005	38		9,526	8,846	386	205	1,773	20,774
2006	24		8,655	8,738	384	192	1,530	19,523
2007	19		8,154	8,755	390	198	1,501	19,016
2008	21	-	11,017r	8,936	393	228r	1,411	22,006r
2009	53	-	9,243r	8,549	392	226r	1,251	19,713r
2010	28	-	9,967r	8,718	392	306r	1,258	20,668r
2011	28	-	9,561r	8,585	385	269r	1,360	20,188r
2012	17	-	9,707r	8,698r	408r	276r	1,270r	20,376r
2013	24	_	10,297	8,747	393	342	1,214	21,017

<sup>(9)</sup> Mainly agriculture, public administration and commerce. Prior to 1990, including electricity used at transport premises (see footnote 6).

					All fir	nal users					-
			045			Nistrasi					
		Coke and	Other solid fuels	Coke	Town	Natural	Electri-	Heat	Bioenergy		Total
	Coal	breeze	(4)	oven gas	gas	gas <i>(4)</i>	city	sold	& waste	Petroleum	(3)(10)
-	Coai	DIEGZE	(7)	oven gas	yas	(7)	City	30IU	& waste	i ettoleum	(3)(10)
1970	29,822	12,950	2,184	1,164	10,746	3,662	16,542			68,511	145,977
1971	24,855	10,134	2,333	1,118	8,882	9,431	17,021			69,568	143,589
1972	20,366	9,222	2,396	1,111	8,094	15,063	17,643			72,129	146,205
1973	20,313	9,721	2,280	1,290	5,852	20,584	18,898			74,620	153,744
1974	19,003	8,555	2,156	975	3,836	25,736	18,356			68,072	146,818
1975	16,172	7,391	1,977	1,038	1,796	29,212	18,293			64,776	140,751
1976	15,162	8,016	1,771	1,091	534	33,204	18,537			65,981	144,407
1977	15,502	7,220	1,748	1,010	174	35,393	18,948			67,361	147,444
1978	14,454	6,681	1,642	899	81	37,766	19,336			68,208	149,146
1979	15,124	7,279	1,579	977	91	42,262	20,223			68,937	155,521
1980	12,854	3,975	1,504	642	76	41,647	19,252			62,408	142,394
1981	11,960	5,136	1,317	665	65	41,828	18,945			58,420	138,346
1982	12,169	4,660	1,290	605	55	41,990	18,567			57,360	136,726
1983	11,688	4,899	1,267	635	45	42,242	18,856			56,453	136,111
1984	9,673	4,995	796	537	43	43,251	19,280			57,158	135,753
1985	12,124	5,338	1,108	768	40	45,940	20,118			56,416	141,867
1986 <i>(11)</i>	12,348	4,869	1,063	778	28	46,622	20,763			59,245	145,719
1987	10,174	5,343	1,098	821	28	48,096	22,252			58,325	146,132
1988	9,738	5,605	962	771	8	46,277	22,811		443	61,952	148,569
1989	8,909	4,645	845	613	-	44,780	23,254		447	62,685	146,180
1990	8,122	4,333	804	602	-	46,052	23,601		451	63,302	147,268
1991	8,605	4,006	799	570	-	49,676	24,170		467	63,525	151,818
1992	8,101	3,866	723	534	-	48,357	24,206		672	64,632	151,091
1993	7,617	3,833	758	560	-	49,282	24,607		652	65,437	152,747
1994	6,855	3,919	795	590	-	49,935	24,353		901	65,196	152,548
1995	5,279	3,867	654	576	-	50,091	25,279		956	63,679	150,384
1996	4,429	984	821	439	-	56,536	26,453		954	66,096	157,019
1997	4,331	846	667	457	-	54,162	26,759		930	65,418	153,902
1998	3,716	889	682	385	-	55,856	27,143		865	66,107	155,921
1999	3,458	906	625	205	-	55,148	27,751	2,498	688	65,116	156,534
2000	2,733	848	590	216	-	57,077	28,325	2,515	672	66,293	159,365
2001	2,704	766	539	154	-	57,814	28,609	2,327	656	67,084	160,926
2002	2,209	737	459	78	-	55,234	28,667	2,084	682	66,099	156,476
2003	2,078	680	420	53	-	56,701	28,910	1,787	710	66,772	158,147
2004	1,988	595	411	67	-	57,080	29,144	1,258	715	68,647	159,936
2005	1,695	559	370	79		55,384	29,981	1,268	798	69,516	159,676
2006	1,627	504	378	106		52,633	29,684	1,245	952	69,836	157,042
2007	1,788	524	359	101		49,961	29,377	1,338	1,235	69,528	154,259
2008	1,845	452	403	92	-	51,796r	29,391	1,465	1,879r	66,535r	153,899r
2009	1,733	395	212r	49	-	46,712r	27,665	1,206	2,139r	63,409r	143,548r
2010	1,912r	346	238r	97	-	51,972r	28,274	1,266	2,569r	63,223r	149,985r
2011	1,772r	312	209r	59	-	42,916r	27,333r	1,206	2,482r	61,563r	137,918r
2012	1,747r			43r	-	47,248r	27,329r	1,226r	2,424r	60,952r	141,539r
2013	1,967	509	231	62	-	47,941	27,283	1,292	2,868	60,297	142,460

<sup>(10)</sup> Before 1971 includes the use for transport of liquid fuel made from coal.

<sup>(11)</sup> See paragraph 1.1.19 about changed treatment of electricity produced, and fuel used by, companies other than major power producers.

£million

	Industry						Domestic					
	Coal and				Heat and		Coal and				Heat and	
	solid	Natural		Petroleum	other	Total	solid	Natural		Petroleum	other	Total
	fuels (3)	gas (4)	Electricity	products (5)	fuels (6)		fuels (3)	gas (4)	Electricity	products (5)	fuels (6)	
1970	285	70	475	300		1,130	395	385	645	85		1,510
1971	285	85	530	350		1,250	385	430	730	90		1,635
1972	280	120	540	345		1,285	360	505	830	110		1,805
1973	320	150	595	390		1,455	370	535	885	140		1,930
1974	410	195	775	880		2,260	405	605	1,070	200		2,280
1975	545	240	1,015	920		2,720	440	760	1,495	235		2,930
1976	720	380	1,260	1,065		3,425	500	1,000	1,825	295		3,620
1977	780	535	1,470	1,305		4,090	595	1,205	2,135	360		4,295
1978	800	695	1,670	1,255		4,420	620	1,365	2,380	370		4,735
1979	1,010	820	1,925	1,570		5,325	770	1,575	2,675	475		5,495
1980	675	1,060	2,185	1,815		5,735	920	1,875	3,310	510		6,615
1981	850	1,215	2,420	1,890		6,375	960	2,460	3,905	560		7,885
1982	860	1,335	2,560	1,870		6,625	995	3,070	4,200	610		8,875
1983	900	1,375	2,655	1,800		6,730	1,015	3,520	4,300	645		9,480
1984	845	1,555	2,695	1,810		6,905	830	3,655	4,495	640		9,620
1985	990	1,735	2,750	1,740		7,215	1,120	4,090	4,840	665		10,715
1986	1,000	1,350	2,765	1,065		6,180	1,135	4,385	5,105	460		11,085
1987	865	1,375	3,285	865		6,390	990	4,465	5,140	410		11,005
1988	880	1,225	3,590	785		6,480	830	4,385	5,340	365		10,920
1989	905	1,210	3,965	845		6,925	730	4,455	5,800	390		11,375
1990	930	1,260	3,985	900		7,075	700	4,865	6,255	485		12,305
1991	910	1,115	4,120	905		7,050	795	5,775	7,105	460		14,135
1992	775	970	4,180	790		6,715	710	5,685	7,460	460		14,315
1993	740	915	3,940	895		6,490	780	5,705	7,590	465		14,540
1994	650	1,010	3,855	865		6,380	685	6,020	7,870	455		15,030
1995	605	1,015	3,970	830		6,420	615	6,010	8,060	470		15,155
1996	590	755	3,900	965		6,210	640	6,510	8,380	630		16,165
1997	565	870	3,625	890		5,950	560	6,125	7,965	560		15,210
1998	545	990	3,535	715	40	5,825	525	6,015	7,595	465	30	14,630
1999	430	970	3,730	735	215	6,080	540	5,610	7,600	465	40	14,255
2000	430	1,115	3,435	1,145	205	6,330	465	5,485	7,475	735	40	14,200
2001	445	1,470	3,145	1,235	190	6,485	535	5,735	7,540	715	35	14,560
2002	365	1,280	2,995	1,065	265	5,970	465	6,090	7,510	645	35	14,745
2003	380	1,345	2,925	1,240	220	6,110	320	6,260	7,660	730	30	15,000
2004	525	1,480	3,255	1,485	90	6,835	285	6,900r	8,895r	805	40	16,925r
2005	805	2,170	5,060	1,760	230	10,025	215	8,215	9,665	1,050	50	19,195
2006	975	2,695	6,775	2,060	305	12,810	210	10,100	11,340	1,260	60	22,970
2007	875	2,035	6,970	2,155	330	12,365	230	9,950	12,540	1,150	65	23,935
2008	1,425	2,510r	7,225	2,670r	425	14,255r	300	12,070	14,245	1,695	65	28,375
2009	1,335	1,795r	6,775	1,970r	375	12,250r	350	12,605	14,535	1,245	75r	28,810r
2010	1,355r	1,780r	6,335	2,415r	395	12,280r	385r	14,275	14,085	1,730	365r	30,840r
2011	1,540r	2,060r	6,545	2,575r	410r	13,130r	345r	12,325	14,555r	1,690	325r	29,240r
2012	1,285r	2,180r	6,755	2,625r	395r	13,240r	340r	15,720r	15,690r	1,740	430r	33,920r
2013	1,265	2,450	7,140	2,490	430	13,775	360	16,670	16,575	1,725	425	35,755

<sup>(1)</sup> All data is to the nearest £5 million. VAT is only included where not refundable. Methodology used to calculate the series has changed over the years, as such the data provides a guide to changing patterns of expenditure on energy, but not too much significance should be drawn from small changes.

 $<sup>(2) \ \</sup>textit{Includes commercial, public administration, agriculture and all fuels used for transport purposes.}$ 

<sup>(3)</sup> Includes coal, coke, breeze and other manufactured solid fuel. Prior to 1996, an estimate of the value of coke produced in coke ovens owned by the iron and steel industry was included, this has now been replaced by an estimate of the value of coal purchased for such ovens, which is the actual monetary trade.

<sup>(4)</sup> Includes town gas.

<sup>(5)</sup> Includes heating oils, LPG etc. Excludes motor transport fuels.

<sup>(6)</sup> Includes other fuels not listed eg coke oven gas, heat, biofuels etc. Heat data not available before 1999, and other fuels data not available before 1998.

# 1.1.6 Expenditure on energy by final user, <sup>(1)</sup> 1970 to 2013 (continued)

£million

Other fina	al users	(2)					All final u	sers					
Coal and			Petroleum	Of which	Heat and	_	Coal and			Petroleum	Heat and		
solid	Natural		prod-	road	other	Total	solid	Natural		prod-	other	Total	
fuels (3)	gas (4)	Electricity	•	transport			fuels (3)		Electricity	•	fuels (6)		
60	70	390	1,910	1,720		2,430	740	525	1,510	2,295		5,070	1970
45	80	435	2,105	1,885		2,665	715	595	1,695	2,545		5,550	1971
45	80	480	2,305	2,070		2,910	685	705	1,850	2,760		6,000	1972
45	90	515	2,580	2,305		3,230	735	775	1,995	3,110		6,615	1973
60	105	590	3,885	3,150		4,640	875	905	2,435	4,965		9,180	1974
70	140	835	4,685	3,845		5,730	1,055	1,140	3,345	5,840		11,380	1975
90	200	1,030	5,305	4,325		6,625	1,310	1,580	4,115	6,665		13,670	1976
115	255	1,200	6,030	4,835		7,600	1,490	1,995	4,805	7,695		15,985	1977
115	310	1,375	6,075	4,890		7,875	1,535	2,370	5,425	7,700		17,030	1978
130	385	1,655	8,265	6,660		10,435	1,910	2,780	6,255	10,310		21,255	1979
130	360	1,000	0,200	0,000		10,433	1,910	2,700	0,233	10,310		21,233	1979
115	520	1,985	10,735	8,650		13,355	1,710	3,455	7,480	13,060		25,705	1980
110	585	2,460	12,345	10,060		15,500	1,920	4,260	8,785	14,795		29,760	1981
135	655	2,690	13,470	10,950		16,950	1,990	5,060	9,450	15,950		32,450	1982
135	745	2,855	14,965	12,240		18,700	2,050	5,640	9,810	17,410		34,910	1983
135	795	2,980	16,140	13,250		20,050	1,810	6,005	10,170	18,590		36,575	1984
155	920	3,265	17,640	14,615		21,980	2,265	6,745	10,855	20,045		39,910	1985
140	1,045	3,485	15,845	13,745		20,515	2,275	6,780	11,355	17,370		37,780	1986
125	1,035	3,490	16,630	14,525		21,280	1,980	6,870	11,915	17,905		38,670	1987
95	1,025	3,810	16,855	14,960		21,785	1,805	6,635	12,740	18,005		39,185	1988
95	1,015	4,185	18,755	16,690		24,050	1,730	6,680	13,950	19,980		42,340	1989
105	1,085	4,465	21,120	19,020		26,775	1,735	7,210	14,705	22,505		46,155	1990
85	1,310	4,960	21,900	19,995		28,255	1,790	8,200	16,185	23,265		49,440	1991
95	1,245	5,495	22,455	20,825		29,290	1,580	7,900	17,135	23,705		50,320	1992
70	1,155	5,555	24,365	22,540		31,145	1,590	7,775	17,115	25,725		52,205	1993
50	1,125	5,380	25,190	23,515		31,745	1,385	8,155	17,140	26,510		53,190	1994
35	1,110	5,300	25,895	24,140		32,340	1,255	8,135	17,330	27,195		53,915	1995
30	975	5,405	28,240	26,145		34,650	1,260	8,240	17,685	29,835		57,020	1996
35	855	5,420	30,645	28,685		36,955	1,165	7,850	17,003	32,095		58,120	1997
25	885	5,200	31,375	29,810	_	37,485	1,105	7,885	16,335	32,555	70	57,940	1998
10	780	4,990	38,435	36,680	235	44,450	980	7,355	16,330	39,640	490	64,795	1999
		1,000		,		,		,,,,,,	,			0.,.00	
5	850	4,950	38,860	35,635	235	44,900	890	7,445	15,860	40,740	485	65,425	2000
5	1,110	4,330	37,195	34,320	225	42,865	985	8,310	15,020	39,145	445	63,905	2001
-	1,020r	4,050	36,355	34,020	140	41,565r	830	8,395	14,550	38,065	440	62,280r	2002
5	1,120	3,830	38,160	35,055	125	43,240	695	8,720	14,415	40,135	375	64,345	2003
5	1,320	4,355	46,560	42,975	70	52,310	815	9,705r	16,505r	48,850	195	76,070r	2004
5	1,755	5,405	49,530	44,620	200	56,895	1,025	12,145	20,135	52,345	475	86,125	2005
-	2,165	6,715	53,040	47,150	375	62,295	1,185	14,955	24,835	56,355	740	98,070	2006
-	2,040	7,050	54,625	48,810	605	64,320	1,110	14,020	26,565	57,930	1,000	100,625	2007
_	3,150r	9,215	61,025r	51,765r	1,410	74,800r	1,725	17,730r	30,690	65,385r	1,900	117,430r	2008
-	2,730r	10,020	51,205r	45,505r	1,580	65,535r	1,690	17,135r	31,330	54,420r	2,025	106,600r	2009
Or	2,610r	9,750	58,895r	51,410r	2,180	73,435r	1,740r	18,660r	30,165	63,035r	2 Q40r	116,540r	2010
15r	2,760r	9,750 9,755r	67,410r		2,160 2,365r	73,4351 82,305r	1,7401 1,900r	17,150r	30,855r	71,675r			2010
10r	2,760r 3,030r	9,755r 10,360r	67,410r 68,120r	57,815r 58,695r	2,365r 2,160r	82,305r 83,680r	1,900r 1,635r	20,930r	30,855r 32,810r	71,675r 72,480r	2,980r		2011
101	3,470	10,3601	66,835	57,810	2,1601	83,610	1,635	22,590	34,640	72,4601	3,230	133,145	2012

### 1.1.7 Mean air temperatures (deviations) (1)(2) 2000 to 2013 Great Britain

														Degre	es Celsius
	Average														
	1981-2010 <i>(4)</i>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Calendar year	9.9	+0.5	+0.2	+0.8	+0.7	+0.6	+0.6	+0.8	+0.6	+0.0	+0.2	-1.0	+0.8	-0.2	-0.2
First half year	8.3	+0.7	-0.2	+1.1	+0.9	+0.8	+0.7	+0.0	+1.4	+0.5	+0.2	-0.7	+0.9	+0.2	-1.2
Second half year	11.6	+0.3	+0.6	+0.5	+0.5	+0.5	+0.5	+1.6	-0.2	-0.5	+0.1	-1.2	+0.7	-0.5	+0.9
First quarter	5.2	+1.2	-0.5	+1.7	+0.5	+0.7	+0.8	-0.7	+1.5	+0.7	-0.4	-1.8	+0.4	+0.9	-1.8
Second quarter	11.3	+0.2	+0.1	+0.6	+1.3	+1.0	+0.5	+0.7	+1.3	+0.4	+0.8	+0.3	+1.3	-0.5	-0.7
Third quarter	15.6	+0.4	+0.3	+0.2	+1.1	+0.4	+0.3	+1.7	-0.7	-0.2	+0.1	-0.1	-0.3	-0.5	+0.8
Fourth quarter	7.5	+0.3	+1.0	+0.8	-0.1	+0.6	+0.6	+1.6	+0.3	-0.7	+0.1	-2.4	+1.7	-0.5	+0.9
Summer (3)	13.4	+0.3	+0.2	+0.4	+1.2	+0.7	+0.4	+1.2	+0.3	+0.1	+0.5	+0.1	+0.5	-0.5	+0.1
Winter (3)	6.4	-0.1	+1.4	+0.7	+0.3	+0.7	-0.1	+1.5	+0.5	-0.5	-0.8	-1.0	+1.3	-1.2	+1.1
January	4.6	+0.9	-0.7	+1.5	+0.3	+0.9	+1.8	-0.1	+2.3	+1.8	-1.3	-3.1	-0.7	+0.9	-0.7
February	4.6	+1.8	+0.2	+2.6	-0.2	+0.9	-0.1	-0.5	+1.4	+0.7	-0.3	-1.9	+1.7	-0.3	-1.3
March	6.5	+1.1	-1.0	+1.2	+1.3	+0.2	+0.8	-1.5	+0.6	-0.4	+0.5	-0.4	+0.3	+2.0	-3.5
April	8.4	-0.5	-0.6	+1.0	+1.5	+1.2	+0.4	+0.1	+2.8	-0.5	+1.3	+0.5	+3.3	-1.1	-1.0
May	11.4	+0.6	+1.0	+0.5	+0.7	+0.7	-0.2	+0.4	+0.5	+1.6	+0.5	-0.6	+0.8	+0.2	-0.9
June	14.1	+0.6	-0.1	+0.2	+1.8	+1.2	+1.3	+1.7	+0.8	-0.1	+0.7	+1.2	-0.1	-0.5	-0.1
July	16.4	-1.2	+0.3	-0.5	+1.0	-0.7	+0.2	+2.8	-1.2	-0.2	-0.3	+0.6	-1.1	-1.0	+1.8
August	16.2	+0.5	+0.5	+0.7	+1.8	+1.1	-0.1	-0.1	-0.7	-0.0	+0.3	-0.9	-0.8	+0.4	+0.7
September	14.0	+1.9	+0.1	+0.5	+0.4	+0.8	+1.0	+2.4	-0.1	-0.5	+0.2	-0.0	+1.1	-0.8	-0.1
October	10.6	-0.1	+3.0	-0.3	-1.6	-0.0	+2.4	+2.2	+0.4	-0.8	+0.9	-0.2	+1.8	-1.1	+1.9
November	7.3	-0.1	+0.7	+1.5	+1.1	+0.7	-0.9	+0.8	+0.3	-0.3	+1.2	-1.9	+2.3	-0.6	-0.9
December	4.7	+1.1	-0.6	+1.2	+0.3	+1.0	+0.1	+1.6	+0.3	-1.0	-1.7	-5.0	+1.2	+0.1	+1.7

<sup>(1)</sup> Latest monthly figures available at:

https://www.gov.uk/government/statistical-data-sets/december-2012-energy-trends-weather-data

 $\underline{https://www.gov.uk/government/publications/energy-trends-march-2013-special-feature-articles-long-term-mean-temperatures-1981-2010}$ 

<sup>(2)</sup> Average mean air temperatures calculated from the maximum and minimum daily temperature as recorded at 17 meteorological stations, selected as representative of fuel consumption in Great Britain, 2 in Scotland, 2 in Wales and 13 in England, 4 of which are counted twice. Data on temperatures recorded are provided by the Meteorological Office.

<sup>(3)</sup> The summer period is from April to September inclusive, and the winter period is the six months beginning in October and ending with March of the following year.

<sup>(4)</sup> Long term mean changed from 1971-2000 to 1981-2010 with effect from June 2013; see article in the March 2013 edition of Energy Trends at:

## 1.1.8 Mean heating degree days $^{(1)(2)(3)}$ , 2002 to 2013, Great Britain

	January	February	March	April	May	June	July	August	September	October	November	December	Total heating degrees days temperature	Year
Long-term mean (1981-2010)	10.9	10.9	9.0	7.1	4.2	2.0	0.7	0.8	2.1	5.0	8.3	10.8	2,175.8	6.0
2002	9.5	8.3	7.8	6.1	3.6	1.4	0.6	0.1	1.2	5.2	6.7	9.5	1,823.3	5.0
2003	10.6	11.1	7.7	5.6	3.6	0.3	0.0	0.3	1.5	6.1	7.1	10.5	1,948.8	5.3
2004	10.0	9.9	8.9	5.9	3.4	1.0	0.7	0.2	1.2	4.9	7.5	9.8	1,931.9	5.3
2005	9.1	11.0	8.2	6.7	4.3	1.3	0.3	0.3	1.2	2.6	9.1	10.7	1,953.8	5.4
2006	11.0	11.3	10.5	7.0	3.7	0.6	0.0	0.3	0.3	2.7	7.4	9.1	1,932.3	5.3
2007	8.6	9.5	8.4	4.3	3.7	0.9	0.5	0.5	2.1	4.5	8.0	10.5	1,860.3	5.1
2008	9.1	10.1	9.4	7.6	2.6	1.6	0.5	0.2	2.0	5.8	8.5	11.8	2,101.8	5.7
2009	12.2	11.1	8.6	5.8	3.6	1.6	0.2	0.2	1.5	4.0	7.1	12.4	2,067.2	5.7
2010	14.0	12.7	9.4	6.6	4.9	1.0	0.1	0.7	1.8	5.1	10.1	15.8	2,489.0	6.8
2011	11.6	9.2	8.7	3.8	3.3	1.9	0.5	0.8	1.0	3.4	6.0	9.6	1,815.3	5.0
2012	10.0	11.1	7.0	8.2	4.2	2.1	0.8	0.3	2.6	6.0	8.8	10.7	2,185.1	6.0
2013	11.6	12.1	12.5	8.1	4.9	1.7	0.1	0.1	1.9	3.1	9.1	9.1	2,250.3	6.2
2014	9.9	9.2	7.9	5.4	3.3	0.6								

<sup>(1)</sup> Latest monthly figures available at

 $\underline{https://www.gov.uk/government/statistical-data-sets/december-2012-energy-trends-weather-data}$ 

 $\underline{\text{https://www.gov.uk/government/publications/energy-trends-march-2013-special-feature-articles-long-term-mean-temperatures-1981-2010}$ 

<sup>(2)</sup> Degree days calculated from the maximum and minimum daily temperature as recorded at 17 meteorological stations, selected as representative of fuel consumption in Great Britain with 2 in Scotland, 2 in Wales and 13 in England, 4 of which are counted twice. Data on temperatures recorded are provided by the Meteorological Office.

