



#FCO₂ FCO Sustainability



Foreign &
Commonwealth
Office



“Because of the government’s commitment to sustainable development and the FCO’s specific role in promoting global action on climate change, the FCO attaches importance to leading by example through reducing the environmental impact of its own operations and procurement. Lower environmental impacts also generally mean lower costs, allowing resources to be redeployed to our front line diplomacy efforts.”

Keith Elliott,
Director, FM Client Unit

Contents

Foreword	4	Normalised Performance	18
Headline Performance against Baseline	5	Biodiversity	19
Greenhouse Gas Emissions by Scope	6	Snapshot: Bees in Seoul, from HM Ambassador Charles Hay	20
Total Carbon Emissions.....	7	FCO EMS – Our Environmental Management System.....	21
Graphical Overview of Emissions by site	8	Sustainable Procurement.....	21
Sustainable IT.....	9	Sustainable Construction.....	22
DECs.....	10	People & Incentives	22
A thank you to Sir David King, our outgoing Special Representative on Climate Change	11	Risks and Opportunities.....	22
Waste & Paper	12	Notes.....	23
Waste Commentary	13		
Snapshot: FCO Services Logistics Packaging.....	14		
Water	15		
Snapshot: British Embassy in Brasilia’s Environmental Performance	17		

Foreword



Sir Simon McDonald KCMG KCVO
Permanent Under Secretary
& Head of the Diplomatic Service

The FCO is delivering a world-class estate as part of its Diplomacy 20:20 programme. Sustainability is key within this strategy and we are driving reductions in costs and carbon emissions to deliver long term savings for British Taxpayers.

We have set demanding targets for 2020 and are making good progress towards achieving them. This is particularly visible in the turnaround we are seeing in water consumption in Hanslope Park. Tech Overhaul is improving our IT to support world-class diplomacy; we are already seeing the carbon reductions from using higher efficiency equipment. A sustainable and efficient estate is essential for the FCO to do its job.



Corin Robertson
Director, Estates and Security Directorate

Over the last year my team have been working to understand how best to focus our efforts in achieving our challenging 2020 targets.

I'm very pleased to see the fruits of these efforts in this report showing strong progress on our journey to 2020. As the targets get more difficult to achieve we're seeing a transition from sustainability as a standalone work area to one which is integrated into all work streams across the directorate. The report this year marks the beginnings of our efforts to expand our sustainability oversight to our Posts overseas in the Asia Pacific, North West Europe and France regions, and the examples included in the report highlight some of the previously unseen work being carried out by our colleagues overseas. I thank all our colleagues both within my directorate and outside who have worked together this year to deliver such a positive performance; I look forward to the continued value sustainability brings to the FCO and the work it does to deliver a world-class estate.

Headline Performance against Baseline

Here is an overview of the FCO's UK operations performance against its Greener Government Commitment targets. The colour coding provides an indication as to whether the performance in 2016-17 is in line with expected performance to achieve the targets by 2019/20.

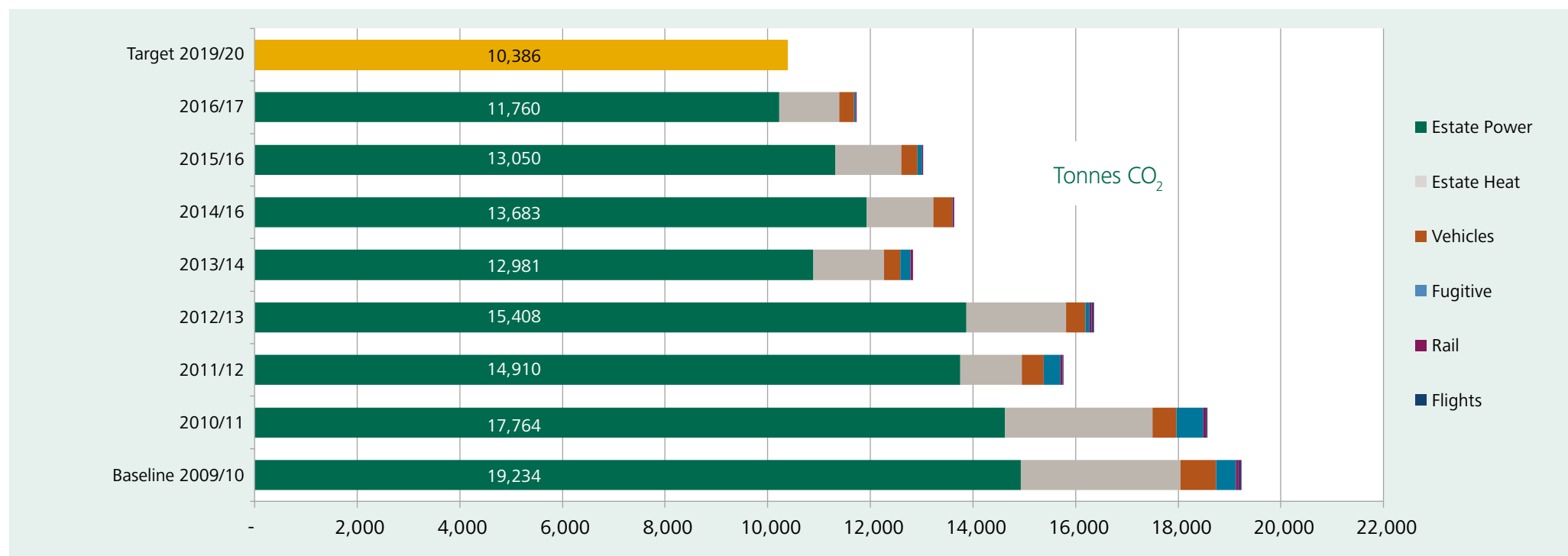
	Greenhouse Gases 11,760 tCO ₂ e 39% Reduction	2020 Target 10,386tCO ₂ e 46% reduction	Estate energy expenditure £3,769,494 CRC Energy Efficiency Scheme expenditure £162,491	On Track
	Domestic Flights 556 flights 24% Reduction	2020 Target 515 flights 30% reduction	Vehicle & domestic train and air travel expenditure £588,304	On Track
	Office Water 7.5m ³ /FTE 12,921m ³ reduction	Good Practice 6m ³ /FTE	Office water expenditure £75,991	On Track
	Waste 720 tonnes 45% Reduction	2020 Target 493 tonnes 62% Reduction	Waste disposal expenditure £143,906	On Track
	Recycling 63% recycled	2020 Target 75% recycled		Behind target position of 65%
	Paper Consumption 22,543 reams A4e 42% Reduction	2020 Target 19,464 reams A4e 50% Reduction		On Track
	International Flights 9,124 tCO ₂ e		Expenditure on GCOF carbon offsets for originated international flights £18,248 (Q4 15-16, Q1-3 16-17)	

Greenhouse Gas Emissions by Scope

The table below provides a breakdown of the FCO's UK operations by source and scope and includes the associated costs.

