

Year 3 Verified Report: 15 April 2010 - 14 April 2011

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Executive Summary

Under the RTFO the sustainability targets increase year on year. For year three the data capture target is up 20% to 90% relative to Year Two; the target for GHG savings is up 5% to 50% and the target for fuels meeting an Environmental Standards has increased by 30% to 80%.

This report covers the supply of biofuels under the Renewable Transport Fuel Obligation¹ from 15 April 2010 to 14 April 2011. The headline figures² are:

4.4 billion litres of biofuel have been supplied under the RTFO in the first 36 months.

In the twelve months of the 2010/11 obligation period, 1,517 million litres of biofuel have been supplied, which is approximately 3.27% of total road transport fuel reported to the RTFO Administrator against an annual target of 3.5%³. More biodiesel (59%) has been supplied than bioethanol (41%). There has also been a small volume of biogas declared to us.

The feedstock is known for 98% of fuel supplied. Both the feedstock and country of origin are known for 97%.

The largest proportion of biofuel came from the feedstock, used cooking oil (459m litres, 30% of total biofuel supplied). The most widely reported feedstock for a single country for biodiesel was soy from Argentina (196m litres, 22% of biodiesel supplied). The most widely reported feedstock for a single country for bioethanol was US Corn (156m litres, 25% of bioethanol). This overtook sugarcane from Brazil (124m litres, 20% of bioethanol supplied).

Over the period, 53%⁴ of biofuels met an environmental standard, compared to a target of 80%⁵.

The majority of feedstock has been imported; 22% of the biofuel was reported as coming from UK feedstocks.

84% of the fuel reported as coming from UK feedstocks met environmental sustainability standards.

Greenhouse gas savings of 57% were achieved against a Government target⁶ of 50%. This figure may not include all emissions from direct land use change and excludes the emissions from indirect land-use changes considered in the 'Gallagher Review'.

This year all suppliers who were required to have their C&S data verified did so. 99.74% of all the fuel reported has been independently verified.⁷

Executive Summary

Notes

1. The RTFO applies to road transport across the whole of the UK. Refiners, importers and any others who supply more than 450,000 litres of relevant hydrocarbon oil for road transport annually to the UK market are obligated by it.

2. Data come from monthly reports submitted by fuel suppliers to the RTFO Administrator. The RTFO Administrator performs checks on the data, which for suppliers of over 450,000 litres of biofuel, have also been subject to an annual verification process by independent auditors.

We publish an extended report that identifies the carbon and sustainability performance of individual companies on a periodic basis. These reports are available on our website at: <http://www.dft.gov.uk/statistics/series/biofuels/>

3. Obligated suppliers meet their volume obligation by surrendering the appropriate number of RTFCs to the RTFO Administrator and/or by paying into a buy-out fund. RTFCs are obtained by supplying their own biofuels or by purchasing RTFCs from other biofuel suppliers. A quarter of a company's obligation can be met by surplus RTFCs from the previous obligation year.

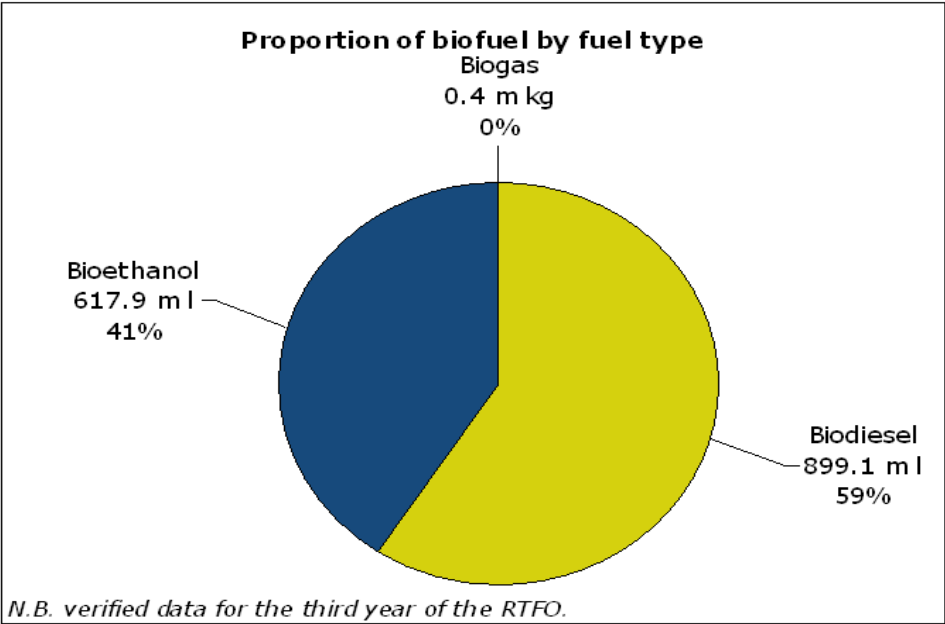
4. Under the RTFO Order, these reports must not contain information from which the volumes of fuel being reported by individual suppliers might be derived. To protect the volumes of individual suppliers, in previous months certain quantities of fuel reported as meeting the Qualifying Standard or RTFO Meta-Standard have been removed from the overall RTFO figures. In this report, all fuel meeting the Qualifying Standard or Meta-Standard has been included in the figures.

5. 80% of feedstocks should meet environmental sustainability standards in the year 2010/11. The ability of suppliers to source certifiably sustainable fuels is currently limited by the lack of operational sustainability standards for several feedstock/country combinations. Certified sustainable feedstock is expected to become increasingly available over time, as feedstock standards develop in response to the demand created by the RTFO and growing concern about the sustainability of agricultural commodities more widely. Suppliers can arrange their own audits against the RTFO Meta-Standard. There is more than enough RSPO certified palm oil to meet the entire UK demand for palm oil biodiesel feedstock.

6. Throughout this report 'Government targets' refers to targets set by the Government in 2007.

7. One obligated supplier, Valero, made a number of errors in its own annual report on fuels supplied under the RTFO, predominantly when calculating the weighted averages for the performance of its fuels. The company was given opportunity to correct these errors in its own annual report on fuels supplied under the RTFO but did not do so. The figures relating to this company's fuels published in this report are based on the data held by the RTFO administrator on ROS and do not replicate the erroneous calculations.

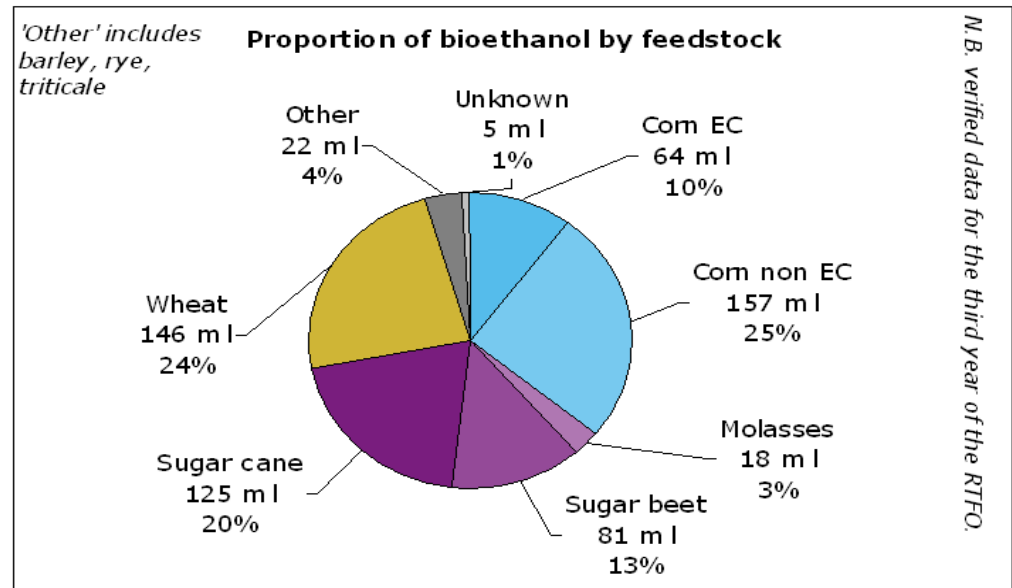
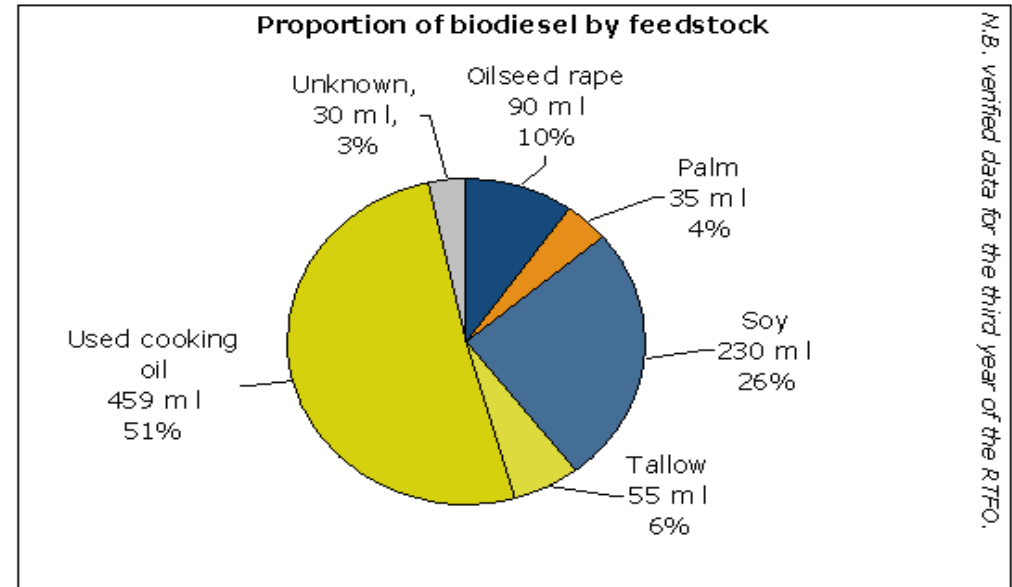
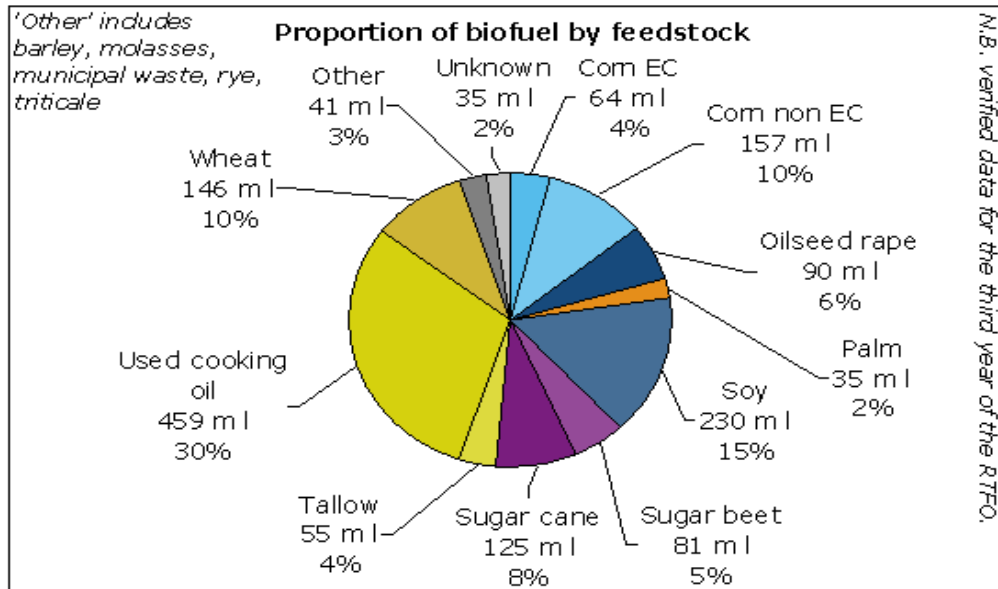
Volumes and proportions by fuel type



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Verified data for the 2010/11 obligation year

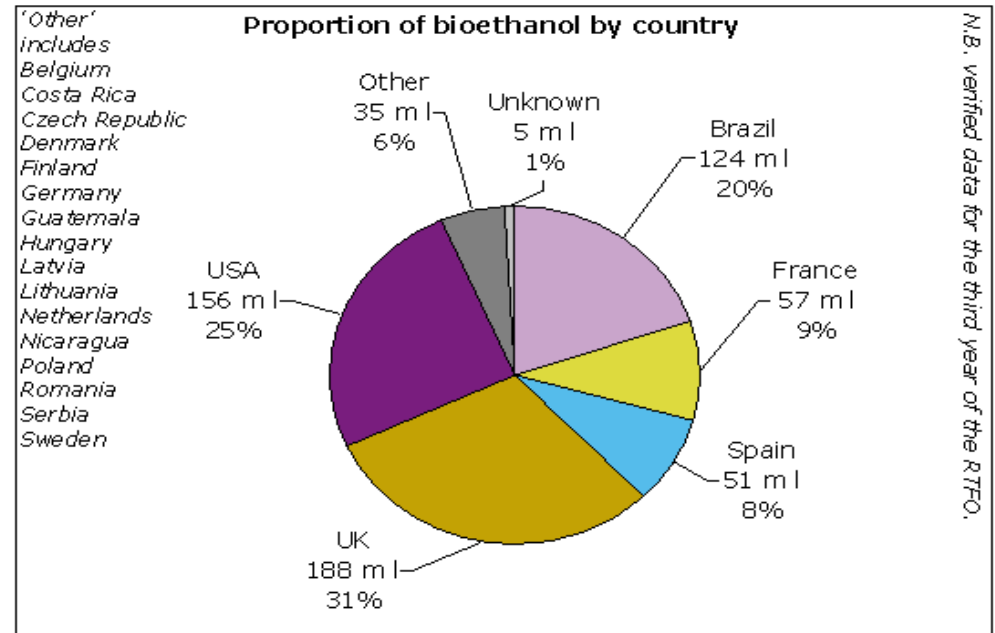
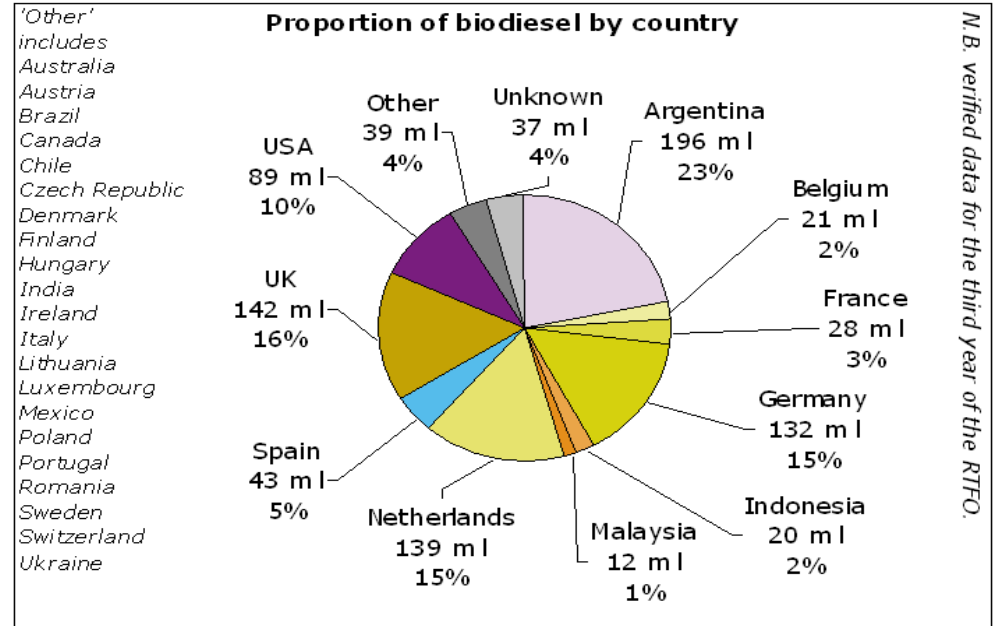
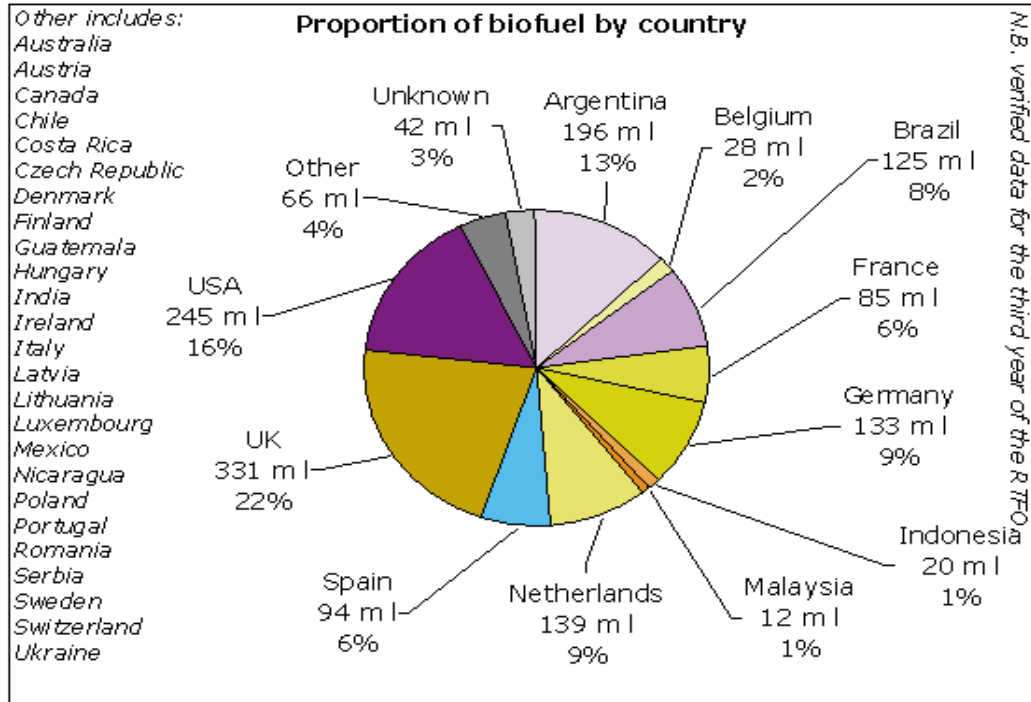
Proportions by feedstock



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Verified data for the 2010/11 obligation year

Proportions by country

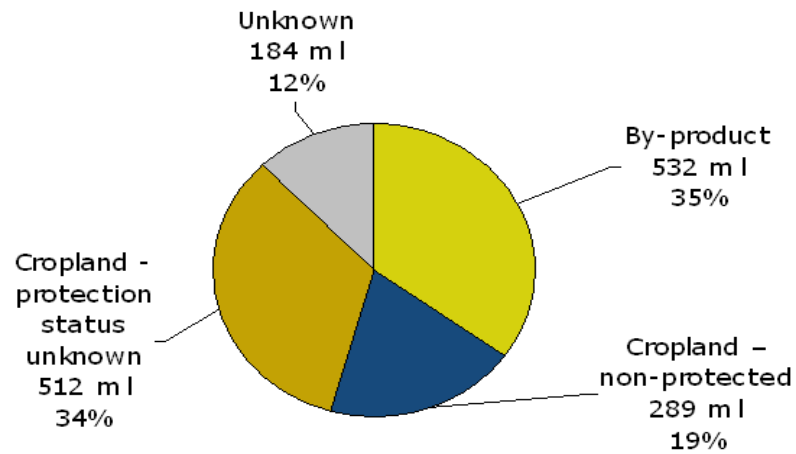


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Verified data for the 2010/11 obligation year

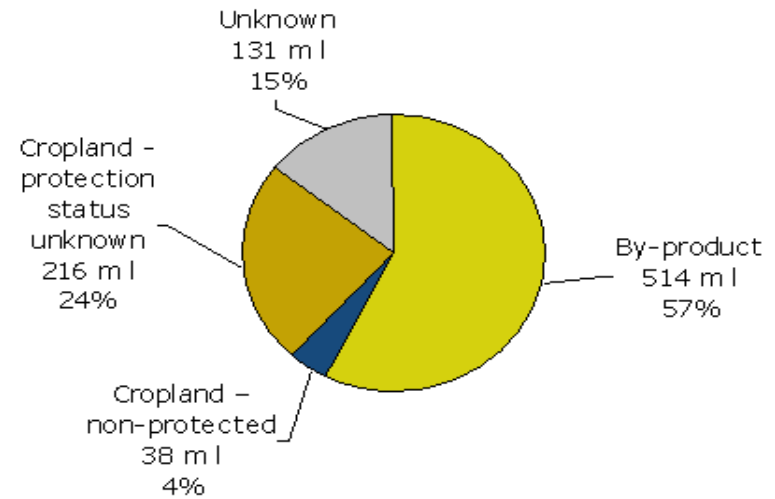
Proportions by previous land-use

Proportion of biofuel by previous land-use



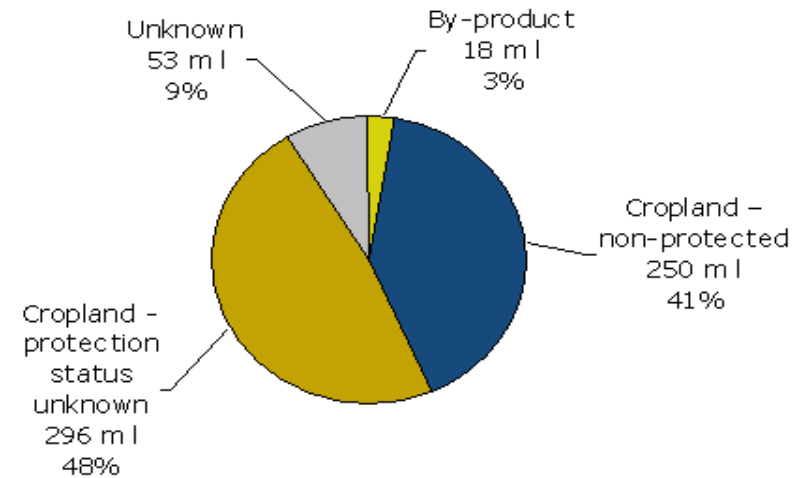
N.B. verified data for the third year of the RTFO.