<sup>(3)</sup> Long term mean changed from 1971-2000 to 1981-2010 with effect from June 2013; see article in the March 2013 edition of Energy Trends at:

### 1.1.9 Mean air temperatures (averages) $^{(1)(2)(3)}$ , 1970 to 2013 Great Britain

												Degrees	Celsius
	January	February	March	April	May	June	July	August	September	October	November	December	Year
1970	4.0	3.2	4.0	6.8	12.7	16.1	15.4	16.1	14.5	10.9	7.9	4.5	9.7
1970	4.0	5.0	5.4	7.8	11.5	12.5	16.9	15.6	14.3	11.6	6.4	7.1	9.9
1972	4.7	4.6	6.5	8.6	10.6	11.9	15.5	15.0	11.9	10.7	6.4	5.8	9.3
1973	4.7	4.7	6.5	7.2	11.3	14.9	15.7	16.5	14.3	9.4	6.2	5.1	9.7
1974	6.1	5.8	5.8	8.0	10.9	13.7	15.1	15.2	12.1	7.9	6.7	8.0	9.6
1975	6.7	4.7	5.0	8.3	9.7	14.5	17.2	18.2	13.4	10.2	6.3	5.3	10.0
1976	5.9		5.0			16.7	18.3	17.3	13.4	10.2		2.2	10.0
1976		4.8 5.1		8.0 7.3	11.8						6.2		
	3.0		7.0		10.4	12.4	15.9	15.3	13.1	11.7	6.4	6.2	9.5
1978	3.4	3.6	6.8	6.4	11.3	13.6	14.7	14.9	14.0	11.9	8.6	4.3	9.5
1979	0.5	1.4	4.8	7.6	9.7	14.1	16.2	14.9	13.2	11.2	7.0	5.5	8.9
1980	2.4	6.0	4.9	8.7	11.0	13.8	14.5	15.7	14.6	9.0	6.6	5.8	9.4
1981	4.8	3.3	6.6	7.8	10.5	13.3	15.6	16.2	14.6	7.6	7.7	0.8	9.1
1982	2.8	4.8	5.8	8.2	11.1	11.2	16.2	15.4	13.8	9.8	7.4	4.1	9.2
1983	6.2	1.9	6.1	6.3	9.6	13.6	18.4	16.8	13.2	10.0	7.3	5.5	9.6
1984	3.3	3.5	4.5	7.7	9.5	13.9	16.2	17.0	13.2	10.7	7.7	5.0	9.4
1985	1.0	2.5	4.4	8.0	10.4	12.2	15.6	14.2	14.1	10.7	4.0	6.1	8.6
1986	3.2	-0.5	4.9	5.4	10.6	14.1	15.4	13.2	11.0	10.6	7.3	5.8	8.5
1987	1.1	3.7	4.1	9.4	9.7	12.2	15.5	15.2	13.3	9.3	6.4	4.7	8.7
1988	4.9	4.5	5.8	7.8	11.2	14.0	14.4	14.9	13.2	9.4	5.3	7.1	9.4
1989	6.1	5.8	7.0	6.1	12.5	14.0	17.4	16.1	14.1	11.5	6.4	4.5	10.2
1990	6.3	7.0	8.0	7.7	12.1	13.3	16.3	17.6	13.1	12.0	7.2	5.1	10.5
1991	3.7	2.4	7.8	8.0	11.0	12.2	17.1	17.0	14.7	10.3	7.0	5.0	9.7
1992	4.0	5.9	7.4	8.6	13.1	15.5	16.1	15.3	13.2	7.8	7.5	4.1	9.9
1993	6.0	5.4	6.6	9.3	11.2	14.4	15.1	14.4	12.5	8.5	5.0	5.3	9.5
1994	5.2	3.5	7.6	8.1	10.4	14.3	17.6	15.9	12.7	10.2	10.1	6.4	10.2
1995	4.9	6.7	5.6	8.9	11.6	14.0	18.4	18.9	13.8	13.2	8.1	2.8	10.2
1996	4.8	3.1	4.6	8.7	9.3	14.4	16.4	16.7	13.7	11.8	6.2	3.5	9.4
1997	2.9	6.9	8.4	9.1	11.5	14.0	16.9	18.6	14.5	10.5	8.9	6.1	10.7
1998	5.5	7.7	8.0	7.8	12.9	14.1	15.5	15.9	14.8	10.5	7.3	5.9	10.7
1999	5.8	5.6	7.4	9.4	12.8	13.7	17.5	16.3	15.7	11.0	8.1	5.0	10.5
1999	5.0	3.0	7.4	3.4	12.0	13.7	17.5	10.5	13.7	11.0	0.1	3.0	10.7
2000	5.5	6.4	7.5	7.9	12.1	14.7	15.2	16.7	15.9	10.5	7.1	5.8	10.5
2001	3.9	4.8	5.5	7.8	12.4	14.0	16.7	16.7	14.1	13.6	7.9	4.1	10.2
2002	6.1	7.2	7.6	9.4	11.9	14.3	15.9	17.0	14.5	10.3	8.8	6.0	10.8
2003	4.9	4.5	7.8	9.9	12.1	15.9	17.5	18.0	14.3	9.0	8.4	5.0	10.6
2004	5.5	5.6	6.6	9.6	12.1	15.3	15.7	17.4	14.8	10.6	8.0	5.7	10.6
2005	6.4	4.5	7.2	8.8	11.2	15.4	16.6	16.1	15.0	13.0	6.4	4.8	10.5
2006	4.5	4.2	5.0	8.5	11.8	15.8	19.3	16.2	16.4	12.8	8.1	6.4	10.8
2007	6.9	6.0	7.1	11.2	11.9	14.9	15.2	15.5	13.9	11.0	7.5	5.0	10.5
2008	6.4	5.4	6.1	7.9	13.0	14.0	16.3	16.2	13.5	9.8	7.0	3.7	10.0
2009	3.3	4.4	6.9	9.7	11.9	14.8	16.2	16.6	14.2	11.5	8.4	3.1	10.1
2010	1.5	2.8	6.1	8.9	10.8	15.3	17.0	15.3	14.0	10.4	5.4	-0.3	9.0
2010	3.9	6.3	6.8	11.7	12.3	14.0	15.3	15.4	15.1	12.4	9.5	-0.3 5.9	10.7
2011	5.5	6.3 4.4	8.5	7.3	11.6	13.6	15.4		13.1	9.5			9.8
								16.6			6.7	4.8	
2013 2014	3.9 5.6	3.4 6.3	3.0 7.6	7.4 10.1	10.6 12.3	13.9 15.2	18.2	16.9	13.9	12.5	6.4	6.4	9.7

<sup>(1)</sup> Latest monthly figures available at

https://www.gov.uk/government/statistical-data-sets/december-2012-energy-trends-weather-data

<sup>(2)</sup> Average mean air temperatures calculated from the maximum and minimum daily temperature as recorded at 17 meteorological stations, selected as representative of fuel consumption in Great Britain, 2 in Scotland, 2 in Wales and 13 in England, 4 of which are counted twice. Data on temperatures recorded are provided by the Meteorological Office.

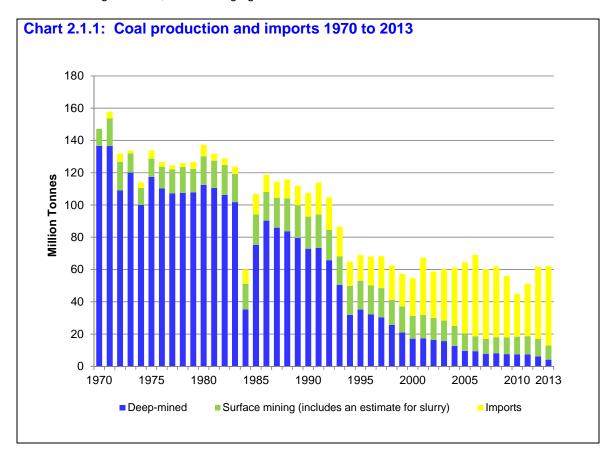
<sup>(3)</sup> Long term mean changed from 1971-2000 to 1981-2010 with effect from June 2013; see article in the March 2013 edition of Energy Trends at: https://www.gov.uk/government/publications/energy-trends-march-2013-special-feature-articles-long-term-mean-temperatures-1981-2010

### **Chapter 2: Long term trends**

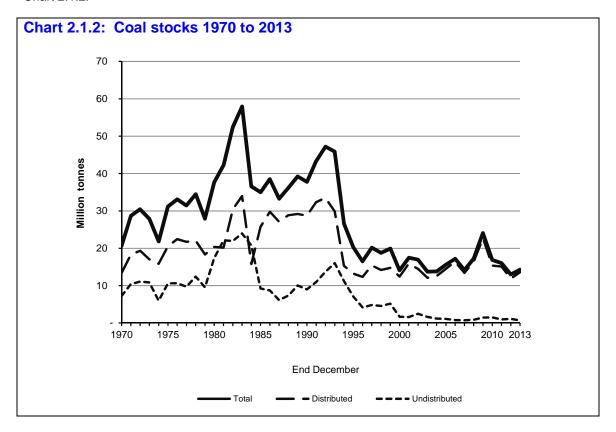
### Solid fuels and derived gases

#### Coal production, trade and stocks (Table 2.1.1)

- 2.1.1 Figures for coal production, imports, overseas shipments and stocks are given in Table 2.1.1, which is based on Table 2.4 of Chapter 2 of the main Digest. The table series extends back to 1970.
- 2.1.2 Deep-mined production, which represented 93 per cent of overall production in 1970, fell gradually from 1970 to 1983 (with notable falls in 1972 and 1974 due to miners' strikes). Production then plummeted in 1984 as a result of the miners' strike, before recovering. It then continued to fall from the early 1990's as demand for coal fell and mines closed. Deep mining production fell 97 per cent from 95 million tonnes in 1970 to 4 million tonnes in 2013.
- 2.1.3 Surface mine production rose after 1970 until the early 1990s to a peak of 21 million tonnes in 1991. After 1991 production fell steadily, as mines have closed and overall demand for coal has broadly fallen, with 2010 around the same level as 1970, but represented 60 per cent of overall production.
- 2.1.4 Since 1970, UK coal imports have grown steadily. This growth increased more rapidly over a short period of time in the early 2000s. This meant in 2001 UK imports (36 million tonnes) exceeded UK production (32 million tonnes) for the first time. This rapid growth in imports continued and in 2006 imports reached a new record of 51 million tonnes. From 2007 to 2010 levels declined due to less demand from generators, before rising again from 2011. These trends are illustrated in Chart 2.1.1.



2.1.5 Total coal stocks were around 20 million tonnes in 1970. Since then distributed stocks increased substantially (mainly due to growth at electricity generators) and in 1983, total stocks, reached a record high of 58 million tonnes, of which 59 per cent was distributed. Thereafter, although there have been year-on-year fluctuations, stock levels have declined back to under 20 million tonnes a year, with the exception of 2009, where total stocks were 24 million tonnes (Chart 2.3), the highest since 1994 (27 million tonnes), as a result of a sharp decline in coal demand for generation. Since 2009, total stocks have fallen again due to higher demand for coal. Trends in coal stocks are shown in Chart 2.1.2.



#### Inland consumption of solid fuels (Table 2.1.2)

2.1.6 Figures for inland consumption of coal by fuel producers and final users are given in Table 2.1.2, which are based on Table 2.4 of Chapter 2 of the main Digest. The table also shows final consumption figures for coke and breeze, and other solid fuels based on Table 2.5 of Chapter 2.1

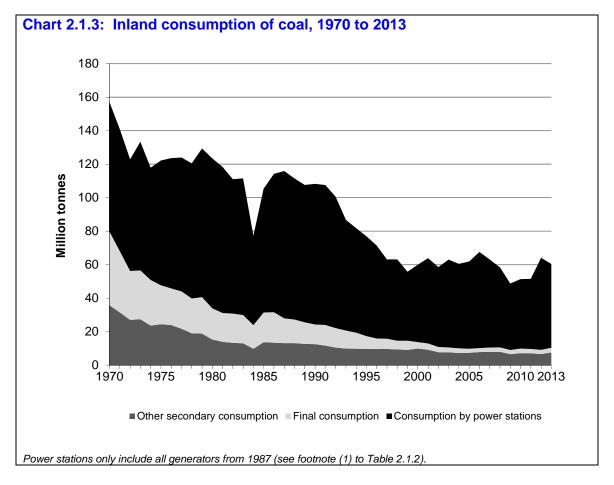
- 2.1.7 Trends in inland consumption of coal, in total and by power stations, coke ovens and final consumers, are illustrated in Chart 2.1.3.
- 2.1.8 Total inland consumption fell gradually from 157 million tonnes in 1970. There was a large fall in 1984 due to the miners' strike. Consumption quickly rose again to pre-1984 levels before gradually falling again. In 2013, consumption of coal was 60 million tonnes, 62 per cent lower than in 1970.
- 2.1.9 Consumption by the electricity generators increased from 77 million tonnes in 1970 to a peak of 90 million tonnes in 1980 and continued in the 80 to 90 million tonnes range until 1991, with the exception of the miners' strike years. Coal consumed by generators fell steadily after 1991 until 1999, as the UK's energy mix became more diverse, environmental regulations and high coal prices made natural gas more attractive to purchase for generation use. Coal consumption by generators broadly rose again after 1999 to 2006 as the price of gas encouraged generation from coal. From 2006 to

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<sup>&</sup>lt;sup>1</sup> These products are mainly supplied from the conversion of coal, supplemented by a small amount of foreign trade. Where possible the series have been extended back to 1970.

2010 the fall in consumption resumed. In recent years, there has been higher coal use due to higher gas prices making generation from coal more attractive.

2.1.10 Final consumption has fallen continually from 1970, with the exception of an increase for two years following the 1984 strike, as gas has taken over as the main heating fuel in the UK, and demand from industry has also declined (particularly from 1986).



- 2.1.11 More detailed information on coal statistics for 2011 onwards are shown in Chapter 2 of the main Digest.
- 2.1.12 A more detailed examination of historical coal statistics was published in the September 2001 issue of Energy Trends. This looked at trends in coal production, consumption and employment in the coal mining industry over the last 150 years. The updated data set on which the article is based is available on the Department of Energy and Climate Change (DECC) website at:

  www.gov.uk/government/collections/coal-statistics#historical-data, and the original article is available on request from DECC.

Contact: Chris Michaels

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**2.1.1 Coal production and stocks** <sup>(1)</sup>

Thousand tonnes

							11101	usand tonnes			
		Coal production	on			Coal stocks (at year end) (5)					
•	T-1-1	Dana salaad	Surface mining		_						
	Total	Deep-mined	(2,3)	Imports (4)	Exports	Total	Distributed	Undistributed			
1970	147,195	136,686	10,509	79	3,191	20,630	13,414	7,216			
1971	153,683	136,478	17,205	4,241	2,667	28,664	18,271	10,393			
1972	126,834	109,086	17,748	4,998	1,796	30,460	19,351	11,110			
1973	131,984	120,030	11,954	1,675	2,693	27,886	17,035	10,850			
1974	110,452	99,993	10,459	3,547	1,865	21,807	15,827	5,979			
1975	128,683	117,412	11,271	5,083	2,182	31,159	20,541	10,618			
1976	123,801	110,265	13,536	2,837	1,436	33,115	22,457	10,658			
1977	122,150	107,123	15,027	2,439	1,835	31,444	21,704	9,740			
1978	123,577	107,528	16,049	2,352	2,253	34,475	22,038	12,437			
1979	122,369	107,775	14,594	4,375	2,175	27,908	18,339	9,569			
1980	130,097	112,430	17,667	7,334	3,809	37,687	20,370	17,317			
1981	127,469	110,473	16,996	4,290	9,113	42,253	20,136	22,117			
1982	124,711	106,161	18,550	4,063	7,447	52,377	30,422	21,955			
1983	119,254	101,742	17,512	4,456	6,561	57,960	33,964	23,996			
1984	51,182	35,243	15,939	8,894	2,293	36,548	15,794	20,753			
1985	94,111	75,289	18,822	12,732	2,432	34,979	25,752	9,228			
1986	108,099	90,366	17,733	10,554	2,677	38,481	29,776	8,704			
1987	104,533	85,957	18,576	9,781	2,353	33,246	27,104	6,142			
1988	104,066	83,762	20,304	11,685	1,822	36,166	28,834	7,332			
1989	99,820	79,628	20,192	12,137	2,049	39,244	29,191	10,053			
1990	92,762	72,899	19,863	14,783	2,307	37,760	28,747	9,013			
1991	94,202	73,357	20,845	19,611	1,824	43,321	32,343	10,977			
1992	84,493	65,800	18,693	20,339	973	47,207	33,493	13,714			
1993	68,199	50,457	17,742	18,400	1,114	45,860	29,872	15,989			
1994	49,785	31,854	17,931	15,088	1,236	26,572	15,301	11,271			
1995	53,037	35,150	17,887	15,896	859	20,330	13,226	7,104			
1996	50,197	32,223	17,974	17,799	988	16,505	12,352	4,153			
1997	48,495	30,281	18,214	19,757	1,146	20,188	15,385	4,803			
1998	41,177	25,731	15,446	21,244	971	18,767	14,202	4,565			
1999	37,077	20,888	16,189	20,293	761	19,931	14,774	5,157			
2000	31,198	17,188	14,010	23,446	660	14,077	12,431	1,646			
2001	31,930	17,347	14,583	35,542	550	17,468	15,885	1,583			
2002	29,989	16,391	13,598	28,686	537	16,968	14,486	2,482			
2003	28,279	15,633	12,646	31,891	543	13,731	12,107	1,624			
2004	25,096	12,542	12,554	36,153	622	13,791	12,598	1,192			
2005	20,498	9,563	10,935	43,968	536	15,628	14,527	1,101			
2006	18,517	9,444	9,073	50,528	443	17,210	16,427	783			
2007	17,007	7,674	9,333	43,364	544	14,155	13,420	734			
2008	18,053	8,096	9,958	43,875	599	17,246	16,392	854			
2009	17,874	7,520	10,354	38,167	646	24,091r	22,641r	1,450			
2010	18,417	7,390	11,026	26,541	715	16,884r	15,368r	1,517			
2011	18,627	7,312	11,315	32,527	491	16,040r	15,114r	926			
2012	17,047	6,153	10,894	44,815	488	13,002r	11,882r	1,120			
2013	12,847	4,089	8,759	49,402	593	14,284	13,589	696			

<sup>(1) 2008</sup> is 4 days longer than the standard 52 week statistical reporting period (SRP) for January to December 2008. This is to enable a smooth transition to publishing data on a calendar month basis from January 2009 rather than 4 and 5 week SRPs used for previous years.

<sup>(2)</sup> Includes estimates for slurry etc recovered from dumps, ponds, rivers etc

<sup>(3)</sup> The term 'surface mining' has now replaced opencast production. Opencast production is a surface mining technique

<sup>(4)</sup> The 1993 import figure includes an additional estimate for unrecorded trade

<sup>(5)</sup> Excludes distributed stocks held in merchants' yards, etc, mainly for the domestic market and stocks held by the industrial sector.