2016-17		kWh-km	tCO ₂	GBP (£)
Greenhouse gases	Electricity	22,754,141	10,225	2,896,238
	Gas	1,546,577	285	16,696
	Heating Oil	783,390	216	330,528
	Biodiesel	1,454,264	3	163,784
	Biomass	112,715	0	
	District Heating	2,508,163	666	362,248
	Fugitive		23	
	Domestic flights	86,003	30	89,079
	Train	201,134	21	128,310
	Private mileage	411,014	135	52,092
	Fleet	307,370	98	
	Chauffeur Service	6,795	2	152,865
	Car Hire	118,767	34	30,522
	Taxis	80,344	23	135,436
TOTALS		29,159,249 kWh 1,211,427 km	11,760 tCO₂	£ 4,357,798
Emissions by Scope:	Scope 1 (Energy Direct)	-	625	-
	Scope 2 (Energy Indirect)	-	10,043	-
	Scope 3 (Other indirect)	-	1,092	-

Total Carbon Emissions



FCO UK energy use fell in 2016/17. The reduction was driven by a reduction in the grid carbon factor, along with the reduction in the size of the estate, having disposed of the Old Admiralty Building towards the end of 2015/16.

Management of the estate has led to efficiency savings across the buildings in our estate. In particular better management of the district heating system in King Charles Street, including replacements of heat exchangers, and significant efficiency savings across our data centres which account for a large percentage of our electricity consumption.

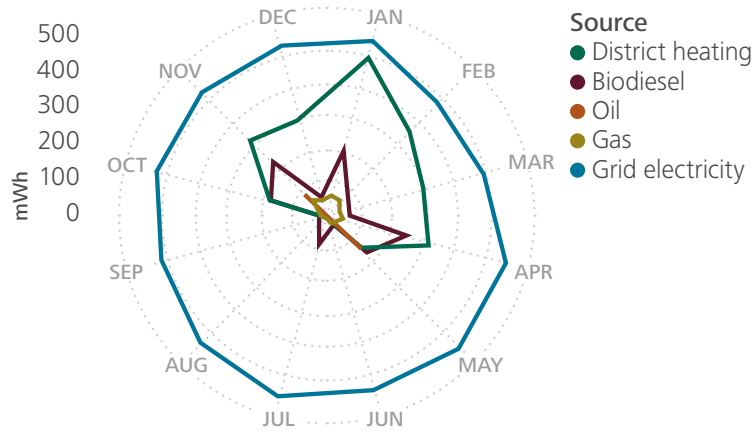
Hanslope Park sees increases in staff numbers on site, however the use of low carbon biodiesel continues to deliver significant savings in our carbon emissions from heating. In 2016/17 carbon savings from the use of biodiesel were 399tCO₂e.

Lancaster House continues to see increases in outside bookings, and associated increases in consumption. Investments in energy efficient lighting is helping to reduce the energy increases seen with rises in bookings. Looking forward, the FCO is examining ways to improve control of heating and lighting in this grade 1 listed property in line with its insignificant overall impact on our estate electricity consumption (<2%).

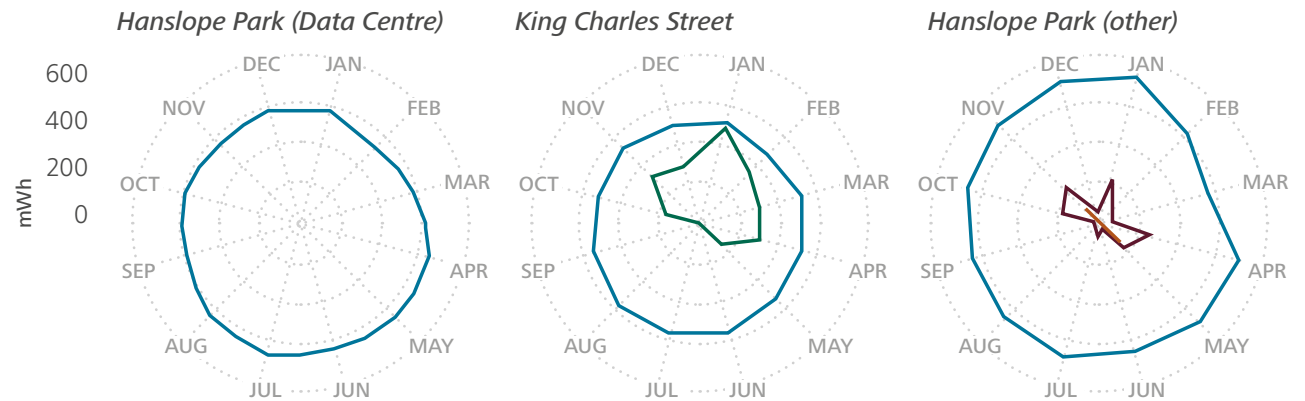
Northgate House is a leased building which is managed by a managing agent, and we continue to work closely with the agent to reduce consumption levels, although investment in the site infrastructure is outside of our control.