Proportion of biodiesel by previous land-use



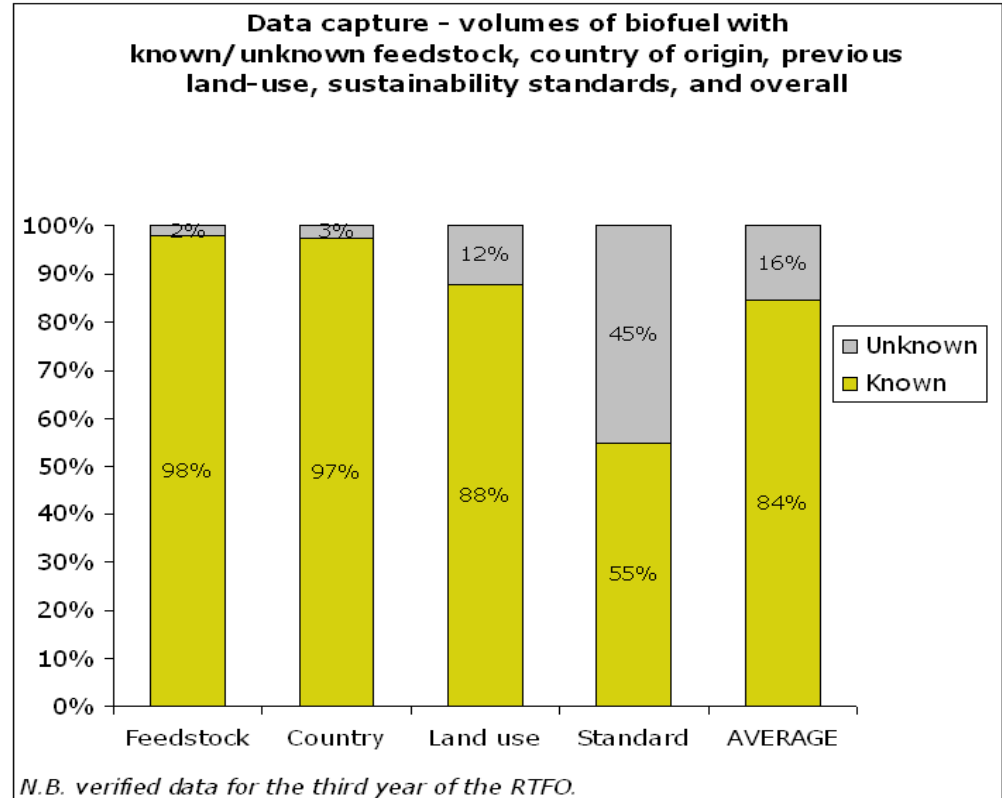
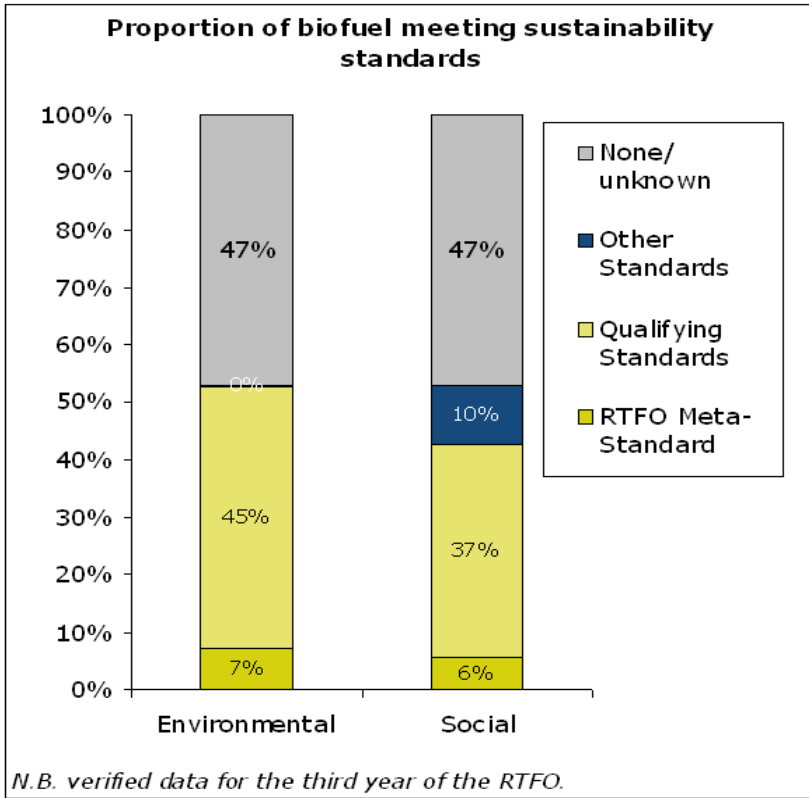
N.B. verified data for the third year of the RTFO.

Proportion of bioethanol by previous land-use



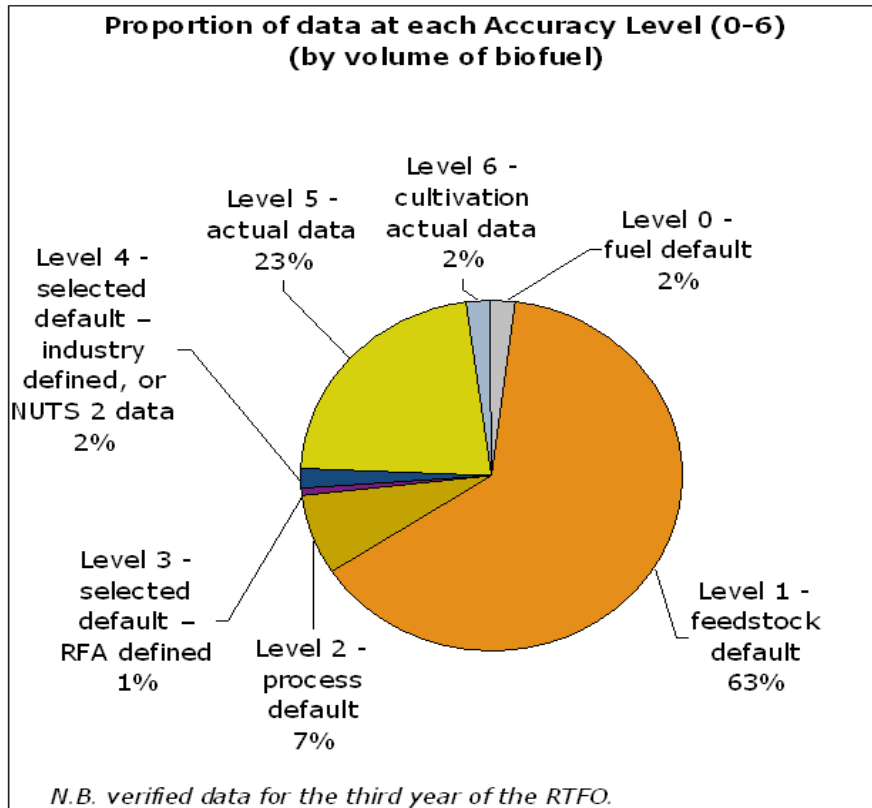
N.B. verified data for the third year of the RTFO.

Sustainability, data-capture and accuracy



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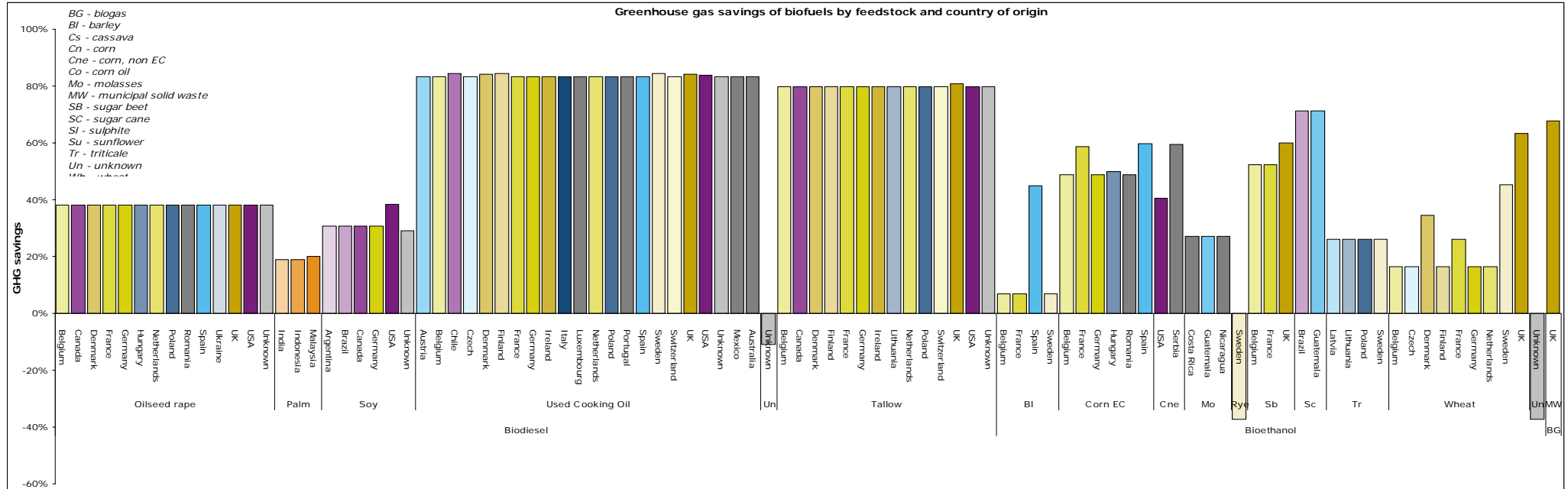
Verified data for the 2010/11 obligation year



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Verified data for the 2010/11 obligation year

Greenhouse gas savings

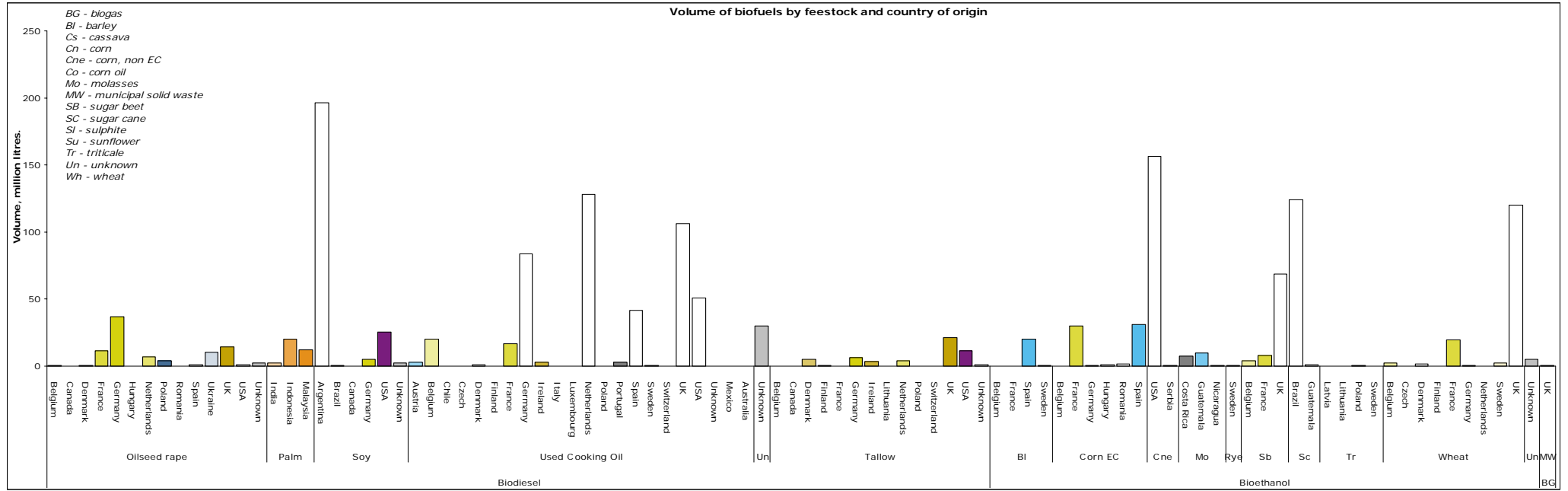


As there was no carbon default for rye, the conservative default for unknown feedstock has been reported. Consequently, negative GHG savings have been reported for this feedstock which may not represent the actual GHG savings.

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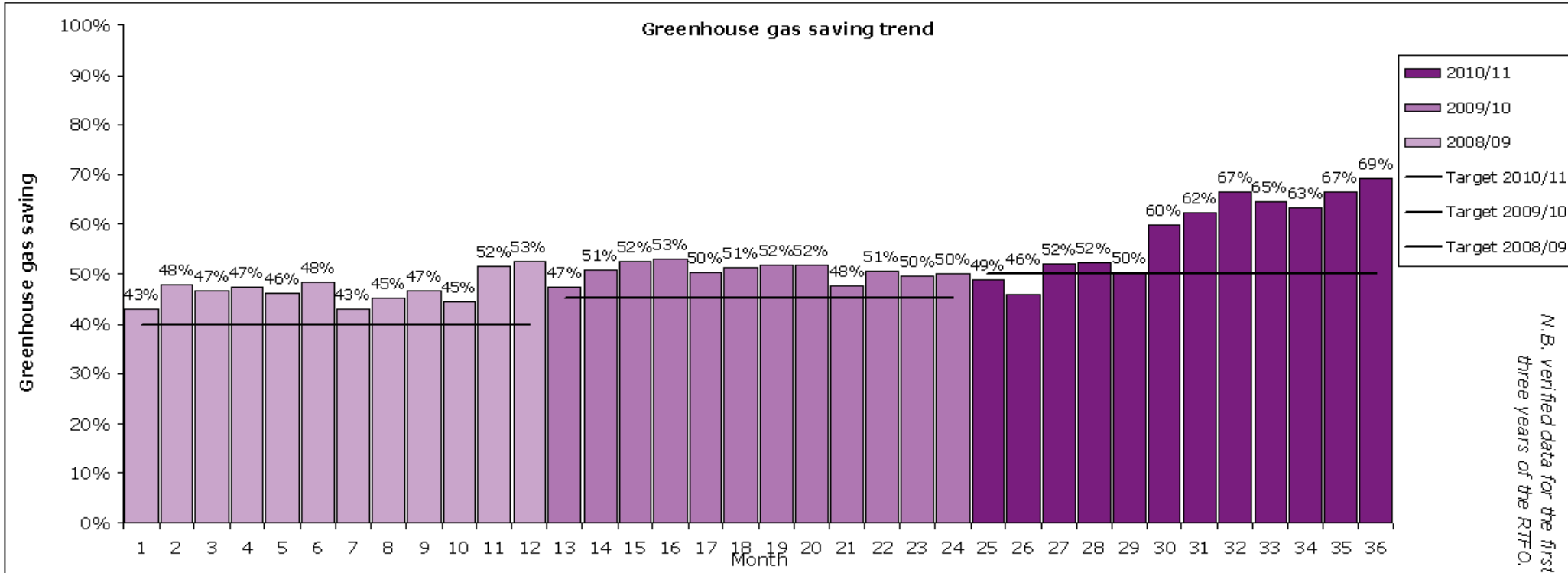
Verified data for the 2010/11 obligation year

Volume by feedstock and country



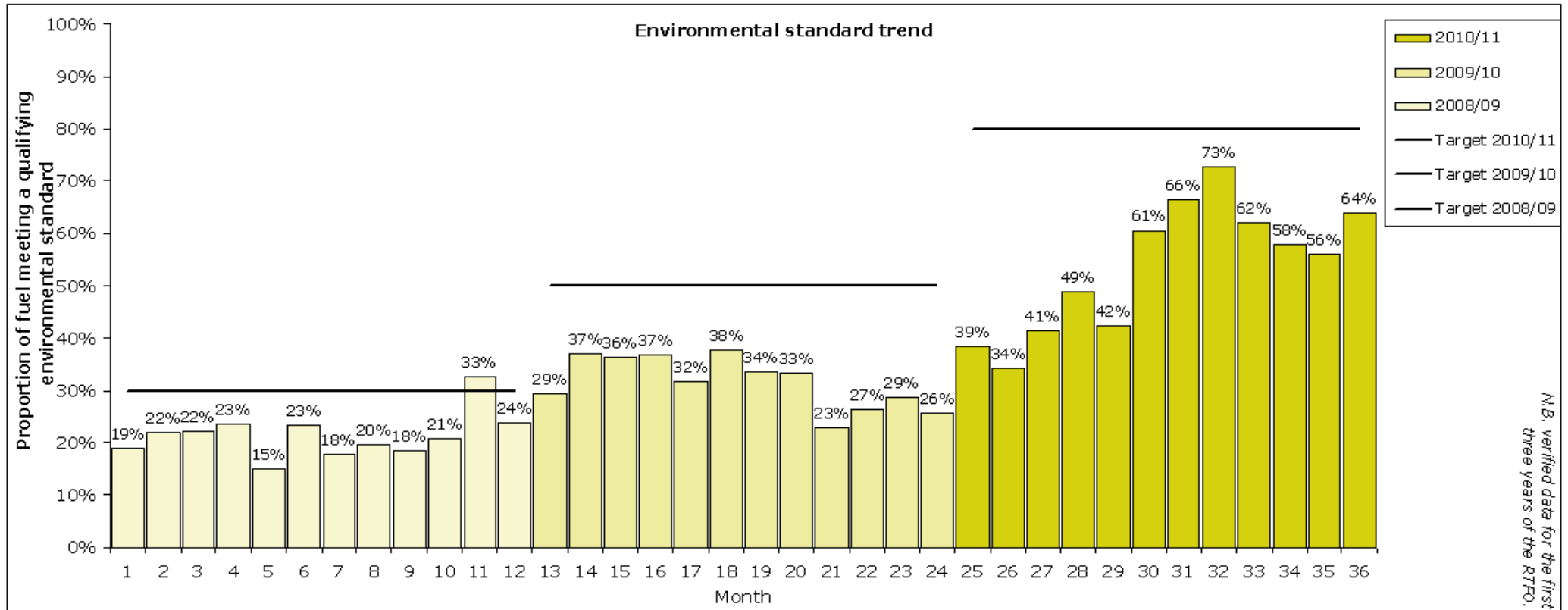
Year 3 Verified Report: 15 April 2010 - 14 April 2011
 Verified data for the obligation years 1, 2 and 3 (2008/09, 2009/10 and 2010/11).

Performance trends against the RTFO's targets



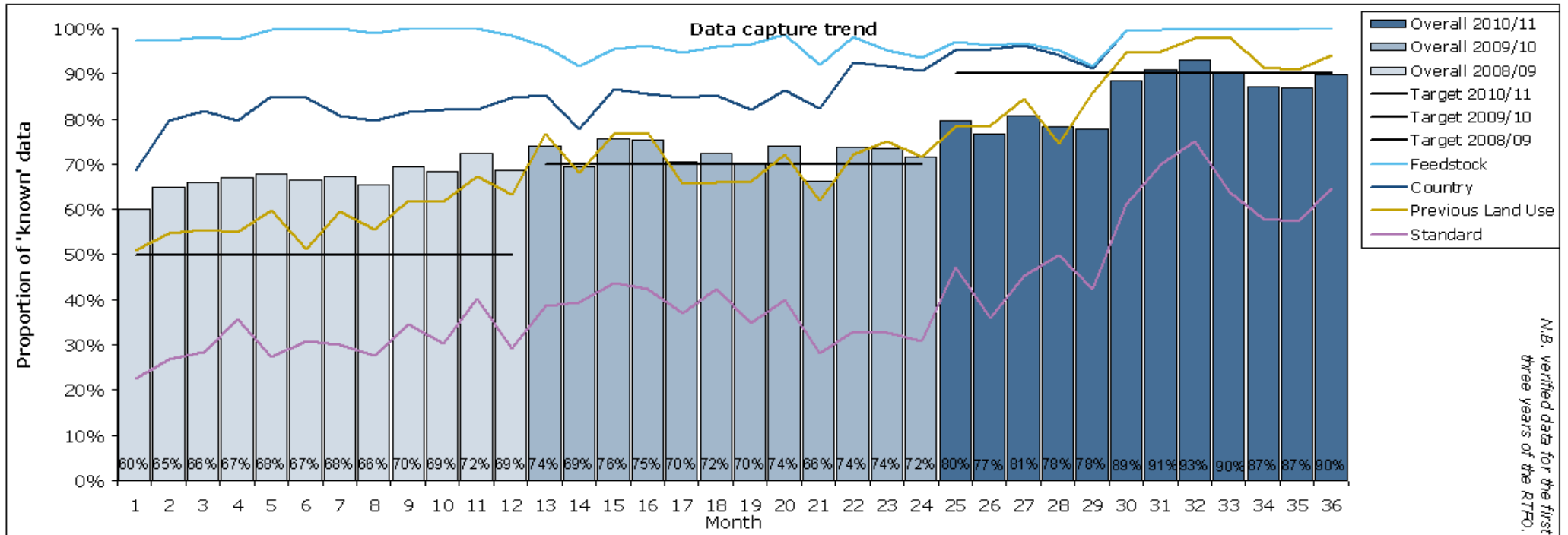
Year 3 Verified Report: 15 April 2010 - 14 April 2011
 Verified data for the obligation years 1, 2 and 3 (2008/09, 2009/10 and 2010/11).