## 2.1.2 Inland consumption of solid fuels (4)

Thousand tonnes Coal consumption by fuel producers Final consumption Primary Secondary Coal (1) Coke Coke Other Total inland ovens and Other and solid consumption Power blast solid fuel Gas fuel breeze of coal Collieries stations (1) furnaces plants (3) Total Industry Domestic Other Total works (2)(3) 1970 156,885 1,916 77,237 25,340 4,150 4,280 111,007 19,613 20,190 4,159 43,962 18,090 3,203 102,733 1971 140,931 1,581 72,847 23,554 4,477 1,855 16,105 17,185 3,327 36,617 15,100 3,456 1972 122,883 1.405 66.664 20.476 4.547 575 92,262 11.663 14,554 2.999 29.216 14,090 3.514 1973 133,371 1,381 76.838 21.888 3.607 102,845 12,062 14,502 2.581 29.145 15,000 3.375 1974 117,887 1,256 67,026 18,461 3,788 107 89,382 11,077 13,667 2,505 27,249 13,220 3,184 1975 122,213 1,238 74,569 19,085 4,063 9 97,726 9,685 11,616 1,948 23,249 11,640 2,919 1976 123,604 1.132 77.819 19.402 3,405 8 100,634 8.970 10,823 2,045 21,838 12,460 2,647 1977 123,977 3,173 100,535 2,149 22,318 11,310 2,609 1.124 79.956 17.406 9.033 11.136 120,477 3,070 20,808 1978 1.010 80.643 14.946 98.659 8.550 10.217 2.041 10.484 2.453 1979 129,379 834 88.790 15.081 2,883 106.754 9.232 10.508 2,051 21,791 11.361 2.364 1980 123,460 663 89,569 11,610 3,022 - 104,201 7,898 8,946 1,752 18,596 6,221 2,252 1981 118,386 616 87,226 10,805 2,458 100,489 7,046 8,454 1,781 17,281 7,952 1,975 1982 110,998 534 80.228 10.406 2.326 92,960 7,175 8.474 1,855 17,504 7.248 1,921 1983 111,475 486 81.565 10.448 2.114 94,127 7,218 7,872 1,772 16,862 7,600 1,889 1984 77,309 209 53,411 8,246 1,300 62,957 7,006 5,406 1,731 14,143 7,653 1,186 1985 105,386 332 73,940 2,176 87,238 8,313 7,799 1,704 17,816 8,230 1,658 11,122 1986 114,234 306 82.652 11.122 1,959 95,733 9.278 7.421 1,496 18.195 7.558 1.601 115,894 235 2,052 100,871 1,425 14,788 8,233 1987 87.960 10.859 6.827 6.536 1.652 1,265 1988 111.499 196 84.258 10.902 2.006 97.166 5.741 14.137 8.591 1.443 7.131 107,581 1989 146 82.053 10.792 1.717 94.562 6.763 5.048 1.062 12.873 8.159 1.253 1990 108,257 117 84,014 10,852 1,544 96,410 6,280 4,239 1,211 11,730 7,637 1.214 1991 107.514 112 83.542 10.011 1.501 95.054 6.426 4.778 1.144 12.348 7.136 1,200 1992 100,580 79 78,469 9,031 1,319 88,819 6,581 4,156 945 11,682 6,887 1,089 1993 86,756 48 66,136 8.479 1,329 75,944 5,300 4,638 826 10,764 6,638 1,138 1994 81,767 22 62.406 8.581 1,190 72,177 4,946 3,901 721 9,568 6,578 949 1995 76,942 8 59,588 982 69,227 4,494 523 7,707 6,541 742 8,657 2,690 1996 71,400 8 55,511 8,632 946 65,089 3,075 2,705 524 6,303 6,925 835 8 1997 63.080 47.333 8.750 864 56.947 2.993 2.587 545 6.125 6.784 616 1998 63,152 5 8,728 635 57,951 5,196 48.588 2.414 2.366 416 6.545 630 10 41,178 8,413 2,040 2,517 6,705 1999 55,724 646 50.237 920 5.477 572 2000 59,931 12 8,685 1,195 56,078 1,876 1,883 82 3,841 6,283 521 46.197 2001 63,850 10 50.931 7.895 1.246 60.072 1.826 1.874 68 3,768 5,394 483 2002 58.554 9 47.741 6.533 1,153 55.427 1,810 1,286 22 3,118 4,715 414 2003 63,023 6 52,463 6,611 1,019 60,093 1,856 1,043 25 2,923 5,337 358 2004 60,450 8 50,444 6.382 801 57,626 1,848 941 27 2,816 5,146 316 2005 61,852 6 52,058 725 59,392 59 2,455 6,609 1,781 614 5,003 256 2006 67,594 4 57,438 7,049 733 65,220 1,756 561 54 2,370 5,263 257 5 45 2007 63.029 52.511 7.174 750 60.434 1.896 648 2.590 5.183 235 2008 58,385 5 55,707 683 49 2,672 47.808 7.045 855 1.940 5.104 294 48,718r 5 5,787 46,188r 94 2,525 2009 39,681 720r 1,742 689 3,735 269 2010 5 708r 48,584r 2,766r 51.354r 41.498 6.378r 1.975r 733r 58 3.424 311 2011 4 54 2,568r 51.500r 41.850 6.277r 802r 48.928r 1.798r 716 3.084 270 2012 64,030r 4 54,901r 5.952 633r 61,486r 1,826r 674 40 2.541r 3,501r 253

820

50,042

6,698

3

2013

60.405

57,561

2,147

646

48

2.841

4.427

304

<sup>(1)</sup> Up to 1986 power stations include those in the public electricity supply, railways and transport industries. Consumption by other generators is included in final coal consumption. From 1987, coal consumption at power stations also includes other generators' consumption, which is therefore excluded from final coal consumption (see also Table 2.4). From 1999 includes coal consumption for heat sold to third parties.

<sup>(2)</sup> This series comprises final consumption and consumption at blast furnaces which can now be separated following production of energy balances in Tables 2.5 and 2.6 of the main Digest.

<sup>(3)</sup> Low temperature carbonisation and patent fuel plants and their products.

<sup>(4) 2008</sup> is 4 days longer than the standard 52 week statistical reporting period (SRP) for January to December 2008. This is to enable a smooth transition to publishing data on a calendar month basis from January 2009 rather than 4 and 5 week SRPs used for previous years.

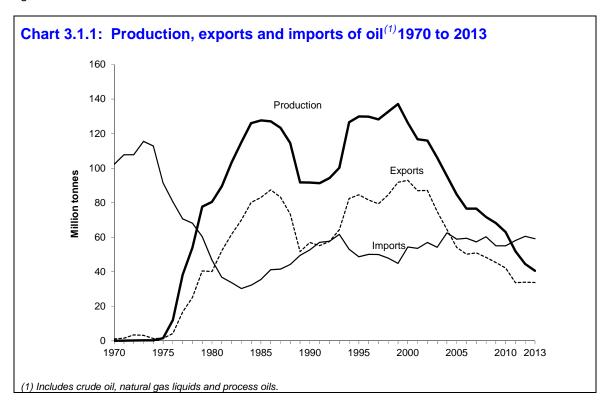
### **Chapter 3: Long term trends**

### **Petroleum**

3.1.1 Tables 3.1.1 and 3.1.2 present extended time series of selected, more aggregated data, from the tables in Chapter 3 of the main Digest. They give additional background on the historic development of the crude oil and petroleum sectors.

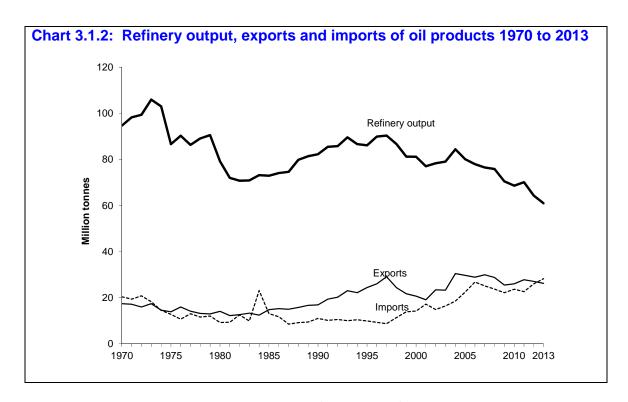
## Crude oil and petroleum products: production, imports and exports (Table 3.1.1)

- 3.1.2 The left-hand side of Table 3.1.1 shows data from 1970 to 2013 for production, imports and exports of crude oil (including natural gas liquids and feedstocks) and oil products. This part of the table also shows United Kingdom refinery throughput of crude oil, and the inland deliveries of oil products. Indigenous production of crude oil is shown in total with landward production shown separately.
- 3.1.3 The first three columns of the right-hand side of Table 3.1.1 consist of time series showing net exports of crude oil and products. It should be noted that exports of crude oil include some imports that have been re-exported. In years of significant indigenous production these have little effect on exports as a proportion of indigenous production, but in the earlier years (approximately pre-1975) the re-exports exceeded indigenous production and thus the ratio of exports to indigenous production was greater than one.



3.1.4 Chart 3.1.1 illustrates the trends in the production, exports and imports of crude oil. It shows that indigenous production of crude oil was negligible up to 1974 and then increased rapidly as North Sea production came on stream. Imports peaked in 1973, immediately prior to the first OPEC price 'hike'. The chart shows the rapid decline of net imports thereafter as indigenous production rose, until 1981 when the surplus turned from net imports to net exports. Net exports first peaked in 1986, one year after the first peak for North Sea production in 1985.

- 3.1.5 The large fall in production in 1988 and particularly 1989 reflects the effects of the Piper Alpha disaster and subsequent incidents, and the continued 'low' production in 1990 and 1991 reflects the consequent safety work. Production has been declining since the peak production of 137 million tonnes in 1999. Production of crude oil and Natural Gas Liquids from the UK's North Sea fields decreased by around 9 per cent between 2012 and 2013. Production is at just under a third of the UK's peak production recorded in 1999.
- 3.1.6 Table 3.1.1 also shows that the import share of refinery throughput of crude oil fell from nearly 100 per cent, prior to North Sea oil production starting, to a low of 39 per cent in 1983 (the lowest year for imports), before rising to 64 per cent in 1993. Since then, indigenous production has increased significantly leading to the import share falling to 51 per cent in 1999, the year of record UK production of crude oil. Since 2000, the share of imported crude used in refineries has been increasing due to the lower levels of production mentioned above. These developments are mirrored by the changes in the ratio of indigenous production to refinery throughput. Ignoring pre-1976 figures, the proportion of indigenous primary oils that were exported increased from 35 per cent in 1976 to around two-thirds towards the end of the 1980s. Although the decreases in production in the late 1980s did lead to some reduction in the level of exports, the proportion of primary oils going to export remained at roughly this level during the 1990s. In the last decade, the proportion has risen again to just over two thirds.
- 3.1.7 Imports of crude oil in 1991 (and marginally again in 1992) exceeded exports for the first time since 1980. Net exports of crude oil resumed in 1993, and continued to rise until 1999. In 1999 net exports of crude oil were 47 million tonnes at their highest since 1984 with overall net exports of crude oil and oil products at a record level of almost 55 million tonnes. However, the decreased level of crude oil production since 1999 had seen net exports of crude oil falling in the 1990s.In 2005, the UK became a net importer of crude oil, this has continued since with a trend for greater net imports each year.
- 3.1.8 Refinery throughput peaked in 1973 but subsequently fell to pre-1970 levels together with refinery output. (The difference between refinery throughput and output is refinery use of fuel and gains/losses). Since the low point of 1983 (throughput 77 million tonnes), both refinery throughput and output increased to a new peak in 1997. However, with the closure of the Gulf Oil refinery in late 1997, refinery output fell by 4 per cent in 1998 and then by another 6 per cent in 1999 to the lowest level seen since 1989. The remaining refineries in the UK worked to increase their capacity and utilisation rates and to a large extent offset the closures of the Gulf Oil and Shell Haven refineries. The fall in refinery output in 2001 is the result of the shutdowns mentioned above. Since, 2006 refining output has been on a general declining trend and this was reduced with further refinery closures; in 2009, Petroplus Teesside was mothballed and converted to a storage site, citing economic difficulties. This was followed by the closure of the Coryton refinery in 2012 for the same reasons.
- 3.1.9. In 1984 the UK was a net importer of refined oil products when there was increased demand for oil products as a result of the miners strike. The UK has generally been a net exporter with exports being greater than imports from 1984 onwards, net exports increased during the 1990s leading to a record high in 1997. In recent years however net exports have been falling and in 2013 the UK was a net importer (See Chapter 3). The increases in net exports of products in the 1990s reflect the increased throughput from refineries mainly feeding through to increased exports of oil products, rather than increases in deliveries to the domestic market. Since then net exports have decreased as a result of refinery closures. There was also a sharp fall in net exports in 2001 due to a number of slowdowns at refineries to allow upgrade work for the introduction of ultra low sulphur petrol. Imports of oil products were at their highest in 1967 (24 million tonnes) and, apart from a 'blip' in 1984 as a result of the miners' strike, were less than half this peak until 1999. In recent years, with the reduced refinery output due in part to the Teeside and Coryton refinery closures, imports have increased and now make up around 40 per cent of inland deliveries, twice the level of 2000. Chart 3.1.2 summarises the trend in refinery output, exports and imports of oil products over the period.



#### Inland deliveries of petroleum products (Table 3.1.2)

3.1.10 Table 3.1.2 shows data for deliveries of petroleum products from 1970 to 2013, split between non-energy uses in total and the major products delivered for energy use. While data for deliveries are considered to be a good proxy for consumption, differences can occur mainly due to stock changes along the chain of consumption. Total deliveries for energy use shown in the first (left-hand) half of the table and include 'own use' by refineries that are separately identified in the right-hand part of the table.

3.1.11 Deliveries of petroleum products peaked in 1973, in common with other aggregate oil figures (see Table 3.1.1). The 'blip' in 1984 reflects the increased deliveries (of fuel oil in particular) during the miners' strike. Fuel oil deliveries are now 6 per cent of their level in 1970 while gas oil deliveries (excluding DERV fuel) are half their 1970 level. In contrast, deliveries of aviation turbine fuel have more than tripled during the period. After limited growth during the 1970s and early 1980s, deliveries of DERV fuel resumed the high growth rates apparent in the 1960s, and have increased by over a quarter over the last 10 years. The upward surge of deliveries of transport fuels slowed in 1990 and ceased in 1991 with the twin impacts of the Gulf crisis and recession, with some recovery being seen in 1992.

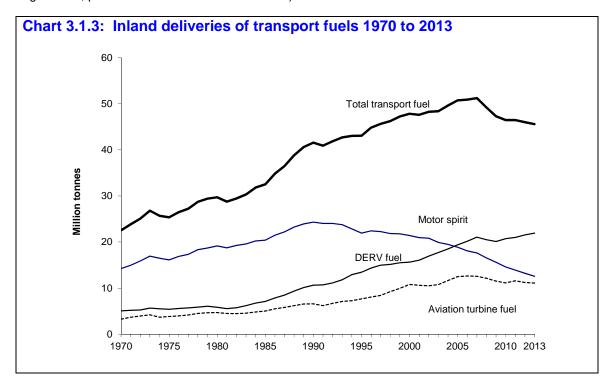
3.1.12 Since 1992, motor spirit deliveries have generally declined each year. In 2010 deliveries of motor spirit were a third lower than in 2000. These changes reflect the switch to diesel-engine cars and are mirrored by the pattern of increases in deliveries of DERV fuel since 1990. Consumption of motor spirit is also lowered by a more efficient road fleet. In 2005, deliveries of DERV fuel exceeded motor spirit in mass terms for the first time, and in 2007 DERV deliveries surpassed motor spirit in terms of both mass and volume, which has continued into 2012. Deliveries of aviation turbine fuel also increased each year from 1992 to 2000. However deliveries of aviation turbine fuel fell in 2001 due to the terrorist attacks on the United States on 11<sup>th</sup> September 2001 that caused a downturn in the global aviation industry. Developments in Afghanistan and Iraq during 2002 also impacted on the aviation industry with deliveries of aviation turbine fuel in 2002 being 1 per cent lower than in 2001. Deliveries of aviation turbine fuel increased by two thirds between 1990 and 2010. Deliveries increased year on year between 2003 and 2006, but fell year on year between 2007 and 2010. These recent falls in consumption reflect the impacts of the economic downturn, and specific drops in aviation fuel consumption as a result of poor weather and the ash eruption from the Eyjafjallajökull volcano in 2010.

Despite robust passenger numbers post the economic downturn, increased efficiencies in the air-line

industry have meant that fuel deliveries have not kept pace with passenger numbers. Chart 3.1.3 shows the trends in deliveries of all transport fuels from 1970 to 2013.

3.1.13 By the end of the 1980s and during the 1990s deliveries for non-energy uses were not far off their peak of the early to mid-1970s. Non-energy use has declined steadily in recent years, and is down about 40 per cent on the most recent peak, in 2004.

3.1.14 The right hand columns of Table 3.1.2 (headed "Energy industry use" and "Final users") show a sector-by-sector breakdown of the total deliveries for energy use given in the left hand columns. Fuels used in blast furnaces are included in the "other energy industry uses" column rather than in the iron and steel column. Total uses by the transport sector are now roughly double the amount delivered in 1970 as Chart 3.1.3 shows. Deliveries to every other major sector are below 1973 levels - well below for electricity generators, iron and steel and 'other industries', and other final users (mainly agriculture, public administration and commerce).



3.1.15 Additional analysis to that presented in this publication has been conducted on the information provided in Tables 3.1.1 and 3.1.2. The main purpose of this analysis was to extend the information provided back as far as possible, which has meant back to 1870 for some information. The tables are available at the link below and an article containing this analysis was published in the March 2007 edition of Energy Trends which is available on request from DECC: www.gov.uk/government/collections/oil-statistics#historical-data

A publication marking the 60<sup>th</sup> anniversary of the Digest of UK Energy Statistics is also available: www.gov.uk/government/collections/digest-of-uk-energy-statistics-dukes#60th-anniversary

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# 3.1.1 Crude oil and petroleum products: production, imports and exports $^{(1)(2)}$

		Cr	ude oil (3)				Oil pro	ducts	
_	Imports		s production	Exports	Refinery throughput	Refinery output (4)	Exports	Imports	Inlan deliveries (4
1970	100.155	Total	Landward	1 100	101 011	04.606	17,424	20, 420	04.454
1970	102,155	156	83	1,182	101,911	94,696		20,428	91,15
1971	107,736 107,706	212 333	85 85	1,569	105,342 106,980	98,245	17,166 15,979	19,369	91,99 <sup>2</sup> 98,469
1972	115,472	372		3,558 3,235	114,338	99,368 105,954	17,404	20,827 18,300	99,78
1973	112,822	410	88 107	1,404	111,217	103,954	14,631	14,537	93,40
1974	91,366	1,564	99	1,524	93,597	86,647			
1976							13,924	12,786	82,82
	80,466	12,169	99	4,285	97,784	90,284	15,988	10,709	81,57
1977	70,697	38,265	99	16,793	93,615	86,338	14,160	13,050	82,75
1978 1979	68,144 60,380	54,006 77,748	88 121	25,200 40,569	96,390 97,806	89,156 90,583	13,194 12,988	11,586 12,035	84,14 84,55
1980	46,717	80,467	237	40,180	86,341	79,227	14,110	9,245	71,17
1981	36,855	89,454	232		78,287				
				52,206	77,130	72,006 70,747	12,256	9,402	66,25
1982 1983	33,754	103,211	253	61,670 69,923		•	12,637	12,524	67,24
1983	30,324 32,272	114,960	316 345	,	76,876 70,117	70,927	13,331	9,907	64,46
1985	35,576	126,065	380	80,143	79,117 78,431	73,187 72,904	12,478 14,828	23,082	81,43
		127,611		82,980				13,101 11,767	69,78
1986	41,209	127,068	504	87,437	80,155 80,449	74,089	15,283	8,570	69,22
1987 1988	41,541 44,272	123,351 114,459	578 761	83,220 73,330	85,662	74,656 79,837	14,980 15,802	9,219	67,70 72,31
1989	49,500	91,710	722	51,664	87,669	81,392	16,683	9,479	73,02
1990	52,710	91,604	1,758	56,999	88,692	82,286	16,899	11,005	73,94
1991	57,084	91,261	3,703	55,131	92,001	85,476	19,351	10,140	74,50
1992	57,683	94,251	3,962	57,627	92,334	85,783	20,250	10,567	75,47
1993	61,701	100,189	3,737	64,415	96,273	89,584	23,031	10,064	75,79
1994	53,096	126,542	4,649	82,393	93,161	86,644	22,156	10,441	74,95
1995	48,749	129,894	5,051	84,577	92,743	86,133	24,420	9,879	73,69
1996	50,099	129,742	5,251	81,563	96,660	89,885	26,018	9,310	75,39
1997	49,994	128,234	4,981	79,400	97,023	90,366	29,118	8,706	72,50
1998	47,958	132,633	5,161	84,610	93,797	86,615	24,375	11,418	72,26
1999	44,869	137,099	4,285	91,797	88,286	81,195	21,730	13,896	72,43
2000	54,386	126,245	3,247	92,917	88,013	81,130	20,677	14,212	71,94
2001	53,551	116,678	2,921	86,930	83,343	77,051	19,088	17,234	71,35
2002	56,968	115,944	2,673	87,144	84,784	78,319	23,444	14,900	70,55
2003	54,177	106,073	2,198	74,898	84,585	79,073	23,323	16,472	71,69
2004	62,517	95,374	1,938	64,504	89,821	84,411	30,495	18,545	73,64
2005	58,885	84,721	1,648	54,099	86,134	80,146	29,722	22,481	75,36
2006	59,443	76,578	1,380	50,195	83,213	77,961	28,945	26,836	74,89
2007	57,357	76,575	1,271	50,999	81,477	76,509	29,983	25,110	72,74
2007		76,575	1,248	48,401	81,034	75,858	28,803	23,741	72,74
2008	60,335 55,056	68,199	1,248	48,401 45,444	75,604	75,858 70,523	28,803 25,491	23,741	70,45 66,94
2010	55,064	62,962	941	42,196	73,543	68,599	26,065	23,665	66,20
2010								22,656	
	58,092	51,972	678 870	33,745	75,080	70,122	27,800		64,17
2012 2013	60,559 59,137	44,561 40,646	870 1,003	33,961 33,844	68,862 65,034	64,341r 60,960	27,083 26,223	26,028r 28,245	62,77 62,34

<sup>(1)</sup> Aggregate monthly data on crude oil production and trade in oil and oil products are available - see Chapter 3 paragraph 3.71 and Annex C.

<sup>(2)</sup> See paragraphs 3.1.2 to 3.1.9.

<sup>(3)</sup> Includes natural gas liquids and feedstocks.

<sup>(4)</sup> Excludes products used as fuels within refinery processes.

# 3.1.1 Crude oil and petroleum products: production, imports and exports<sup>(1)(2)</sup> (continued)

	Net exports			Crude oil		Oil products	
	•			Ratio of	Ratio of	Imports:	
			Ratio of	indigenous	exports	Share of	
Crude	Oil		imports to ref.	production to	to indigenous	inland	
oil <i>(5)</i>	products (5)	Total (5)	throughput	ref. throughput	production	deliveries	
-	Thousand tonnes	s	<u> </u>	Ratio	· .	Percentage	
-100,973	-3,004	-103,977	1.002	0.001	7.577	22.4	1970
-106,167	-2,203	-108,370	1.023	0.001	7.401	21.1	1971
-104,148	-4,848	-108,996	1.007	0.002	10.685	21.2	1972
-112,237	-896	-113,133	1.010	0.002	8.696	18.3	1973
-111,418	94	-111,324	1.014	0.002	3.424	15.6	1974
-89,842	1,138	-88,704	0.976	0.012	0.974	15.4	1975
-86,181	5,279	-80,902	0.925	0.118	0.352	13.1	1976
-53,904	1,110	-52,794	0.755	0.409	0.439	15.8	1977
-42,944	1,608	-41,336	0.707	0.560	0.467	13.8	1978
-19,811	953	-18,858	0.617	0.796	0.522	14.2	1979
-6,537	4,865	-1,672	0.541	0.932	0.499	13.0	1980
15,351	2,854	18,205	0.471	1.143	0.583	14.2	1981
27,916	113	28,029	0.438	1.338	0.597	18.6	1982
39,599	3,424	43,023	0.394	1.497	0.608	15.4	1983
48,141	-10,604	37,537	0.408	1.593	0.638	28.3	1984
47,404	1,727	49,131	0.454	1.627	0.650	18.8	1985
46,228	3,516	49,744	0.514	1.585	0.688	17.0	1986
41,679	6,410	48,089	0.516	1.533	0.675	12.7	1987
29,057	6,583	35,640	0.517	1.336	0.641	12.7	1988
2,164	7,204	9,368	0.565	1.046	0.563	13.0	1989
4,289	5,894	10,183	0.594	1.033	0.622	14.9	1990
-1,953	9,211	7,258	0.620	0.992	0.604	13.6	1991
-56	9,683	9,627	0.625	1.021	0.611	14.0	1992
2,714	12,967	15,681	0.641	1.041	0.643	13.3	1993
29,297	11,715	41,012	0.570	1.358	0.651	13.9	1994
35,828	14,541	50,369	0.526	1.401	0.651	13.4	1995
31,464	16,708	48,172	0.518	1.342	0.629	12.3	1996
29,406	20,412	49,818	0.515	1.322	0.619	12.0	1997
36,652	12,957	49,609	0.511	1.414	0.638	15.8	1998
46,928	7,834	54,762	0.508	1.553	0.670	19.2	1999
38,531	6,464	44,995	0.618	1.434	0.736	19.8	2000
33,378	1,854	35,232	0.643	1.400	0.745	24.2	2001
30,176	8,544	38,720	0.672	1.368	0.752	21.1	2002
20,720	6,851	27,571	0.641	1.254	0.706	23.0	2003
1,987	11,950	13,937	0.696	1.062	0.676	25.2	2004
-4,786	7,241	2,455	0.684	0.984	0.639	29.8	2005
-9,249	2,109	-7,140	0.714	0.920	0.655	35.8	2006
-6,357	4,874	-1,484	0.704	0.940	0.666	34.5	2007
-11,934	5,062	-6,871	0.745	0.884	0.675	33.7r	2007
-11,934 -9,612	3,319	-6,293	0.745	0.902	0.666	33.1r	2008
-12,868	2,400	-10,468	0.749	0.856	0.670	35.7r	2010
-24,348	5,145	-19,203	0.774	0.692	0.649	35.3r	2011
-26,598	1,055r	-25,543	0.879	0.647	0.762	41.5r	2012
-25,293	-2,022	-27,315	0.909	0.625	0.833	45.3	2013

<sup>(5)</sup> A minus (-) signifies that in that particular year imports were greater than exports.