Graphical Overview of Emissions by site

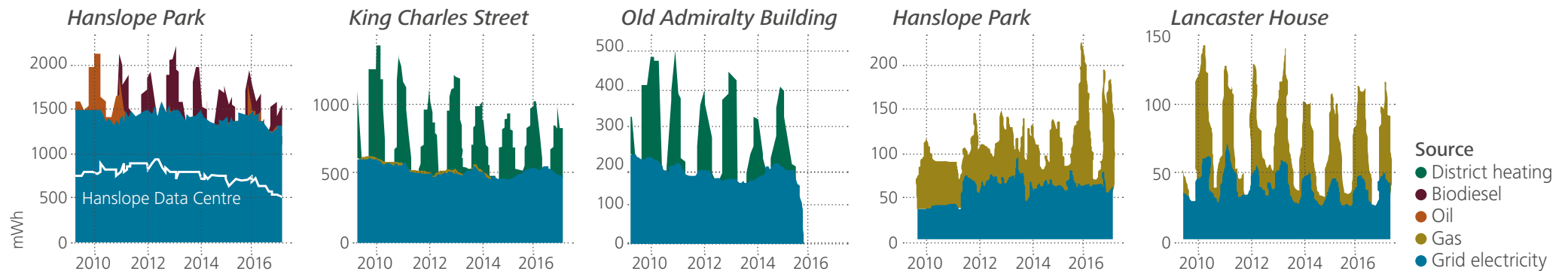
FCO Energy Consumption, monthly averages by source, 2016/17



FCO Energy Consumption monthly averages by source and location, 2016/17



FCO Energy Consumption, 2010–17



Sustainable IT

We've been working to deliver an efficient and sustainable IT infrastructure, working in partnership with our Facilities Management team (Interserve) and our IT team (Knowledge and Technology Department), to deliver a 'world-class platform' in-line with our internal transformation programme 'Diplomacy 20:20'.

Data Centres account for a significant proportion of our total electricity consumption within the UK, and provide a global service to the FCO. Focussing on data centre infrastructure delivers environmental performance whilst also delivering long-term value for money for the British taxpayer.

“Continuous innovation in IT service provision is enabling us to be more secure, more agile and more sustainable, whilst delivering a 21st Century platform for global diplomacy.”

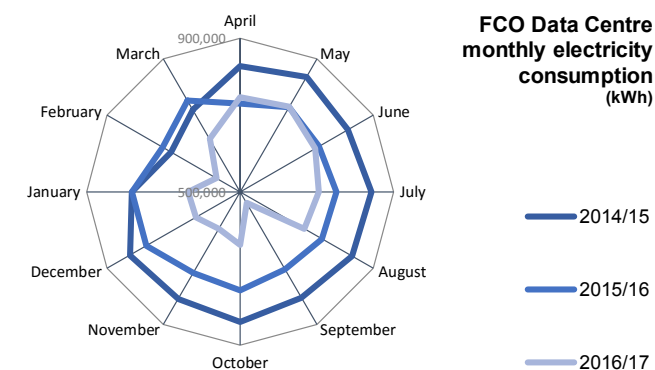
Colin Martin-Reynolds,
Chief Information Officer

Performance against energy efficiency standards compliance (Energy Star and EPEAT labelling) is very good. Government Buying Standards compliance mandates Energy Star compliance, and Computacenter are highly compliant (near 100%) in the areas that have a Government Buying Standard (Desktops, monitors, printers). This is due to the good compliance of the legacy estate devices. An assessment has also been made of devices purchased for Tech Overhaul which are 100% compliant.

SMI have engaged with the Tech Overhaul Smartphone, performance improvement and devices rollout work streams to ensure that ICT waste is treated correctly and responsibly in accordance with legal obligations and if brought back to the UK, properly accounted for in accordance with FCO Environmental Policy. Continued engagement with the Tech Overhaul programme ensured that a KTD-TO waste policy was produced by the end of the financial year. Projects are also challenged at Change Boards to demonstrate that they are operating in accordance with FCO's Environmental policy.

In 2017-18 the majority of new devices will be rolled out to staff. New laptops have much lower power consumption than the existing desktops and have the potential to deliver the biggest savings of all the Tech Overhaul work streams. After installation in the UK, it is estimated that there will be a saving of 486tCO₂e & from 2018-19 the savings are forecast at 729tCO₂e per year

Data Centre Electricity Consumption (kWh)			
	2014/15	2015/16	2016/17
April	827,453	729,857	746,395
May	846,181	754,223	755,286
June	823,572	737,453	725,796
July	842,238	751,046	705,044
August	836,249	746,202	692,805
September	819,554	733,579	533,585
October	839,426	757,094	638,605
November	822,528	744,502	611,705
December	831,368	782,487	632,095
January	782,086	782,056	635,637
February	707,246	732,380	571,771
March	746,738	774,422	658,975

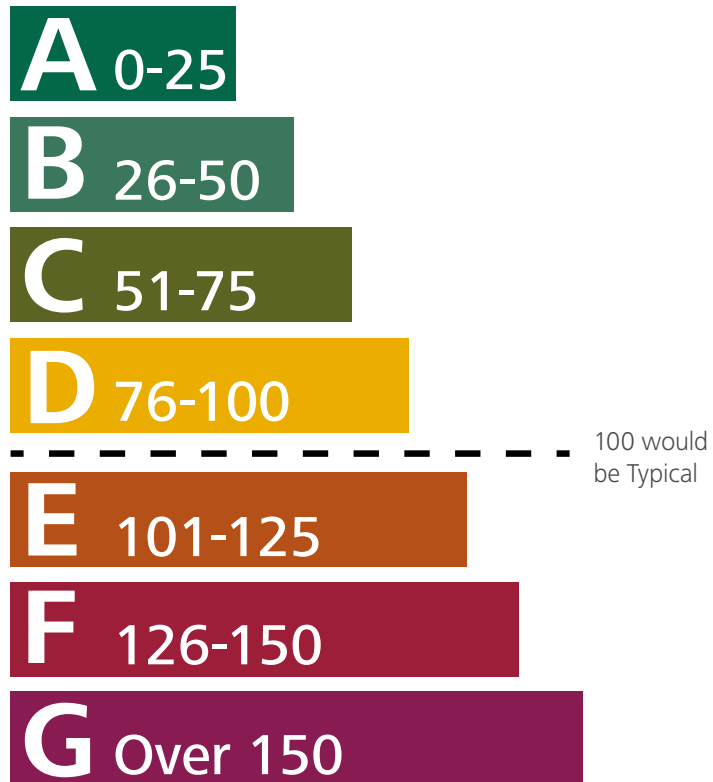


Display Energy Certificates

The sites which are mandated to produce DEC's continue to perform well based on this methodology.