Performance trends against the RTFO's targets



Year 3 Verified Report: 15 April 2010 - 14 April 2011
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Performance trends against the RTFO's targets



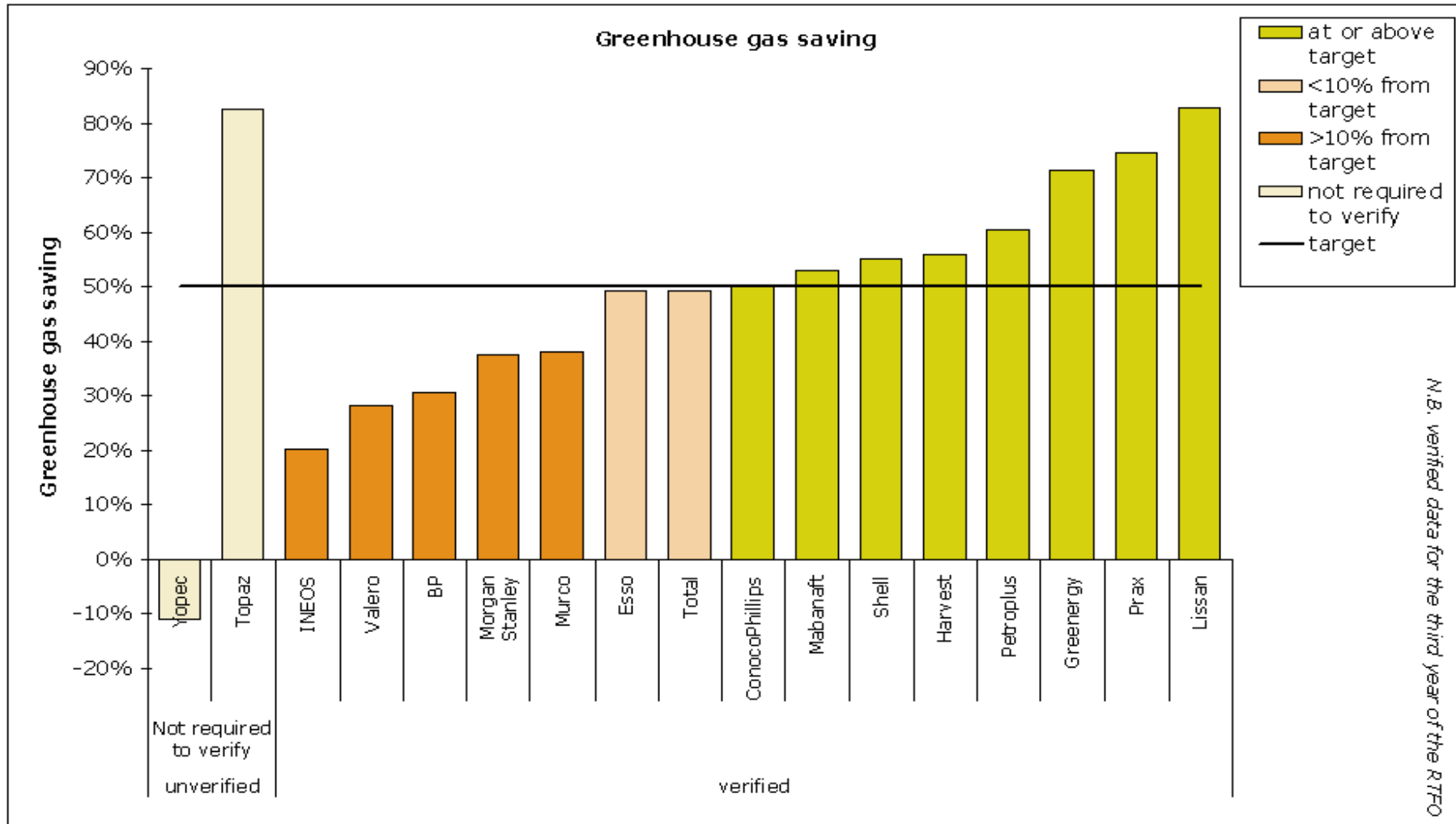
All data for the first 36 months of the RTFO is verified.

Fuel suppliers were encouraged to revise their data where they were able to provide more accurate information later in the year - for instance, adding information if they found out the previous land use of a biofuel plantation, or removing information if they had reason to believe that a sustainability standard might have been incorrectly reported. These data may not therefore correspond exactly to the data in previous RTFO reports. All data from suppliers supplying over 450,000 litres were subject to final verification at the end of the year.

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Verified data for the 2010/11 obligation year

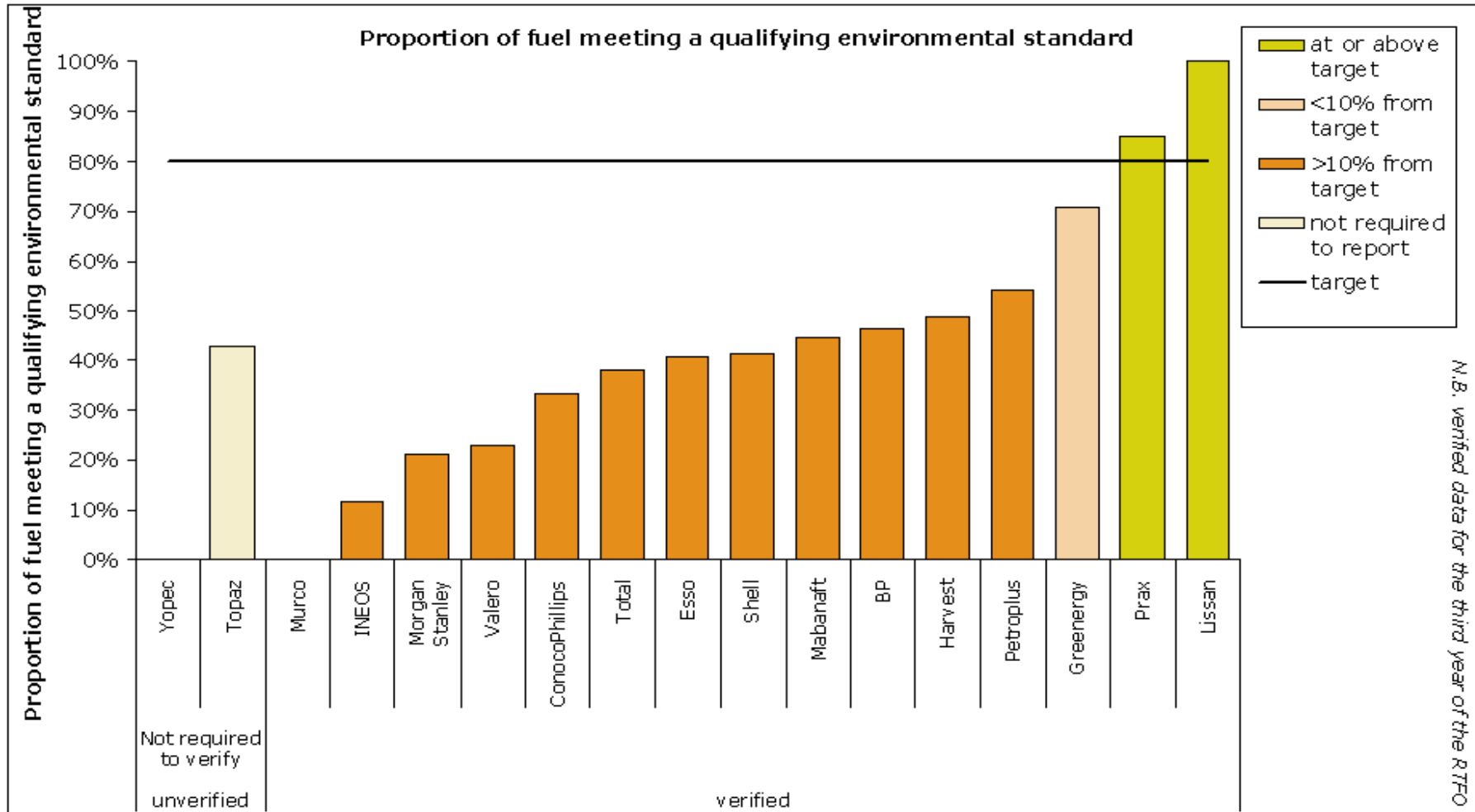
Obligated company performance against the RTFO's targets



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Verified data for the 2010/11 obligation year

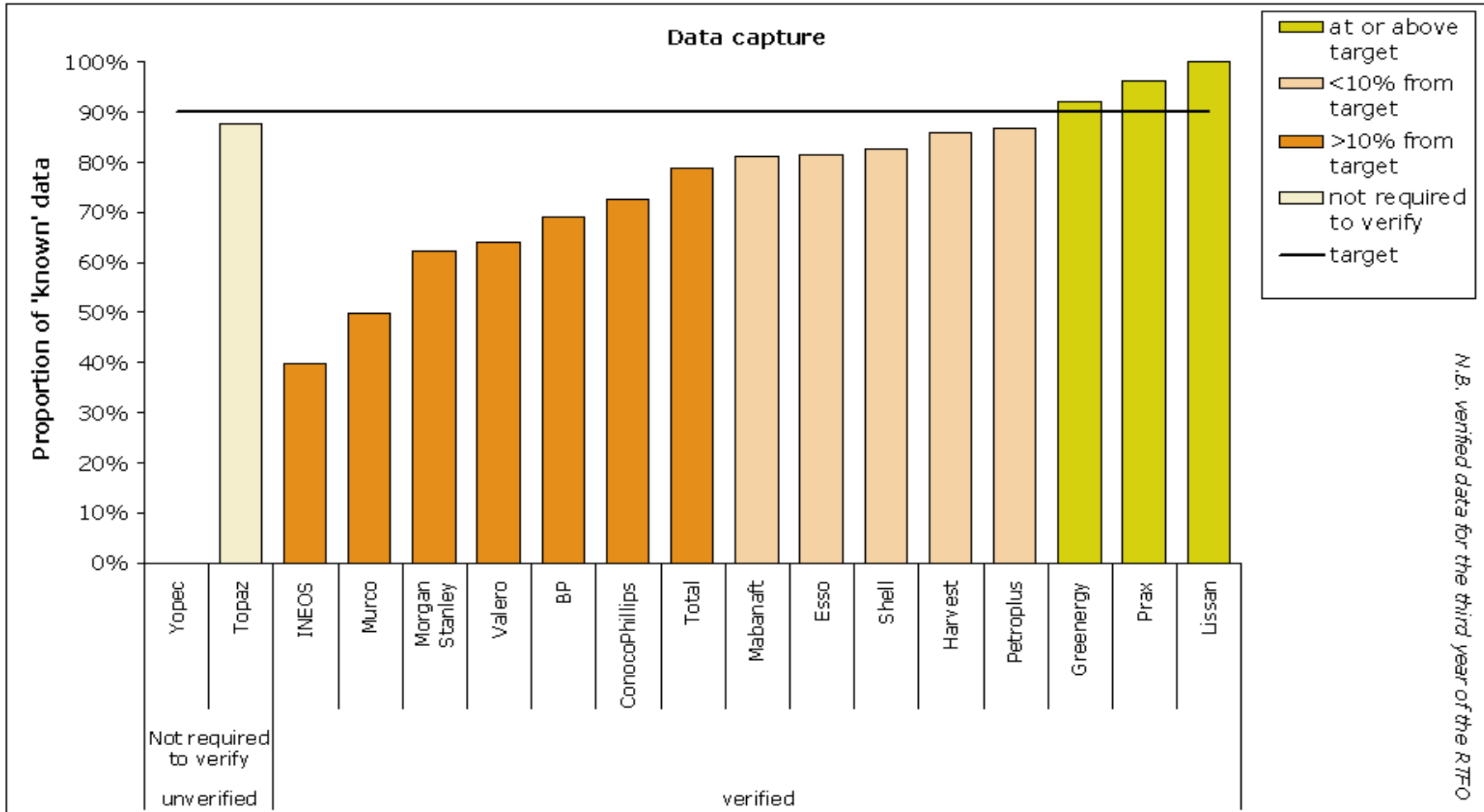
Obligated company performance against the RTFO's targets



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Verified data for the 2010/11 obligation year

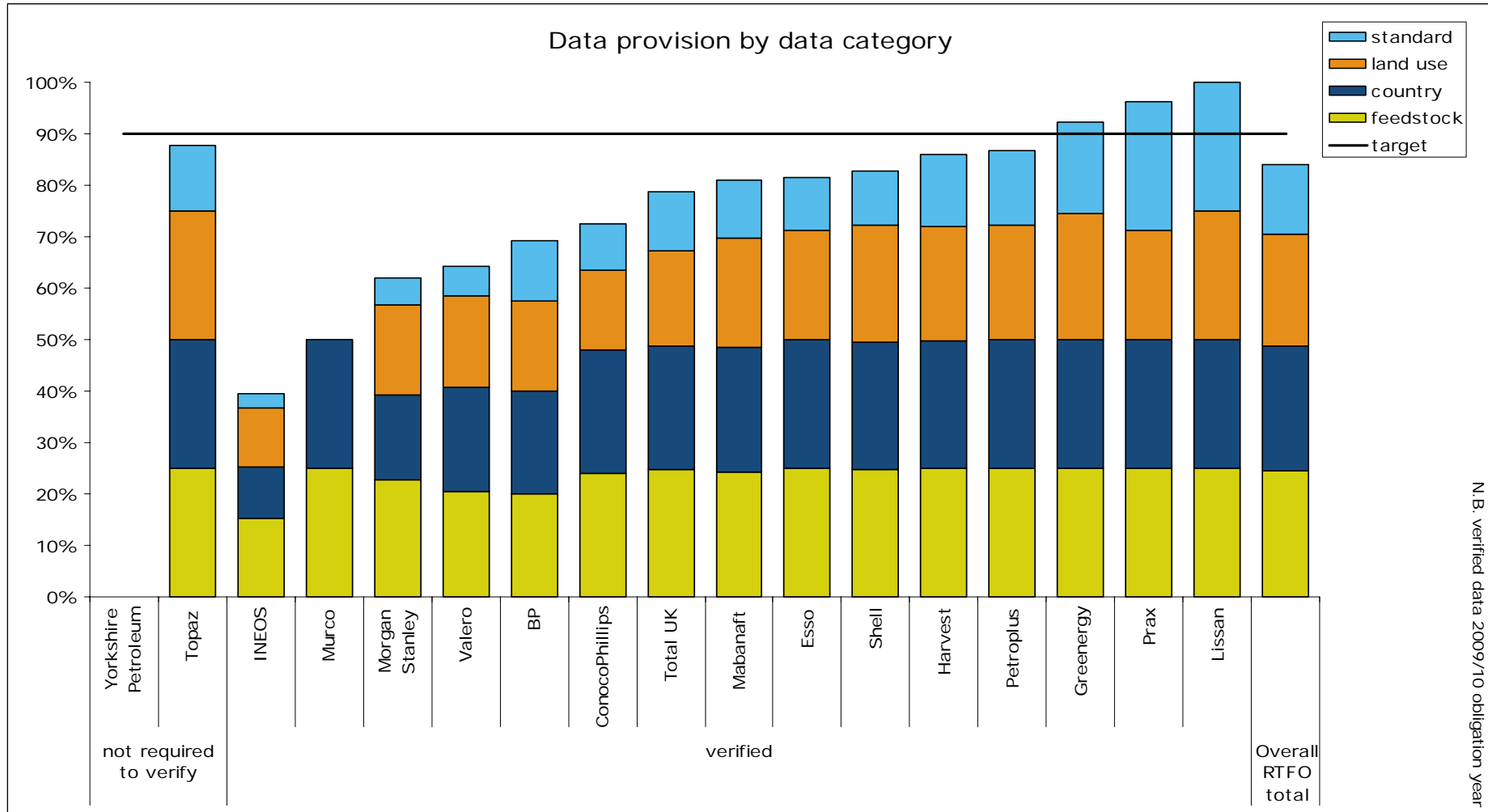
Obligated company performance against the RTFO's targets



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Verified data for the 2010/11 obligation year

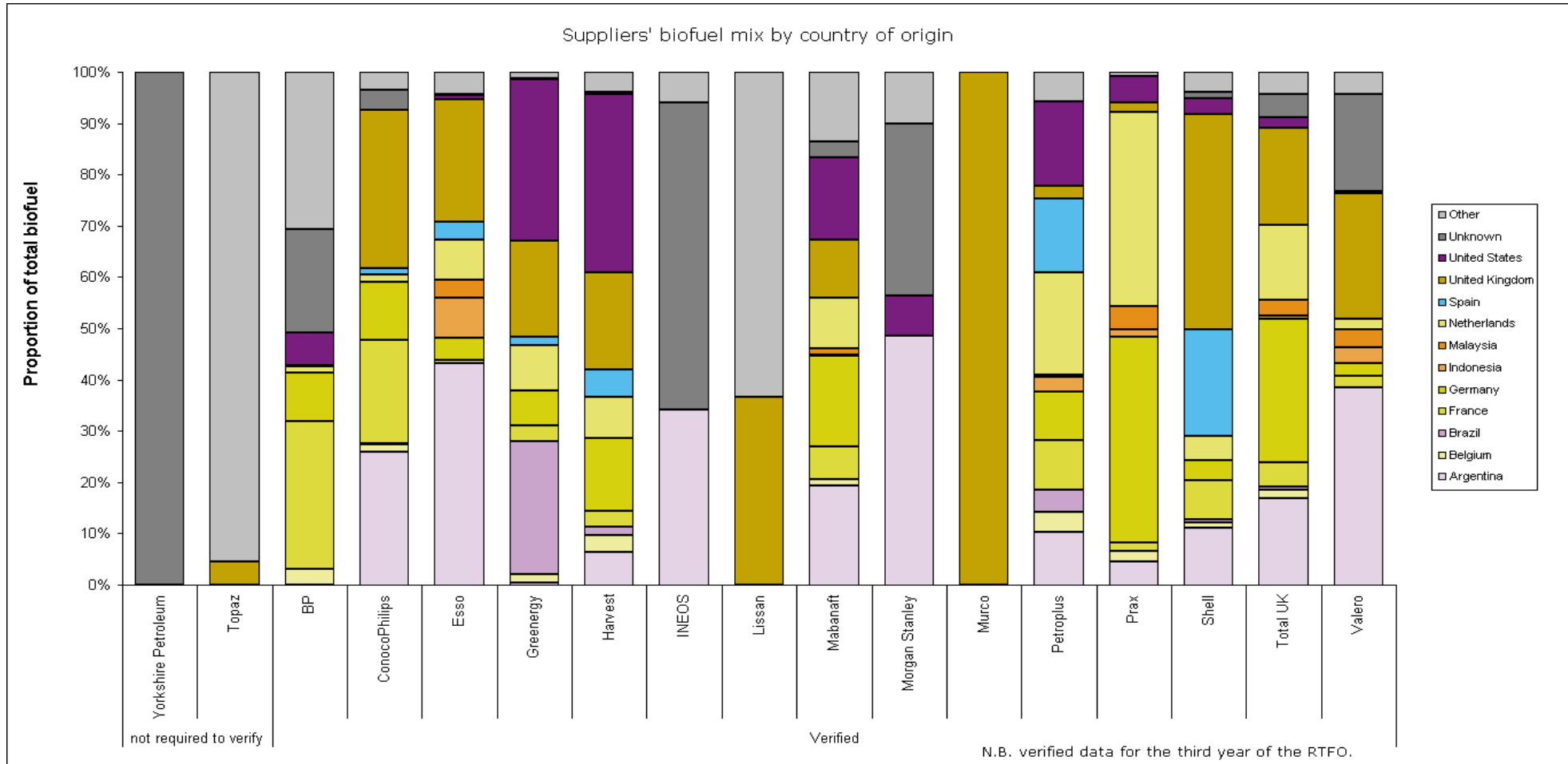
Obligated company performance against the RTFO's targets



Year 3 Verified Report: 15 April 2010 - 14 April 2011

Verified data for the 2010/11 obligation year

Obligated company performance against the RTFO's targets



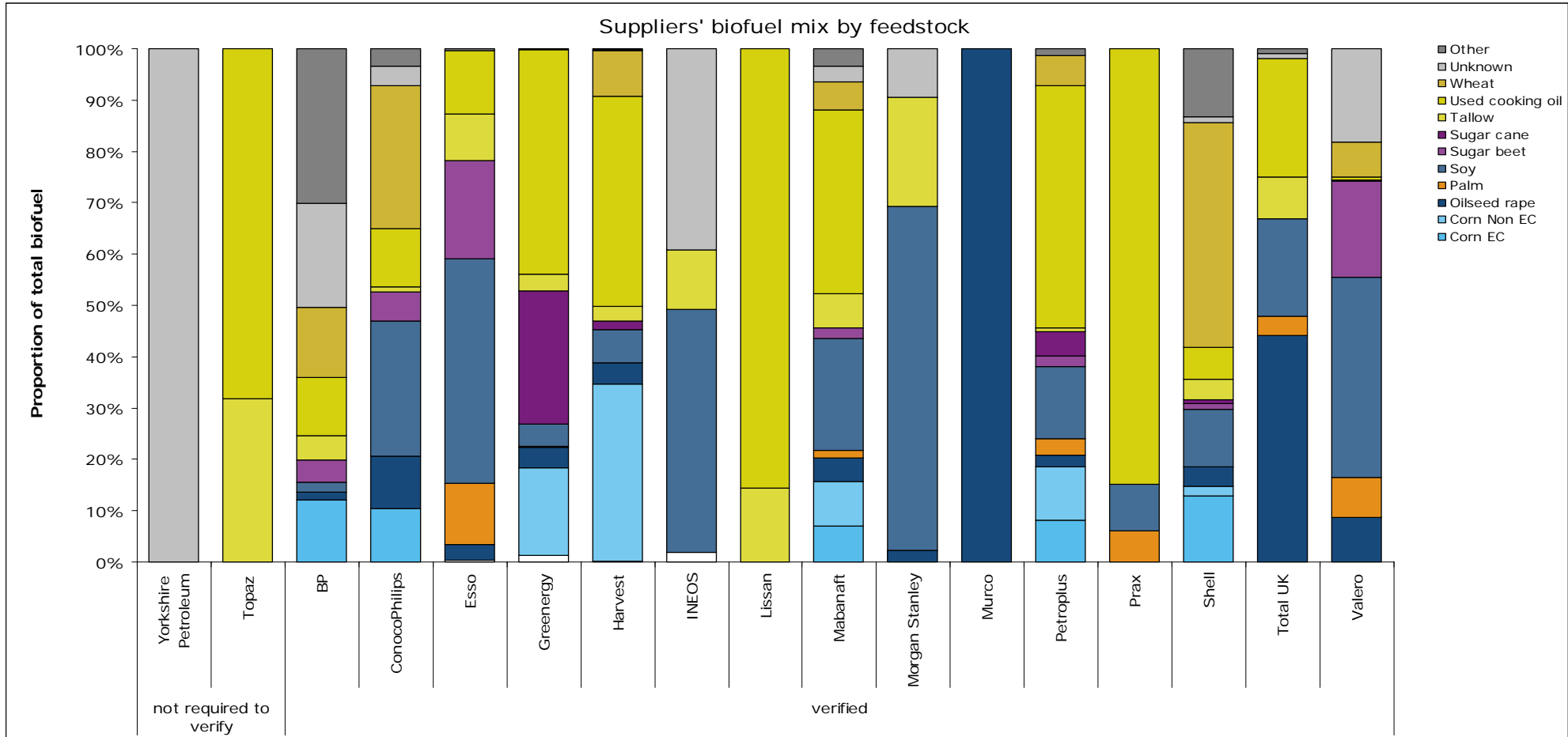
The above graph shows verified data for the third year of the RTFO.