# **3.1.2** Inland deliveries of petroleum $^{(1)(2)}$

Deliveries				energy uses	liveries for	De			Total	
for non-	Total for		Fuel	Gas		Aviation			. Otal	
energy	energy	Petroleum	oils	oil	Burning	turbine	DERV	Motor		
uses	uses (5)	gases	(4)	(3)	oil	fuel	fuel	spirit		
10.13	87.05	3.54	42.12	11.56	2.48	3.25	5.04	14.24	97.18	1970
10.13	88.04	3.84	42.74	12.13	2.57	3.67	5.19	14.96	98.17	1971
10.68	94.21	4.08	44.85	14.56	2.93	3.93	5.25	15.90	104.89	1972
11.59	95.25	4.43	43.40	14.60	3.18	4.20	5.66	16.93	106.84	1973
11.86	88.53	3.80	40.71	13.12	2.78	3.69	5.52	16.48	100.39	1974
9.44	79.41	3.51	33.81	12.61	2.63	3.83	5.41	16.13	88.85	1975
10.11	77.81	3.85	30.90	12.53	2.62	3.99	5.59	16.88	87.92	1976
9.72	79.28	3.88	30.74	13.38	2.62	4.17	5.71	17.34	89.00	1977
9.40	81.16	3.84	31.50	13.19	2.65	4.51	5.88	18.35	90.56	1978
9.53	81.56	3.88	30.95	13.49	2.70	4.67	6.06	18.69	91.09	1979
7.00	70.50	3.52	22.69	11.62	2.10	4.69	5.85	19.15	77.50	1980
7.55	64.15	3.15	18.64	10.93	1.91	4.50	5.55	18.72	71.70	1981
7.60	65.19	3.45	19.16	10.50	1.75	4.47	5.73	19.25	72.79	1982
8.02	61.75	3.84	15.03	9.88	1.66	4.57	6.18	19.57	69.77	1983
8.18	78.61	3.79	30.26	9.92	1.71	4.83	6.76	20.23	86.79	1984
8.48	66.48	3.15	18.19	9.71	1.87	5.01	7.11	20.40	74.96	1985
9.36	65.26	3.46	14.64	9.22	2.02	5.50	7.87	21.47	74.62	1986
9.40	63.52	3.45	11.90	8.51	2.03	5.82	8.47	22.18	72.92	1987
10.00	67.80	3.62	13.83	8.39	1.99	6.20	9.37	23.25	77.80	1988
9.88	68.97	3.88	13.14	8.26	1.94	6.56	10.12	23.92	78.85	1989
9.17	70.61	3.88	14.02	8.03	2.06	6.59	10.65	24.31	79.78	1990
9.95	70.61	4.00	14.17	8.02	2.38	6.18	10.69	24.02	80.56	1991
10.63	70.92	3.84	13.74	7.86	2.47	6.67	11.13	24.04	81.55	1992
10.73	71.45	4.05	13.13	7.78	2.63	7.11	11.81	23.77	82.18	1993
11.18	70.04	4.06	11.73	7.70	2.66	7.11	12.91	22.84	81.22	1994
11.32	68.85	4.26	10.30	7.25	2.77	7.26	13.46	21.95	80.17	1995
11.29	70.72	4.55	9.15	7.65	3.34	8.05	14.37	22.41	82.01	1996
10.95	68.30	4.22	6.25	7.38	3.34	8.41	14.98	22.25	79.25	1997
10.69	67.75	4.05	5.35	7.31	3.57	9.24	15.14	21.85	78.44	1998
10.73	67.24	3.97	4.45	6.73	3.63	9.94	15.51	21.79	77.97	1999
10.05	67.14	3.99	3.35	6.81	3.84	10.81	15.63	21.40	77.20	2000
8.89	67.53	3.76	4.26	6.60	4.24	10.61	16.06	20.94	76.41	2001
9.67	66.56	3.84	3.77	5.94	3.58	10.52	16.93	20.81	76.23	2002
10.41	66.74	3.90	3.56	6.24	3.57	10.76	17.71	19.92	70.23 77.15	2002
10.58	68.48	4.11	3.74	5.97	3.95	11.64	18.51	19.48	79.07	2004
10.44	70.66	4.19		6.83		12.50	19.38	18.85	81.10	2005
9.76	70.02	4.19	3.78 3.25	6.31	3.87 4.02	12.64	20.16	18.09	79.77	2005
7.97	69.46	3.88	3.23	6.12	3.63	12.57	21.04	17.61	77.42	2007
7.78r	67.38r	4.16r	2.66r	5.63r	3.68	12.14	20.50	16.54	75.16r	2008
7.24r	64.01r	3.83r	2.11r	5.03r	3.73	11.53	20.11	15.61	71.25r	2009
7.02r	63.57r	4.06	1 90-	5.06r	4.01	11.12	20.74	14.60	70.58r	2010
6.95r	63.57r 61.81r	4.06 4.01r	1.89r	5.06i 4.76r	3.29	11.12	20.74	13.89	70.56r 68.76r	2010
			1.41r							2011
6.00r 6.23	61.07r 59.88	3.43r 3.11	1.05r 0.91	4.99r 4.63	3.33 3.46	11.22 11.08	21.54 21.93	13.23 12.57	67.07r 66.11	2012

<sup>(1)</sup> Aggregate monthly and quarterly data on inland deliveries of oil products are available - see Chapter 3, paragraph 3.71 and Annex C.

<sup>(2)</sup> This table has been revised from previous editions to be fully compliant with the commodity balances format used in Chapter 3, Tables 3.2 to 3.4. This has involved adding in the refinery fuel elements into the above product totals, and an adjustment to the data for fuels used by the iron and steel industry as detailed in footnote (6) below.

<sup>(3)</sup> Other than DERV fuel. From 1999 includes marine diesel oil.

# 3.1.2 Inland deliveries of petroleum (1)(2) (continued)

	Millior		Final user			1100	industry ı	Enorm	
	Other	5	rillai usei			Other energy	ilidustry t	Energy	
	final			Other	Iron &	industry uses		Gas	Electricity
	users <i>(7)</i>	Domestic	Transport	industries	steel	(6)	Refineries		generators
1970	8.59	3.05	25.00	21.55	1.42	4.25	6.03	4.56	12.60
1970	8.67	3.01	26.07	21.55	1.32	3.97	6.18	2.59	14.68
1971	8.91	3.48	27.14	22.14	1.26	3.78	6.42	2.21	18.87
1972	9.00	3.80	28.96	22.14	1.25	3.74	7.05	2.32	16.95
1973	7.95	3.38	27.92	19.82	1.01	3.02	6.95	1.28	17.21
1974	7.93 7.93	3.27	27.57	17.89	0.83	2.48	6.03	0.59	12.82
1976	7.80	3.27	28.60	18.06	0.83	2.48	6.34	0.25	10.18
1977	8.60	3.31	29.37	18.06	0.74	2.21	6.24	0.16	10.10
1977	8.24	3.26	30.87	17.55	0.74	2.12	6.42	0.16	11.64
1978	8.27	3.21	31.58	17.62	0.71	2.14	6.49	0.42	11.04
1980	7.01	2.55	31.74	14.51	0.40	1.19	6.27	0.31	6.52
1980	6.65	2.33	30.63	12.67	0.40	1.00	5.45	0.25	4.86
1981	6.28	2.15	31.31	11.64	0.33	0.89	5.55	0.23	6.87
1983	6.00	2.14	32.25	10.23	0.36	0.77	5.30	0.16	4.65
1984	6.00	2.14	33.82	9.39	0.21	0.63	5.35	0.16	20.91
1985	5.65	2.20	34.46	8.43	0.21	0.52	5.18	0.15	9.72
1986	5.36	2.32	36.66	9.02	0.17	0.50	5.40	0.13	5.66
1987	4.67	2.21	38.22	7.36	0.17	0.42	5.05	0.09	5.36
1988	4.67	2.13	40.62	8.23	0.14	0.55	5.29	0.06	6.07
1989	4.21	2.13	42.54	7.52	0.18	0.56	5.62	0.05	6.17
1990	4.11	2.22	43.45	7.03	0.18	0.53	5.07	0.05	7.98
1991	4.17	2.52	42.86	7.49	0.18	0.53	5.26	0.05	7.56
1992	4.22	2.58	43.79	7.13	0.17	0.51	4.16	0.04	8.32
1993	4.21	2.71	44.56	7.17	0.21	0.64	5.89	0.04	6.02
1994	4.03	2.70	44.82	7.47	0.22	0.67	6.04	0.05	4.04
1995	3.69	2.70	44.81	6.41	0.21	0.62	5.99	0.05	4.37
1996	3.65	3.17	46.64	6.41	0.09	0.65	6.50	0.05	3.57
1997	3.12	3.06	47.32	5.68	0.11	0.57	6.16	0.05	2.24
1998	2.92	3.20	47.92	5.75	0.08	0.27	6.18	0.05	1.40
1999	2.47	2.85	48.85	5.28	0.06	0.98	5.54	0.05	1.17
2000	2.11	2.92	49.45	5.35	0.14	0.90	5.25	0.04	0.98
2000	2.32	3.18	49.45 49.11	5.98	0.14	0.82	5.25	0.04	0.98
2001	1.66	2.78	49.11	5.62	0.08	0.82	5.68	-	0.97
2002		2.76		6.25	0.08	0.38		-	
	1.05		50.29				5.46	-	0.54
2004	1.32	2.94	51.55	6.27	0.03	0.36	5.42	-	0.59
2005	1.62	2.78	52.77	5.92	0.02	0.33	5.60	-	1.26
2006	1.40	2.93	53.33	5.50	0.02	0.29	4.88	-	1.24
2007	1.41	2.59	53.49	5.43	0.06	0.26	4.68	-	1.13
2008 2009	1.30 1.15	2.73 2.71	50.88r 48.87r	5.46r 4.73r	0.01 0.01	0.27 0.12	4.71 4.30	-	1.58 1.56
2009	1.15	2.71	40.071	4.731	0.01	0.12	4.30	-	1.50
2010	1.15	3.08	48.07r	5.06r	0.01	0.07	4.38	-	1.14r
2011	1.25	2.40	48.05r	4.11r	0.00	0.07	4.59	-	0.72
2012	1.17	2.43	47.51r	4.18r	0.00	0.08r	4.30r	-	0.69r
2013	1.11	2.49	47.10	4.06	0.00	0.06	3.77	_	0.55

<sup>(4)</sup> Includes Orimulsion from 1989. Imports / deliveries of Orimulsion ceased in February 1997.

<sup>(5)</sup> Includes aviation spirit, naphtha (LDF) for gasworks and wide cut gasoline.

<sup>(6)</sup> Use of gas oil & fuel oil by iron & steel industry in blast furnaces. Data from 1999 provided by the Iron & Steel Statistics Bureau and include estimates of fuel used to generate heat that is sold to third parties.

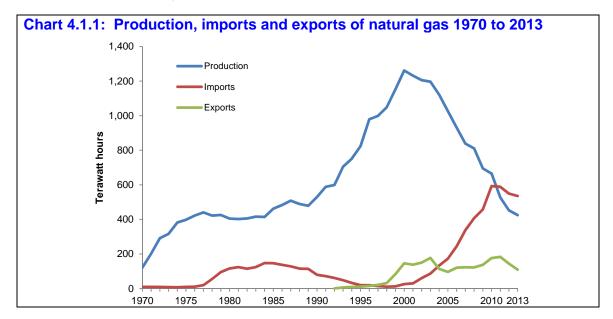
<sup>(7)</sup> Mainly agriculture, public administration, commerce and other services.

# **Chapter 4: Long term trends**

### Gas

#### Natural gas and colliery methane production and consumption (Table 4.1.1)

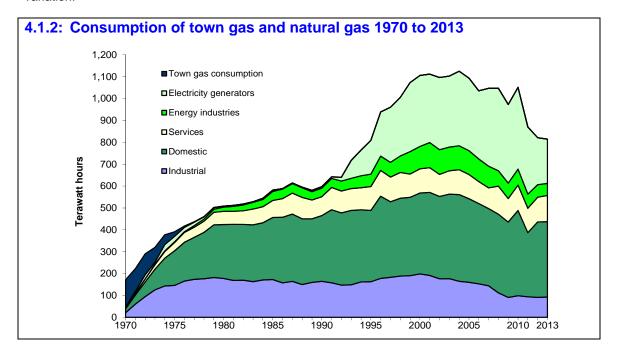
- 4.1.1 Table 4.1.1 shows data for production, imports, exports, and the consumption of natural gas and colliery methane by major sector in each year from 1970 to 2013. Separate figures are shown for consumption of town gas and methane. Total consumption in Table 4.1.1 is defined to match the definition of gas consumption used in the gas tables before the 1999 Digest. This enables a consistent long term series to be presented.
- 4.1.2 Chart 4.1.1 illustrates the data in Table 4.1.1. It shows how the supply of natural gas became established during the first part of the 1970s. Thereafter, the supply of natural gas continued to grow less rapidly, with indigenous production bolstered from 1977 by imports from the Norwegian sector of the North Sea. By 1998 imports had fallen to only 7 per cent of their peak in the mid-1980s. This was due to both the depletion of the (mainly Norwegian) Frigg field (which ceased production in October 2004), along with the resurgence of UK production, which achieved a new record each year from 1989 to 2000. Since 2000, UK production has fallen by over 65 per cent, as UK reserves deplete.
- 4.1.3 The first exports of natural gas were seen in 1992 from the United Kingdom's share of the Markham gas field to the Netherlands. In 1995, these were supplemented by the first exports to the Republic of Ireland, followed by the start of gas exports from the Windermere field via the Markham field during 1997, and exports via the UK-Belgium interconnector during 1998. By 2000, exports were almost six times the volume of imports. This pattern has now reversed: by 2013, imports were nearly five times the volume of exports.



4.1.4 In October 2001, new gas supplies began to arrive from the Norwegian sector of the North Sea via the newly commissioned Vesterled pipeline. In December 2003 imports re-commenced from the UK/Norway trans-median line Statfjord field. These additional supplies of gas from the Norwegian sector of the North Sea saw the UK become a net importer of gas in 2004 for the first time since 1996. In 2005, imports of liquefied natural gas (LNG) via the Isle of Grain import/storage facility began increasing UK net imports. In October 2006, the first gas flowed through the Langeled pipeline giving the UK additional access to Norwegian gas fields. Also in October 2006, the compressors at Zeebrugge were upgraded increasing the import capacity through UK-Belgium interconnector. In December 2006, a second interconnector from Balgzand in the Netherlands to Bacton gave the UK access to the Dutch Continental Shelf. In 2007 three new fields, Chiswick, Grove and Minke, joined Markham and Windermere in exporting gas directly to the Netherlands. 2007 also saw gas exports to

Norway, ie UK gas from the Blane field to the Norwegian Ula field for injection into the Ula reservoir. In 2008 additional direct exports of gas to the Netherlands began from the new Stamford field.

- 4.1.5 In 2009, two new LNG import facilities became operational. As a result, LNG's share of total gas imports rose from 25 per cent in 2009 to 35 per cent in 2010, and to 47 per cent in 2011. Strong competition from the global market for LNG resulted in a drop back from this peak, with LNG comprising 19 per cent of imports in 2013.
- 4.1.6 Chart 4.1.2 shows where natural gas has been consumed. The bulk of the rapid growth in consumption in the 1970s was in the domestic and industrial sectors. Industrial use of gas has fallen recently, and by 2013 was less than half that in 2000. Between 1980 and 2004, gas consumption by the service sector (see Table 4.1.1 for definition) increased by almost 90 per cent and has remained reasonably stable beyond that. Domestic gas use has been between 300 and 400TWh since the mid-1980s. Over the past five years, domestic gas use has been strongly influenced by UK temperature variation.



- 4.1.7 The largest increase in gas consumption occurred in the 1990s with the growth of gas fired generation. Gas use for generation grew from 6.5 TWh in 1990 to 324.6 TWh in 2000. However, since 2010, gas use for electricity generation has dropped by 46 per cent. This reflects a shift from gas to coal, brought about by more favourable coal prices. Overall consumption of natural gas continues to fall from its peak in 2004, and in 2013 was 28 per cent below this peak.
- 4.1.8 A more detailed examination of historical gas statistics was published in the December 2001 issue of Energy Trends. This looked at trends since 1882 in gas production, gas consumption and fuel used in the past to manufacture gas. The updated data set on which the article is based is available on the DECC web site at: <a href="www.gov.uk/government/collections/gas-statistics#historical-data">www.gov.uk/government/collections/gas-statistics#historical-data</a>. The original article is available on request from DECC.
- 4.1.9 Analysis of gas statistics from 1948 to 2008 can also be found in chapter 4 of the DUKES: 60<sup>th</sup> anniversary article, available at:

www.gov.uk/government/collections/digest-of-uk-energy-statistics-dukes#60th-anniversary

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# 4.1.1 Natural gas and colliery methane production and consumption 1970 to 2013

									GWh
	Prod	uction	Imports	Exports	Total fo	or consumpt	ion	Dom	nestic
	Town gas (1)	Methane	Methane (3)	Methane	Total	Town	Methane (2)	Town	Methane
1970	49,617	121,712	9,759	_	171,564	gas 125,933	45,631	gas 85,430	18,376
1970	24,882	201,712	9,739	-	222,616	104,245	118,371	73,502	41,675
1972	17,848	291,078	8,968		290,287	95,834	194,453	64,974	67,172
1972	21,336	317,132	8,587	_	319,917	68,286	251,631	46,598	94,515
1974	12,221	382,253	7,122	_	377,388	44,840	332,548	30,450	127,339
1975	5,393	397,932	9,818	_	391,250	20,984	370,237	14,507	158,141
1976	1,700	421,700	11,254	_	417,655	6,272	411,120	4,250	177,279
1977	762	440,544	19,548	_	436,793	2,051	434,742	1,290	191,844
1978	615	422,257	55,361	_	460,297	938	459,359	557	212,242
1979	674	425,832	95,424	_	502,382	1,055	501,327	586	240,465
1070	07.1	120,002	00, 12 1	_	002,002	1,000	001,027	000	210,100
1980	586	404,760	116,291	_	508,684	909	507,775	557	246,766
1981	557	401,742	124,262	_	512,112	791	511,321	469	256,379
1982	557	405,815	115,001	_	518,149	674	517,475	410	255,118
1983	586	416,454	124,497	_	528,642	528	528,114	322	259,661
1984	557	414,314	147,415	_	544,584	498	544,086	293	261,507
1985	498	461,851	147,122	_	581,717	469	581,248	293	283,517
1986	440	483,040	137,099	-	588,691	410	588,281	234	299,929
1987 <i>(4)</i>	322	508,126	128,893	-	614,247	322	613,925	147	307,578
1988	88	489,133	115,441	-	594,766	88	594,678	29	300,515
1989	-	478,931	113,770	-	580,522	-	580,522	-	290,557
1990	-	528,843	79,833	-	597,046	-	597,046	-	300,410
1991	-	588,822	72,007	-	641,763	-	641,763	-	333,963
1992	-	598,761	61,255	620	640,818	-	640,818	-	330,101
1993	-	703,971	48,528	6,824	717,357	-	717,357	-	340,162
1994	-	751,588	33,053	9,557	764,667	-	764,667	-	329,710
1995	-	823,336	19,457	11,232	808,786	-	808,786	-	326,010
1996	-	979,019	19,804	15,203	938,848	-	938,848	-	375,841
1997	-	998,871	14,062	21,666	960,243	-	960,243	-	345,532
1998	-	1,048,859	10,582	31,604	1,005,306	-	1,005,306	-	355,895
1999	-	1,152,635	12,862	84,433	1,072,963	-	1,072,963	-	358,066
2000	-	1,260,656	26,032	146,342	1,105,537	-	1,105,537	-	369,909
2001	-	1,231,263	30,464	138,330	1,111,729	-	1,111,729	-	379,426
2002	-	1,205,405	60,493	150,731	1,096,267	-	1,096,267	-	376,372
2003	-	1,197,030	86,298	177,039	1,102,774	-	1,102,774	-	386,486
2004	-	1,121,257	133,033	114,112	1,124,996	-	1,124,996	-	396,411
2005	-	1,025,989	173,328	96,181	1,093,331	-	1,093,331	-	381,879
2006	-	930,538	244,029	120,591	1,035,325	-	1,035,325	-	366,928
2007	-	838,809	338,026	123,158	1,046,817	-	1,046,817	-	352,868
2008	-	810,390r	407,188r	122,670	1,083,378r	-	1,083,378r	-	359,554
2009	-	694,687r	457,447r	137,100	1,002,800r	-	1,002,800r	-	344,499r
2010	-	665,182r	592,554r	176,399	1,083,038r	-	1,083,038r	-	389,595
2011	-	526,711r	588,475r	183,689	899,743r	-	899,743r	-	293,400
2012	-	452,696r	549,518r	144,023	852,331r	-	852,331r	-	345,080r
2013	-	424,757	535,105	109,664	843,511	-	843,511	-	344,501

<sup>(1)</sup> In most years production of town gas is less than consumption because of transfers into town gas of North Sea and imported methane.

<sup>(2)</sup> Includes colliery methane.

<sup>(3)</sup> Before 1977 imports were of liquefied natural gas. These imports continued until the early 1980s.

<sup>(4)</sup> From 1987 data for industrial use of gas exclude gas used for electricity generation within industry (see Chapter 1, paragraph 1.27).