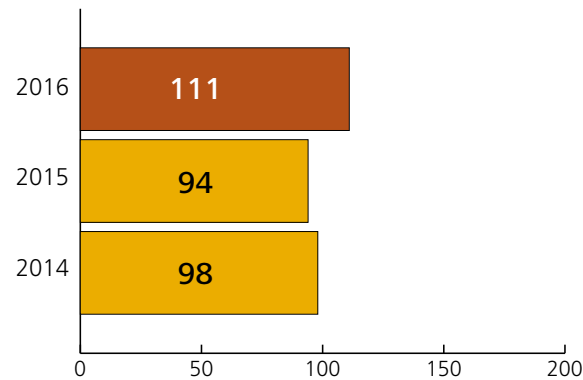
An overview of the last 3 years of data show that we've seen a notable reduction in performance of the King Charles Street Headquarters. This is in part due to historic data which shows good performance during a period of major refurbishment and reduced occupancy. The 2016 performance better reflects the building in a business as usual state. Based on the building's historic status, age and 24 hour operational nature, the building performs very well, just below average for a building of its size.

More Energy Efficient

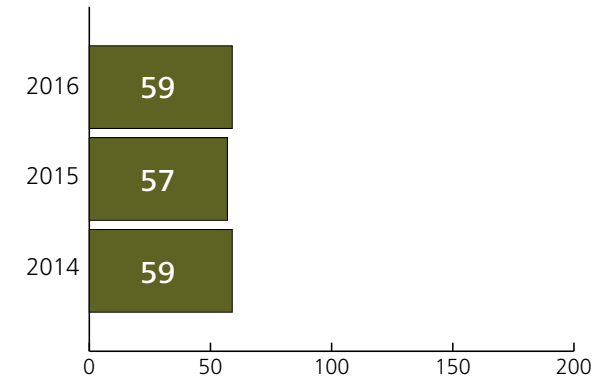


Less Energy Efficient

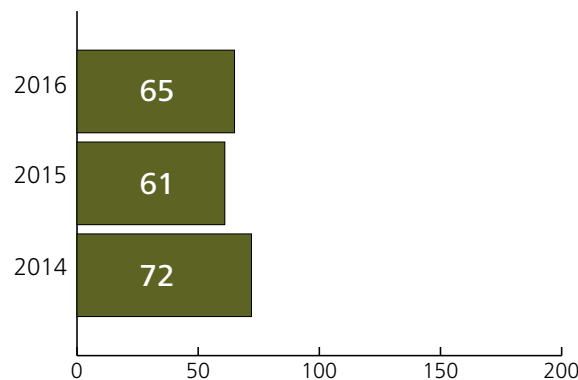
King Charles Street



Lancaster House



Carlton Gardens



A thank you to Sir David King, our outgoing Special Representative on Climate Change

Sir David King, the Secretary of State Special Representative on Climate Change, visited Mexico in March 2017. He had wanted to return to Mexico before retiring because our collaboration on Climate Change has been so effective.

He was given a celebrity reception, warmly welcomed in productive discussions in the Ministries of Energy, Environment and Foreign Affairs; the Senate; the National University; and by a wide range of private sector representatives. The success of our collaboration was highlighted in every meeting.

A smart investment...

Ten years ago we were the first donor to offer support to set up Mexico's climate change office. This modest investment, the foundation stone of our relationship, has led to substantial outcomes, delivered thanks to our Prosperity Fund Programme.

A sound domestic policy framework. We helped Mexico adopt a Climate Change Law, based on ours, with binding emissions reduction (50% by 2050) and clean energy targets (35% by 2024) - only the second country in the world to do so after the UK. We have since worked to ensure effective implementation of the law, including helping 400 municipalities across the country draw up Climate Change action plans.

A valuable ally in international negotiations. Mexico is genuinely like-minded on most foreign policy issues, with real capacity to deliver. But they are seen as a 'South' country. As such they can have an excellent multiplier effect with countries we might have more difficulty getting through to; they did this to great effect ahead of COP21, helping many of these countries draw up their Nationally Determined Contributions (NDCs).

... with real results

Our investment has yielded excellent policy and commercial results:

A new **electricity market** with incentives for large-scale renewable energy production, resulted in transparent auctions which set a world-record low price for solar electricity (\$33 per MWh). Given familiarity with the UK-influenced market, British firms won large contracts, with two solar projects and a wind project worth hundreds of millions of US dollars.

Our work driving **urban mobility** led the Federal Government to ring-fence 15% of its Metropolitan Fund (the main tool to fund cities) for sustainable mobility (US\$22.5m of federal funds from a £150k project); and opened opportunities for British firms to gain a foothold in the market, including to deliver London-style double-decker buses to Mexico City.

Building upon The City's leading experience, we have prompted a **green finance** strategy for Mexico, which has revolutionised Mexico's financial sector. We helped set up a new market for Green Bonds.

We have promoted links between Mexican and British institutions working on **innovative technologies in the energy sector**. As a result a British institution has won a contract to manage the new Mexican Innovation Centre on Smart Grids. This is the third contract (of six) the Mexican government has given to manage their ambitious low carbon innovation strategy to a consortium including a British institution.

And the future is promising

Sir David's conversations with Mexican counterparts had two common denominators: appreciation for our partnership and desire to do more together. The Ministries of Environment and Foreign Affairs reinforced their commitment to implement the Paris Agreement but recognised that access to low carbon technologies was key. They see the UK as an ally who can support Mexico in this area and look forward to continuing to work together.



"I am grateful to Sir David King for his invaluable support, helping us build and grow our strong bonds with our Mexican counterparts on climate change and sustainable energy issues. The Mexico team wish him well for the future."