In the graph above, 'other' includes Australia, Austria, Canada, Chile, Costa Rica, Czech Republic, Denmark, Finland, Guatemala, Hungary, India, Ireland, Italy, Latvia, Lithuania, Luxembourg, Mexico, Nicaragua, Poland, Portugal, Romania, Serbia, Sweden, Switzerland and Ukraine.

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Verified data for the 2010/11 obligation year

Obligated company performance against the RTFO's targets



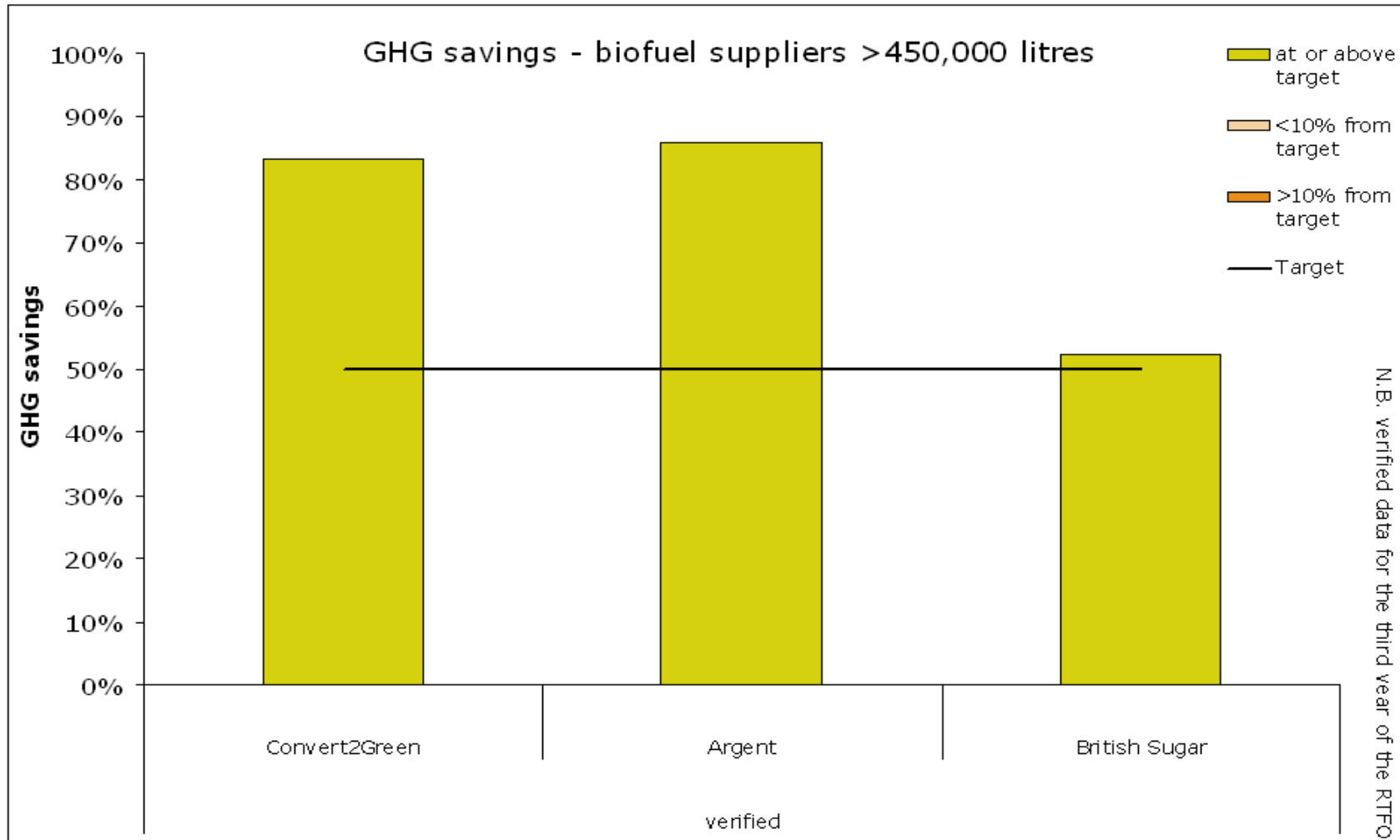
The above graph shows verified data for the third year of the RTFO.

In the graph above, 'other' includes barley, molasses, municipal organic waste, rye and triticale

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Verified data for the 2010/11 obligation year

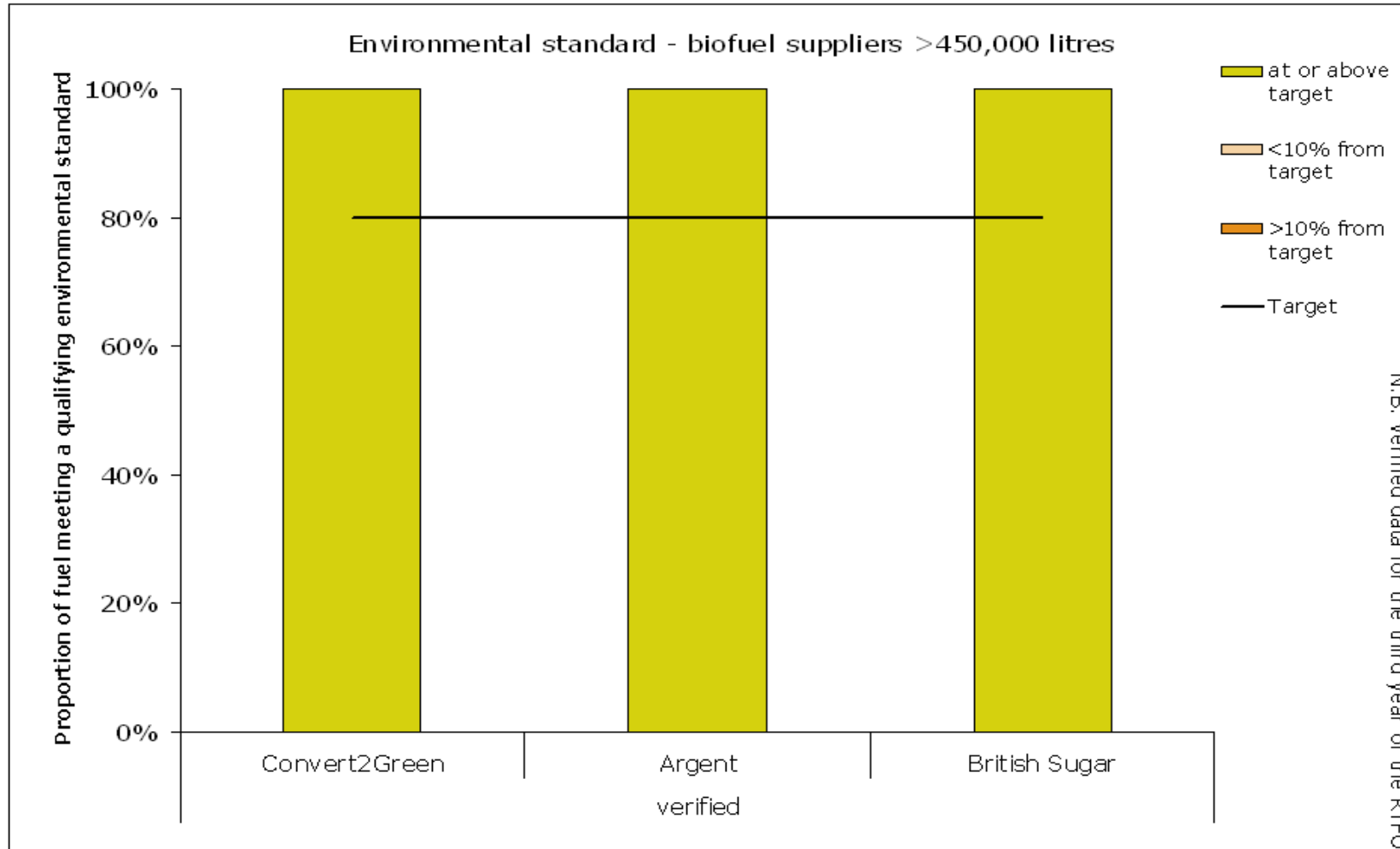
Non obligated company performance against the RTFO's targets



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Verified data for the 2010/11 obligation year

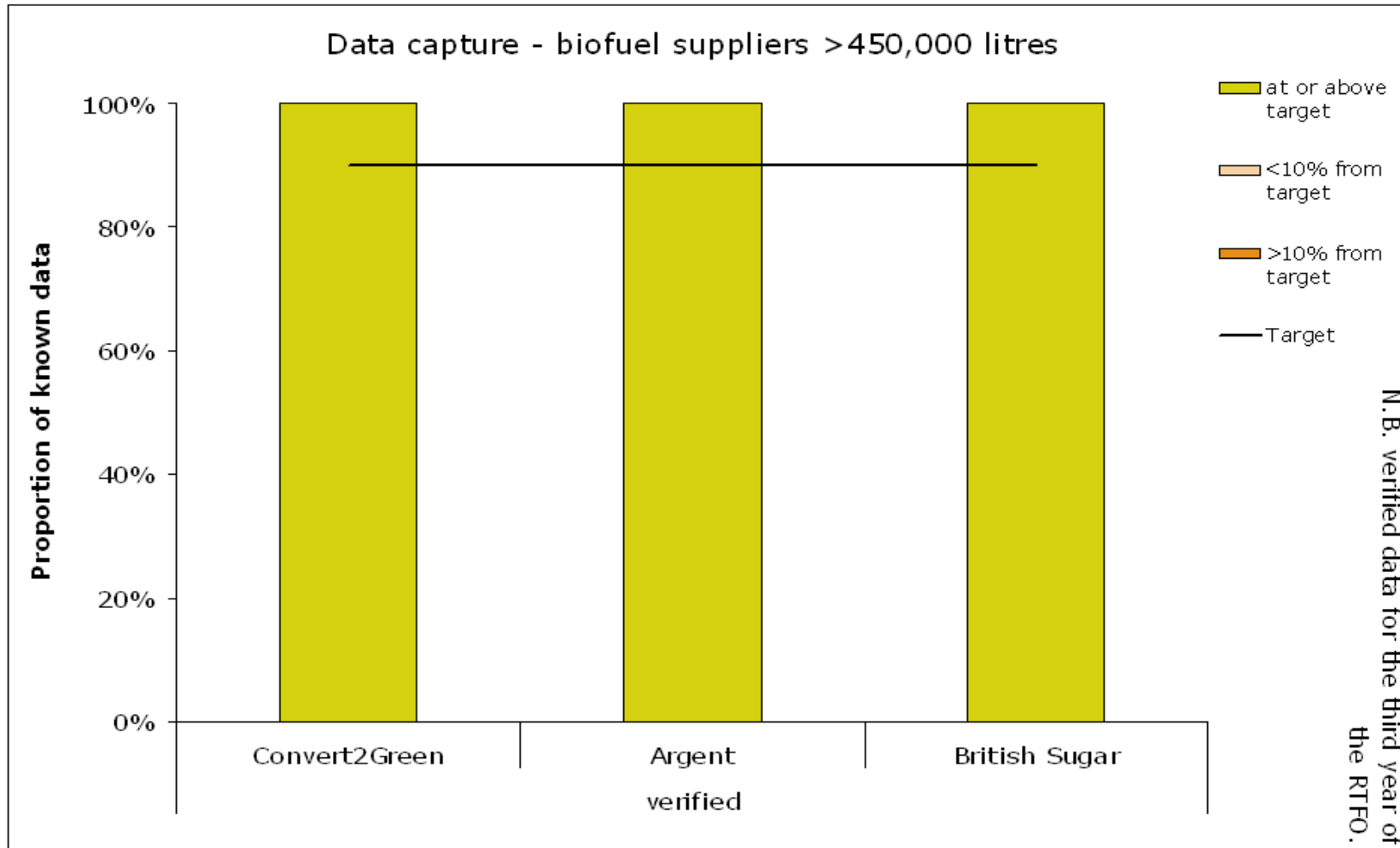
Non obligated company performance against the RTFO's targets



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Verified data for the 2010/11 obligation year

Non obligated company performance against the RTFO's targets



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Verified data for the 2010/11 obligation year

Table 1: Performance of the RTFO against the three carbon and sustainability targets set by the Government in 2007.

Annual Supplier Target	2010/11 Obligation period		2009/10 Obligation period		2008/09 Obligation period	
	Target	Actual	Target	Actual	Target	Actual
Percentage of feedstock meeting a Qualifying Environmental Standard	80%	53%	50%	31%	30%	20%
Annual GHG saving of fuel supplied	50%	57%	45%	51%	40%	46%
Data reporting of renewable fuel characteristics	90%	84%	70%	72%	50%	64%

Table 2: Volume of biofuels supplied for road transport under the RTFO.

Fuel type	Biofuel type	Volume (millions l) or mass (millions kg)*	Fossil fuel type	Volume, million l**	Biofuels as a proportion of total road transport fuels supplied
		Biodiesel	899.1	Diesel	24,958
	Bioethanol	617.9	Petrol	19,876	3.02%
	Biogas	0.4			
	Total	1,517.5		44834	3.27%
	Annual target				3.50%

* Biodiesel and bioethanol volumes are reported in litres and biogas volumes are reported in kilograms.

** Fossil fuel volumes given are *obligated volumes* and may differ from HMRC totals.

Table 3: Carbon and sustainability data of biofuels by fuel type.

Fuel type	Biofuel type	Volume, l or kg	Volume, million l or million kg	Volume, %	Proportion meeting an environmental standard				Proportion meeting a social standard				Carbon intensity, g(CO ₂ e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)
					RTFO	Qualifying Standards	Other standards	None/ unknown	RTFO	Qualifying Standards	Other standards	None/ unknown			
	Biodiesel	899,148,471	899.1	59%	0%	58%	0%	41%	0%	58%	1%	41%	34	60%	1.6
	Bioethanol	617,879,884	617.9	41%	17%	26%	0%	56%	14%	7%	23%	56%	39	54%	2.9
	Biogas	428,207	0.4	0%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0
	Total	1,517,456,562	1,517.5	100%											
	Mean				7%	45%	0%	47%	6%	37%	10%	47%	36	57%	2.1

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Verified data for the 2010/11 obligation year

Table 4: Carbon and sustainability data of biodiesel from different feedstocks, countries, and according to the previous land-use.

		Volume, litres	Volume, million litres	Volume, %	Proportion meeting an environmental standard			Proportion meeting a social standard			Carbon intensity, g(CO ₂ e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)		
					RTFO	QS	Other standards	None/ unknown	RTFO	QS				Other standards	None/ unknown
Feedstock	<i>Oilseed rape</i>	90,259,825	90.3	10%	0%	8%	5%	87%	0%	0%	13%	87%	52	38%	1.2
	<i>Palm</i>	34,707,849	34.7	4%	0%	5%	0%	95%	0%	5%	0%	95%	68	19%	1.1
	<i>Soy</i>	229,903,197	229.9	26%	0%	1%	0%	99%	0%	1%	0%	99%	57	32%	1.3
	<i>Used cooking oil</i>	459,242,649	459.2	51%	0%	100%	0%	0%	0%	100%	0%	0%	14	84%	1.9
	<i>Tallow - (Year 3)</i>	54,758,293	54.8	6%	0%	100%	0%	0%	0%	100%	0%	0%	17	80%	1.5
	<i>Unknown</i>	30,276,658	30.3	3%	0%	0%	0%	100%	0%	0%	0%	100%	93	-11%	0.0
	Total	899,148,471	899.1	100%	0%	58%	0%	41%	0%	58%	1%	41%	34	60%	1.6
Mean															
Country of origin	<i>Argentina</i>	196,251,145	196.3	22%	0%	2%	0%	98%	0%	2%	0%	98%	58	31%	1.0
	<i>Australia</i>	38,892	0.0	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	<i>Austria</i>	2,928,275	2.9	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.2
	<i>Belgium</i>	21,413,723	21.4	2%	0%	96%	0%	4%	0%	96%	0%	4%	15	82%	1.2
	<i>Brazil</i>	642,094	0.6	0%	0%	0%	0%	100%	0%	0%	0%	100%	58	31%	1.0
	<i>Canada</i>	285,855	0.3	0%	0%	16%	0%	84%	0%	16%	0%	84%	50	40%	1.0
	<i>Chile</i>	225,277	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	13	84%	5.0
	<i>Czech Republic</i>	113,920	0.1	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	<i>Denmark</i>	6,634,298	6.6	1%	0%	92%	0%	8%	0%	92%	0%	8%	19	77%	1.4
	<i>Finland</i>	797,290	0.8	0%	0%	100%	0%	0%	0%	100%	0%	0%	16	81%	2.2
	<i>France</i>	27,870,516	27.9	3%	0%	60%	2%	39%	0%	60%	2%	39%	29	65%	1.1
	<i>Germany</i>	132,420,190	132.4	15%	0%	68%	2%	30%	0%	68%	2%	30%	26	68%	1.1
	<i>Hungary</i>	167,779	0.2	0%	0%	0%	0%	100%	0%	0%	0%	100%	52	38%	2.0
	<i>India</i>	2,327,297	2.3	0%	0%	0%	0%	100%	0%	0%	0%	100%	68	19%	1.0
	<i>Indonesia</i>	20,162,531	20.2	2%	0%	0%	0%	100%	0%	0%	0%	100%	68	19%	1.0
	<i>Ireland, Republic of</i>	6,326,135	6.3	1%	0%	96%	0%	4%	0%	96%	0%	4%	16	81%	1.3
	<i>Italy</i>	275,732	0.3	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.1
	<i>Lithuania</i>	170,594	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	17	80%	1.0
	<i>Luxembourg</i>	166,997	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	<i>Malaysia</i>	12,218,021	12.2	1%	0%	15%	0%	85%	0%	15%	0%	85%	67	20%	1.2
	<i>Mexico</i>	22,119	0.0	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	<i>Netherlands</i>	139,293,624	139.3	15%	0%	95%	0%	5%	0%	95%	0%	5%	16	81%	1.1
	<i>Poland</i>	4,218,960	4.2	0%	0%	2%	0%	98%	0%	2%	0%	98%	51	39%	1.0
	<i>Portugal</i>	2,931,640	2.9	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.1
	<i>Romania</i>	20,000	0.0	0%	0%	0%	0%	100%	0%	0%	0%	100%	52	38%	1.0
	<i>Spain</i>	42,697,424	42.7	5%	0%	97%	0%	3%	0%	97%	0%	3%	15	82%	1.1
	<i>Sweden</i>	377,535	0.4	0%	0%	100%	0%	0%	0%	100%	0%	0%	13	84%	5.0
	<i>Switzerland</i>	168,287	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	<i>Ukraine</i>	10,142,732	10.1	1%	0%	0%	8%	92%	0%	0%	8%	92%	52	38%	1.3
	<i>United Kingdom</i>	142,468,621	142.5	16%	0%	95%	0%	5%	0%	90%	5%	5%	18	79%	3.3
	<i>United States</i>	88,703,152	88.7	10%	0%	70%	0%	30%	0%	70%	0%	30%	25	70%	2.7
	<i>Unknown</i>	36,667,816	36.7	4%	0%	4%	0%	96%	0%	4%	0%	96%	85	-1%	0.2
	Total	899,148,471	899.1	100%	0%	58%	0%	41%	0%	58%	1%	41%	34	60%	1.6
Mean															
Previous land-use	<i>By-product</i>	514,000,942	514.0	57%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.9
	<i>Cropland - non-protected</i>	38,405,811	38.4	4%	0%	5%	0%	95%	0%	1%	4%	95%	51	39%	2.4
	<i>Cropland - protection status unknown</i>	215,765,530	215.8	24%	0%	2%	1%	96%	0%	2%	1%	96%	58	31%	1.1
	<i>Unknown</i>	130,976,188	131.0	15%	0%	4%	1%	95%	0%	0%	5%	95%	66	22%	0.9
Total	899,148,471	899.1	100%	0%	58%	0%	41%	0%	58%	1%	41%	34	60%	1.6	
Mean															

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Table 5: Carbon and sustainability data of bioethanol from different feedstocks, countries, and according to the previous land-use.