# 4.1.1 Natural gas and colliery methane production and consumption 1970 to 2013 (continued)

GWh				umntion	Analysis of cons		
	(7)	Services	arav	Other end	Electricity		Industrial
	(7)	Services		industries	generators	(3)	muusmai
	Methane	Town	Methane	Town	Methane	Methane	Town
	Wictiano	gas	(2)	gas (8)	(2)	(2)	gas
1970	3,428	19,812	1,160	- gao (0)	1,858	20,808	20,691
1971	7,531	18,669	926	_	7,808	60,431	12,075
1972	13,423	17,438	633	_	18,563	94,662	13,423
1973				-			
1973	20,369	12,514	2,743 3,094	-	8,453 28,967	125,552	9,173
	29,806	8,646		-		143,341	5,744
1975	37,542	3,898	3,241	-	25,245	146,067	2,579
1976	45,132	1,231	3,563	-	19,501	165,644	791
1977	46,131	410	7,637	-	15,310	173,820	352
1978	50,906	205	9,952	-	10,006	176,253	176
1979	57,382	264	14,143	=	7,104	182,232	205
				-			
1980	60,373	205	19,096	-	4,027	177,513	147
1981	59,874	176	22,320	-	4,174	168,574	147
1982	62,190	176	26,657	-	3,793	169,717	88
1983	72,154	147	30,819	-	2,357	163,123	59
1984	73,238	147	33,193	-	5,317	170,831	59
1985	77,781	147	41,135	-	5,873	172,941	29
1986	85,166	147	43,421	-	2,269	157,496	29
1987	95,746	147	43,743	-	2,415	164,442	29
1988	97,712	59	44,109	-	2,407	149,935	-
1989	86,204	-	37,850	-	6,210	159,701	-
1990	86,369	-	39,159	-	6,513	164,595	-
1991	101,746	-	41,472	-	6,650	157,932	-
1992	99,871	-	45,660	-	17,969	147,218	-
1993	99,819	-	47,006	-	81,848	148,522	-
1994	100,836	-	54,700	-	117,606	161,815	-
1995	109,020	_	56,565	-	154,393	162,797	-
1996	117,908	_	65,336	-	201,969	177,794	-
1997	112,777	_	67,245	-	251,822	182,867	-
1998	117,624	_	75,459	_	267,733	188,595	_
1999	106,487	_	102,502	_	315,493	190,415	_
2000	110,456	_	102,103	_	324,563	198,506	_
2001	113,111	_	114,653	_	312,939	191,600	_
2002		-		-			-
	100,833	-	113,047	-	329,847	176,168	-
2003	106,733	-	108,197	-	324,580	176,778	-
2004	113,475	-	109,584	-	340,824	164,702	-
2005	110,791	-	108,709	-	331,658	160,295	-
2006	100,654	-	103,270	-	311,408	153,065	-
2007	94,827	-	98,946	-	355,878	144,298	-
2008	128,133r	-	95,251r	-	376,810	123,630r	-
2009	107,492r	-	92,904r	-	359,303	98,601r	-
2010	115,912r	-	96,285r	-	373,586	107,659r	-
2011	111,198r	-	87,088r	-	307,140	100,918r	-
2012	112,894r	-	82,159r	-	214,638r	97,560r	-
2013	119,749	<u>-</u>	77,669	<u>-</u>	202,325	99,267	-

<sup>(5)</sup> Industrial consumption in Chapter 4, Tables 4.1 and 4.2 plus use in coke manufacture and blast furnaces and non energy gas use.

<sup>(6)</sup> Energy industry use in Chapter 4, Tables 4.1 and 4.2 less use in coke manufacture and blast furnaces plus gas transferred to heat for sale.

<sup>(7)</sup> Public administration, commercial, agriculture and miscellaneous in Chapter 4, Tables 4.1 and 4.2.

<sup>(8)</sup> Town gas consumption by the energy industries is included with the industrial sector.

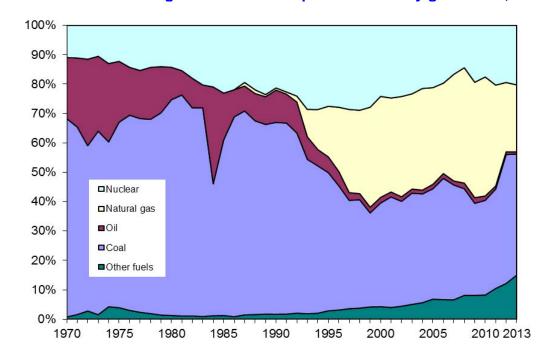
# **Chapter 5: Long term trends**

## **Electricity**

#### Fuel input for electricity generation (Table 5.1.1)

- 5.1.1 This table extends the series shown in Table 5.3 of Chapter 5 of the main Digest back to 1970. For the period up to 1987, only fuel inputs for electricity generation at stations owned by the major power producers, transport undertakings, and industrial hydro-electric and nuclear power stations are given; data for conventional thermal electricity generated by industrial producers are not available for this period. From 1987 onwards the table covers all generating companies. Trends in percentage shares of electricity generation are shown in Chart 5.1.1.
- 5.1.2 In 1970, coal provided over two thirds of the fuel input for electricity generation, oil made up two thirds of the rest. By 1999, coal's share had fallen to 32 per cent. Making up for station unavailability and substituting high priced gas since, its share recovered to 38 per cent in 2001 and continued to rise as gas prices rose making coal more attractive to purchase. During 2013, coal's share in the generation mix decreased by 3 percentage points on the 2012 share of 39 per cent. This was due to several major power producing plants closing down under the Large Combustion Plant Directive and an increase in renewable generation.
- 5.1.3 Oil use peaked in 1972 at 29 per cent of fuel input, but fell after the oil supply crisis in 1973, briefly rising during the 1984/85 coal miners' dispute. Since then it has become the minority fuel representing 0.6 per cent in the 2013 electricity generation mix.
- 5.1.4 Between 1975 and 1990, a European Community directive limited the use of natural gas in public supply power stations. During the 1990s, gas use in electricity generation grew, its share rising from 2 per cent to 35 per cent in 2005 but has since declined due to high gas prices.
- 5.1.5 Nuclear generation grew from 11 per cent in 1970, peaking at 29 per cent of input in 1998. Outages and older station closures reduced this, stabilizing at around 20 per cent between 2011 and 2013. Since the early 1990s, the share of other low carbon fuels in the generation mix has grown, from 1.7 per cent in 1990 to 15 per cent in 2013, as renewables generation increases<sup>1</sup>.

Chart 5.1.1 Percentage shares of fuel input for electricity generation, 1970 to 2013



<sup>&</sup>lt;sup>1</sup> Further information can be found in the long term trends chapter 6, which focuses on renewables.

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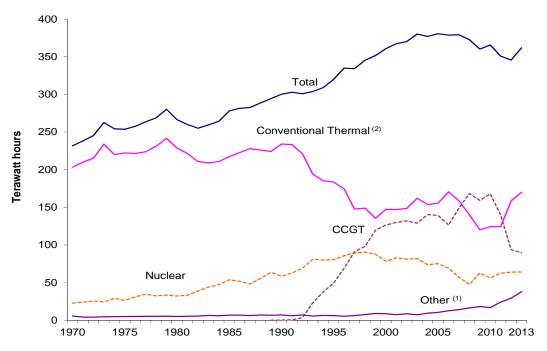
#### Electricity supply, availability and consumption (Table 5.1.2)

- 5.1.6 Figures for the supply, availability and consumption of electricity are given in Table 5.1.2. This table retains the nomenclature of electricity chapters in the 1999 and earlier Digests, whereas the balance methodology has introduced a new nomenclature (see Chapter 5 of the main Digest, paragraph 5.33 and Table 5.5). The series in Table 5.1.2 are extended back to 1970.
- 5.1.7 Virtually all electricity came from the UK until the France-England interconnector opened in 1986. Net imports from France provided over 5 per cent of electricity available in 1994. By 2002 the proportion of imports fell, as did electricity prices, removing French electricity's previous cost benefits. In 2003, exports to continental Europe increased, due to higher electricity prices there, reducing net imports to 0.6 per cent of electricity available but increased to 4.1 per cent in 2013 as electricity produced in the UK declined from 376.5 TWh in 2003 to 337.3 TWh in 2013.
- 5.1.8 Industrial electricity consumption accounted for nearly 40 per cent of consumption in 1970, decreasing gradually to 30 per cent in 2013.
- 5.1.9 The domestic sector's share of total consumption was around 40 per cent during the 1970's, declining to just over one third in the 1980's and has remained around those levels since then.
- 5.1.10 The biggest growth in consumption has been in the services sector, its share of consumption rising gradually from 21 per cent in 1970 to 33 per cent in 2013.

#### **Electricity generated and supplied (Table 5.1.3)**

- 5.1.11 Figures for the generation and supply of electricity are given in Table 5.1.3. This table retains the nomenclature of electricity chapters in the 1999 Digest and earlier, whereas the balance methodology has introduced a new nomenclature (see Chapter 5 of the main Digest, paragraph 5.33 and Table 5.4). Data are given for major power producers, for other generators and for all generators in total, with separate series for the different types of power station.
- 5.1.12 Total gross electricity supplied has gradually increased since 1970 and first peaked in 2003 at 380.1 TWh. Over the long term, this has been the result of the increase in electricity supplied by nuclear stations and the introduction of electricity of supplied by combined cycle gas turbines plants (CCGTs) from 1990. In the short term, there was also a sharp increase of 13.6 TWh of electricity supplied by conventional thermal plants on 2002. From 2003, total gross electricity supplied declined to 361.6 TWh in 2013 due to less supply from CCGT plants.
- 5.1.14 In 1970, conventional thermal power stations produced 88 per cent of gross electricity supplied; output peaked in 1990 before falling due to new generating technologies developing. Nuclear generation supplied only 10 per cent of total gross electricity by UK generators in 1970 but by 1993 accounted for 27 per cent. Since then nuclear's share has generally seen a downward trend due to the growth of supply from CCGT plants. In 2013, electricity supplied by nuclear plants was 18 per cent (64.1 TWh) of total gross electricity supplied.
- 5.1.15 The share of non-thermal renewables' of electricity supplied has varied between 1 to 4 per cent in since 1970. However, the share has increased by 2 percentage points year-on-year since 2010 and represented 10 per cent of total gross electricity supplied during 2013, the highest share recorded mainly caused by large expansion in wind generation capacity.

Chart 5.1.2: Gross electricity supplied by all generating companies by type of plant, 1970 to 2013



- (1) Other is hydro, wind and other non-thermal renewable sources(2) Includes electricity supplied by gas turbines, oil engines and thermal renewable sources

5.1.16 A more detailed examination of historical electricity statistics was published as an article in the September 2002 issue of Energy Trends. This looked at trends in the generation, supply and consumption of electricity over the last 80 years. The updated data set on which the article is based is available on the DECC energy statistics website at: www.gov.uk/government/collections/electricity-statistics#historical-data. The original article is available on request from DECC.

5.1.17 Analysis of electricity statistics from 1948 to 2008 can also be found in chapter 5 of the DUKES: 60<sup>th</sup> anniversary article, available at:

www.gov.uk/government/collections/digest-of-uk-energy-statistics-dukes#60th-anniversary

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electricitystatistics@decc.gsi.gov.uk

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	Total	Coal	Oil (1)	Natural		Electricity		Coke	Other	OI 147 :
	all		- ( )	gas (2)	Nuclear	Natural flow	Wind (3)	and	fuels (4)	Shannon-Weiner measure of
	fuels			0 ()		hydro (3)	. ,	breeze		diversity
1070	62.04	42.07	42.07	0.11	7.00	0.20				0.00
1970	63.84	43.07	13.27	0.11	7.00	0.39	-	- 0.44	-	0.88
1971	66.46	42.42	15.63	0.64	7.37	0.29	-	0.11	-	0.95
1972	68.37	38.47	20.13	1.61	7.87	0.29	-	- 0.44	-	1.05
1973	70.93	44.30	18.09	0.64	7.46	0.33	-	0.11	-	0.96
1974	69.01	38.71	18.41	2.46	8.97	0.35	-	0.11	-	1.10
1975	66.25	41.85	13.70	2.14	8.12	0.33	-	0.11	-	1.02
1976	66.97	44.49	10.92	1.61	9.56	0.39	-	-	-	0.96
1977	69.32	45.71	11.35	1.28	10.64	0.34	-	-	-	0.96
1978	69.64	46.05	12.31	0.86	9.96	0.35	-	0.11	-	0.95 0.90
1979	72.80	50.10	11.45	0.54	10.23	0.37	-	0.11	-	0.90
1980	69.46	51.01	7.67	0.42	9.91	0.34	-	0.11	-	0.81
1981	65.98	49.64	5.46	0.21	10.18	0.38	-	0.11	-	0.77
1982	65.98	46.75	6.64	0.21	11.88	0.39	-	0.11	-	0.84
1983	66.37	47.16	5.14	0.21	13.47	0.39	-	-	-	0.81
1984	69.18	31.07	22.80	0.42	14.50	0.39	-	-	-	1.11
1985	71.54	42.81	11.35	0.54	16.50	0.34	-	-	-	1.00
1986	70.46	47.91	6.51	0.18	15.44	0.41	-	-	-	0.89
1987 <i>(5)</i>	70.50	50.37	5.14	0.19	14.44	0.36	-	-	-	0.80
1987 (5)	74.31	51.58	6.30	0.91	14.44	0.36	=	-	0.72	0.91
1988	75.57	49.83	7.01	0.97	16.57	0.42	-	-	0.77	0.96
1989	75.27	48.59	7.11	0.54	17.74	0.41	-	-	0.88	0.96
1990	76.34	49.84	8.40	0.56	16.26	0.44	_	_	0.84	0.97
1991	76.87	49.98	7.56	0.57	17.43	0.39	-	_	0.94	0.96
1992	76.57	46.94	8.07	1.54	18.45	0.46	-	_	1.09	1.05
1993	75.40	39.61	5.78	7.04	21.58	0.37	_	_	1.02	1.20
1994	74.01	37.10	4.11	10.10	21.20	0.44	-	_	1.06	1.23
1995	77.15	36.29	4.15	13.27	21.25	0.40	_	_	1.79	1.28
1996	79.56	33.67	3.87	17.37	22.18	0.29	0.04	_	2.14	1.32
1997	76.76	28.30	2.01	21.74	21.98	0.38	0.06	_	2.29	1.32
1998	81.14	29.94	1.69	23.02	23.44	0.44	0.08	_	2.52	1.31
1999	79.72	25.51	1.54	27.13	22.22	0.46	0.07	-	2.79	1.32
2000	81.21	28.67	1.55	27.91	19.64	0.44	0.08		2.93	1.31
2000	84.01	31.61	1.42	26.87	20.77	0.44	0.08	-	2.93	1.29
2002			1.42	28.33	20.10		0.08	-	3.13	1.30
2002	83.00 85.95	29.63 32.54		27.85	20.10	0.41 0.28	0.11	-	3.13	1.30
2003	84.57	31.31	1.19 1.10	29.25	18.16	0.42	0.17	-	4.15	
2004	86.68							-	5.23	1.31
2005	87.06	32.58	1.31	28.52 26.78	18.37	0.42	0.25	-	5.23	1.34
		35.94	1.43		17.13	0.39	0.36	-		1.33
2007 2008	84.28 82.52r	32.92 29.96	1.16 1.58r	30.60 32.40	14.04 11.91	0.44 0.44r	0.46 0.61r	-	4.68 4.67r	1.31 1.32
2008	78.67r	29.96	1.581	32.40	15.23	0.44r 0.45r	0.80r	-	4.671 4.87r	1.32 1.37r
2010	79.29r	25.56	1.18	32.12	13.93	0.31r	0.88r	-	5.09r	1.35
2011	76.87r	26.03	0.78	26.41	15.63	0.49r	1.35r	-	5.65r	1.40
2012	78.21r	34.33r	0.73r	18.46r	15.21	0.45r	1.81r	-	6.22r	1.39
2013	76.28	31.44	0.59	17.40	15.44	0.40	2.62	-	7.14	1.44

<sup>(1)</sup> Includes oil used in gas turbine and diesel plant or for lighting up coal fired boilers, Orimulsion (until 1997), and refinery gas (from 1987).

<sup>(2)</sup> Includes colliery methane from 1987 onwards.

<sup>(3)</sup> Fuel inputs have been calculated on an energy supplied basis - see explanatory notes at Chapter 5, paragraph 5.74.

<sup>(4)</sup> Main fuels included are coke oven gas, blast furnace gas, waste products from chemical processes, refuse derived fuels and other renewable sources.

<sup>(5)</sup> Data for all generating companies are only available from 1987 onwards, and the figures for 1987 to 1989 include a high degree of estimation. Before 1987 the data are for major power producers, transport undertakings and industrial hydro and nuclear stations only.

# 5.1.2 Electricity supply, availability and consumption

Г	v	v	ı	٦	
•	•	•	•	•	

							E	lectricity co	nsumption		
	Electricity	Purchases	Net	Electricity	Losses in	Total	Fuel		Final users	s <i>(5)</i>	
	supplied	from other	imports	available	transmission		industries	Industrial	Domestic	Other	Total
	(net)	producers	(1)		etc (2)					(3)	
1970	215.76	0.19	0.55	216.50	17.50	199.00	6.59	72.99	77.04	42.38	192.41
1971	222.92	0.53	0.12	223.57	19.01	204.56	6.60	73.43	80.67	43.86	197.96
1972	229.45	0.53	0.48	230.46	18.91	211.55	6.37	73.16	86.89	45.13	205.18
1973	245.42	0.59	0.06	246.07	19.59	226.48	6.67	80.07	91.30	48.44	219.81
1974	237.21	0.60	0.05	237.86	18.22	219.64	6.12	75.81	92.63	45.08	213.52
1975	237.76	0.70	0.08	238.54	19.47	219.07	6.29	75.36	89.21	48.21	212.78
1976	240.22	0.61	-0.10	240.73	18.73	222.00	6.39	80.84	85.12	49.65	215.61
1977	246.82	0.74	-	247.56	20.76	226.80	6.41	82.06	85.90	52.43	220.39
1978	252.65	0.66	-0.08	253.23	21.81	231.42	6.52	84.00	85.80	55.10	224.90
1979	264.34	0.63	-	264.97	22.97	242.00	6.78	87.55	89.67	58.00	235.22
1980	252.02	0.61	-	252.63	21.53	231.11	6.86	79.73	86.11	58.41	224.25
1981	246.60	0.74	-	247.34	20.13	227.21	6.86	77.03	84.44	58.88	220.35
1982	242.48	0.82	_	243.30	20.48	222.82	6.81	73.91	82.79	59.31	216.01
1983	246.15	1.15	_	247.30	21.21	226.09	6.69	74.17	82.95	62.28	219.40
1984	251.47	0.55	-	252.02	21.06	230.96	6.64	78.64	83.90	61.78	224.32
1985	263.56	0.92	_	264.48	22.63	241.85	7.76	79.53	88.23	66.33	234.09
1986(4)	266.81	1.10	4.26	272.17	22.83	249.34	7.68	80.15	91.83	69.68	241.66
1986 <i>(4)</i>	278.48	-	4.26	282.73	22.91	259.82	9.51	88.80	91.83	69.68	250.31
1987	279.71	-	11.64	291.34	22.96	268.38	9.49	93.14	93.25	72.50	258.89
1988	285.71	-	12.14	297.85	23.35	274.50	9.16	97.14	92.36	75.84	265.34
1989	291.75	-	12.63	304.38	24.98	279.40	9.00	99.42	92.27	78.71	270.40
1990	297.50	-	11.91	309.41	24.99	284.42	9.99	100.64	93.79	80.00	274.43
1991	300.65	-	16.41	317.06	26.22	290.84	9.79	99.57	98.10	83.38	281.05
1992	298.55	-	16.69	315.24	23.79	291.45	9.98	95.28	99.48	86.71	281.47
1993	301.87	-	16.72	318.59	22.84	295.75	9.62	96.84	100.46	88.83	286.13
1994	306.94	-	16.89	323.83	31.00	292.83	7.52	96.12	101.41	87.78	285.31
1995	317.63	-	16.61	334.24	30.32	303.92	8.07	101.78	102.21	91.86	295.85
1996	332.36	-	16.76	349.11	29.34	319.78	9.21	107.63	107.51	95.42	310.57
1997	331.63	-	16.57	348.20	27.14	321.07	8.62	108.10	104.46	99.88	312.44
1998	342.70	-	12.47	355.17	29.82	325.35	8.41	108.44	109.41	99.09	316.94
1999	347.67	-	14.24	361.92	29.86	332.05	8.04	112.25	110.31	101.46	324.02
2000	357.27	-	14.17	371.44	31.14	340.30	9.70	115.29	111.84	103.47	330.59
2001	364.17	-	10.40	374.57	32.07	342.50	8.63	112.50	115.34	106.05	333.88
2002	366.66	-	8.41	375.07	30.96	344.11	10.06	110.82	120.01	103.22	334.05
2003	376.53	-	2.16	378.69	32.07	346.62	9.75	109.93	123.00	103.94	336.87
2004	373.40	-	7.49	380.89	33.18	347.71	8.14	112.09	124.20	103.28	339.57
2005	376.78	-	8.32	385.10	27.90	357.20	7.85	116.70	125.71	106.94	349.35
2006	373.86	-	7.52	381.38	27.52	353.86	8.00	115.53	124.70	105.63	345.87
2007	374.06	-	5.22	379.28	27.83	351.45	9.19	113.41	123.08	105.78	342.26
2008	367.18r	-	11.02	378.20r	28.10r	349.53	7.71	114.15	119.80	107.87	341.82
2009	355.31r	-	2.86	358.17r	28.15r	329.42	7.67	99.74	118.54	103.47	321.75
2010	361.39r	-	2.66	364.05r	26.55r	337.08	8.25	104.52	118.84	105.47	328.83
2011	346.99r	-	6.22	353.22r		325.55r	7.66r	102.36r	111.60	103.92	317.89r
2012	341.48r	-	11.87r	353.35r	27.99r	324.88r	7.05r	97.81r	114.76r	105.25r	317.83r
2013	337.33	-	14.43	351.76	26.83	324.36	7.06	98.01	113.45	105.84	317.30

<sup>(1)</sup> Net transfers between the Irish Republic and Northern Ireland (ceased in 1981 and recommenced in 1996)

between France and England (from 1986), the Netherlands and England (from 2011) and the Irish Republic and Wales (from 2012

<sup>(2)</sup> Losses on the public distribution system (grid system and local networks) and other differences between data collected on sales and data collected on availability.

<sup>(3)</sup> Public administration, transport, agricultural and commercial sectors.