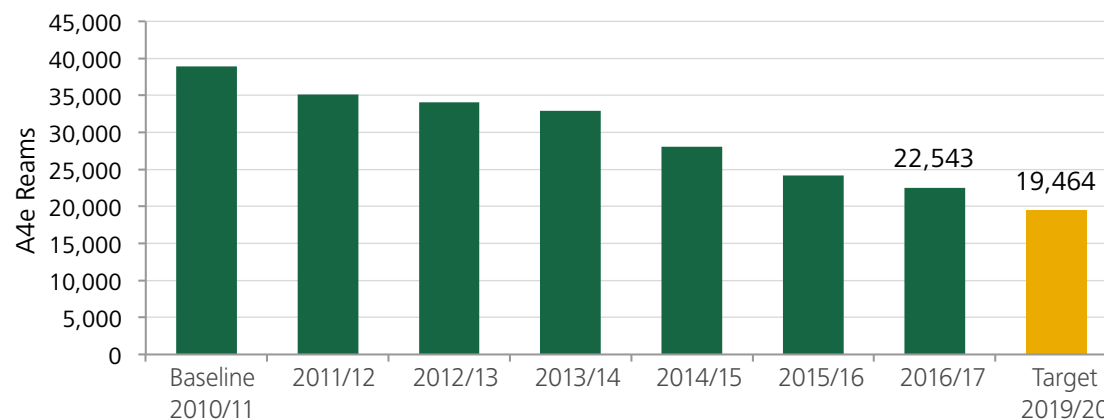
Duncan Taylor,
HM Ambassador Mexico

Waste & Paper

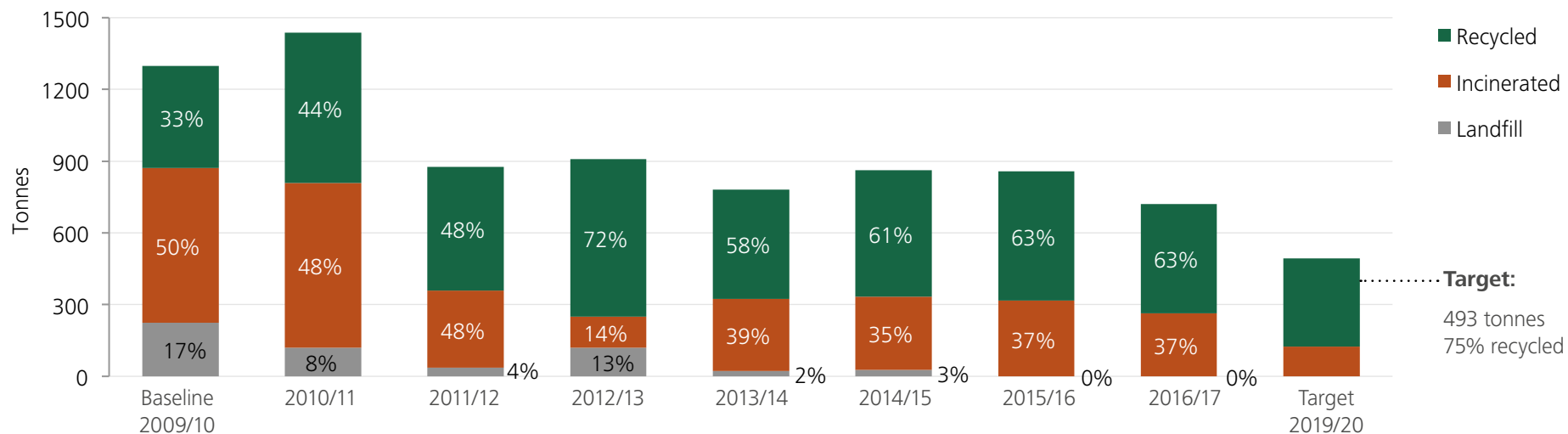
The tables below provide the headline waste disposed figures and costs and the paper volumes across the FCO's UK operations.

Waste		2016-17	
		Tonnes	GBP (£)
Total Waste		720	134,215
Hazardous waste		24	13,277
Total waste by method of disposal	Landfill	0	0
	Reused-Recycled	455	44,189
	Incinerated without energy recovery	14	1,027
	Incinerated with energy recovery	251	75,722

Paper Volumes



Waste Headlines



Waste Commentary

Our waste performance is good this year, with reductions seen across the estate placing the FCO on a good footing to achieve our stretching 2020 targets. The years ahead will be challenging, particularly 2017-18 as we see a significant increase in waste arising as part of our Tech Overhaul programme.

Pushing our recycling performance upwards is more challenging and our 75% recycling target is some way off having seen little change in the percentage recycled over the past 3 years, as the office hovers around 62%. To be on track, the FCO would expect to be achieving a 65% recycling in 2016-17.

As staff numbers increase in the office, we are pleased to see no increases in waste arising. As part of the #FCO2 communications campaign we have launched reusable mugs and a discount on hot drinks purchased with a reusable mug. The FCO consumes around 3 tonnes of disposable coffee cups each year and although this is less than 0.5% of total waste, we are expecting staff engagement through this scheme will drive better waste habits and drive greater individual responsibility for waste. In 2017/18 we will be launching coffee cup recycling across the UK estate to further reinforce the message and increase engagement in sustainability. The FCO will also be looking at innovative ways to reduce the waste it produces and introduce circular economy thinking to its processes where feasible.

Across the UK operations, we continue to operate at zero waste to landfill across our own estate and those of our arms length bodies, Wilton Park and FCO Services.

Paper

Targets to reduce paper waste are stretching, however the FCO continues to perform well. Driving reductions in paper use help to better secure our information and reduce the chance of information breaches.

Being an organisation that operates with security at the heart of everything we do, reducing wasteful activity that could have an impact on security is a key driver. Paper consumed by the office continues to fall, and with changes in our IT infrastructure and its new capabilities, including pin-and-print coming to our printers in mid-2017, we anticipate this to continue to fall and we anticipate strong reduction figures going forward. Trials to move committees and board meetings to a paperless environment by providing tablet computers will drive innovation.

Reams (500 sheets) of A4 paper per FTE	2014/15	2015/16	2016/17	Best practice
	6.8	5.9	5.4	7



"I'm pleased that we are continuing to see reductions in waste, particularly as staff numbers rise and the number of external events held in Lancaster House also continue to rise. We have a difficult challenge ahead and are looking at innovative ways to drive performance improvements."

Patricia Dilley,
Head, UK Facilities Management

Snapshot: FCO Services Logistics Packaging

FCO Services Logistics Team this year have moved away from using wooden pallets to support the shipping and transportation of diplomatic post around the globe.

The new cardboard pallets and crates used by the Logistics team do not contain any nails, are splinter free, will reduce FCO Services' carbon footprint, are easily recycled, manufactured in the UK and are significantly lighter.

The cardboard pallets can be loaded with a weight of up to 750kg and will stay strong for 30 minutes if submerged in water. Using the new pallets and crates means FCO Services is no longer bound by requirements relating to transboundary shipments of wood packaging that must be treated to prevent the spread of disease and insects that could negatively affect plants or ecosystems (ISPM 15).

"We cannot completely stop using wooden crates but we have been able to dramatically reduce their use by switching to cardboard, and have been able to save money and reduce the amount of waste created by our organisation."