		Volume, litres	Volume, million litres	Volume, %	Proportion meeting an environmental standard				Proportion meeting a social standard				Carbon intensity, g(CO ₂ e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)
					RTFO	QS	Other standards	None/ unknown	RTFO	QS	Other standards	None/ unknown			
Feedstock	Barley	21,049,892	21.0	3%	0%	0%	0%	100%	0%	0%	0%	100%	47	44%	4.9
	Corn EC	64,375,534	64.4	10%	0%	0%	0%	100%	0%	0%	0%	100%	35	59%	4.3
	Corn Non EC	156,842,747	156.8	25%	0%	0%	0%	100%	0%	0%	0%	100%	50	41%	3.2
	Molasses	17,972,279	18.0	3%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Rye	326,237	0.3	0%	0%	0%	0%	100%	0%	0%	0%	100%	115	-37%	1.0
	Sugar beet	80,552,746	80.6	13%	0%	85%	0%	15%	0%	0%	85%	15%	34	59%	2.5
	Sugar cane	124,930,947	124.9	20%	86%	1%	0%	12%	69%	19%	0%	12%	24	71%	1.0
	Triticale	900,181	0.9	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Wheat	145,832,765	145.8	24%	0%	51%	1%	48%	0%	0%	52%	48%	36	57%	4.0
	Unknown	5,096,556	5.1	1%	0%	0%	0%	100%	0%	0%	0%	100%	115	-37%	0.0
	Total	617,879,884	617.9	100%	17%	26%	0%	56%	14%	7%	23%	56%	39	54%	2.9
Mean															
Country of origin	Belgium	6,305,790	6.3	1%	0%	0%	0%	100%	0%	0%	0%	100%	51	39%	1.0
	Brazil	124,019,828	124.0	20%	87%	1%	0%	12%	70%	19%	0%	12%	24	71%	1.0
	Costa Rica	7,401,100	7.4	1%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Czech Republic	285,277	0.3	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
	Denmark	1,563,677	1.6	0%	0%	0%	0%	100%	0%	0%	0%	100%	55	35%	1.6
	Finland	42,057	0.0	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
	France	57,426,984	57.4	9%	0%	0%	0%	100%	0%	0%	0%	100%	45	47%	2.9
	Germany	882,822	0.9	0%	0%	0%	0%	100%	0%	0%	0%	100%	52	37%	1.0
	Guatemala	10,654,984	10.7	2%	0%	91%	0%	9%	0%	91%	0%	9%	58	31%	1.1
	Hungary	1,355,173	1.4	0%	0%	0%	0%	100%	0%	0%	0%	100%	42	50%	1.7
	Latvia	148,210	0.1	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Lithuania	37	0.0	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Netherlands	13,994	0.0	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
	Nicaragua	827,314	0.8	0%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Poland	600,259	0.6	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Romania	1,706,556	1.7	0%	0%	0%	0%	100%	0%	0%	0%	100%	43	49%	1.0
	Serbia	504,707	0.5	0%	0%	0%	0%	100%	0%	0%	0%	100%	34	59%	5.0
	Spain	51,365,124	51.4	8%	0%	0%	0%	100%	0%	0%	0%	100%	39	54%	4.7
	Sweden	2,895,023	2.9	0%	0%	0%	0%	100%	0%	0%	0%	100%	59	30%	1.9
	United Kingdom	188,446,372	188.4	30%	0%	76%	1%	23%	0%	0%	77%	23%	32	62%	3.9
United States	156,338,040	156.3	25%	0%	0%	0%	100%	0%	0%	0%	100%	50	41%	3.2	
Unknown	5,096,556	5.1	1%	0%	0%	0%	100%	0%	0%	0%	100%	115	-37%	0.0	
Total	617,879,884	617.9	100%	17%	26%	0%	56%	14%	7%	23%	56%	39	54%	2.9	
Mean															
Previous land-use	By-product	17,972,279	18.0	3%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Cropland - non-protected	250,389,580	250.4	41%	43%	18%	0%	39%	33%	9%	18%	39%	32	61%	2.3
	Cropland - protection status unknown	296,032,117	296.0	48%	0%	33%	0%	66%	1%	0%	33%	66%	39	53%	3.8
	Unknown	53,485,908	53.5	9%	0%	1%	2%	97%	0%	0%	3%	97%	57	33%	1.9
	Total	617,879,884	617.9	100%	17%	26%	0%	56%	14%	7%	23%	56%	39	54%	2.9
Mean															

Table 6: Carbon and sustainability data of biogas by feedstock, country of origin and previous land-use.

		Volume, kilograms	Volume, million kilograms	Volume, %	Proportion meeting an environmental standard				Proportion meeting a social standard				Carbon intensity, g(CO ₂ e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)
					RTFO	QS	Other standards	None/ unknown	RTFO	QS	Other standards	None/ unknown			
Feedstock	MSW	428,207	0.4	100%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0
Country of origin	United Kingdom	428,207	0.4	100%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0
Previous land-use	By-product	428,207	0.4	100%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0

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Table 7: Carbon and sustainability data of total biofuel from different feedstocks, countries and according to the previous land-use.

	Volume, litres or kilograms	Volume, million litres/kilograms	Volume, %	Proportion meeting an environmental standard				Proportion meeting a social standard				Carbon intensity, g(CO ₂ e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)	
				RTFO	OS	Other standards	None/ unknown	RTFO	OS	Other standards	None/ unknown				
Feedstock	Barley	21,049,892	21.0	1%	0%	0%	0%	100%	0%	0%	0%	100%	47	44%	4.9
	Corn EC	64,375,534	64.4	4%	0%	0%	0%	100%	0%	0%	0%	100%	35	59%	4.3
	Corn Non EC	156,842,747	156.8	10%	0%	0%	0%	100%	0%	0%	0%	100%	50	41%	3.2
	Molasses	17,972,279	18.0	1%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Municipal organic waste	428,207	0.4	0%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0
	Oilseed rape	90,259,825	90.3	6%	0%	8%	5%	87%	0%	0%	13%	87%	52	38%	1.2
	Palm	34,707,849	34.7	2%	0%	5%	0%	95%	0%	5%	0%	95%	68	19%	1.1
	Rye	326,237	0.3	0%	0%	0%	0%	100%	0%	0%	0%	100%	115	-37%	1.0
	Soy	229,903,197	229.9	15%	0%	1%	0%	99%	0%	1%	0%	99%	57	32%	1.3
	Sugar beet	80,552,746	80.6	5%	0%	85%	0%	15%	0%	0%	85%	15%	34	59%	2.5
	Sugar cane	124,930,947	124.9	8%	86%	1%	0%	12%	69%	19%	0%	12%	24	71%	1.0
	Tallow - (Year 3)	54,758,293	54.8	4%	0%	100%	0%	0%	0%	100%	0%	0%	17	80%	1.5
	Triticale	900,181	0.9	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Used cooking oil	459,242,649	459.2	30%	0%	100%	0%	0%	0%	100%	0%	0%	14	84%	1.9
	Wheat	145,832,765	145.8	10%	0%	51%	1%	48%	0%	0%	52%	48%	36	57%	4.0
Unknown	35,373,214	35.4	2%	0%	0%	0%	100%	0%	0%	0%	100%	96	-15%	0.0	
Total	1,517,456,562	1517.5	100%		7%	45%	0%	47%	6%	37%	10%	47%	36	57%	2.1
Mean					7%	45%	0%	47%	6%	37%	10%	47%	36	57%	2.1
Country of origin	Argentina	196,251,145	196.3	13%	0%	2%	0%	98%	0%	2%	0%	98%	58	31%	1.0
	Australia	38,892	0.0	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	Austria	2,928,275	2.9	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.2
	Belgium	27,719,513	27.7	2%	0%	74%	0%	26%	0%	74%	0%	26%	24	72%	1.2
	Brazil	124,661,922	124.7	8%	87%	1%	0%	12%	69%	19%	0%	12%	24	71%	1.0
	Canada	285,855	0.3	0%	0%	16%	0%	84%	0%	16%	0%	84%	50	40%	1.0
	Chile	225,277	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	13	84%	5.0
	Costa Rica	7,401,100	7.4	0%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Czech Republic	399,197	0.4	0%	0%	29%	0%	71%	0%	29%	0%	71%	54	36%	1.0
	Denmark	8,197,975	8.2	1%	0%	75%	0%	25%	0%	75%	0%	25%	26	69%	1.5
	Finland	839,347	0.8	0%	0%	95%	0%	5%	0%	95%	0%	5%	19	78%	2.1
	France	85,297,500	85.3	6%	0%	19%	1%	80%	0%	19%	1%	80%	40	53%	2.3
	Germany	133,303,012	133.3	9%	0%	68%	2%	30%	0%	68%	2%	30%	27	68%	1.1
	Guatemala	10,654,984	10.7	1%	0%	91%	0%	9%	0%	91%	0%	9%	58	31%	1.1
	Hungary	1,522,952	1.5	0%	0%	0%	0%	100%	0%	0%	0%	100%	43	49%	1.7
	India	2,327,297	2.3	0%	0%	0%	0%	100%	0%	0%	0%	100%	68	19%	1.0
	Indonesia	20,162,531	20.2	1%	0%	0%	0%	100%	0%	0%	0%	100%	68	19%	1.0
	Ireland, Republic of	6,326,135	6.3	0%	0%	96%	0%	4%	0%	96%	0%	4%	16	81%	1.3
	Italy	275,732	0.3	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.1
	Latvia	148,210	0.1	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Lithuania	170,631	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	17	80%	1.0
	Luxembourg	166,997	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	Malaysia	12,218,021	12.2	1%	0%	15%	0%	85%	0%	15%	0%	85%	67	20%	1.2
	Mexico	22,119	0.0	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	Netherlands	139,307,618	139.3	9%	0%	95%	0%	5%	0%	95%	0%	5%	16	81%	1.1
	Nicaragua	827,314	0.8	0%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Poland	4,819,219	4.8	0%	0%	2%	0%	98%	0%	2%	0%	98%	53	37%	1.0
	Portugal	2,931,640	2.9	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.1
	Romania	1,726,556	1.7	0%	0%	0%	0%	100%	0%	0%	0%	100%	43	49%	1.0
	Serbia	504,707	0.5	0%	0%	0%	0%	100%	0%	0%	0%	100%	34	59%	5.0
	Spain	94,062,548	94.1	6%	0%	44%	0%	56%	0%	44%	0%	56%	28	67%	3.1
	Sweden	3,272,558	3.3	0%	0%	12%	0%	88%	0%	12%	0%	88%	53	36%	2.3
Switzerland	168,287	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0	
Ukraine	10,142,732	10.1	1%	0%	0%	8%	92%	0%	0%	8%	92%	52	38%	1.3	
United Kingdom	331,343,200	331.3	22%	0%	84%	1%	15%	0%	39%	46%	15%	26	69%	3.6	
United States	245,041,192	245.0	16%	0%	25%	0%	75%	0%	25%	0%	75%	41	51%	3.0	
Unknown	41,764,372	41.8	3%	0%	4%	0%	96%	0%	4%	0%	96%	89	-6%	0.2	
Total	1,517,456,562	1517.5	100%		7%	45%	0%	47%	6%	37%	10%	47%	36	57%	2.1
Mean					7%	45%	0%	47%	6%	37%	10%	47%	36	57%	2.1
Previous land-use	By-product	532,401,428	532.4	35%	0%	100%	0%	0%	0%	100%	0%	0%	16	81%	1.9
	Cropland - non-protected	288,795,391	288.8	19%	37%	16%	0%	47%	29%	8%	16%	47%	35	58%	2.3
	Cropland - protection status unknown	511,797,647	511.8	34%	0%	20%	1%	79%	1%	20%	1%	79%	47	44%	2.6
	Unknown	184,462,096	184.5	12%	0%	3%	1%	95%	0%	0%	5%	95%	63	25%	1.2
Total	1,517,456,562	1517.5	100%		7%	45%	0%	47%	6%	37%	10%	47%	36	57%	2.1
Mean					7%	45%	0%	47%	6%	37%	10%	47%	36	57%	2.1

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Table 8: Carbon and sustainability data of biofuel from UK feedstocks, by feedstocks and according to the previous land-use.

		Volume, litres	Volume, million litres	Volume, %	Proportion meeting an environmental standard				Proportion meeting a social standard				Carbon intensity, g(CO ₂ e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)
					RTFO	OS	Other standards	None/ unknown	RTFO	OS	Other standards	None/ unknown			
Feedstock	Municipal organic waste	428,207	0.4	0%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0
	Oilseed rape	14,494,832	14.5	4%	0%	50%	0%	50%	0%	0%	50%	50%	52	38%	1.6
	Sugar beet	68,521,353	68.5	21%	0%	100%	0%	0%	0%	0%	100%	0%	34	60%	2.7
	Tallow - (Year 3)	21,560,115	21.6	7%	0%	100%	0%	0%	0%	100%	0%	0%	16	81%	2.0
	Used cooking oil	106,413,674	106.4	32%	0%	100%	0%	0%	0%	100%	0%	0%	13	84%	3.8
	Wheat	119,925,019	119.9	36%	0%	62%	2%	36%	0%	0%	64%	36%	31	63%	4.6
	Total	331,343,200	331.3	100%											
Mean					0%	84%	1%	15%	0%	39%	46%	15%	26	69%	3.6
Previous land-use	By-product	128,401,996	128.4	39%	0%	100%	0%	0%	0%	100%	0%	0%	14	84%	3.5
	Cropland – non-protected	49,441,275	49.4	15%	0%	94%	0%	6%	0%	0%	94%	6%	41	51%	1.1
	Cropland - protection status unknown	133,350,746	133.4	40%	0%	73%	1%	26%	0%	0%	74%	26%	29	66%	5.0
	Unknown	20,149,183	20.1	6%	0%	31%	6%	63%	0%	0%	37%	63%	45	46%	2.3
	Total	331,343,200	331.3	100%											
Mean					0%	84%	1%	15%	0%	39%	46%	15%	26	69%	3.6

N.B. This includes biofuels from UK feedstocks which have been sold into the UK road fuel market. UK biofuel feedstocks sold abroad are not included.

Table 9: Data capture

	Biofuel type	Data capture: feedstock known	Data capture: country known	Data capture: land use known	Data capture: standard known	Data capture: AVERAGE
Fuel type	Biodiesel	97%	96%	85%	61%	85%
	Bioethanol	99%	99%	91%	45%	84%
	Biogas	100%	100%	100%	100%	100%
	Total biofuel	98%	97%	88%	55%	84%
				Annual target	90%	

Table 10: Accuracy Level

	Biofuel type	Level 0 - Fuel default	Level 1 - Feedstock default	Level 2 - Process default	Level 3 - Selected default – RTFO Administrator defined	Level 4 - Selected default – Industry defined, or NUTS 2 data	Level 5 - Actual data	Level 6 - Cultivation actual data	ACCURACY LEVEL: AVERAGE
Fuel type	Biodiesel	3%	76%	6%	1%	2%	11%	0%	1.6
	Bioethanol	1%	45%	9%	0%	2%	39%	5%	2.9
	Biogas	0%	0%	0%	0%	0%	100%	0%	5.0
	Total Biofuel	2%	63%	7%	1%	2%	23%	2%	2.1

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Verified data for the obligation years 1, 2 and 3 (2008/09, 2009/10 and 2010/11).

Table 11: Trends

	Month	Volume, litres or kg	Volume	Proportion meeting an environmental standard				Greenhouse gas saving			Data capture						
				RTFO	OS	Env. Std. Target	± Target	Saving	Target	± Target	Feedstock	Country of origin	Previous land use	Standard	Average data capture	Target	± Target
Year 1	1	86,983,639	87.0 m l	5%	14%	30%	-11%	43%	40%	3%	97%	69%	51%	23%	60%	50%	10%
	2	122,708,284	122.7 m l	3%	19%	30%	-8%	48%	40%	8%	97%	80%	55%	27%	65%	50%	15%
	3	110,562,859	110.6 m l	4%	19%	30%	-8%	47%	40%	7%	98%	82%	55%	29%	66%	50%	16%
	4	112,609,421	112.6 m l	4%	20%	30%	-7%	47%	40%	7%	98%	80%	55%	36%	67%	50%	17%
	5	117,492,397	117.5 m l	4%	11%	30%	-15%	46%	40%	6%	100%	85%	60%	27%	68%	50%	18%
	6	116,848,541	116.8 m l	6%	18%	30%	-7%	48%	40%	8%	100%	85%	51%	31%	67%	50%	17%
	7	117,891,585	117.9 m l	13%	5%	30%	-12%	43%	40%	3%	100%	81%	60%	30%	68%	50%	18%
	8	112,111,217	112.1 m l	11%	9%	30%	-10%	45%	40%	5%	99%	80%	56%	28%	66%	50%	16%
	9	94,166,410	94.2 m l	8%	10%	30%	-12%	47%	40%	7%	100%	82%	62%	35%	70%	50%	20%
	10	96,400,546	96.4 m l	13%	8%	30%	-9%	45%	40%	5%	100%	82%	62%	30%	69%	50%	19%
	11	88,545,305	88.5 m l	17%	15%	30%	3%	52%	40%	12%	100%	82%	67%	40%	72%	50%	22%
	12	107,232,464	107.2 m l	9%	14%	30%	-6%	53%	40%	13%	99%	85%	63%	29%	69%	50%	19%
Year 2	13	103,367,499	103.4 m l	10%	20%	50%	-21%	47%	45%	2%	96%	85%	77%	39%	74%	70%	4%
	14	104,848,340	104.8 m l	14%	23%	50%	-13%	51%	45%	6%	92%	78%	68%	39%	69%	70%	-1%
	15	122,102,634	122.1 m l	16%	21%	50%	-14%	52%	45%	7%	96%	87%	77%	44%	76%	70%	6%
	16	119,988,509	120.0 m l	15%	21%	50%	-13%	53%	45%	8%	96%	86%	77%	43%	75%	70%	5%
	17	128,484,399	128.5 m l	14%	18%	50%	-18%	50%	45%	5%	94%	85%	66%	37%	70%	70%	0%
	18	131,647,133	131.6 m l	17%	21%	50%	-12%	51%	45%	6%	96%	85%	66%	42%	72%	70%	2%
	19	127,393,716	127.4 m l	17%	16%	50%	-16%	52%	45%	7%	97%	82%	66%	35%	70%	70%	0%
	20	137,456,413	137.5 m l	18%	15%	50%	-17%	52%	45%	7%	99%	86%	72%	40%	74%	70%	4%
	21	127,794,601	127.8 m l	13%	10%	50%	-27%	48%	45%	3%	92%	83%	62%	28%	66%	70%	-4%
	22	145,582,184	145.6 m l	12%	15%	50%	-23%	51%	45%	6%	98%	93%	72%	33%	74%	70%	4%
	23	142,822,810	142.8 m l	16%	13%	50%	-21%	50%	45%	5%	95%	92%	75%	33%	74%	70%	4%
	24	177,000,412	177.0 m l	10%	16%	50%	-24%	50%	45%	5%	94%	91%	72%	31%	72%	70%	2%
Year 3	25	140,904,353	140.9 m l	12%	26%	80%	-41%	49%	50%	-1%	97%	95%	79%	47%	80%	90%	-10%
	26	150,914,009	150.9 m l	4%	30%	80%	-46%	46%	50%	-4%	96%	96%	79%	36%	77%	90%	-13%
	27	134,736,373	134.7 m l	9%	33%	80%	-39%	52%	50%	2%	97%	96%	84%	45%	81%	90%	-9%
	28	148,737,809	148.7 m l	13%	36%	80%	-31%	52%	50%	2%	95%	94%	74%	50%	78%	90%	-12%
	29	146,916,214	146.9 m l	3%	40%	80%	-38%	50%	50%	0%	92%	91%	86%	42%	78%	90%	-12%
	30	155,878,676	155.9 m l	9%	52%	80%	-19%	60%	50%	10%	99%	99%	95%	61%	89%	90%	-1%
	31	122,109,116	122.1 m l	10%	56%	80%	-14%	62%	50%	12%	100%	100%	95%	70%	91%	90%	1%
	32	104,243,428	104.2 m l	14%	58%	80%	-7%	67%	50%	17%	100%	100%	98%	75%	93%	90%	3%
	33	101,773,716	101.8 m l	3%	59%	80%	-18%	65%	50%	15%	100%	100%	98%	64%	90%	90%	0%
	34	99,424,956	99.4 m l	1%	57%	80%	-22%	63%	50%	13%	100%	100%	92%	58%	87%	90%	-3%
	35	98,480,596	98.5 m l	2%	54%	80%	-24%	67%	50%	17%	100%	100%	91%	57%	87%	90%	-3%
	36	113,337,316	113.3 m l	1%	63%	80%	-16%	69%	50%	19%	100%	100%	94%	65%	90%	90%	0%

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Verified data for the 2010/11 obligation year

Table 12: Carbon and sustainability data for biofuels by fuel type, feedstock, country of origin, and previous land-use.