<sup>(4)</sup> Data for all generating companies are only available from 1986 onwards. Before 1986 the data are for major power producers, transport undertakings and industrial hydro and nuclear stations only

<sup>(5)</sup> Industry includes some iron and steel consumption that is counted as energy industry use in the main DUKES tables

# 5.1.3 Electricity generated and supplied

GWh

				Ma	ijor power	producer	s (1)				
	-	Electricity			ty supplie					Electricity used	
	generated	used on	Total	Conventional	CCGT	Nuclear		rdro .	Wind	in pumping	Supplied
		works		thermal			Natural	Pumped		at pumped	(net)
				and other (3)			flow	storage		storage stations	(4)
4070	000.070	40.400	045.040	400.475		00.005	0.040	4.400		1 107	044.400
1970		16,429	215,949	188,175	-	22,805	3,846	1,123	-	1,487	214,462
1971	240,080	17,143	222,937	195,181	-	24,013	2,835	908	-	1,209	221,728
1972		17,439	229,404	200,048	-	25,639	2,847	870	-	1,184	228,220
1973		18,157	244,983	216,796	-	24,310	3,214	663	-	882	244,101
1974		17,763	236,925	203,478	-	29,232	3,520	695	-	896	236,029
1975		17,136	237,948	207,159	-	26,463	3,186	1,140	-	1,430	236,518
1976		17,962	240,694	205,048	-	31,153	3,128	1,365	-	1,729	238,965
1977		18,468	247,181	207,904	-	34,660	3,320	1,297	-	1,608	245,573
1978		17,907	252,770	215,761	-	32,462	3,378	1,169	-	1,429	251,341
1979	283,186	18,744	264,442	226,329	-	33,335	3,617	1,161	_	1,424	263,018
1980	269,945	17,765	252,180	215,418	-	32,291	3,298	1,173	-	1,453	250,727
1981	263,658	16,983	246,675	208,589	-	33,191	3,906	989	-	1,196	245,479
1982	259,410	16,940	242,470	198,822	-	38,721	3,873	1,054	-	1,272	241,198
1983	264,589	17,380	247,209	197,600	-	43,911	3,882	1,816	-	2,337	244,872
1984	270,471	17,643	252,828	200,240	-	47,256	3,358	1,974	-	2,613	250,215
1985	284,712	18,903	265,809	205,906	-	53,767	3,435	2,701	-	3,494	262,315
1986	287,330	18,819	268,511	210,452	-	51,843	4,087	2,129	-	2,993	265,518
1987	287,701	18,740	268,961	215,290	-	48,205	3,460	2,006	-	2,804	266,157
1988	293,100	19,341	273,759	211,932	-	55,642	4,160	2,025	-	2,888	270,871
1989	297,890	19,315	278,575	209,169	-	63,602	3,992	1,812		2,572	276,003
1990	302,936	18,632	284,304	219,364	_	58,664	4,384	1,892	_	2,626	281,678
1991	305,704	19,142	286,562	218,260	309	62,761	3,767	1,465	_	2,109	284,453
1992		19,157	284,558	206,245	2,964	69,135	4,579	1,635		2,257	282,301
1993		18,170	287,264	178,773	22,611	80,979	3,513	1,388		1,948	285,316
1994		16,696	290,780	168,321	36,815	79,962	4,265	1,417	_	2,051	288,729
1995		16,510	299,000	164,324	48,525	80,598	4,051	1,502	_	2,282	296,718
1996		14,967	311,268	155,574	65,604	85,820	2,763	1,502	_	2,430	308,838
1997		15,411	308,722	127,961	86,682	89,341	3,299	1,439		2,477	306,245
1998	333,764	16,140	317,624	128,235	93,005	90,590	4,225	1,569	-	2,594	315,030
1999	336,608	15,461	321,147	113,493	112,768	87,672	4,409	2,804	-	3,774	317,373
1000	000,000	10, 101	021,117	110,100	112,700	07,072	1, 100	2,001		0,77	017,070
2000	341,783	14,952	326,831	125,468	116,110	78,334	4,316	2,603	-	3,499	323,332
2001	353,057	16,066	336,991	127,119	121,344	82,985	3,203	2,340	-	3,210	333,781
2002	353,994	15,746	338,248	128,795	121,886	81,090	3,914	2,562	-	3,463	334,785
2003	362,600	16,747	345,853	140,196	118,546	81,911	2,559	2,641	-	3,546	342,308
2004	358,313	15,582	342,732	133,607	128,983	73,682	3,901	2,559	-	3,497	339,235
2005		16,265	345,947	135,999	128,179	75,173	3,821	2,776	-	3,707	342,240
2006		17,031	344,201	151,866	115,695	69,237	3,680	3,722	_	4,918	339,283
2007		16,090	345,227	138,793	137,657	57,249	4,114	3,846	3,569	5,071	340,156
2008		14,662	340,577r	121,816	157,417	47,673	4,209	4,075	5,388r	5,371	335,206r
2009		14,750	327,260r	101,100	148,907	62,762	4,279	3,672	6,540r	4,843	322,417r
0040	0.47.705	4.4.400	222 222	405 440	457.040	FO 440	0.004	2.400	0.444	4.040	200.470
2010		14,403	333,382	105,148	157,818	56,442	2,694	3,139	8,141	4,212	329,170
2011	332,312	14,480	317,832	105,359	129,669	62,655	4,578	2,895	12,675	3,843	313,988
2012		15,868r	312,323r	140,073	84,207	63,949	4,168r	2,956	16,970r	3,978	308,346r
2013	323,704	15,620	308,084	132,968	80,668	64,134	3,596	2,888	23,830	3,930	304,155

<sup>(1)</sup> From 2007, major wind farm companies are included under Major Power Producers, see paragraph 5.67 in the main Digest, (1) From 2007, major with failt companies are included under wajor From 1908.
(2) Electricity generated less electricity used on works.
(3) Includes electricity supplied by gas turbines and oil engines. From 1988 also includes electricity produced by plants using

thermal renewable sources.

# 5.1.3 Electricity generated and supplied

**GWh** Other generators (1) All generating companies Electricity supplied (gross) (2) **Electricity supplied (gross)** Total Conventional CCGT Non-Total Conventional CCGT Nuclear Non-Pumped Electricity thermal thermal thermal thermal supplied storage (net) (4) and renewables and renewables other (3) other (3) (5) (5)15,674 14,996 678 231,623 203,171 22,805 4,524 1,123 230,136 1970 15,388 14,837 551 238,325 210,018 24,013 3,386 908 237,116 1971 15,746 15,175 245,150 215,223 25,639 3,418 870 243,966 1972 571 17,655 17,008 647 262,638 233,804 24,310 3,861 663 261,756 1973 17,222 16,660 562 254,147 220,138 29.232 4.082 695 253,251 1974 1975 3.777 15,766 15,175 591 253,714 222,334 26.463 1.140 252,284 17 013 16 414 599 257 707 221 462 31 153 3 727 1 365 255 978 1976 586 263,615 223,752 34,660 3,906 1,297 262,007 1977 16,434 15,848 16,034 15,387 647 268.804 231,148 32.462 4.025 1,169 267,375 1978 15.720 15.062 658 280.162 241,391 33.335 4.275 1.161 278,738 1979 14,132 13,509 623 266,312 228,927 32.291 3.921 1,173 264,859 1980 4.369 989 1981 13.264 12.801 463 259.939 221,390 33.191 258,743 12 613 11 943 670 255 083 210 765 38 721 4 543 1 054 253 811 1982 12.152 11.486 666 259.361 209.086 43.911 4.548 1.816 257.024 1983 634 47,256 3,992 1,974 261,534 1984 11,319 10,685 264,147 210,925 12,112 11,467 645 277,921 217,373 53,767 4.080 2,701 274,427 1985 12,957 12,278 679 281,468 222,730 51,843 4,766 2,129 278,475 1986 13,551 12.831 720 282,512 228,121 48.205 4,180 2.006 279,708 1987 1988 14.840 14.085 755 288.599 226 017 55 642 4.915 2 025 285.711 15,747 15,007 740 294,322 224,176 63,602 4,732 1,812 291,750 1989 15,824 14,729 280 815 300,128 234,093 280 58,664 5,199 1,892 297,502 1990 1991 16.202 15.056 298 848 302.764 233.316 607 62.761 4.615 1,465 300.655 16.246 14.987 394 865 300.804 221.232 3,358 69.135 5.444 1.635 298.547 1992 16,552 14,979 584 989 303,816 193,752 23,195 80,979 4,502 1,388 301,868 1993 18.207 16.356 738 1,113 308.987 184,677 37.553 79.962 5.378 1,417 306,936 1994 20.909 18.851 933 1,125 319.909 183,175 49.458 80.598 5.176 1.502 317.627 1995 23.519 19.091 3.358 1.070 334.786 174.664 68.962 85.820 3.833 1.507 332.356 1996 4,788 1997 25.384 19.703 4.192 1.489 334.107 147.665 90.874 89.341 1.439 331.630 27,669 20,766 5,157 1,746 345,293 149,001 98,162 90,590 5,971 1,569 342,699 1998 30,299 21,769 6,785 1,745 351,446 135,263 119,553 87,672 6,154 2,804 347,672 1999 33.934 21.926 10.318 1.690 360.765 147.394 126.428 78.334 6.006 2.603 357.266 2000 30.391 20.066 8.531 1 794 367.382 147 185 129.875 82 985 4 997 2 340 364.173 2001 131,935 31,873 19,716 10,049 2,108 370,120 148,511 81,090 6.022 2.562 366,657 2002 10,336 162,138 128,882 2003 34.220 21.942 1.941 380.073 81.911 4.500 2.641 376.528 20,046 11,260 2,859 376,896 153,653 140,243 73,682 6,760 2,559 373,399 2004 34,165 34.539 19.494 11.204 3.842 380.486 155,493 139.382 75.173 7.662 2.776 376,780 2005 10,859 5,121 2006 34.578 18.598 378.779 170.464 126.554 69.237 8.802 3.722 373.861 33,908 19,801 11,471 2,637 379,136 158,594 149,127 57,249 10,320 3,846 374,064 2007 31.974r 18.369r 10.947 2.658r 372.551r 140.185r 168.364 47.673 12.255r 4.075 367.180r 2008 32,888r 18,953r 10,251 3,684r 360,149r 120,053r 159,159 62,762 14,503r 3,672 355,306r 2009 10,079 2,930r 2010 32.219r 19.210r 365.601r 124.357r 167.898 56.442 13.765r 3.139 361.389r 33,005r 18,862r 10,033 4,110r 350,837r 124,221r 139,702 62,655 21,363r 2,895 346,994r 2011 345,461r 2012 33.138 18.427r 9.571 5.140r 158.500r 93.778r 63.949 26.278r 2.956 341.484r

7,712

361,644

8,933

16,533

53,560

149,501

89,601

64,134

<u>35,1</u>39

2,888

357,714

2013

<sup>(4)</sup> Electricity supplied (gross) less electricity used in pumping at pumped storage stations.

<sup>(5)</sup> Natural flow hydro, wind, wave and solar photovoltaics.

# **Chapter 6: Long term trends**

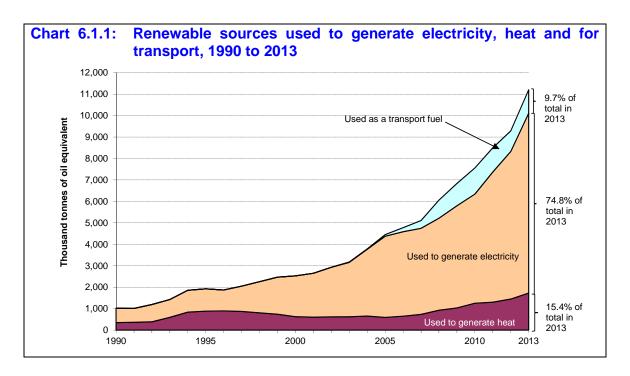
## Renewables

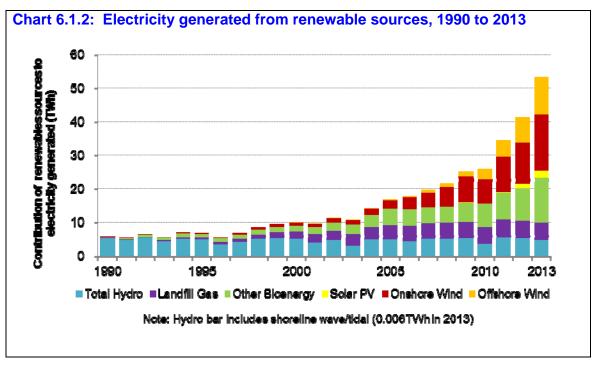
Renewables sources used to generate electricity, heat and for transport; and electricity generated from renewable sources (Table 6.1.1)

- 6.1.1 This table extends the series shown in Tables 6.4 and 6.6 of Chapter 6 of the main Digest back to 1990, the earliest year for which comprehensive data on renewables and wastes are available.
- 6.1.2 The rate of increase in the volume of renewables used is influenced by how fuels are used. Renewable sources used more than doubled between 1990 and 1998, increasing by two-thirds between 1998 and 2004, before doubling between 2004 and 2010. Since then, the use of renewables has grown by around one half.
- 6.1.3 Between 1990 and 1996, the volume of renewables used to generate electricity grew at an average rate of 6½ per cent a year. <sup>1</sup> After 1996, the rate of increase quickened and over the seven years to 2003 it averaged 14½ per cent a year. Between 2003 and 2010, it fell back to an average of 10½ per cent a year. Since then, it has grown at an average of 18½ per cent.
- 6.1.4 Chart 6.1.1 shows the amount of primary renewable sources used for generating electricity, for heat, and as a transport fuel, whilst chart 6.1.2 shows how much electricity was generated from 6 main renewable categories.
- 6.1.5 Between 2000 and 2010, the rate of growth in electricity generated from all renewables averaged 10 per cent a year, which incorporates a smaller (2 per cent) rise between 2009 and 2010, reflecting lower rainfall and wind speeds.
- 6.1.6 Between 2000 and 2010, the main contributors to the growth in electricity generated from renewables were wind (+27 per cent a year on average), landfill gas (+9 per cent a year), small scale hydro schemes (+8 per cent a year), energy from waste (+7 per cent a year), and sewage sludge digestion (+7 per cent a year). Co-firing of biomass with fossil fuels was zero until 2002, but more than doubled each year between 2002 and 2005 before levelling off in 2006; following a decline until 2008, co-firing increased in 2009 and 2010. When combined, electricity generated from all forms of bioenergy increased by an average of 12 per cent a year between 2000 and 2010. Recent years have seen a switch away from co-firing, as the main generators have converted to dedicated biomass.
- 6.1.7 The use of renewables to generate heat reached a peak in 1996 having more than doubled over the previous 6 years. Over the next five years the use of renewables for heat generation declined by one third, mainly because the use of industrial wood declined by over one-half due to the introduction of more stringent emission controls. More recently there has been an increase in renewable heat, due to policy incentives, and between 2000 and 2010, it increased at an average annual rate of 7 per cent, and since 2008 renewable heat use has exceeded the previous peak of 1996.
- 6.1.8 Liquid biofuels for transport were first included in the energy mix through blending with fossil fuels in 2002. There was a steady increase until 2010, when over 1.2 million tonnes of oil equivalent was used. However, falls in biodiesel use reduced the total contribution during the latest three years.
- 6.1.9 More detailed analysis of renewables statistics for 2011 onwards are shown in Chapter 6 of the main Digest.
- 6.2.0 To note that long term trends table 6.1.1 now includes a table showing long term average load factors of renewable technologies, based on an average load factor of the five years ending that year. With the exception of wind, where a longer time-series is available, this begins in 2012 (since the first data point of the annual load factor series on which this is based in table 6.5 in the main Digest is 2008).

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<sup>&</sup>lt;sup>1</sup> The use of primary renewable sources (mainly wind, hydro and solar) is assumed to be equal to the electricity produced whereas biomass sources lose energy during their transformation into electricity. As a result, in years where biomass was increasing, the volume of fuel used would increase by more than in years when wind increased.





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# 6.1.1 Renewable sources used to generate electricity and heat; electricity generated from renewable sources

Wastes	Total					Bioenergy				ro (1)	Hvdr	Solar	Wave and	(1)	Wind	
(7)	10101	Total	Co-firing	Anaerobic	Plant	Animal	Energy	Sewage	Landfill	Large	Small	photo-	Tidal (1)		Onshore	
(*)				Digestion	Biomass	Biomass		sludge fi		scale (2)	scale	voltaics	11001(1)	011011010	Ononoro	
		bloenergy							gas	Scale (2)	Scale	voitaics				
			fuels	(6)	(5)	(4)		digestion c								
							(3)									
41.0	667.5	219.0		0.0			69.8	103.6	45.6	436.8	10.9			electricity	generate o	Used to 1990
					-	-						-	-			
41.4	645.2	246.9		0.1	-	0.5	70.5	107.6	68.2	385.4	12.2	-	-		0.7	1991
50.4	804.4	334.6		0.2	-	17.4	85.9	107.6	123.6	454.1	12.8	-	-		2.8	1992
76.4	830.5	442.0	-	0.2	-	52.3	119.1	123.8	146.6	356.2	13.6		-		18.7	1993
156.3	1,018.3	550.8	-	0.1	-	70.8	192.0	118.3	169.5	424.3	13.6		-		29.5	1994
178.6	1,038.4	588.7		0.1	-	71.2	198.6	134.6	184.3	401.7	14.2		-	-	33.7	1995
184.8	972.7	639.1		0.1	-	67.0	205.3	134.6	232.1	281.6	10.1	-	-		41.9	1996
236.0	1,176.6	760.8		0.0	-	67.8	258.2	133.7	301.1	344.4	14.1	-	-	-	57.4	1997
302.8	1,453.4	938.0	-	-	0.1	76.2	346.5	126.5	388.8	422.3	17.7		-	-	75.4	1998
272.5	1,726.9	1,195.0		-	0.2	156.8	345.0	134.6	558.4	441.0	17.8		-	-	73.1	1999
253.3	1,900.0	1,381.3		-	10.8	182.5	350.1	120.4	717.6	418.8	18.4	0.1	-	0.1	81.3	2000
266.2	2,046.3	1,614.4		-	80.7	205.3	387.1	119.0	822.2	330.7	18.1	0.2	0.0	0.4	82.5	2001
286.1	2,309.9	1,790.0	94.0	-	92.4	184.4	420.2	120.6	878.5	394.2	17.5	0.2	0.0	0.4	107.6	2002
273.8	2,536.7	2,156.1	197.3	3.0	136.7	169.4	445.8	129.3	1,074.5	256.9	12.9	0.3	0.0	0.8	109.7	2003
263.9	3,110.6	2,527.4	335.1	2.9	123.1	179.4	429.5	144.3	1,313.1	392.2	24.3	0.3	0.0	17.1	149.3	2004
262.0	3,781.4	3,107.8	830.7	2.6	129.4	158.9	426.3	152.8	1,407.2	385.0	38.2	0.7	0.0	34.6	215.1	2005
293.7	3,935.6	3,176.4	829.0	3.8	122.9	144.8	479.0	145.9	1,451.1	353.9	41.1	0.9	0.0	56.0	307.3	2006
298.3	4,010.4	3,119.2	576.4	4.9	137.8	217.6	486.8	161.9	1,533.9	391.6	45.0	1.2	0.0	67.3	386.2	2007
310.3	4,289.1r	3,232.7r	487.6r	5.1	242.0r	260.4	506.8	179.9r	1,550.9	395.5	46.9r	1.5	0.0	114.8r	497.7	2008
365.2	4,761.6r	3,511.9r	439.8r	14.3	386.7r	232.0	624.5	197.9r	1,616.7	401.0	48.7r	1.7	0.1	150.8	647.4r	2009
385.1	5,086.8r	3,901.2r	625.2r	36.4r	461.2r	238.9	659.0	228.5r	1,652.0	265.9	40.9r	3.5r	0.2	261.7	613.6r	2010
395.9r	6.068.8r	4.228.7r	763.5r	89.1r	553.7r	224.0	677.8r	250.4r	1,670,1	429.0	59.6r	21.0	0.1	440.7	889.6r	2011
488.5r	6.878.0r	4.616.6r	400.5	163.6r	1.062.3r	225.0	838.9r	235.9r	1,690.3	398.2	56.2	116.1r	0.3	649.1r	1.041.4r	2012
477.5	8.380.6	5,356.3	53.7	231.7	2.079.9	226.4	819.8	249.6	1,695,1	346.2	57.8	175.0	0.5	983.8	1.461.1	2013

	Active				Bi	ioenergy					Deep	Heat	Total	Wastes
	solar	Landfill	Sewage V	Vood	Wood	Animal	Plant	Anaerobic	Energy	Total	geo-	pumps		(12)
	heating	gas	sludge cor	nbus-	combus-	Biomass	Biomass	Digestion	from waste	bioenergy	thermal	(11)		
	-	-	digestion	tion -	tion -	(8)	(9)	(10)	combustion					
			don	nestic	industrial			. ,						
Used to g	enerate	heat												
1990	6.4	34.2	34.6	174.1			71.7	0.2	31.1	345.8	0.8	-	353.1	41.1
1991	6.8	36.3	43.5	174.1		-	71.7	0.2	33.5	359.3	0.8	-	366.9	42.9
1992	7.1	31.5	43.5	204.2	-	-	71.7	0.3	30.8	381.9	0.8	-	389.9	49.1
1993	7.4	15.0	34.0	204.2	236.8	-	71.7	0.3	28.2	590.1	0.8	-	598.3	53.6
1994	7.7	18.9	52.1	204.2	455.1	-	71.7	0.3	29.5	831.8	0.8	-	840.3	60.6
1995	8.1	15.1	58.5	204.2	498.1	-	71.7	0.3	30.5	878.4	0.8	-	887.3	68.3
1996	8.7	16.6	58.5	204.2	505.5	-	71.7	0.3	31.9	888.6	0.8	-	898.1	63.1
1997	8.9	15.5	58.2	204.2	506.1	-	71.7	0.3	9.0	864.9	0.8	-	874.6	52.3
1998	9.1	13.6	54.1	204.2	436.9	-	71.7	0.3	15.2	796.0	0.8	-	805.9	49.6
1999	9.4	13.6		204.2	367.7	-	71.9	0.3	20.2	732.1	0.8	-	742.3	49.3
2000	11.1	13.6	48.3	204.2	254.2	-	71.9	0.3	24.7	617.1	0.8	-	629.0	76.4
2001	13.2	13.6	49.4	204.2	225.2		71.9	0.3	26.2	590.7	0.8	-	604.8	80.7
2002	16.1	13.6	53.4	204.2	225.2		71.9	0.3	33.7	602.4	0.8	-	619.3	92.2
2003	19.8	13.6	52.4	205.8	225.2		71.9	0.3	33.7	602.9	0.8	-	623.5	117.1
2004	24.6	13.6	54.8	232.4	225.2		71.9	2.0	33.7	633.6	0.8	-	659.0	115.7
2005	29.4	13.6	52.9	265.6	93.1	12.4	92.4	2.0	33.7	565.8	0.8	-	596.0	127.5
2006	36.3	13.6	44.1	298.8	97.0	22.9	103.0	2.0	33.7	615.1	0.8	-	652.2	111.6
2007	44.9	13.6	49.5	332.0	101.2	45.8	112.9	2.0	33.7	690.7	0.8	-	736.4	137.3
2008	46.8	13.6	49.8	327.5r	220.3	40.4	193.9	2.0	31.8	879.3	0.8	3.2r	930.1r	153.4
2009	77.0	13.6	50.9r	357.7r	223.4	38.3	227.4	2.0	31.6	944.9	0.8	13.3r	1,036.1r	143.9
2010	97.5	13.6	57.7r	458.5r	255.7	40.3	270.0	4.8	29.0r	1,129.6r	0.8	28.0r	1,256.0r	136.9r
2011	122.4	13.6	64.3r	401.9r	281.9	35.8	288.5	9.7r	36.2r	1,131.8r	0.8	46.9r	1,301.9r	149.6r
2012	152.3r	13.6	63.7r	507.7r	289.5r	31.5	275.1	15.0r	34.1r	1,230.2r	0.8	68.2r	1,451.5r	139.7r
2013	189.5	13.6	68.3	6.003	342.9	29.1	339.0	18.7	36.2	1,448.1	0.8	90.6	1,729.1	148.8