Steven Horder,
Chief Operating Officer, FCO Services

Air freighting Example

A typical cardboard pallet weighs 6kg where a timber equivalent weighs 19kg. A switch to cardboard pallets delivers a reduction of 13kg per pallet. Assuming air freight costs £2 per kilogram, FCO Services sees a saving of £26 per pallet by switching.

When air freighting, a fuel surcharge is added per kilogram of £1.50, assuming a typical weight reduction of 13kg when

using cardboard pallets over timber, a further £19.50 saving is accrued.

Total saving per pallet shipped = £45.50

Road Freighting Example

Taking a standard 40 ft trailer which FCO Services uses with 52 pallets on board, using standard wooden pallets, the payload (excluding goods) would total around 1300kgs. The equivalent cardboard pallets at 6kg each, total 312kg. The weight saving is just shy of 1 tonne (988kg).

So for a journey from London to Rome (1094miles), the vehicles would save 30 liters of fuel and 98kg per load in carbon emissions (CO₂e).

"Using the crates has also increased productivity for the packing of items as the teams now have standard sizes in stock which can be taken from the shelf as and when needed, and the crates can also be adapted which is very useful."

Simon Evans,
Operations Manager, FCO Services



Water

Water consumption has fallen significantly this financial year; we've seen an overall reduction of 15% over last year, and a 27% reduction over the baseline.

We've struggled in recent years to significantly reduce our water use and last year failed to achieve good practice water consumption of 6m³/FTE. To drive efficiency we had to look beyond purely sustainability projects. Much of the UK estate's toilets were over 30 years old and in need of refurbishment, and analysis in a number of buildings across the estate had identified that urinal flushing controls were failing and contributing to significant 'leakage' from urinals which had gone unnoticed. Aligning business-as-usual maintenance and refurbishment with our sustainability aims has helped us to drive better long-term value for money. The toilet refurbishment programme allowed us to innovate and install waterless urinals across the estate.

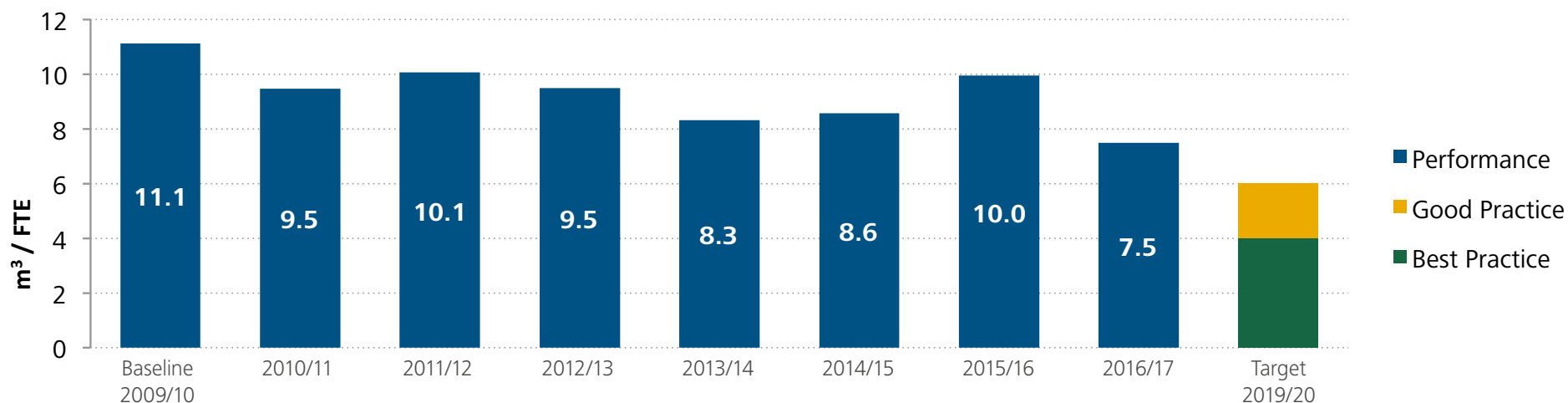
The phased roll-out across our buildings has been successful and minimised the impact of the daily running of the estate. Where waterless urinals have been installed, we've prevented the future unnecessary wastage of water through urinals.

In our headquarters at King Charles Street, Interserve's Hard Services Manager identified a potential water saving measure through the reuse of water normally discharged to drain during the 'blow down' process associated with the building's three cooling towers.

The 'blow down' process involves flushing to drain the water that has become highly mineralised due to the cooling process, whilst simultaneously making up the loss with mains water.

Finite Resource Consumption - Water		2016-17	
		Cubic metres	GBP (£)
Office Water Consumption	Supplied	31,481	46,884
	Abstracted	0	0
Non-Office Water Consumption	Supplied	17,177	25,582
	Abstracted	0	0
TOTAL	Supplied	48,659	77,698

Water Headlines



Interserve developed a bespoke partially closed loop system, which since installation in April 2016, has resulted in an overall water saving of 873 m³ which is 38% of the total cooling tower water usage, and 4% of the total building usage, equating to a cost saving of approximately £1,900 per year.