Biofuel type	Feedstock	Country of origin	Previous land-use	Volume, l or kg	Volume, million l or million kg	Volume, %	Proportion meeting an environmental standard	Qualifying Standards	meeting an environmental standard	Other standards	standard None/ unknown	Proportion meeting a social standard	Qualifying Standards	Other standards	None/ unknown	Carbon intensity, g(CO ₂ e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)			
Biodiesel	Oilseed rape	Belgium	Cropland – non-protected	10 122	0.0 m l	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0		
			Cropland - protection status unknown	649,790	0.6 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	2.7	
			Unknown	126 491	0.1 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
		Canada	Cropland – non-protected	55,561	0.1 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
			Cropland - protection status unknown	452,267	0.5 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
		Denmark	Cropland – non-protected	55 388	0.1 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
			Unknown	3,024,260	3.0 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
		France	Cropland – non-protected	5,886,043	5.9 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.2	
			Cropland - protection status unknown	2 375 125	2.4 m l	0%	0%	0%	20%	80%	0%	0%	20%	80%	0%	0%	100%	52	38%	1.2	
		Germany	Cropland – non-protected	7,031,441	7.0 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
			Cropland - protection status unknown	27,542,370	27.5 m l	2%	0%	0%	11%	89%	0%	0%	11%	89%	0%	0%	100%	52	38%	1.1	
			Unknown	2 659 070	2.7 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.5	
		Hungary	Cropland – non-protected	167,779	0.2 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	2.0	
			Cropland - protection status unknown	337 446	0.3 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
		Netherlands	Cropland – non-protected	6,007 877	6.0 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.1	
			Cropland - protection status unknown	398,004	0.4 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
		Poland	Cropland – non-protected	574 250	0.6 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
			Cropland - protection status unknown	3,552,630	3.6 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
		Romania	Cropland – non-protected	195	0.0 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
			Cropland - protection status unknown	20 000	0.0 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
		Spain	Cropland – non-protected	1,141 980	1.1 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
			Cropland - protection status unknown	3,562,530	3.6 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.5	
		Ukraine	Cropland – non-protected	4 646 734	4.6 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.2	
			Cropland - protection status unknown	1,933,468	1.9 m l	0%	0%	0%	44%	56%	0%	44%	56%	0%	0%	0%	100%	52	38%	1.5	
		United Kingdom	Cropland – non-protected	4 542 640	4.5 m l	0%	0%	35%	0%	65%	0%	0%	35%	65%	0%	0%	100%	52	38%	1.0	
			Cropland - protection status unknown	530 959	0.5 m l	0%	0%	7%	0%	93%	0%	7%	93%	0%	0%	0%	100%	52	38%	1.0	
		United States	Cropland – non-protected	9,421,233	9.4 m l	1%	0%	60%	0%	40%	0%	0%	60%	40%	0%	0%	100%	52	38%	2.0	
			Cropland - protection status unknown	619 797	0.6 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	100%	52	38%	1.0	
		Unknown	Cropland – non-protected	357,066	0.4 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	100%	52	38%	1.0	
			Cropland - protection status unknown	653,158	0.7 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	100%	52	38%	1.0	
		Palm	India	Cropland – non-protected	1 924 151	1.9 m l	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	52	38%	1.0	
			Cropland - protection status unknown	2,327,297	2.3 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	68	19%	1.0	
		Indonesia	Cropland – non-protected	16,402,853	16.4 m l	1%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	68	19%	1.0	
			Cropland - protection status unknown	3 759 438	3.8 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	68	19%	1.0	
		Malaysia	Cropland – non-protected	291 441	0.2 m l	0%	0%	100%	0%	0%	0%	100%	0%	0%	0%	0%	100%	68	19%	1.0	
			Cropland - protection status unknown	9,016,918	9.0 m l	1%	0%	16%	0%	84%	0%	16%	84%	0%	0%	0%	100%	67	21%	1.2	
		Soy	Unknown	2 909 642	2.9 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	100%	68	19%	1.0	
			Argentina	Cropland – non-protected	1,168,674	1.2 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%	58	31%	1.0	
		Brazil	Cropland – non-protected	128 759 705	128.8 m l	8%	0%	2%	0%	98%	0%	2%	98%	0%	0%	0%	100%	58	31%	1.1	
			Cropland - protection status unknown	66,322,766	66.3 m l	4%	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	100%	58	31%	1.0	
		Canada	Cropland – non-protected	642,094	0.6 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	58	31%	1.0	
			Cropland - protection status unknown	184 968	0.2 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	100%	58	31%	1.0	
		Germany	Cropland – non-protected	4,953,214	5.0 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	58	31%	1.0	
			Cropland - protection status unknown	17,243,190	17.2 m l	1%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	49	42%	4.0	
		United States	Cropland – non-protected	2 813 427	2.8 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	100%	58	31%	1.0	
			Cropland - protection status unknown	5,539,582	5.5 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	57	32%	1.2	
		Unknown	Cropland – non-protected	2,275,577	2.3 m l	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%	59	29%	1.0	
			Cropland - protection status unknown	236 970	0.2 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	100%	17	80%	1.0	
		Tallow - (Year 3)	Canada	By-product	45,326	0.0 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	17	80%	1.0
			Denmark	By-product	5 040 164	5.0 m l	0%	0%	100%	0%	0%	0%	100%	0%	0%	0%	0%	100%	17	80%	1.0
		Finland	By-product	562 733	0.6 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	17	80%	1.0	
			France	By-product	121,364	0.1 m l	0%	0%	100%	0%	0%	0%	100%	0%	0%	0%	0%	17	80%	2.1	
		Germany	By-product	6 516 099	6.5 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	17	80%	1.2	
			Ireland Republic of	By-product	3,523,051	3.5 m l	0%	0%	0%	0%	0%	97%	3%	0%	0%	0%	100%	17	80%	1.1	
		Lithuania	By-product	170,594	0.2 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	17	80%	1.0	
Netherlands	By-product		4 145 986	4.1 m l	0%	0%	100%	0%	0%	0%	100%	0%	0%	0%	0%	17	80%	1.3			
Poland	By-product	89,646	0.1 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	17	80%	2.4			
	Switzerland	By-product	651	0.0 m l	0%	0%	100%	0%	0%	0%	100%	0%	0%	0%	0%	17	80%	1.0			
United Kingdom	By-product	21 560 115	21.6 m l	1%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	16	81%	2.0				
	United States	By-product	11,313,680	11.3 m l	1%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	17	80%	1.0			
Unknown	By-product	1,431,914	1.4 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	17	80%	1.0			
	Australia	By-product	38 892	0.0 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	14	83%	1.0			
Used cooking oil	Austria	By-product	2,928,275	2.9 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	14	83%	1.2			
	Belgium	By-product	20 390 350	20.4 m l	1%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	14	83%	1.2			
Chile	By-product	225,277	0.2 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	13	84%	5.0				
	Czech Republic	By-product	113,920	0.1 m l	0%	0%	100%	0%	0%	0%	100%	0%	0%	0%	0%	14	83%	1.0			
Denmark	By-product	1 086 479	1.1 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	13	84%	3.5				
	Finland	By-product	234,557	0.2 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	13	84%	5.0			
France	By-product	16,463,724	16.5 m l	1%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	14	83%	1.1				
	Germany	By-product	83 717 996	83.7 m l	6%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	14	83%	1.1			
Ireland Republic of	By-product	2,803,084	2.8 m l	0%	0%	95%	0%	5%	0%	0%	95%	0%	0%	0%	14	83%	1.5				
	Italy	By-product	275,732	0.3 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	14	83%	1.1			
Luxembourg	By-product	166 997	0.2 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	14	83%	1.0				
	Mexico	By-product	22,119	0.0 m l	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	14	83%	1.0			

Bioethanol	Barley	Belgium	Cropland - protection status unknown	120 151	0.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	78	7%	1.0	
		France	Cropland - protection status unknown	120 151	0.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	78	7%	1.0	
		Spain	Cropland - protection status unknown	20,446,343	20.4 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	46	45%	5.0	
	Corn EC	Sweden	Cropland - protection status unknown	363 247	0.4 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	78	7%	1.0	
		Belgium	Cropland - protection status unknown	81,703	0.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	43	49%	1.0	
		France	Cropland - non-protected	9,832,985	9.8 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	4.0	
			Cropland - protection status unknown	19 907 741	19.9 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	32	62%	4.5	
		Germany	Cropland - protection status unknown	572,595	0.6 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	43	49%	1.0	
		Hungary	Cropland - non-protected	61,869	0.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	37	56%	5.0	
			Cropland - protection status unknown	1 013 759	1.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	42	50%	1.7	
			Unknown	279,545	0.3 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	43	49%	1.0	
		Romania	Cropland - protection status unknown	1,706,556	1.7 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	43	49%	1.0	
		Spain	Cropland - protection status unknown	23 148 286	23.1 m l	2%	0%	0%	0%	100%	0%	0%	0%	100%	34	60%	4.4	
			Unknown	7,770,495	7.8 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	34	60%	5.0	
		Corn Non EC	Serbia	Cropland - protection status unknown	504 707	0.5 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	34	59%	5.0
			United States	Cropland - non-protected	78,443,554	78.4 m l	5%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	4.6
				Cropland - protection status unknown	62,342,214	62.3 m l	4%	0%	0%	0%	100%	0%	0%	0%	100%	59	29%	1.8
				Unknown	15 552 272	15.6 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.5
	Molasses		Costa Rica	By-product	7,401,100	7.4 m l	0%	0%	100%	0%	0%	100%	0%	0%	61	27%	1.0	
		Guatemala	By-product	9,743,865	9.7 m l	1%	0%	100%	0%	0%	100%	0%	0%	61	27%	1.1		
		Nicaragua	By-product	827 314	0.8 m l	0%	0%	100%	0%	0%	100%	0%	0%	61	27%	1.0		
	Rye	Sweden	Cropland - protection status unknown	326,237	0.3 m l	0%	0%	0%	0%	100%	0%	0%	0%	115	-37%	1.0		
	Sugar beet	Belgium	Cropland - protection status unknown	119,950	0.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	1.0	
			Unknown	3 809 794	3.8 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	1.0	
		France	Cropland - protection status unknown	8,101,649	8.1 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	1.4	
		United Kingdom	Cropland - non-protected	44 898 635	44.9 m l	3%	0%	100%	0%	0%	0%	0%	100%	0%	40	53%	1.1	
			Cropland - protection status unknown	23 622 718	23.6 m l	2%	0%	100%	0%	0%	0%	0%	100%	0%	22	74%	5.9	
	Sugar cane	Brazil	Cropland - non-protected	117,152,537	117.2 m l	8%	91%	0%	0%	9%	71%	20%	0%	9%	24	71%	1.0	
			Cropland - protection status unknown	5 035 518	5.0 m l	0%	25%	28%	0%	48%	52%	0%	0%	48%	24	71%	1.0	
			Unknown	1,831,773	1.8 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	24	71%	1.0	
		Guatemala	Cropland - protection status unknown	707,987	0.7 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	24	71%	1.0	
			Unknown	203 132	0.2 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	24	71%	1.0	
	Triticale	Latvia	Cropland - protection status unknown	148,210	0.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0	
		Lithuania	Cropland - protection status unknown	37	0.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0	
		Poland	Cropland - protection status unknown	600 259	0.6 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0	
		Sweden	Cropland - protection status unknown	151,675	0.2 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0	
		Belgium	Cropland - protection status unknown	1,445,806	1.4 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0	
	Wheat		Unknown	728 386	0.7 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0	
		Czech Republic	Cropland - protection status unknown	285,277	0.3 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0	
		Denmark	Cropland - protection status unknown	1 563 677	1.6 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	55	35%	1.6	
		Finland	Cropland - protection status unknown	42,057	0.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0	
		France	Cropland - protection status unknown	11,984,050	12.0 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	57	32%	1.6	
			Unknown	7 480 408	7.5 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0	
		Germany	Cropland - protection status unknown	304,630	0.3 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0	
			Unknown	5,597	0.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0	
		Netherlands	Cropland - protection status unknown	13 994	0.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0	
		Sweden	Cropland - protection status unknown	2,053,864	2.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	46	45%	2.3	
		United Kingdom	Cropland - protection status unknown	109,197,069	109.2 m l	7%	0%	68%	1%	32%	0%	0%	68%	32%	30	64%	4.8	
			Unknown	10 727 950	10.7 m l	1%	0%	5%	11%	84%	0%	0%	16%	84%	39	53%	2.6	
		Unknown	Unknown	5,096,556	5.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	115	-37%	0.0	
		Bioogas	Municipal organic waste	United Kingdom	By-product	428 207	0.4 m l	0%	0%	100%	0%	0%	100%	0%	0%	27	68%	5.0
		Total Mean				1,517,456,562	1517.5 m l	100%	7%	45%	0%	47%	6%	37%	10%	47%	36	57%

Table 13: Company performance against the RTFO targets and carbon and sustainability criteria.

	Company	Proportion in each previous land-use category ¹						Proportion meeting an environmental standard					Proportion meeting a social standard				Carbon intensity, g(CO ₂ e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)	Data capture, %		
		Cropland – non-protected	Cropland - protection status unknown	By-product	Unknown	Grand Total	RTFO Meta-Standard	Qualifying Standard	Other standards	None/unknown	RTFO Meta-Standard	Qualifying Standard	Other standards	None/unknown								
Obligated companies	BP Oil UK Ltd	0%	24%	46%	29%	100%	0%	46%	0%	54%	0%	0%	0%	54%	0%	16%	20%	64%	42	50%	1.3	69%
	ConocoPhillips Ltd	0%	46%	16%	38%	100%	0%	33%	2%	64%	0%	16%	20%	64%	42	50%	2.6	73%				
	Esso Petroleum Company Ltd	0%	64%	22%	14%	100%	0%	41%	0%	59%	0%	22%	19%	59%	43	49%	2.1	82%				
	Greenergy Fuels Ltd	52%	0%	47%	1%	100%	23%	47%	0%	29%	19%	52%	0%	29%	24	71%	2.7	92%				
	Harvest Energy Ltd	4%	40%	44%	11%	100%	0%	49%	0%	51%	1%	44%	4%	51%	37	56%	1.7	86%				
	INEOS Europe Ltd	0%	34%	11%	54%	100%	0%	11%	0%	89%	0%	11%	0%	89%	67	20%	0.6	40%				
	Lissas Coal Company Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0	100%				
	Mabanaft UK Ltd	1%	41%	43%	15%	100%	0%	45%	0%	55%	0%	43%	2%	55%	39	53%	1.3	81%				
	Morgan Stanley Capital Group Inc.	0%	49%	21%	30%	100%	0%	21%	0%	79%	0%	21%	0%	79%	52	37%	0.9	62%				
	Murco Petroleum Ltd	0%	0%	0%	100%	100%	0%	0%	0%	100%	0%	0%	0%	100%	52	38%	2.0	50%				
	Petroplus Refining Teesside Ltd	7%	32%	49%	11%	100%	3%	51%	0%	46%	2%	51%	2%	46%	33	60%	1.4	87%				
	Prax Petroleum Ltd	0%	0%	85%	15%	100%	0%	85%	0%	15%	0%	85%	0%	15%	21	75%	1.0	96%				
	Shell UK Ltd	0%	78%	13%	9%	100%	1%	41%	1%	57%	1%	13%	28%	58%	38	65%	3.5	83%				
	Topaz Energy Ltd	0%	0%	100%	0%	100%	3%	40%	0%	57%	3%	40%	0%	57%	15	83%	3.3	88%				
	Total UK Ltd	0%	43%	31%	25%	100%	0%	38%	2%	59%	0%	33%	8%	59%	43	49%	1.2	79%				
	Valero Energy Ltd	19%	51%	1%	29%	100%	0%	23%	0%	77%	0%	4%	19%	77%	60	28%	0.9	64%				
	Yorkshire Petroleum Company Ltd	0%	0%	0%	100%	100%	0%	0%	0%	100%	0%	0%	0%	100%	93	-11%	0.0	0%				
	A & V Squires Plant Co Ltd	0%	0%	0%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0	100%				
	apple fuels Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0	100%				
	Argent Energy (UK) Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	12	86%	5.0	100%				
Associated British Bio-Fuels Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	43	49%	3.0	100%					
Bio Grade Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	2.0	100%					
Bio UK Fuels (Sheffield) Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.4	100%					
Biofuel Refineries Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	9	89%	3.0	100%					
Blomotive Fuels Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	3	96%	5.0	100%					
British Sugar plc.	100%	0%	0%	0%	100%	0%	100%	0%	0%	0%	0%	100%	0%	40	52%	1.0	100%					
Convert2Green Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0	100%					
Double Green Ltd	0%	0%	100%	0%	100%	0%	100%	0%	71%	0%	29%	0%	71%	13	84%	4.5	100%					
Edible Oil Direct Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	84%	2.6	100%					
Evergreen Oil (High Laver) Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0	100%					
Footprint Fuels	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0	100%					
Fuel Systems UK Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	2.3	100%					
Gasrec Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0	100%					
Green Fuels Ltd	0%	0%	100%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	13	84%	2.0	100%					
GreenerDiesel.com (UK) Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	13	84%	2.0	100%					
Greenalysis Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0	100%					
Kassero Edible Oils Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	13	84%	2.0	100%					
MFS Fuel Supplies Ltd	0%	0%	100%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	13	84%	2.0	100%					
Neal Environmental Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.7	100%					
Phoenix Speciality Oils Ltd	51%	49%	0%	0%	100%	100%	0%	0%	0%	0%	0%	100%	0%	21	75%	5.0	100%					
Pilkington Oils Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	84%	3.0	100%					
Pure Fuels Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.8	100%					
Rural Development Trust	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0	79%					
Upton Biodiesel Ltd	0%	0%	100%	0%	100%	0%	91%	0%	9%	0%	91%	0%	9%	14	83%	3.0	100%					
Veg Oil Motoring	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	1	99%	3.0	100%					
Wight Made Diesel	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0	100%					
William John Brown T/as Greenearth Biodiesel	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	13	84%	3.0	100%					
Yateley Industries for the Disabled Ltd	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	0.8	100%					

¹ Only four land use types have been reported by companies in the year three: cropland - non protected; cropland - protection status unknown; by-products; unknown land use.

The other land use types are: cropland protected; degraded land; forest >30%; forest >30% no change in status; forest 10-30%; forest 10-30% no change in status, grassland with agricultural land; grassland without agricultural land; undrained peatland; undrained peatland - no change in status; wetland; wetland - no change in status.

Table 14: Number of RTFO targets² met or exceeded by fossil fuel companies¹.

Number of targets met in RTFO Year 3 (year to date) ²	Obligated company	Number of targets met in Q4 of RTFO Year 3 (provisional data) ³	Change from Q4 of RTFO Year 3 (provisional data)	Number of targets met in RTFO Year 2 (verified data) ^{2,5}	Change from RTFO Year 2 (verified data)	Number of targets met in RTFO Year 1 (verified data) ⁵	Change from RTFO Year 1
3	Lissan Coal Company Ltd	3	▪	3	▪	3	▪
	Prax Petroleum Ltd	3	▪	0	↑	3	▪
2	Greenenergy Fuels Ltd	2	▪	3	↓	3	↓
	ConocoPhillips Ltd	1	▪	1	▪	3	↓
1	Harvest Energy Ltd	1	▪	2	↓	2	↓
	Mabanaft UK Ltd	1	▪	3	↓	3	↓
	Petroplus Refining Teesside Ltd	1	▪	2	↓	2	↓
	Shell UK Ltd	1	▪	2	↓	2	↓
	Topaz Energy Ltd	1	▪	3	↓	0	↑
0	BP Oil UK Ltd	0	▪	0	▪	2	↓
	Esso Petroleum Company Ltd	1	↓	2	↓	2	↓
	INEOS Europe Ltd	0	▪	0	▪	n/a	n/a
	Morgan Stanley Capital Group Inc.	0	▪	0	▪	0	▪
	Murco Petroleum Ltd	0	▪	0	▪	1	↓
	Total UK Ltd	1	↓	0	▪	1	↓
	Valero Energy Ltd ⁴	0	▪	0	▪	1	↓
Yorkshire Petroleum Company Ltd	n/a	n/a	n/a	n/a	n/a	n/a	

¹ Obligated companies supply >95% of the biofuels in the UK market.

² The RTFO targets in Year 3 (2010/11) are to have:
80% of biofuels meeting qualifying environmental standards;
GHG savings of 50%; and
90% data capture in four key sustainability fields (feedstocks, country of origin, previous land-use, standard).

The RTFO targets in Year 2 (2009/10) were to have:
50% of biofuels meeting qualifying environmental standards;
GHG savings of 45%; and
70% data capture in four key sustainability fields (feedstocks, country of origin, previous land-use, standard).

The RTFO targets in Year 1 (2008/09) were to have:
30% of biofuels meeting qualifying environmental standards;
GHG savings of 40%; and
50% data capture in four key sustainability fields (feedstocks, country of origin, previous land-use, standard).

³ In the first RTFO reporting year, the fuel we reported in the name 'Ineos' (operator of the Grangemouth refinery) was owned by Morgan Stanley Capital Group at the duty point - making Morgan Stanley the legally obligated supplier, rather than Ineos itself.

Note that Chevron's ownership changed during year 3 and the company's name was changed to Valero.

⁵ Figures in red represent companies who failed to submit verified annual reports or who did not verify to the limited assurance standard.