	Solar heating	Win	d	Wave and	Hydro	Bioenergy	Deep	Heat	Transport	Total	Wastes
	and photovoltaics	Onshore	Offshore	Tidal			geothermal	pumps	biofuels (13)		
Total u	use of renewable sour	ces									
1990	6.4	0.8	-		447.7	564.8	0.8	-		1,020.5	82.1
1991	6.8	0.7	-		397.6	606.2	0.8	-		1,012.1	84.3
1992	7.1	2.8	-		467.0	716.6	0.8	-		1,194.3	99.6
1993	7.4	18.7	-		369.9	1,032.1	0.8	-		1,428.9	130.0
1994	7.7	29.5	-		438.0	1,382.6	0.8	-		1,858.6	217.0
1995	8.1	33.7	-	-	415.9	1,467.1	0.8	-		1,925.7	247.0
1996	8.7	41.9	-	-	291.7	1,527.7	0.8	-		1,870.8	247.9
1997	8.9	57.4	-	-	358.4	1,625.7	0.8	-		2,051.2	288.3
1998	9.1	75.4	-		440.0	1,734.0	0.8	-		2,259.3	352.4
1999	9.4	73.1	-		458.8	1,927.1	0.8	-		2,469.2	321.8
2000	11.2	81.3	0.1		437.3	1,998.4	0.8	-		2,529.0	329.7
2001	13.4	82.5	0.4	0.0	348.7	2,205.1	0.8	-		2,651.1	347.0
2002	16.3	107.6	0.4	0.0	411.7	2,392.4	0.8	-	2.4	2,931.6	378.3
2003	20.0	109.7	0.8	0.0	269.8	2,759.0	0.8	-	15.1	3,175.3	390.9
2004	24.9	149.3	17.1	0.0	416.5	3,161.0	0.8	-	16.7	3,786.3	379.6
2005	30.1	215.1	34.6	0.0	423.2	3,673.6	0.8	-	74.1	4,451.4	389.5
2006	37.2	307.3	56.0	0.0	394.9	3,791.6	0.8	-	187.8	4,775.6	405.3
2007	46.1	386.2	67.3	0.0	436.6	3,809.9	0.8	-	361.7	5,108.5	435.6
2008	48.2	497.7	114.8r	0.0	442.4r	4,112.0r	0.8	3.2r	844.5	6,063.7r	463.8
2009	78.7	647.4r	150.8	0.1	449.8r	4,456.8r	0.8	13.3r	1,038.5	6,836.2r	509.1
2010	101.0	613.6r	261.7	0.2	306.8r	5,030.8r	0.8	28.0r	1,217.3	7,560.2r	521.9r
2011	143.4	889.6r	440.7	0.1	488.6r	5,360.5r	0.8	46.9r	1,127.5	8,498.3r	545.5r
2012	268.4r	1,041.4r	649.1r	0.3	454.4	5,846.8r	0.8	68.2r	957.8	9,287.3r	628.2r
2013	364.6	1,461.1	983.8	0.5	404.0	6,804.4	0.8	90.6	1,091.0	11,200.7	626.3

#### 6.1.1 Renewable sources used to generate electricity and heat(1); electricity generated from renewable sources (continued)

																GWh
	Wind	I (1)	Wave and	Solar	Hyd	ro (1)				Bioenergy	,				Total	Wastes
	Onshore	Offshore	Tidal (1)	photo-	Small	Large	Landfill	Sewage	Energy	Animal	Plant	Anaerobic	Co-firing	Total		(7)
				voltaics	scale	scale (2)	gas	sludge f	rom waste	Biomass	Biomass	Digestion	with fossill	oioenerav		
							•	digestion o	combustion	(4)	(5)	(6)	fuels			
								digootion	(3)	( )	(0)	(0)	10010			
Flectri	city general	ed							(3)							
1990	9				127	5.080	139	316	141			0		596	5,812	83
1991	9				142	4.482	208	328	150	1		0		688	5.320	88
1992	33			-	149	5,282	377	328	177	52		1		934	6,398	104
1993	217				159	4,143	447	378	252	121	-	1		1.198	5,717	165
1994	344			-	159	4.935	517	361	449	192		0		1,518	6.956	352
1995	392		-	0	166	4,672	562	410	471	198	-	0		1,642	6,872	412
1996	488		-	0	118	3,275	708	410	489	197	-	0		1,805	5,685	417
1997	667			0	164	4,005	918	408	585	199	0	0		2,110	6,946	483
1998	877			0	206	4,911	1,185	386	849	234	0	-		2,654	8,649	583
1999	850		-	1	207	5,128	1,703	410	856	459	1	-		3,429	9,616	559
2000	945	1	-	1	214	4,871	2,188	367	840	456	31	-		3,882	9,914	519
2001	960	5	0	2	210	3,845	2,507	363	880	542	234	-		4,526	9,549	528
2002	1,251	5	0	3	204	4,584	2,679	368	907	568	272	-	286	5,080	11,127	545
2003	1,276	10	0	3	150	2,987	3,276	394	965	525	402	9	602	6,174	10,600	579
2004	1,736	199	0	4	283	4,561	4,004	440	971	556	362	9	1,022	7,364	14,147	583
2005	2,501	403	0	8	444	4,478	4,290	466	964	460	382	8	2,533	9,102	16,936	578
2006	3,574	651	0	11	478	4,115	4,424	445	1,083	423	363	12	2,528	9,277	18,106	651
2007	4,491	783	0	14	523	4,554	4,677	494	1,189	585	607	15	1,757	9,325	19,690	714
2008	5,788	1,335r	0	17	545r	4,600	4,729	549	1,239	620	807	16	1,575	9,535	21,820r	744
2009	7,529r	1,754	1	20	567r	4,664	4,929	603r	1,509	637	1,327	43	1,625	10,674	25,208r	868
2010	7,136r	3,044	2	40	476r	3,092	5,037	697	1,597	627	1,594	111r	2,332	11,996r	25,785r	919
2011	10,347r	5,126	1	244	693r	4,989	5,092	764	1,643r	615	1,749	272r	2,964	13,098r	34,498r	945r
2012	12,112r	7,549r	4	1,351r	653	4,631	5,154	719r	2,034r	643	4,083r	499r	1,783	14,914r	41,214r	1,170r
2013	16,992	11,441	6	2,036	672	4,026	5,169	761	1,987	628	8,933	707	309	18,494	53,667	1,143

	Wi	nd	Wave and	Solar	Hydro	)				Bioenergy				Total
	Onshore	Offshore	Tidal	photo-	Small	Large	Landfill	Sewage	Energy	Animal	Plant	Anaerobic	Total	
				voltaics	scale	scale	gas	sludge	from waste	Biomass	Biomass	Digestion	bioenergy	
						(3)	•	digestion	combustion	(15)	(16)		and	
						(-)			(14)	( -/	,		wastes	
Declar	ed net capa	city							. ,					
1990	4.3	٠.		-	26.3	1,084.0	16.5	72.7	30.9	-		0.1	120.3	1,234.8
1991	6.3		-	-	37.9	1,377.1	28.7	91.4	30.9	0.2	-	0.1	151.3	1,572.7
1992	21.3		-	-	40.3	1,383.0	51.1	91.4	44.6	12.8	-	0.1	200.0	1,644.5
1993	55.2		-	-	42.2	1,383.0	78.7	88.4	69.8	25.5	-	0.1	262.5	1,743.0
1994	65.7		-	-	42.2	1,383.0	84.9	87.1	106.8	25.5	-	0.1	304.4	1,795.3
1995	85.1		-	0.2	48.6	1,383.0	94.7	87.2	106.8	25.4	-	0.1	314.2	1,831.1
1996	113.0		-	0.3	49.1	1,405.8	145.7	87.2	135.0	25.4	-	0.1	393.4	1,961.6
1997	135.4		-	0.5	58.5	1,428.8	169.4	86.8	135.0	25.4	0.1	0.1	416.8	2,039.9
1998	139.4		-	0.6	61.6	1,413.0	220.6	89.8	182.1	63.9	0.3	-	556.7	2,171.3
1999	150.5		-	1.2	63.6	1,413.0	309.0	91.3	180.6	63.9	0.3	-	645.1	2,273.4
2000	175.0	1.6	0.2	2.0	66.1	1,419.0	382.6	85.3	204.0	73.7	39.3	-	784.9	2,448.7
2001	181.7	1.6	0.2	2.8	67.9	1,440.0	418.3	85.0	208.9	73.7	39.3	-	825.2	2,519.5
2002	223.4	1.6	0.2	0.7	70.3	1,388.8	439.2	96.0	217.8	76.7	58.5	-	888.1	2,573.0
2003	285.6	26.6	0.2	1.0	47.1	1,354.5	575.1	123.7	237.2	76.7	64.5	1.4	1,078.6	2,793.7
2004	340.8	51.6	0.2	1.4	51.7	1,355.9	670.9	131.9	238.5	70.3	64.8	1.5	1,178.0	2,979.6
2005	569.0	89.2	0.2	1.9	57.2	1,343.2	759.7	137.8	248.7	70.3	74.5	1.6	1,292.7	3,353.2
2006	695.0	126.7	0.2	2.4	55.5	1,361.4	795.4	143.8	257.3	70.3	107.3	3.9	1,377.9	3,619.2
2007	877.2	164.2	0.2	3.1	59.0	1,358.7	836.7	150.2	257.3	94.3	211.3	3.9	1,553.6	4,015.9
2008	1,200.2r	248.7r	0.2	3.8	60.4r	1,456.5	828.6	153.1r	267.5	94.3	210.9	7.2	1,561.5	4,531.4r
2009	1,460.5r	396.7	1.0	4.5	63.6r	1,458.5	899.7	156.8r	279.1	94.3	284.2	12.0	1,726.1r	5,110.9r
2010	1,707.7r	559.3	1.0	16.1r	66.8r	1,452.9	936.6	192.7	310.7	94.3	315.1	30.3r	1,879.7r	5,683.3r
2011	1,945.5r	766.4	1.2	169.0r	73.0r	1,470.9	975.8	198.0r	366.3r	94.3	1,148.8	70.3r	2,853.5r	7,279.6r
2012	2,483.9r	1,249.0	2.7	297.0r	78.0	1,470.9	962.4	204.4r	378.5r	94.3	1,166.3r	118.3r	2,924.2r	8,505.6r
2013	3,163.5	1,541.1	2.9	472.6	80.3	1,470.9	967.7	198.0	401.7	94.3	1,949.0	149.6	3,760.3	10,491.5

	Wind		Hydro	)			Bioenergy					Total
	Onshore Offsh	ore	Small	Large	Landfill S	ewage	Energy	Animal	Plant	Anaerobic	Total	(17)
			scale	scale	gas	sludge	from waste	Biomass	Biomass	Digestion	bioenergy	
				(2)	di	gestion	combustion	(4)	(5)	(6)		
							(3)					
Long t	erm average loa	d factors (	average	of five year	ers ending) (1	8)						
2002	28.9											
2003	27.9											
2004	27.6											
2005	27.5											
2006	27.7											
2007	27.5											
2008	28.1											
2009	27.6											
2010	26.3 3	0.5										
2011	26.4 3	2.0										
2012	26.0 3	3.1	36.6	36.0	59.1	49.3	42.5	66.0	63.6	54.6	61.3	37.0
2013		3.6	36.3	34.5	58.5	51.0	42.5	67.2	64.5	56.9	61.4	35.7

- 2013 25.7 33.6 36.3 34.5 58.5 51.0 42.5 67.2 64.5 56.9 61.4

  (1) For wind, wave, tidal and hydro, the figures represent the energy content of the electricity supplied, but for biofuels the figures represent the energy content of the fuel used

  (2) Excluding pumped storage stations.

  (3) Biodegradable part only.

  (4) Includes electricity from poultry litter combustion, and meat & bone combustion

  (5) Includes electricity from poultry litter combustion, and meat & bone combustion

  (6) Includes electricity from itraw and energy crops.

  (7) Non-biodegradable part of municipal solid waste plus waste lyres, hospital waste, and general industrial waste.

  (8) Includes heat from straw, energy crops and paper & packaging

  (9) Includes heat from straw, energy crops and paper & packaging

  (10) Includes heat from straw, energy crops and happer & packaging

  (11) It is undestood that there was a negligable contribution from heat pumps prior to 2008

  (12) Includes heat from straw eyer combustion, not spital waste combustion, and general industrial waste combustion

  (13) Liquid biofuels are generally blended for use in transport

  (14) Includes the use of vaste types and hospital waste.

  (15) Includes the use of order types and hospital waste.

  (16) Includes the use of order types and hospital waste.

  (17) Excludes co-liring and non-biodegradable waste

  (18) On an unchanged configuration basis. With the exception of wind, this measure has only been calculated since 2008, hence the shorter time-series

### 6.1.2 Renewable orders and operational capacity

				1998		1999		2000	
		0		Live proje		Live proje		Live proje	
		Contracted	projects	operational December 19		operational December 19		operational December 20	
	Technology band	Number	Capacity	Number	Capacity MW	Number	Capacity	Number	Capac
Ingland and Wales		rumbor		rambo		Hambor		ranibor	
NFFO - 1 (1990)	Hydro	26	11.85	21	10.00	21	10.00	19	8.
	Landfill gas	25	35.50	19	30.78	19	30.78	19	30.
	Municipal and industrial waste Other	4	40.63 45.48	4	40.63 45.48	4	40.63 45.48	3 4	37. 45.
	Sewage gas	7	6.45	6	5.98	6	5.98	6	5.
	Wind	9	12.21	7	11.66	7	11.66	7	11.
	Total (2)	75	152.12	61	144.53	61	144.53	58	139.
NFFO - 2 (late 1991)	Hydro	12	10.86	10	10.46	10	10.46	10	10.
NFFO = 2 (late 1991)	Landfill gas	28	48.45	26	46.39	26	46.39	26	46.
	Municipal and industrial waste	10	271.48	2	31.50	2	31.50	2	31.
	Other	4	30.15	1	12.50	1	12.50	1	12.
	Sewage gas	19	26.86	18	19.06	18	19.06	18	19.
	Wind	49	84.43	25	53.83	25	53.83	24	52.
	Total (2)	122	472.23	82	173.74	82	173.74	81	172.
NFFO - 3 (1995)	Energy crops and agricultural and forestr	3	19.06			-	-	1	8.
	waste - gasificatior Energy crops and agricultural and forestr	6	103.81	1	38.50	1	38.50	2	69.
	waste - other	Ü	100.01		00.00	·	00.00	-	00.
	Hydro	15	14.48	6	9.72	7	10.08	8	11.
	Landfill gas	42	82.07	40	78.96	42	82.07	42	82.
	Municipal and industrial waste	20	241.87	5	75.32	6	77.42	6	77.
	Wind - large Wind - small	31 24	145.92 19.71	7	32.46 5.38	8 9	34.76 7.93	9	36. 7.
IFFO 4 (4007)	Total	141	<b>626.92</b> 13.22	66	240.34 0.70	<b>73</b>	250.76 1.42	<b>77</b>	<b>293</b> .
NFFO - 4 (1997)	Hydro Landfill gas	31 70	173.68	21	0.70 45.93	43	1.42	5 51	135.
	Municipal and industrial waste - CHF	10	115.29	21	40.90	43	103.30	2	14.
	Municipal and industrial waste - fluidised be combustion	6	125.93						14.
	Wind - large	48	330.36					1	2
	Wind - small	17	10.33			1	0.63	3	2.
	Anaerobic digestion of agricultural wast	6	6.58						
	Energy crops and forestry waste gasificatio	7	67.34	-	-	-	-	-	
	Total	195	842.73	24	46.63	49	105.35	62	156.
NFFO - 5 (1998)	Hydro	22	8.87						
	Landfill gas	141	313.73	1	1.78	11	16.58	23	53.
	Municipal and industrial waste	22	415.75	-	-	-	-	-	
	Municipal and industrial waste - CHF	7	69.97 340.16		-	-			
	Wind - large Wind - small	33	28.67		-	2	1.69	2	1.
	Total	261	1,177.15	1	1.78	13	18.27	25	55.
NFFO Total	Total	794	3,271.15	234	607.02	278	692.64	303	817.
Scotland		794	3,271.13	234	607.02	216	092.04	303	617.
SRO - 1 (1994)	Biomass	1	9.8					1	9.
3KO - 1 (1994)	Hydro	15	17.25	3	2.27	4	3.22	6	4.
	Waste to Energy	2	3.78	2	3.78	2	3.78	2	3.
	Wind	12	45.6	6	21.76	7	25.13	7	25.
	Total	30	76.43	11	27.81	13	32.13	16	42.
SRO - 2 (1997)	Biomass	1	2					-	
	Hydro	9	12.36		-	-	-	-	
	Waste to Energy	9	56.05		-	3	6.7	4	15.
	Wind	7	43.36	-	-	-	-		
	Total	26	114.04			3	6.7	4	15.
SRO - 3 (1999)	Biomass	1	12.9	-	-	-	-	-	
	Hydro	5	3.9		-				
	Waste to Energy	16 3	49.11 2		-		-	1	3.
	Wave Wind - large	3 11	63.43		-			1	8.
	Wind - large Wind - small	17	14.06					2	1.
	Total	53	145.40					4	13.
		109	335.87		14 55				
CDO Total		109	333.0/	11	14.55	16	38.83	24	71.0
		9	2.37	7	1.89	7	1.89	7	1.
Northern Ireland	Hydro	9	0.56						1.
Northern Ireland	Hydro Sewage gas	5	0.00	6	12.66	6	12.66	6	12.
Northern Ireland	Hydro Sewage gas Wind	5 6	12.66						
Northern Ireland	Sewage gas Wind	6			14.55	13	14.55		14
Northern Ireland NI NFFO - 1 (1994)	Sewage gas		12.66 15.59 0.25	13	14.55	13	14.55	13	14.
Northern Ireland NI NFFO - 1 (1994)	Sewage gas Wind Total	6 20 1 2	15.59 0.25 0.3	13	0.30	13 - 2	0.30		0
Northern Ireland NI NFFO - 1 (1994)	Sewage gas Wind Total Biogas Biomass Hydro	20 1 2 2	15.59 0.25 0.3 0.25	13				13	0
Northern Ireland NI NFFO - 1 (1994)	Sewage gas Wind Total Biogas Biomas Hydro Landfill gas	6 20 1 2 2 2 2	15.59 0.25 0.3 0.25 6.25	13 - 2	0.30	2	0.30	13 - 2	0.
Northern Ireland NI NFFO - 1 (1994)	Sewage gas Wind  Total Biogas Biomass Hydro Landfill gas Municipal and industrial wasts	6 20 1 2 2 2 2 1	15.59 0.25 0.3 0.25 6.25 6.65	13 - 2	0.30	2 1	0.30 0.08 -	13 - 2 1 -	0. 0.
SRO Total Northern Ireland NI NFFO - 1 (1994) NI NFFO - 2 (1996)	Sewage gas Wind  Total Biogas Biomass Hydro Landfill gas Municipal and industrial wasts Wind	6 20 1 2 2 2 2 1 1 2	15.59 0.25 0.3 0.25 6.25 6.65 2.57	13 - 2 1 - -	0.30 0.08 - -	- 2 1 - - 1	0.30 0.08 - - 0.43	13 - 2 1 - -	0.0 0.0 2.0
Northern Ireland NI NFFO - 1 (1994)	Sewage gas Wind  Total Biogas Biomass Hydro Landfill gas Municipal and industrial wasts	6 20 1 2 2 2 2 1	15.59 0.25 0.3 0.25 6.25 6.65	13 - 2	0.30	2 1	0.30 0.08 -	13 - 2 1 -	0.3 0.4

<sup>(1)</sup> Sites that have closed, sites that are not currently using renewables as fuel and those that are no longer under contract have been excluded.