Office versus non-office water

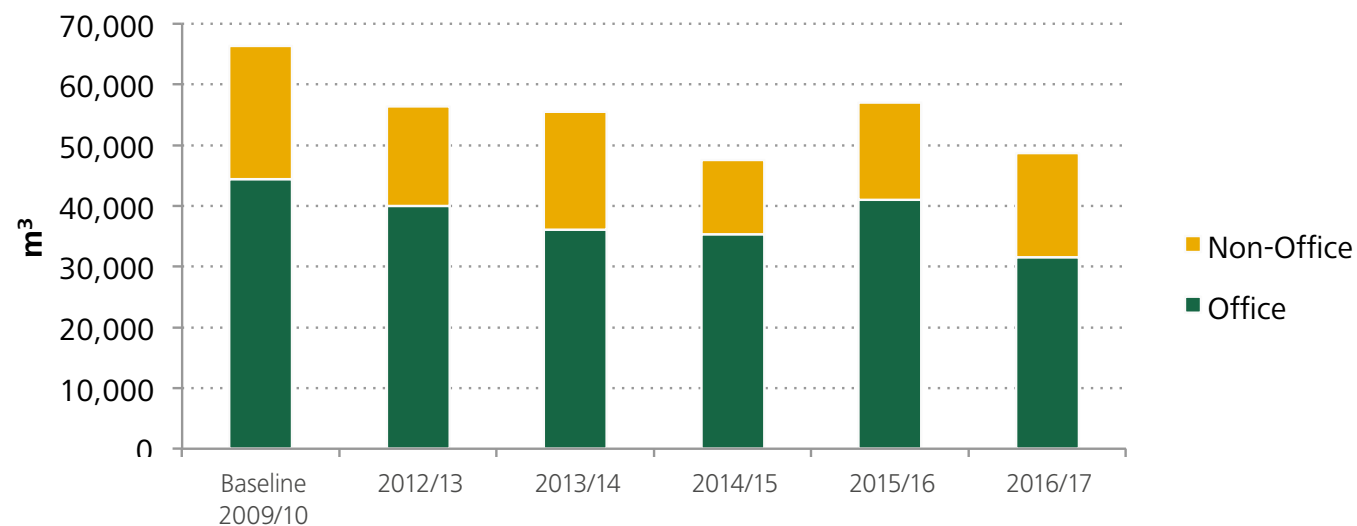
The *Total Water Consumption* chart gives an indication of the split in consumption across our office and non-office estate. The FCO's UK operations includes workshops and data centres which fall outside of the definition of office estate within our GGC reporting framework.

The impact in our efforts to reduce water consumption has been significant – driving 40% reductions in some of our buildings, contributing to an overall reduction of 15% across the UK Estate, and a staggering 23% reduction across our office estate against 2015/16.

“Reaching out and sharing knowledge across the FCO's global network is beginning to reap benefits as we align our global efforts in sustainability.”

Nigel Lucker,
Overseas Head of Operations

Total Water Consumption (m³)



Snapshot: British Embassy in Brasilia's Environmental Performance

Water monitoring

Thanks to Corporate Services and Finance support, we were able to identify three massive water leaks in the Compound. After the leaks were fixed, the water bill dropped from R\$ 55,000 (£13,200) in June 2016 to R\$ 17,000 (£4,100) in October 2016. It will drop even more and we hope to see it stabilize around R\$ 9,000.00 (£2,200). With the fixed leaks, the FCO will save (including a R\$ 55,000 credit) an estimate of around R\$ 283,000 (£68,000).

Complementary activities that have contributed to these savings are the change in time setting of i) irrigation in the gardens; ii) the fountains; and iii) closure of the car-washing facility. Additional activities for the coming months include getting quotes for rainwater harvesting and setting up automated sprinklers and controllers for the irrigation and the fountains.

Energy savings

The replacement to LED bulbs has been carried out in more than 60% of our flats and residences in Brasilia. We expect to see a significant reduction in the energy bills by the first semester of 2017. In the mean time, the Corporate Services team are assessing the terms of the existing contract with the energy utility so that it is suitable to the compound's current needs.

Waste management

Our Office Environment Committee (OEC) has engaged quite closely with other Green Committees from different Embassies in Brasilia, including France, Australia, US and the Netherlands. We have recently participated in a meeting with the Secretariat of Environment of the Federal District and will keep close contact to strengthen collaboration on waste management and recycling.

Additional activities for our Post specifically include i) setting up all printers to double sided printing as default; ii) setting Tray 3 in all printers for recycling previously used printer paper; and iii) communicating where to dispose light bulbs and batteries at the Embassy and explain what further treatment is given to it by our external partners. The American Embassy has already agreed to receive our light bulbs for crushing using their on-site facilities.

The OEC team is optimistic and working to keep close collaboration with others. Therefore, we will work with our Communications team to design a friendly strategy to encourage participation of all staff in our activities, including our recycling policy, sustainable use of our resources, weekly delivery of organic vegetables and monthly organic food fairs.



Normalised Performance

To allow comparison between years and organisations, the following table normalises sustainability impacts by staff numbers. The FCO UK estate occupancy full time equivalent (FTE) staff number is 4,475 and comprises staff, contractors and agency personnel working on FCO and Wilton Park premises in the UK; non-wider market FCO Services staff working on UK premises; and FTE visitors to UK premises. The Office FTE for the reduced scope of the office water consumption target is 4,200.

Impact	Per full time equivalent (FTE) 2016/17	Per FTE 2015/16	Per FTE 2014/15	Per FTE 2013/14	Per FTE 2012/13	Per FTE 2011/12	Average per FTE in Government Departments 2015/16
Greenhouse gas emissions	2.6 tonnes of CO ₂ e per FTE	3.0 tonnes of CO ₂ e per FTE	3.1 tonnes of CO ₂ e per FTE	2.8 tonnes of CO ₂ e per FTE	3.4 tonnes of CO ₂ e per FTE	3.5 tonnes of CO ₂ e per FTE	2.3 tonnes of CO ₂ e per FTE
Waste arising	161 kg per FTE	208kg per FTE	196 kg per FTE	167 kg per FTE	204 kg per FTE	205 kg per FTE	158 kg per FTE
Office water consumption	7.5 cubic meters per FTE	9.9 cubic meters per FTE	8.6 cubic metres per FTE	8.3 cubic metres per FTE	9.5 cubic metres per FTE	9.7 cubic metres per FTE	7.9 cubic meters per FTE

Biodiversity

The Biodiversity Plan for Hanslope Park is reviewed annually. Potential impacts on existing habitats and species are factored into the management and landscaping of the Hanslope Park 44 acre site and where possible, wildlife corridors and natural habitats have been enhanced.