All Trades of Year 1-3 RTFCs until 5th November 2011

RTFCs traded per quarter by type of account holder

Table 15.1 RTFCs traded from Obligation Year 2008/09

<i>Quarter</i>	<i>Quarter (date)</i>	<i>FROM</i>	<i>TO</i>	<i>RTFCs</i>	<i>%</i>
2	Jul 2008 - Oct 2008	Biofuel Suppliers	Fossil Fuel Suppliers	2,791,602	2%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	11,347,500	7%
3	Oct 2008 - Jan 2009	Biofuel Suppliers	Fossil Fuel Suppliers	809,000	0%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	17,538,750	10%
4	Jan 2009 - Apr 2009	Biofuel Suppliers	Biofuel Suppliers	3,063,335	2%
			Fossil Fuel Suppliers	1,883,310	1%
			Other	10,000	0%
		Fossil Fuel Suppliers	Biofuel Suppliers	1,175,000	1%
			Fossil Fuel Suppliers	16,601,408	10%
			Other	10,000	0%
		Other	Biofuel Suppliers	10,000	0%
			Fossil Fuel Suppliers	10,000	0%
5	Apr 2009 - Jul 2009	Biofuel Suppliers	Biofuel Suppliers	83,812	0%
			Fossil Fuel Suppliers	830,000	0%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	75,625,694	45%
6	Jul 2009 - Oct 2009	Fossil Fuel Suppliers	Fossil Fuel Suppliers	32,395,869	19%
7	Oct 2009 - Jan 2010	Fossil Fuel Suppliers	Fossil Fuel Suppliers	1,779,869	1%
8	Jan 2010 - Apr 2010	Fossil Fuel Suppliers	Fossil Fuel Suppliers	482,516	0%
9	Apr 2010 - Jul 2010	Fossil Fuel Suppliers	Fossil Fuel Suppliers	381,292	0%
10	Jul 2010 - Oct 2010	Fossil Fuel Suppliers	Fossil Fuel Suppliers	2,182,910	1%
Grand Total				169,011,867	100%

All Trades of Year 1-3 RTFCs until 5th November 2011

RTFCs traded per quarter by type of account holder

Table 15.2 RTFCs traded from Obligation Year 2009/10

<i>Quarter</i>		<i>FROM</i>	<i>TO</i>	<i>RTFCs</i>	<i>%</i>
6	<i>Jul 2009 - Oct 2009</i>	Biofuel Suppliers	Biofuel Suppliers	309,980	0%
			Fossil Fuel Suppliers	97,950	0%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	6,580,808	2%
7	<i>Oct 2009 - Jan 2010</i>	Biofuel Suppliers	Biofuel Suppliers	295,010	0%
			Fossil Fuel Suppliers	1,743,960	0%
			Other	388,179	0%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	29,383,440	8%
		Other	Fossil Fuel Suppliers	388,179	0%
8	<i>Jan 2010 - Apr 2010</i>	Biofuel Suppliers	Biofuel Suppliers	297,016	0%
			Fossil Fuel Suppliers	2,143,955	1%
			Other	167,949	0%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	85,516,261	23%
		Other	Fossil Fuel Suppliers	167,949	0%
9	<i>Apr 2010 - Jul 2010</i>	Biofuel Suppliers	Biofuel Suppliers	29,058	0%
			Fossil Fuel Suppliers	18,128,489	5%
			Other	442,404	0%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	57,678,763	15%
			Other	5,000,000	1%
			Other	Fossil Fuel Suppliers	5,442,374
10	<i>Jul 2010 - Oct 2010</i>	Biofuel Suppliers	Fossil Fuel Suppliers	11,199,636	3%
			Other	702,017	0%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	40,912,731	11%
			Other	6,300,000	2%
		Other	Fossil Fuel Suppliers	7,340,210	2%
			Other	338,193	0%

Year 3 Verified Report: 15 April 2010 - 14 April 2011

All Trades of Year 1-3 RTFCs until 5th November 2011

11	Oct 2010 - Jan 2011	Biofuel Suppliers	Fossil Fuel Suppliers	673,064	0%
			Other	72,576	0%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	35,339,860	9%
			Other	3,100,000	1%
12	Jan 2011 - Apr 2011	Other	Fossil Fuel Suppliers	3,172,576	1%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	14,758,963	4%
			Other	500,000	0%
		Other	Fossil Fuel Suppliers	500,000	0%
13	Apr 2011 - Jul 2011	Fossil Fuel Suppliers	Fossil Fuel Suppliers	21,201,291	6%
14	Jul 2011 - Oct 2011	Fossil Fuel Suppliers	Fossil Fuel Suppliers	13,551,179	4%
Grand Total				373,864,020	100%

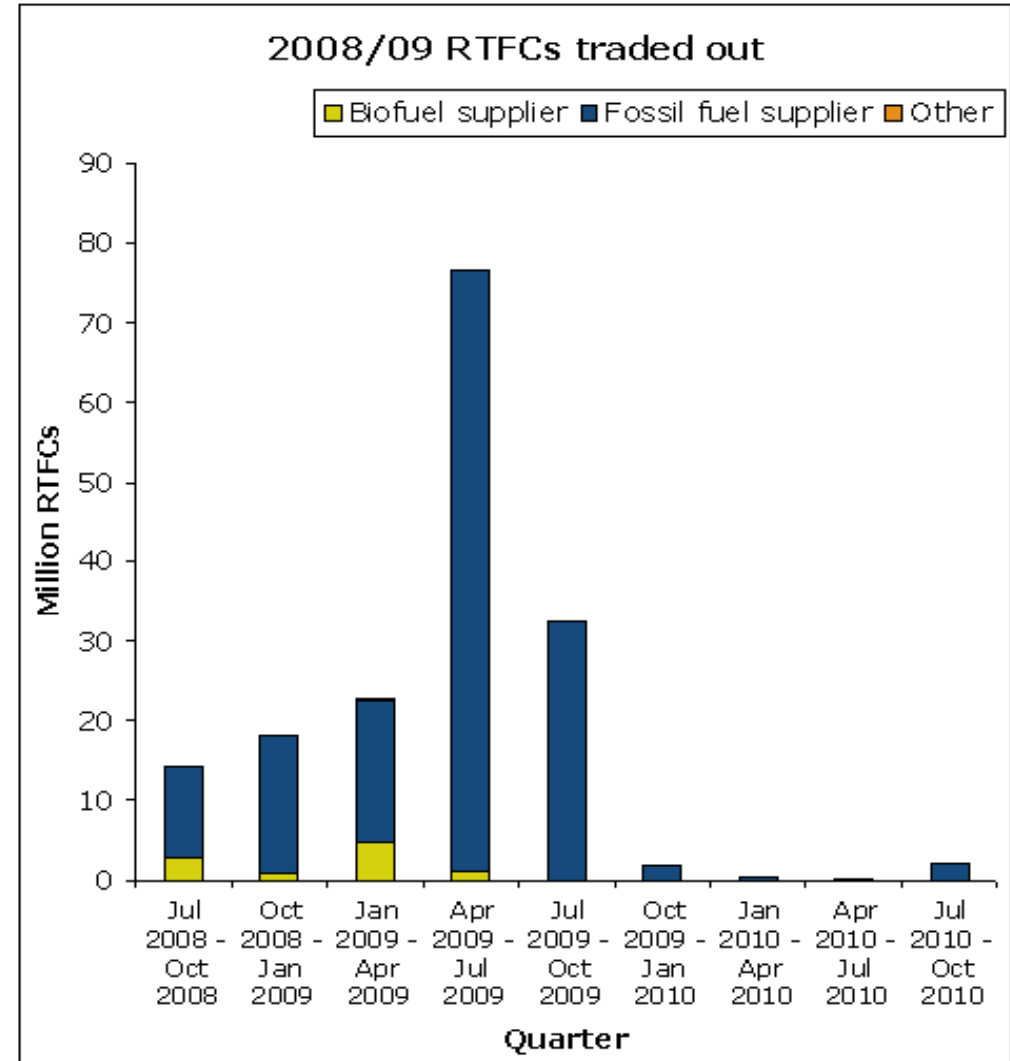
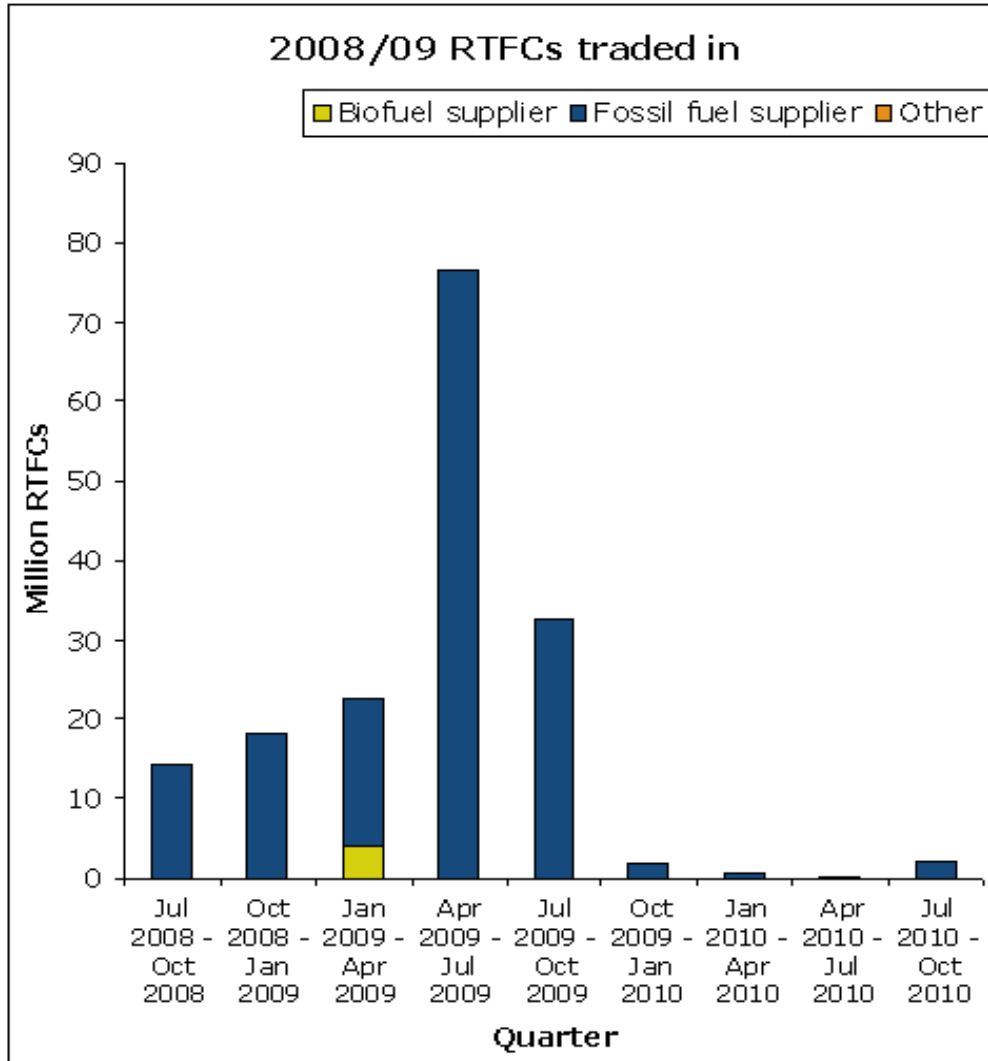
All Trades of Year 1-3 RTFCs until 5th November 2011

RTFCs traded per quarter by type of account holder

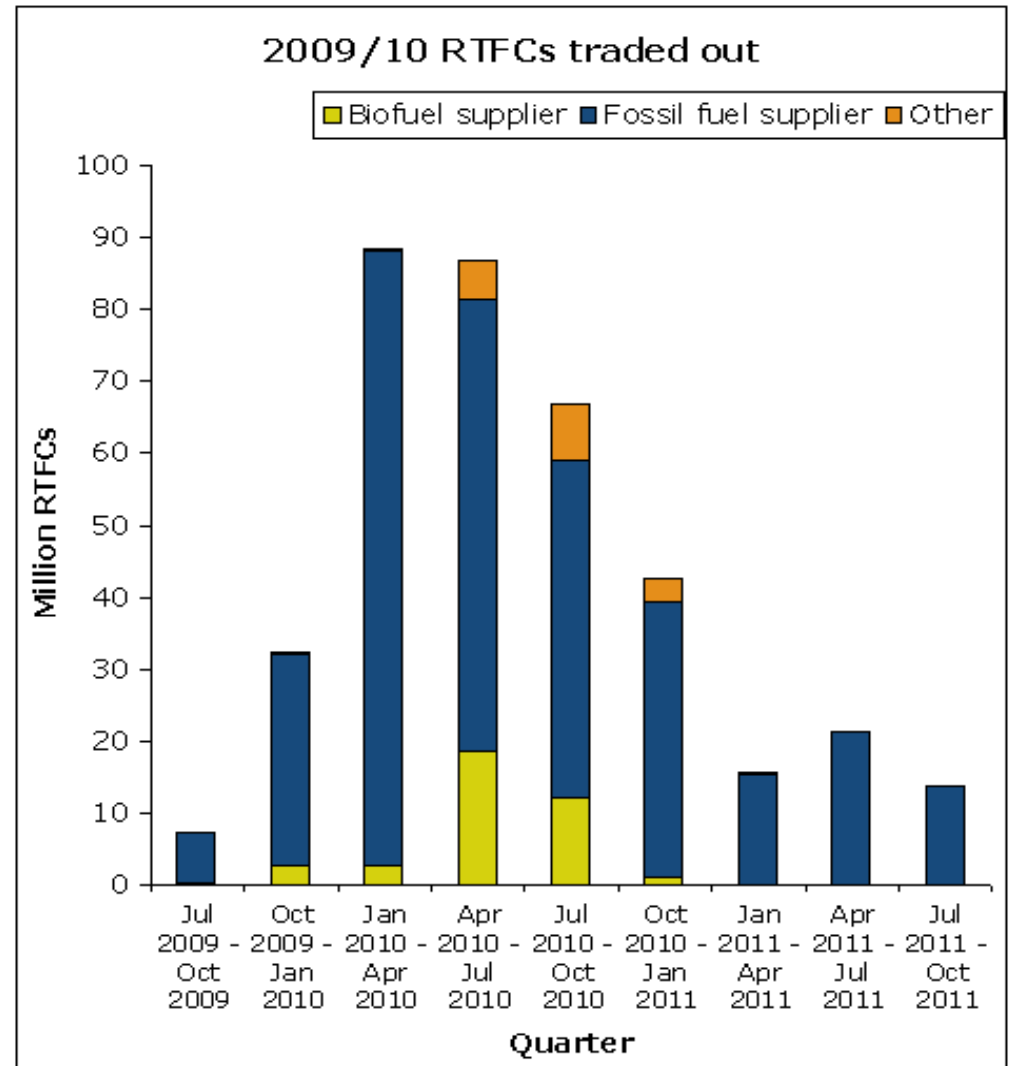
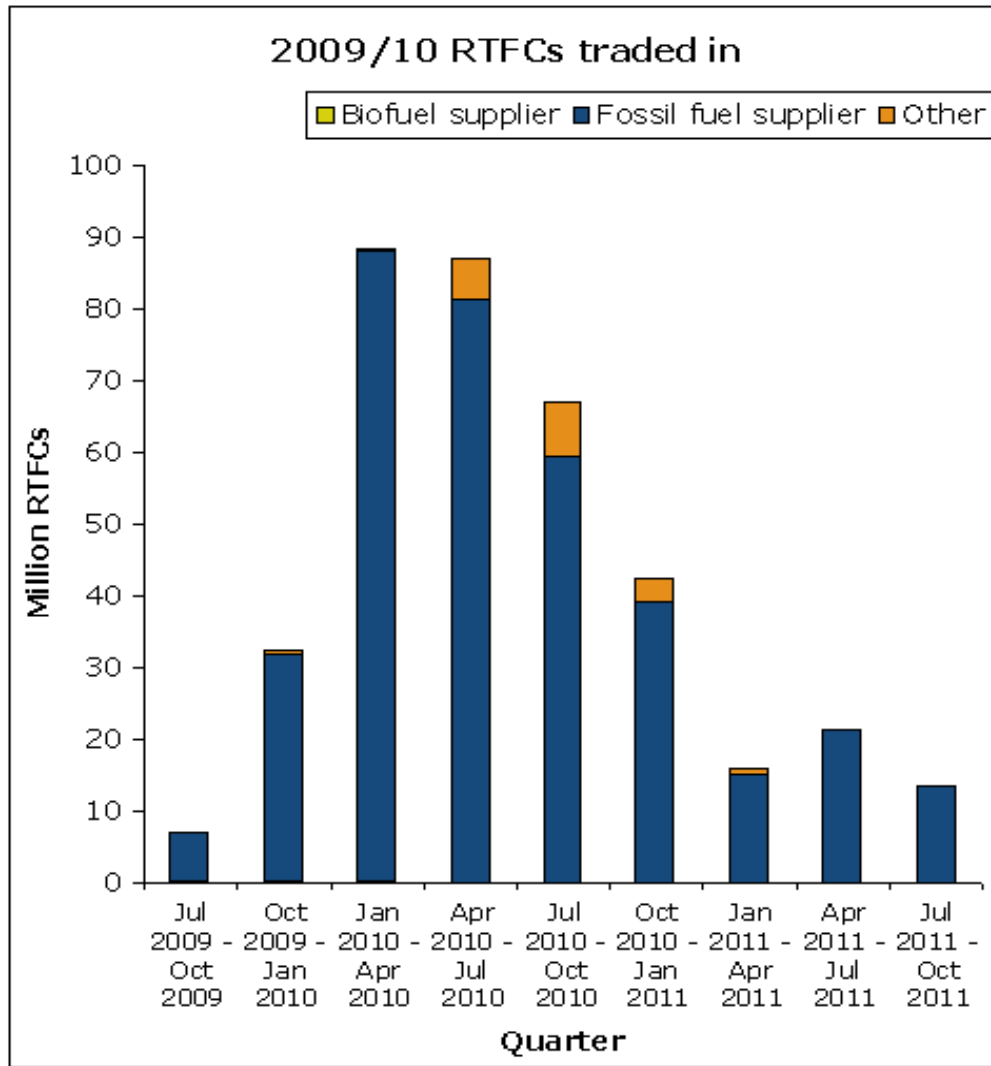
Table 15.3 RTFCs traded from Obligation Year 2010/11

<i>Quarter</i>	<i>FROM</i>	<i>FROM</i>	<i>TO</i>	<i>RTFCs</i>	<i>%</i>
10	<i>Jul 2010 - Oct 2010</i>	Biofuel Suppliers	Biofuel Suppliers	338,193	0%
			Fossil Fuel Suppliers	500,000	0%
			Other	1,131,371	0%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	58,451,442	8%
			Other	29,058	0%
		Other	Biofuel Suppliers	294,008	0%
11	<i>Oct 2010 - Jan 2011</i>	Biofuel Suppliers	Fossil Fuel Suppliers	5,146,444	1%
			Other	867,448	0%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	169,396,063	23%
			Other	1,012,940	0%
		Other	Fossil Fuel Suppliers	1,880,388	0%
		12	<i>Jan 2011 - Apr 2011</i>	Biofuel Suppliers	Fossil Fuel Suppliers
Other	709,189				0%
Fossil Fuel Suppliers	Fossil Fuel Suppliers			175,749,837	24%
	Other			8,010,000	1%
Other	Fossil Fuel Suppliers			8,715,099	1%
13	<i>Apr 2011 - Jul 2011</i>			Biofuel Suppliers	Fossil Fuel Suppliers
		Other	590,647		0%
		Fossil Fuel Suppliers	Fossil Fuel Suppliers	199,876,837	27%
			Other	1,000,000	0%
		Other	Fossil Fuel Suppliers	1,594,647	0%
		14	<i>Jul 2011 - Oct 2011</i>	Biofuel Suppliers	Fossil Fuel Suppliers
Other	142,246				0%
Fossil Fuel Suppliers	Fossil Fuel Suppliers			61,888,165	8%
Other	Fossil Fuel Suppliers			142,246	0%
15	<i>Oct 2011 - Jan 2012</i>	Fossil Fuel Suppliers	Fossil Fuel Suppliers	2,752,383	0%
Grand Total				728,690,124	100%

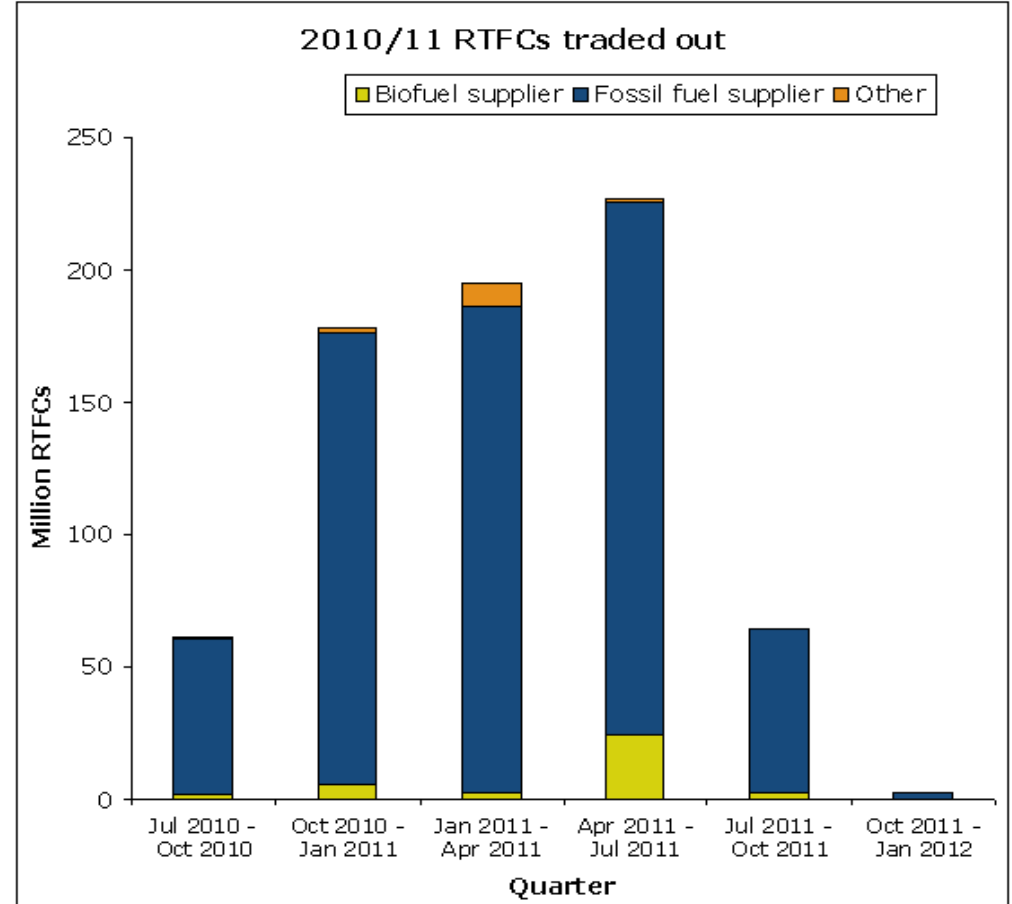
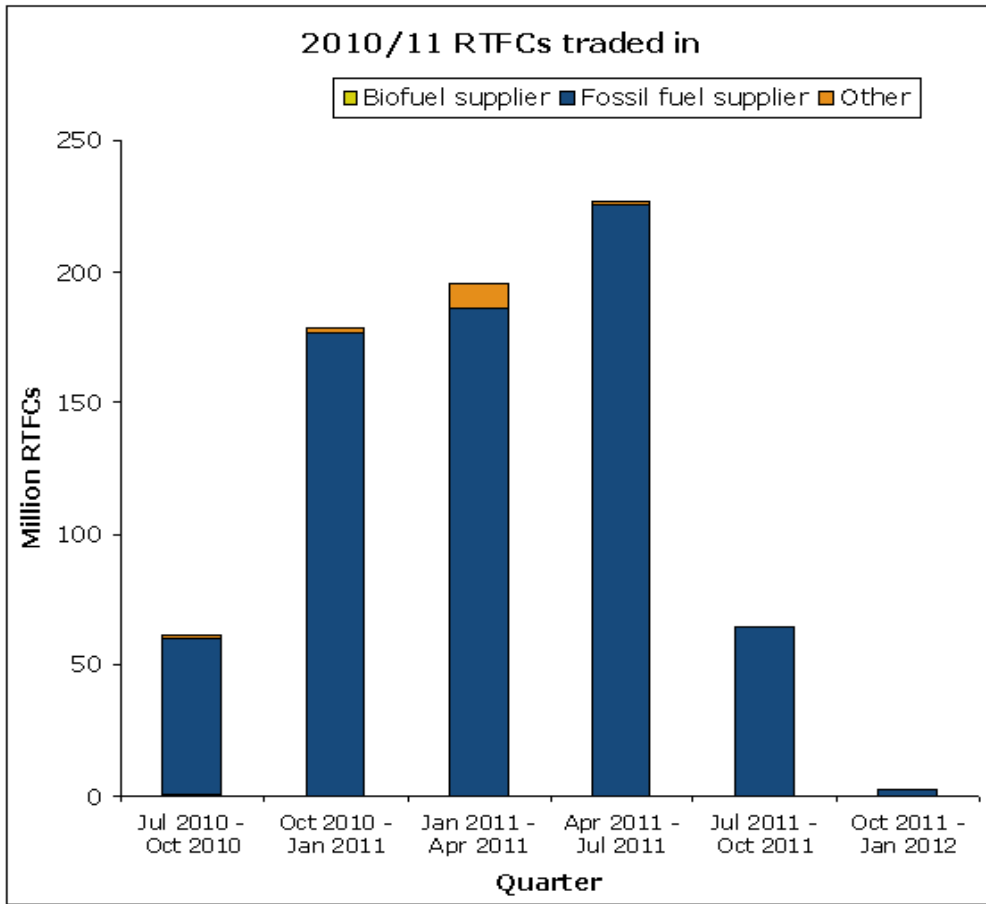
All Trades of Year 1-3 RTFCs until 5th November 2011