(2) The NFPA NFFO database has reported that at the end of December 2013 487 sites totalling 1,275.56 MW had gone live under NFFO, but this includes a number of sites which have closed or are not currently using renewables as fuels. The following table compares the totals for live projects, above, with the overall NFFO total:

compares the totals for live projects, above, w	Number	MW
All live NFFO and equivalent:	359	994.05
NFFO-1 no longer classed as live and operation:	21	18.39
NFFO-2 no longer classed as live and operational	16	25.12
NFFO-3 no longer classed as live and operation:	26	105.90
NFFO-4 no longer classed as live and operation:	13	31.65
NFFO-5 no longer classed as live and operational	20	24.14
SRO-1 no longer classed as live and operations	8	28.84
SRO-2 no longer classed as live and operation:	4	16.70
SRO-3 no longer classed as live and operation:	5	15.74
NI-NFFO-1 no longer classed as live and operation:	15	15.04
NI-NFFO-2 no longer classed as live and operation:	0	0.00
All NFFO and equivalents	487	1275.56

## 6.1.2 Renewable orders and operational capacity (continued)

2001		2002		2003		2004		2005		2006	
Live proj operational		Live proje operational		Live proj operationa		Live pro operationa		Live proj operationa		Live pro operationa	
December 2		December 2		December 2		December 2		December 2		December 2	
Number	Capacity MW	Number	Capacity MW	Number	Capacity MW	Number	Capacity MW	Number	Capacity MW	Number	Capacit MV
21	10.00	9	2.95	9	7.63	13	8.19	13	4.83	13	4.83
19	30.78	8	16.56	17	29.32	13	25.09	13	25.09	13	25.09
4	40.63 45.48	4 2	44.62 25.38	4 2	40.63 25.38	4 3	40.63 45.38	4 3	40.63 45.38	4	40.63 45.38
6	5.98	2	8.67	6	5.98	4	1.55	4	4.08	4	4.08
5	8.14	1	2.06	2	5.81	3	7.53	5	8.14	5	8.14
59	141.01	26	100.24	40	114.74	40	128.37	42	128.16	42	128.16
10	10.46	1	0.07	2	2.78	8	10.16	9	10.43	9	10.43
26 2	46.39 31.50	13 2	22.33 31.50	26 2	46.39 31.50	22 2	35.67 31.50	21 2	34.64 31.50	21 2	34.64 31.50
1	12.50	1	12.50	-	31.50	1	12.50	1	12.50	1	12.50
18	19.06	16	14.22	17	18.39	17	25.69	17	18.56	17	18.56
23	52.45	23	52.45	21	52.20	23	52.45	22	51.97	22	51.97
80	172.36 8.00	56	133.07	68	151.26	73	167.97	72	159.60	72	159.60
			•		•		•		•	•	
2	69.50	2	69.50	2	69.50	2	69.50	2	69.50	2	69.50
8 42	11.74 82.07	8 42	11.74 82.07	8 42	11.74 82.07	8 42	11.74 82.07	8 41	11.74 80.55	8 40	11.74 79.03
6	77.42	6	77.42	7	89.12	8	102.92	9	114.62	9	126.32
10	41.02	10	41.02	10	41.02	10	41.02	12	50.50	12	50.50
10	9.47	11	10.84	13	11.86	13	11.86	15	13.52	15	13.52
79 7	<b>299.22</b>	<b>79</b>	292.58	<b>82</b>	305.31 2.49	<b>83</b>	319.11 2.49	<b>87</b>	340.43 2.49	<b>86</b>	350.61
51	135.71	55	141.73	57	146.00	60	148.36	62	161.46	62	160.51
2	14.98	4	33.48	4	33.48	4	33.48	4	33.48	4	33.48
-	-				-		-		•		
1	2.53	4	12.97	4	12.97	4	12.97	6	38.67	6	38.67
4	2.76	5 1	3.27 1.43	5 1	3.27 1.43	5 1	3.27 1.43	6 1	4.03 1.43	6 1	4.03 1.43
			-						-		
65	158.08	77	195.18	80	199.64	83	202.00	88	241.57	88	240.62
3 45	0.64 89.60	3 58	0.64 114.50	3 67	0.64 137.26	77	164.32	80	170.41	84	180.49
-	- :								-		
- 4	3.65	- 4	3.65	- 6	4.85	9	7.45	9	7.45	9	7.45
52	93.89	65	118.79	76	142.75	86	171.77	89	177.86	93	187.94
335	864.55	303	839.86	346	913.70	365	989.21	378	1,047.61	381	1,066.92
1	9.80	1	9.80	1	9.80	1	9.80	1	9.80		
6	4.04	8	7.82	9	8.81	9	8.81	10	10.75	10	10.75
2 7	3.78 25.13	2 7	3.78 25.13	2	3.78	2 7	3.78 25.13	2	3.78 25.13	2 7	3.78
16	42.75	18	46.53	19	25.13 47.52	19	47.52	20	49.46	19	25.13 <b>39.66</b>
-	-				-		-		-		
2	1.46 15.00	2 4	1.46 15.00	2 6	1.46 17.65	2 6	1.46 17.65	2	1.46 17.65	2 6	1.46 17.65
3	18.95	5	31.29	5	31.29	5	31.29	5	31.29	5	31.29
9	35.41	11	47.75	13	50.40	13	50.40	13	50.40	13	50.40
- :		:		:	:	:	:	:		:	
2	6.12	4	10.30	7	16.04	10	22.36	10	22.36	10	22.36
1	0.20	1	0.20	1	0.20	1	0.20	1	0.20	1	0.20
1	8.29 2.47	1 3	8.29 2.47	1 5	8.29 4.28	1 5	8.29 4.28	1 5	8.29 4.28	1 4	8.29 3.43
7	17.08	9	21.26	14	28.81	17	35.13	17	35.13	16	34.28
32	95.24	38	115.54	46	126.73	49	133.05	50	134.99	48	124.34
7	1.89	8	2.33	8	2.33	8	2.33	9	2.37	9	2.37
- 6	12.66	6	12.66	- 6	12.66	- 6	12.66	6	12.66	6	12.66
13	14.55	14	14.99	14	14.99	14	14.99	15	15.03	15	15.03
2	0.30 0.08	2	0.30 0.08	2	0.30 0.08	2	0.30 0.08	2	0.30 0.08	2	0.30
	0.08		0.06		0.06		0.06		0.00	-	0.08
-											
2 5	2.57 2.95	2 	2.57 2.95	2 	2.57 2.95	2 	2.57 2.95	2 	2.57 2.95	2 5	2.57 <b>2.9</b> 5
	2.30		2.33	3	2.33	3	2.33	3	2.50	3	2.90
18	17.5	19	17.94	19	17.94	19	17.94	20	17.98	20	17.98

## 6.1.2 Renewable orders and operational capacity (continued)

Performance			200	7	200	8	200	9	201	0
Part										
Processor   Proc										
Marging and Wilses		To be described.	December 2		December :		December		December	
NPTO-1 (1990)  NPTO-1 (1990)  NPTO-1 (1990)  NPTO-1 (1990)  NPTO-2 (1991)  NPTO-2 (1991)  NPTO-2 (1991)  NPTO-3		Technology band	Number		Number		Number		Number	Capacity MW
Landiffigue Landif				400	40	4.00	40		40	
Marcel and industrial wash   4 4000	NFFO - 1 (1990)	Hydro Landfill das	13	4.83 25.09	13	4.83 25.09	13	4.83 25.09	13	4.83 25.09
Second page   4   4,00   4,00		Municipal and industrial waste	4	40.63	4	40.63	4	40.63	4	40.63
Marce   10										
Total (2)										
NFTO - 2 (use 1991)  Hydro Landflig as  2 1 3444 2 1 3466 2 1 3460										
Part										
Marcipul and industrial washs	NFFO - 2 (late 1991)									
Cher										
Someporary   17   15.56   17										
Mine										
Total (2)										
NPFO-13 (1995)   Energy roops and agricultural and forests			72				72			
Permy control and profession   1   31,00   31,00   3	NFFO - 3 (1995)			100.00		100.00		100.00		100.00
wistle- office										
Hydro			1	31.00	1	31.00	1	31.00	1	31.00
Lindfligges 35 7.06 35 7.06 35 7.06 30 00.27  Minricipal and industrial weets 0 9 12.52 15 12.52 10 12.52  Wind - transl 15 13.52 15 13.52 15 13.52 15 13.52 15 13.52 15 13.52  For a control of the cont										
Municipal and industrial wasts										
Mind-lugge   12   50.50   12   50.50   12   50.50   12   50.50   12   50.50   12   50.50   12   50.50   12   50.50   12   50.50   12   50.50   12   50.50   12   50.50   13.52   15   13.										
Mond - minal   15   13.52   1										
Total										
NFFO - 4 (1997)			80	304.16			80	304.16	76	
Landfill gas	NFFO - 4 (1997)									
Municipal and infuntarial water - Published be combission   Combissi			60	158.95	60		58		55r	149.63r
Combustion   Wind - large			4	33.48	4	33.48	4	33.48	4	33.48
Mind - large   7   42.72   7										
Ministration   Mini			_	40.70	_	40.70	_	40.70	_	10.70
Paramorbic dispetsion of agricultural waste participation   Paramorbic dispetsion of agricultural waste participation   Paramorbic dispetsion of agricultural waste participation   Paramorbic dispetsion of agricultural waste   Paramorbic dispetsion of										
Part			0	4.03	0	4.03	0	4.03	0	4.03
Total   86   241.67   86   241.67   81   241.67   84   232.76   79   231.00   22   1.00   22   1.00   1.										
NFFO - 5 (1998)			86	241.67	86	241.67	84	238.76	79r	231.80r
Municipal and industrial wasto - Her	NFFO - 5 (1998)	Hydro					2	1.00		
Municipal and industrial waste - CHF   Municipal waste - CHF   Muni		Landfill gas	79	168.04	79	168.04				
Mind-single		Municipal and industrial waste					1	9.90	1	9.90
Mind - small										
Total   88   175.49   88   175.49   87   181.69   75   148.73     Scotland   Signature				7.45		7.45		7.45		7.45
NFFO Total   368   1,009.07   368   1,009.07   365   1,012.37   344   1,004.637										
Scotland   Scotland   Scotland   Hydro   9   10.09   10.09	NEEO Total	Total								
Hydro   9   10.09   10.09   10.0			300	1,009.07	300	1,009.07	303	1,012.37	3441	1,004.631
Maste to Energy   Maste to Energy   Maste to Energy   Mark   Ma	SRO - 1 (1994)	Biomass								
Mind   7   25.13   25.00										
Total   18   39.00   18   39.00   18   39.00   18   39.00   18   39.00   18   39.00   18   39.00   18   39.00   39.00   39.00   39.00   39.00   39.00   39.00   39.00   39.00   39.00   39.000										
Biomass										
Hydro	000 0 (4000)		18	39.00	18	39.00	18	39.00	18	39.00
Mart to Energy   6	SRO - 2 (1997)		2	1.46	2	1.46	2	1.46	2	1.46
Mind   5   31.29   5   31.29   5   31.29   3   18.51										
Total   13   50.40   13   50.40   13   50.40   11   37.62										
SRO - 3 (1999)   Biomass   Hydro   Waste to Energy   10   22.36   10		Total	13	50.40	13		13		11	
Waste to Energy   10   22.36	SRO - 3 (1999)									
Wave   1		Hydro								
Mind - large   Mind - large   Mind - small   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   5   5   5   5   5   5   5   5   5										
Wind - small   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   4   3.43   5.59   5   5   2.95   3   2.95   3   2		Wave	1	0.20	1	0.20	1	0.20	1	0.20
Total   15   25.99   15   25.				2.42		0.40		0.40		0.40
SRO Total   46   115.39   46   115.39   46   115.39   48   115.39   115.39   115.39   115.39   115.39   115.39   115.39   115.39   115.39   115.39   115.39   115.39   115.39   115.39   115.39   11			-		-					
Northern Ireland   Northern Ir	000 T-1-1	Total								
N NFFO - 1 (1994)			46	115.39	46	115.39	46	115.39	44	102.61
Sewage gas	NI NEFO - 1 (1994)	Hydro	۵	2 37	۵	2 37	۵	2 37		
Wind   6   12.66   6   12.66   6   12.66   6   12.66   6   12.66   6   12.66   6   12.66   6   12.66   6   12.66   7   7   7   7   7   7   7   7   7	(1004)		9	2.51	9	2.31	9	2.01		
Total   15   15.04   15   15.04   15   15.04		Wind	6	12.66	6	12.66	6	12.66		
N NFFO - 2 (1996) Biogas Biomass 2 0.30 2 0.30 2 0.30 2 0.30 Hydro 1 0.08 1 0.08 1 0.08 1 0.08 1 0.08 1 0.08  Landfill gas Municipal and industrial wasts Wind 2 2.57 2 2.57 2 2.57 2 2.57 2 2.57 Total 5 2.95 5 2.95 5 2.95 5 2.95			15		15		15		-	
Biomass   2 0.30	NI NFFO - 2 (1996)									
Landfill gas   Municipal and industrial waste   Municipal and in		Biomass	_		_		_			
Municipal and industrial wastr           Wind         2         2.57		Hydro	1	0.08	1	0.08	1	0.08	1	0.08
Wind         2         2.57         2         2.57         2         2.57         2         2.57         2         2.57         2         2.57         2         2.57         2         2.57         2         2.57         2         2.57         2         2.95         5         2.95         5         2.95         5         2.95         5         2.95         5         2.95         8         2         9         17.98         20         17.98         20         17.98         2         17.98         2         17.98         2		Landfill gas								
Total         5         2.95         2.95         2.95         2.95         2.95 <td></td> <td></td> <td>^</td> <td>2.57</td> <td>2</td> <td>2.57</td> <td>^</td> <td>2.57</td> <td>^</td> <td>2.57</td>			^	2.57	2	2.57	^	2.57	^	2.57
NI NFFO Total 20 17.98 20 17.98 20 17.98 5 2.95										
	NI NEEO Tet-1	i Viai								
		/2)								

## 6.1.2 Renewable orders and operational capacity (continued)

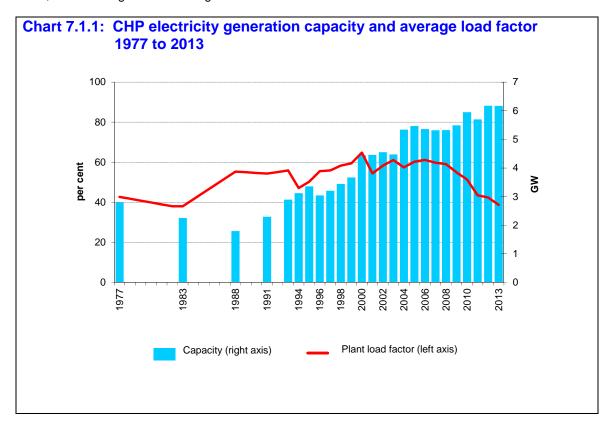
		Live proj operational	l at 31	Live proje	at 31	Live projectional	at 31
	Technology band	December 2	Capacity MW	December 2	Capacity MW	December 2	Capacity
England and Wales		Number	MVV	Number	MVV	Number	MW
NFFO - 1 (1990)	Hydro	13	4.83	13	4.83	13	4.83
	Landfill gas	13	25.09	10	21.55	9	19.55
	Municipal and industrial waste	4	40.63	4	40.63	4	40.63
	Other	3	45.38	3	45.38	3	45.38
	Sewage gas Wind	4 5	4.08 8.14	4 5	4.08 8.14	4 5	4.08 8.14
	Total (2)						
		42	128.16	39	124.61	38	122.61
NFFO - 2 (late 1991)	Hydro	9	10.43	9	10.43	9	10.43
	Landfill gas	21	34.64	18	31.68	15	28.68
	Municipal and industrial waste	2	31.50 12.50	2	31.50 12.50	2	31.50 12.50
	Sewage gas	17	18.56	17	18.56	17	18.56
	Wind	22	51.97	22	51.97	20	45.57
	Total (2)	72	159.60	69	156.64	64	147.24
NFFO - 3 (1995)	Energy crops and agricultural and forestr	12	133.60	69	130.04	04	147.24
11.0 0 (1000)	waste - gasification						
	Energy crops and agricultural and forestr waste - other	1	31.00	1	31.00	1	31.00
	Hydro	8	11.74	8	11.74	8	11.74
	Landfill gas	26	52.76	25	51.52	25	51.52
	Municipal and industrial waste	8	98.12	8	98.12	8	98.12
	Wind - large	11	48.14	11	48.14	11	48.14
	Wind - small	15	13.52	15	13.52	15	13.52
	Total	69	255.27	68	254.04	68	254.04
NFFO - 4 (1997)	Hydro	9	2.49	9	2.49	9	2.49
	Landfill gas	55	149.63	52	146.99	52	146.99
	Municipal and industrial waste - CHF Municipal and industrial waste - fluidised be combustion	4	33.48	4	33.48	4	33.48
	Wind - large	7	42.72	7	42.72	7	42.72
	Wind - small	6	4.03	6	4.03	6	4.03
	Anaerobic digestion of agricultural wast	· ·	4.00	· ·	4.00	Ü	1.00
	Energy crops and forestry waste gasificatio						
	Total	81	232.35	78	229.71	78	229.71
NFFO - 5 (1998)	Hydro	2	1.00	2	1.00	2	1.00
, ,	Landfill gas	66	150.17	61	145.45	61	145.45
	Municipal and industrial waste Municipal and industrial waste - CHF	1	9.90	1	9.90	1	9.90
	Wind - large						
	Wind - small	9	7.45	9	7.45	9	7.45
	Total	78	168.52	73	163.79	73	163.79
NFFO Total		342	943.90	327	928.79	321	917.39
Scotland	<b>D</b> :						
SRO - 1 (1994)	Biomass Hydro	9	10.09	9	10.09	9	10.09
	Waste to Energy	9	10.09	9	10.09	9	10.09
	Wind	3	10.53	3	10.53	3	10.53
	Total	12	20.62	12	20.62	12	
SRO - 2 (1997)	Biomass	12	20.02	12	20.02	12	20.62
SIKO - Z (1331)	Hydro	2	1.46	2	1.46	2	1.46
	Waste to Energy	4	13.73	4	13.73	4	13.73
	Wind	3	18.51	3	18.51	3	18.51
	Total	9	33.70	9	33.70	9	33.70
SRO - 3 (1999)	Biomass						
/	Hydro						
	Waste to Energy	7	15.76	7	15.76	7	15.76
	Wave	1	0.20	1	0.20	1	0.20
	Wind - large						
	Wind - small	4	3.43	4	3.43	4	3.43
	Total	12	19.39	12	19.39	12	19.39
SRO Total		33	73.71	33	73.71	33	73.71
Northern Ireland							
NI NFFO - 1 (1994)	Hydro						
	Sewage gas						
	Wind						
	Total	-	-	-	-	-	-
NI NFFO - 2 (1996)	Biogas	_		_		_	
	Biomass	2	0.30	2	0.30	2	0.30
	Hydro Landfill gas	1	0.08	1	0.08	1	0.08
	Municipal and industrial waste Wind	2	2.57	2	2.57	2	2.57
	Total	5	2.95	5	2.95	5	2.95
UNIFFO Total	i Viai						
NI NFFO Total		5	2.95	5	2.95	5	2.95
All NFFO and equivalents		380	1,020.56	365	1,005.45	359	994.05

# **Chapter 7: Long term trends**

## **Combined Heat and Power**

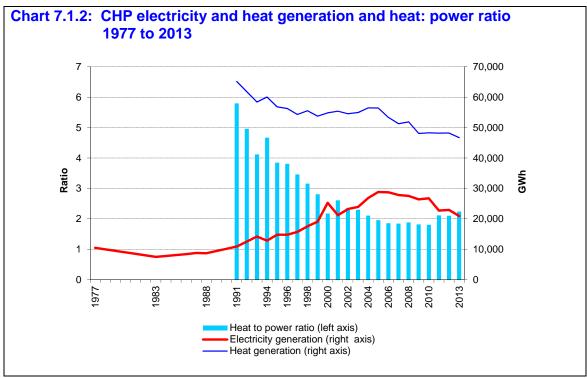
#### Combined Heat and Power: capacity, generation and fuel use (Table 7.1.1)

- 7.1.1 This table extends the summary series shown in Table 7A of Chapter 7 of the main Digest back to 1977, the earliest year for which data on Combined Heat and Power (CHP) are available. CHP data have been collected on an annual basis since 1993, but before that the data were collected on an occasional basis. The text below summaries changes up to 2010, recent trends are outlined in Chapter 7 of DUKES.
- 7.1.2 As Chart 7.1.1 shows, between 1993 and 2005 the electricity generating capacity of CHP increased by over 90 per cent, at an average rate of around 5½ per cent a year. Between 2005 and 2009 capacity levelled off before increasing again in 2010 due to increases within the oil refinery sector.
- 7.1.3 The plant load factor measures how intensively the CHP plants are used. The average load factor peaked in 2000 at around 65 per cent but fell sharply in 2001 to around 54 per cent following a fall in the electricity price. Between 2002 and 2008 the load factor fluctuated between 56 and 61 per cent, before falling in 2009 and again in 2010.



7.1.4 Between 1995 and 2006 heat generation at CHP plants showed a fairly stable pattern remaining within the 53,000 to 57,000 GWh band, before falling in 2007 and again in 2009. Heat generation has risen slightly since 2009.

7.1.5 Over the same period (1995-2006), electricity generation from CHP almost doubled, equivalent to a growth rate of around 5½ per cent a year. The rise in generation up to 2000 reflected the liberalisation of the electricity markets which gave a strong incentive to design schemes to maximise the electricity generation for a given heat load since the electricity could be sold on to suppliers. Newer CHP schemes thus tended to have lower heat to power ratios as Chart 7.1.2 shows. One of the effects of the introduction of the New Electricity Trading Arrangements (NETA) in March 2001 was a fall in the price of electricity, including the price of electricity exported from CHP plants. This led to a decline in investment in new plants and also a decline in the electrical output of existing CHP plants between 2000 and 2001. Following the sharp decline in 2001, electricity generation at CHP plants rose again to its peak in 2005, exceeding the 2000 level by 14 per cent. However, between 2006 and 2010, electricity generation saw a small and steady decrease.



Heat to power ratios and heat generation data are not available before 1991

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# 7.1.1 Combined Heat and Power: capacity, generation and fuel use

		er of emes	Electricity capacity (1)	Heat capacity (2)	Heat to power ratio (3)	Fuel input	Electricity generation	Heat generation (4)	Overall efficiency (5)	Load factor
			MWe	MWth		GWh	GWh	GWh	Per cent	Per cent
19	77		2,793				10,450			43
19	83		2,254				7,500			38
19	88		1,793				8,700			55
19	91	266	2,293	13,361	5.80	113,537	10,917	65,174	67.0	54.3
19	93	996	2,893	14,442	4.12	101,650	14,171	58,418	71.4	55.9
19	94 1,	139	3,117	15,704	4.67	97,468	12,853	60,079	74.8	47.1
19	95 1,	,220	3,355	15,698	3.85	106,504	14,778	56,833	67.2	50.3
19	96 1,	298	3,041	15,276	3.81	97,993	14,782	56,285	72.5	55.5
19	97 1,	,318	3,204	15,528	3.46	97,881	15,699	54,329	71.5	55.9
19	98 1,	328	3,439	15,557	3.16	100,877	17,568	55,579	72.5	58.3
19	99 1,	352	3,669	15,426	2.81	100,549	19,104	53,755	72.5	59.4
20	00 1,	,339	4,451	26,150	2.17	106,229	25,245	54,877	75.4	64.7
20	01 1,	366	4,453	26,479	2.61	109,348	21,231	55,410	70.1	54.4
20	02 1,	328	4,548	27,056	2.35	112,668	23,221	54,564	69.0	58.3
20	03 1,	292	4,472	26,122	2.30	113,085	23,933	54,977	69.8	61.1
20	04 1,	263	5,340	22,505	2.10	120,180	26,852	56,520	69.4	57.4
20	05 1,	284	5,464	22,390	1.96	124,602	28,827	56,441	68.4	60.2
20	06 1,	,271	5,361	22,067	1.86	122,340	28,729	53,405	67.1	61.2
20	07 1,	314	5,318	21,235	1.84	118,598	27,832	51,297	66.7	59.7
20	08 1,	327	5,323	21,133	1.89	118,685	27,528	51,911	66.9	59.0
20	09 1,	379r	5,492	22,258	1.82	111,290r	26,425	48,091r	67.0	54.9
20	10 1,	459r	5,950	22,204	1.80	112,559r	26,768	48,267	66.7	51.4
20	11 1,	791r	5,969r	22,129r	2.12	98,195r	22,767r	48,184r	72.3	43.5
20	12 1,	955r	6,175r	22,678r	2.10	99,421r	22,950r	48,244r	71.6r	42.4r
20	13 2	,014	6,170	22,225	2.24	96,056	20,891	46,701	70.4	38.7

<sup>(1) (</sup>CHP  $_{\rm QPO}$ ) basis from 1995 onwards

<sup>(2)</sup> Complete heat capacity data is only available from 2000 onwards following the introduction of CHPQA

<sup>(3)</sup> Heat to power ratios are calculated from the qualifying heat output (QHO) and the qualifying power output (QPO) (and their equivalents in the years before the CHPQA scheme was used for CHP statistics).

<sup>(4)</sup> These are calculated using gross calorific values; overall net efficiencies are some 5 percentage points higher.

<sup>(5) (</sup>CHP QHO) basis from 1995 onwards