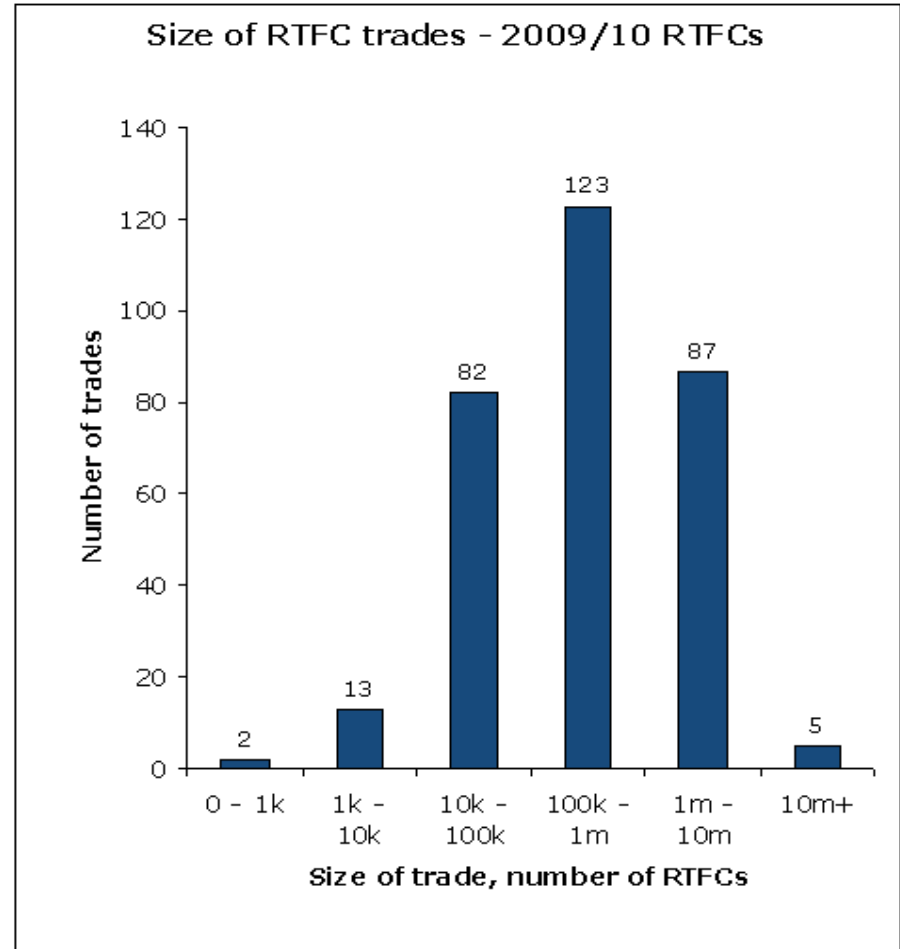
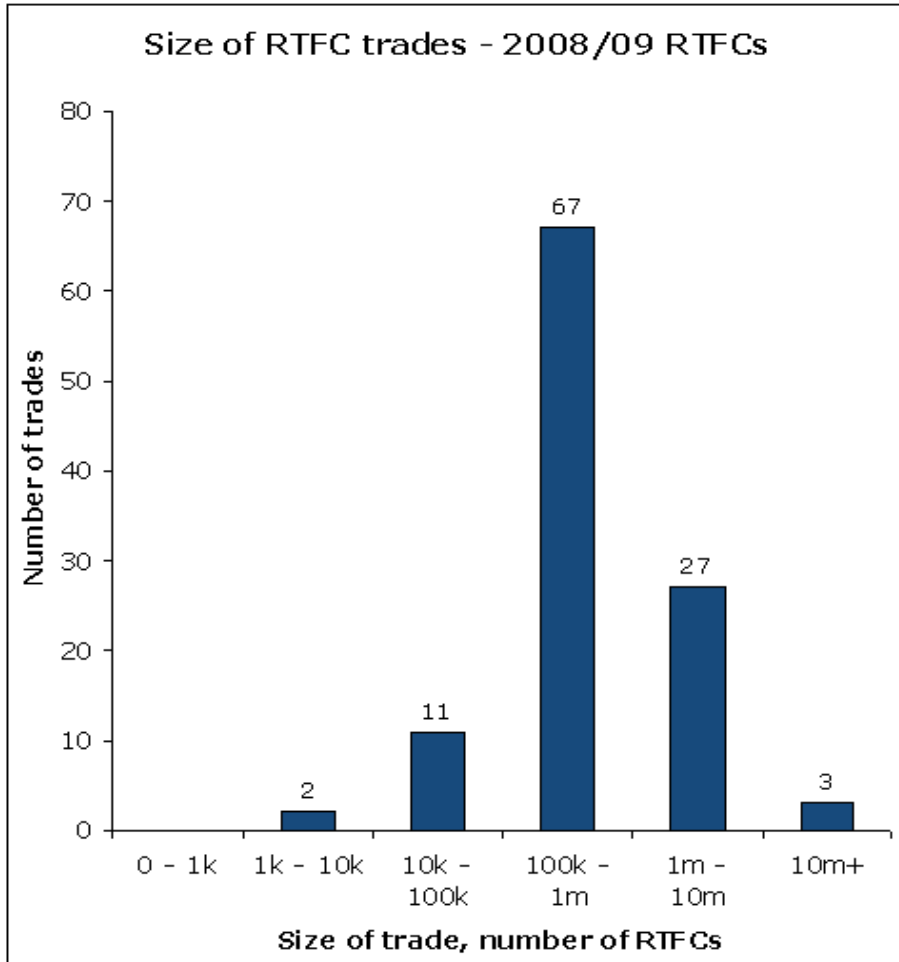
All Trades of Year 1-3 RTFCs until 5th November 2011



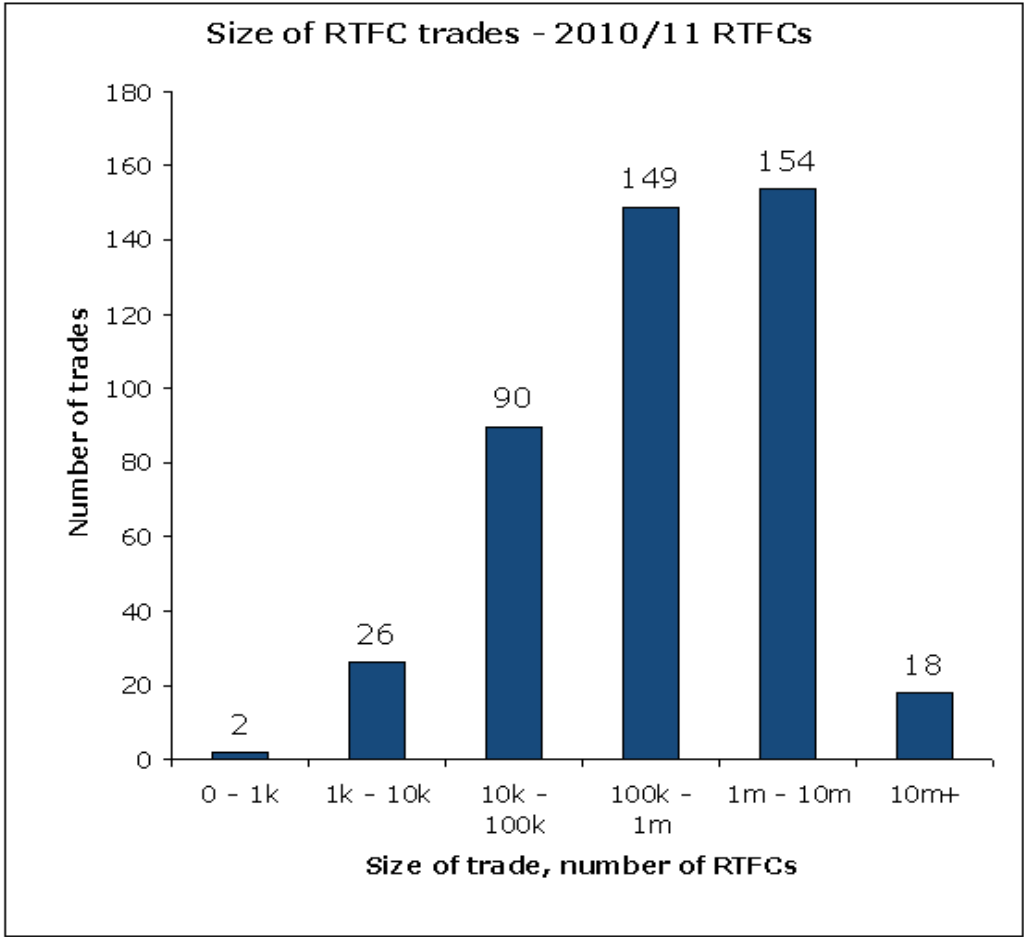
All Trades of Year 1-3 RTFCs until 5th November 2011



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Year 3 Verified Report: 15 April 2010 - 14 April 2011

Verified data for the 2010/11 obligation year

Notes on data

Introduction

To encourage the sourcing of sustainable biofuels, the RTFO Administrator requires fuel suppliers claiming Renewable Transport Fuel Certificates to submit monthly reports on the lifecycle greenhouse gas (GHG) saving and the sustainability of the biofuels they supply.

Reporting is also seen by the Government as an essential 'stepping stone' towards a mandatory assurance scheme. The EU's Renewable Energy Directive includes mandatory sustainability requirements. The Department for Transport transposed the directive into UK law on 15/12/2011 and we have begun to see data reported under these reporting criteria.

This report provides information on the carbon and sustainability performance of renewable fuels supplied under the RTFO. The data are derived from the monthly reports on biofuels provided by individual fuel suppliers. At the end of the reporting year¹ fuel suppliers were required to provide an independent verifier's opinion² on their information, and it is this verified information we are publishing in this report.

The carbon and sustainability data cover the *direct* impacts arising from biofuel cultivation. The RTFO Administrator separately monitors the potential *indirect* impacts of biofuel production such as indirect land-use change or changes to food and other commodity prices (e.g. *The Gallagher Review of the indirect effects of biofuels production* which was published on 8 July 2008).

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Sustainability and the RTFO Meta-Standard

The RTFO is built around seven sustainability principles; five environmental and two social. These seven principles have been used to define the RTFO Sustainability Meta-Standard. A meta-standard approach enables existing schemes, such as the UK's Red Tractor scheme, to be assessed against the RTFO principles.

No schemes currently meet all of the environmental and social principles; although two schemes meet both of the social principles. Suppliers are also permitted to set up their own auditing procedures to demonstrate that feedstocks meet the RTFO Meta-Standard: two suppliers have developed interpretations of the RTFO Meta-Standard which cover Brazilian sugar cane and cereal crops.

Any scheme that meets an adequate number of the RTFO Meta-Standard criteria is considered a 'qualifying standard', and fuel companies can report these to the RTFO Administrator. Fuels from wastes (e.g. used cooking oil and tallow³) are automatically considered to meet the qualifying level.

Other standards can also be reported to the RTFO Administrator and count towards the data capture target; these include standards that have not yet been benchmarked against the RTFO Meta-Standard, or standards that have been benchmarked, but do not meet sufficient criteria to be awarded the qualifying level status.

While there are currently several qualifying standards for the RTFO, these are mostly either under development or only newly established; the Red Tractor scheme is the only well established certification scheme and is only applicable to UK crops. This currently limits the ability of fuel suppliers to source certifiably sustainable feedstocks⁴. The market is developing, and suppliers have been putting in place procedures to track information about sustainability through their supply chains and others have been performing their own audits against the Meta-Standard. It is intended that by creating a market for sustainable crops, the RTFO will support the development and expansion of these certification schemes, and that suppliers will be able to source their feedstocks increasingly sustainably.

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Notes on data

Content of RTFO reports

RTFO quarterly reports include information on:

- ˆ volumes of fuel by fuel type (e.g. biodiesel, bioethanol);
- ˆ volumes of fuel by feedstock (e.g. used cooking oil, soy);
- ˆ volumes of fuel by country of origin (e.g. UK, Brazil);
- ˆ volumes of fuel meeting sustainability standards;
- ˆ lifecycle greenhouse gas savings of fuels.

RTFO summary data

Table 1 compares overall performance against the three C&S reporting targets set by the Government in 2007.

Tables 2 to 8 provide summaries of all the road transport biofuel supplied to the UK for each fuel type, feedstock, country of origin, and previous land-use.

Table 9 and 10 look into the data capture and accuracy level of data collected

RTFO trends

Table 11 presents data on RTFO performance over time against the three target set by the Government in 2007.

RTFO detailed data

Table 12 provides more detailed data broken down by fuel type, feedstock, country of origin and previous land-use. So, for example, data are provided on the volumes of fuel and the C&S information of bioethanol from Brazilian sugar cane, or biodiesel obtained from oilseed rape grown in the UK on cropland, and also meeting a Qualifying Standard.

Quarterly reports also include additional information on:

- ˆ company performance against the Government's carbon and sustainability (C&S) reporting targets;
- ˆ trades of renewable transport fuel certificates (RTFCs) between companies.

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Notes on data

Company data

Table 13 provides data on company C&S performance. Table 14 specifies how many of the C&S reporting targets each of the obligated companies are meeting.

RTFCs

Contains data on trades of certificates between companies over time.

C&S reporting targets

The Government set C&S targets for three key aspects of the reporting scheme. The targets are not mandatory (and there is no penalty for failing to meet them). The RTFO targets recognise the need for, continuous improvement so that by obligation period 3 (2010-11) comprehensive sustainability data is provided for almost all biofuels supplied to the UK.

Annual Supplier Target	2008-09	2009-10	2010-11
Percentage of feedstock meeting a Qualifying Environmental Standard	30%	50%	80%
Annual GHG saving of fuel supplied	40%	45%	50%
Data reporting of renewable fuel characteristics	50%	70%	90%

Footnotes

¹. The third reporting or obligation year runs from 15 April 2010 to 14 April 2011. This report contains data from 15 April 2010 to 14 April 2011.

². Suppliers applying for < 450,000 renewable transport fuel certificates are not required to submit a verifier's opinion.

³. Research indicates there are indirect effects of tallow and other waste feedstocks with alternative uses:

<http://www.renewablefuelsagency.gov.uk/reportsandpublications/indirecteffectsofwastes>

⁴. There is more than enough Roundtable on Sustainable Palm Oil (RSPO) certified palm oil to meet the entire UK demand for palm oil biodiesel feedstock.

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EMBARGOED REPORT - PRE-RELEASE VERSION

Glossary

Obligated company

- An obligated company is one that supplies > 450,000 litres/year of relevant hydrocarbon oil road transport fuel
- Obligated companies supply > 95% of the biofuels in the UK market
- Obligated suppliers must:
 - supply biofuels; or
 - purchase certificates from other companies supplying biofuels; or
 - pay into a buy-out fund; or
 - a combination of any of the above.

Non-obligated company

- Non-obligated companies are those that either supply < 450,000 litres/year of relevant hydrocarbon oil road transport fuel, or only supply biofuels.
- Non-obligated companies are not required to register with us, but can choose to do so and earn one Renewable Transport Fuel Certificate (RTFC) for every litre of biofuel supplied.

Sustainability standards

- Sustainability assurance schemes are divided into Environmental and Social Standards and these are split into three levels
 1. RTFO Meta-Standard (RTFO) - this is a higher standard than most existing sustainability standards and covers seven key environmental and social principles.
 2. Qualifying Standards (QS) - meet the majority of the environmental and/or social criteria defined under the RTFO Meta-Standard.
 3. Other Standards - these have either not yet been benchmarked, or have been benchmarked against the RTFO Meta-Standard, but do not meet sufficient criteria to be awarded QS status.
- None/unknown should be reported where the feedstock was not certified against a standard, or the data is unavailable.
- Suppliers can report a Benchmarked or Qualifying Standard and conduct supplementary audits to meet a QS or the RTFO Meta-Standard, respectively.
- Suppliers producing biofuels from by-products have little or no control over how the source feedstocks were produced. Biofuels from by-products are automatically credited to the Qualifying Standard.

Year 3 Verified Report: 15 April 2010 - 14 April 2011

Verified data for the 2010/11 obligation year

EMBARGOED REPORT - PRE-RELEASE VERSION

Glossary

Previous land-use

- This is the use of the land on which the feedstock crop was grown prior to 1 Jan 2008. There are sixteen categories:

1. by-products;
2. cropland - protection status unknown;
3. cropland - non protected;
4. cropland - protected;
5. degraded land;
6. forest >30%;
7. forest >30% no change in status;
8. forest 10-30%;
9. forest 10-30% no change in status;
10. grassland (and other wooded land not classified as forest) with agricultural land;
grassland (and other wooded land not classified as forest) without agricultural land;
11. 12. undrained peatland;
13. undrained peatland - no change in status;
14. wetland;
15. wetland - no change in status;
16. unknown

- By-products (e.g. used cooking oil and tallow) do not require any additional land.

- The previous land-use affects greenhouse gas emissions due to release of carbon stored in the soil and plants when the land is cleared and ploughed up for biofuel crops.

Carbon intensity

- Carbon intensity is a measure of the greenhouse gas (GHG) emissions of the fuel chain from 'field-to-wheel'

- Different GHGs have different potencies (some make a greater contribution to global warming than others)

- To account for this, all GHGs are expressed in terms of their strength relative to carbon dioxide, called carbon dioxide equivalent (CO₂e).

Greenhouse gas emissions

- Greenhouse gas (GHG) emissions of different biofuels can vary significantly depending on the system of cultivation, processing, and transportation of feedstock.

- The data collected takes into account GHG emissions of the fuel chain from 'field to wheel' incorporating data on feedstock, country of origin and land-use change.

- GHG saving refers to the reduction in GHG emissions due to replacing fossil fuels with biofuels. A negative value means that more GHGs have been emitted by using the biofuel than if the fossil fuel was used.

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EMBARGOED REPORT - PRE-RELEASE VERSION

Glossary

Accuracy level

- Accuracy level is a measure of the amount of data provided by the supplier on a particular batch of biofuels
- This data is used for calculation of the greenhouse gas emissions of the fuel chain
- It ranges from 0 to 6 where 6 is the highest:
 - 0 - Fuel default
 - 1 - Feedstock default
 - 2 - Process default
 - 3 - Selected default - RTFO Administrator defined
 - 4 - Selected default - Industry defined or NUTS2 data
 - 5 - Actual data
 - 6 - Cultivation actual data

C&S reporting targets

The Government set C&S targets for three key aspects of the reporting scheme. The targets are not mandatory (and there is no penalty for failing to meet them).

Annual Supplier Target	2008-09	2009-10	2010-11
Percentage of feedstock meeting a Qualifying Environmental Standard	30%	50%	80%
Annual GHG saving of fuel supplied	40%	45%	50%
Data reporting of renewable fuel characteristics	50%	70%	90%

- The data reporting of renewable fuel characteristics target refers to the amount of data provided by transport fuel suppliers as opposed to reporting 'unknown' against the four sustainability components:
 1. biofuel feedstock
 2. feedstock country of origin
 3. sustainability standard
 4. land-use on 23 January 2008
- Whilst 'unknown' reporting is permitted, suppliers are encouraged to identify and report accurate information about the feedstocks used. Where 'unknown' or 'none' is reported this does not count towards the data capture target.
- Where a by-product has been used as the feedstock, reporting 'by-product' for the sustainability information fields is counted as a completed report.
- Reporting a non-Qualifying Standard is also counted as a completed data field for the 'standard' field