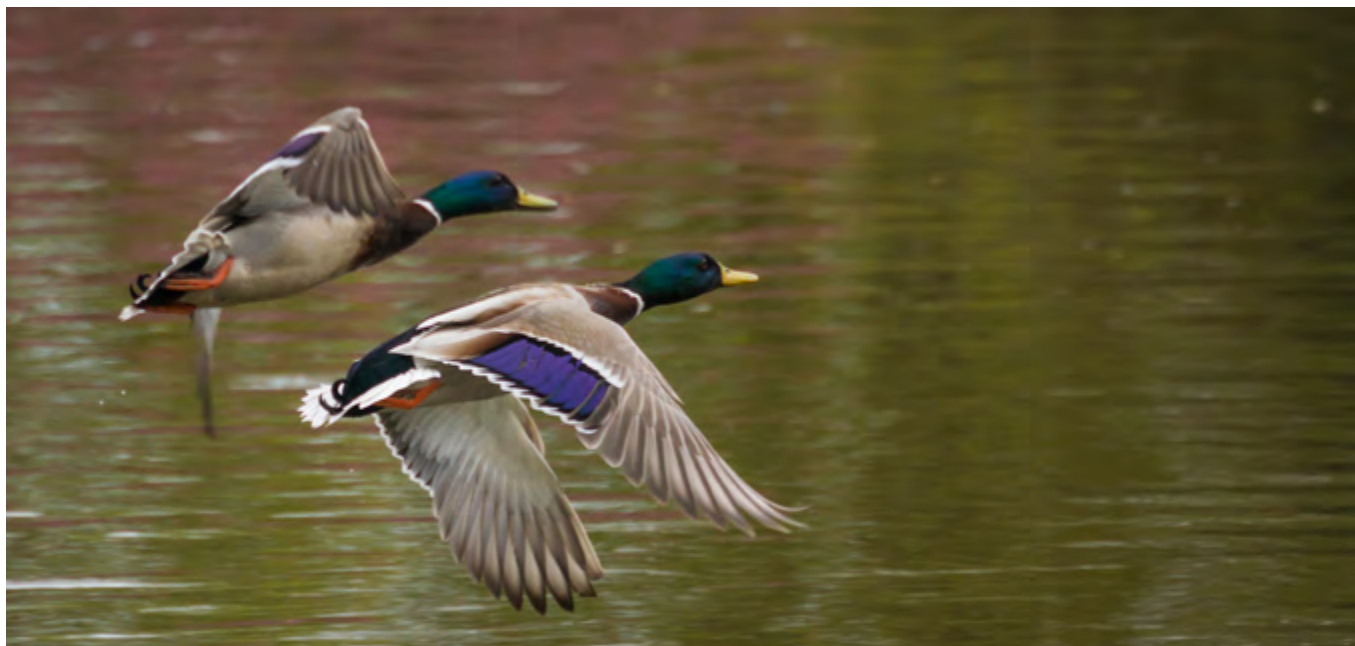
An annual arboriculture survey is undertaken for nearly 500 trees which have been plotted with GIS/GPS coordinates. The survey takes into account the tree size, age and health, species, external biochemical signs, history of pruning, signs of decay and identification of fungi. Our most prized Oak Tree is over 250 years old.

Continuous management is undertaken to maintain the pond, plant trimming and reed reduction. The pond houses a family of mallard ducks including new arrivals of 12 ducklings and a family of moorhens with their 8 chicks nesting in the floating 'duck house'.

The site also discovered wild orchids in 2016, which are an endangered species, and the area is being preserved to expect an annual appearance of up to a dozen wild orchid flowers.

A new wild flower meadow is also being developed to include annual plants and flowers to attract bees and birds. A vast number of different species of birds can be observed on site ranging from kites, swallows, chaffinches, wagtails to name just a few.

The protected 'Ha Ha' wall which surrounds the Park House Mansion (Listed II) Building is home to many animals and insects from the great crested newt to rabbits. The mansion itself often hosts bats roosting in its loft and roof area.



"Leading on biodiversity in the UK is a great privilege, particularly when Hanslope Park is such a diverse ecosystem. Enhancing the environment within which we work benefits the staff whilst also protecting endangered species like our wild orchids."

Fiona Borisuth,
Facilities & Sustainability Manager,
FM Client Unit

Snapshot: Bees in Seoul, from HM Ambassador Charles Hay

Koreans love honey, but until 2013 Seoul Metropolitan Government (SMG) did not permit urban beekeeping, for reasons that remain rather opaque. In 2015 we joined in an unusual partnership to bring bees to the Residence garden in Seoul.

Urban Bees is a small non-profit organisation set up after the 2013 SMG decision, dedicated to teaching Koreans about bees and beekeeping. They work with UNESCO to create and sustain a viable urban ecosystem in Seoul and they now have some 60 hives located throughout Seoul. They are run by a dedicated small team, supported by dozens of volunteers, looking after the bees and running educational programmes.

Superjam is a British company founded by the extraordinary and dynamic Fraser Docherty who started making jam based on his Grandmother's recipes. Superjam has risen from humble beginnings to win a variety of awards and sell millions of jars. They've even exhibited in the National Museum of Scotland as an example of an 'Iconic Scottish Food Brand'. Fraser and his team developed 'Superhoney' as a product line alongside Superjam, and when they entered the Korean market with Superjam they approached Urban Bees to become a partner to produce Korean Superhoney.

And that's where we came in. We are fortunate enough to have a magnificent garden with a huge range of flowers, and we are neighbours to the Deoksugung Palace with its garden and the US Ambassador's Residence, so there is plenty of foraging grounds for bees. In Summer 2015 we took delivery of three hives containing some 60,000 bees. Ever since then the bees have been hard at work pollinating and collecting honey. Some of the roughly 10kg a year from each hive stays with us (it makes a nice gift) and the rest goes to be sold with the proceeds split between Superjam and Urban Bees. So with our bees we contribute to a sustainable ecosystem; support a worthwhile NGO and promote British business.



FCO EMS – Our Environmental Management System

The FCO has held environmental management certification to ISO14001 since 2006, and continues to invest in the environmental management system in the UK to drive continuous improvement and ensure the FCO complies with its legal obligations.

This is particularly important outside of the FCO's office estate as the office manages data centres, car, wood and metal workshops and operates a sewage treatment works at Hanslope Park. We're pleased that FCO Services holds EU Code of Conduct (CoC) certifications for its data centres, and Computercenter a major IT contractor for the FCO is also working to improve performance of our data centres to ensure they achieve the EU CoC standards, delivering a 21st century platform for the FCO, reducing operating costs and improving the environmental efficiency of our estate.

The Sewage Treatment Works continue to provide difficulties and we have seen a number of breaches of our Environment Agency Discharge Consent. Our Facilities Management provider along with staff within the FCO are working to provide efficient, cost effective and long lasting solutions to this ongoing problem to ensure we are able to meet our legal requirements and maintain our ISO14001 certification.

In 2017-18 the FCO will be recertifying to the revised 2015 standard and in line with this standard, will be strengthening our leadership on environmental management issues, with a sponsor sitting on the FCO Investment, Infrastructure and Operations Committee.

Sustainable Procurement

During 2016-17, the FCO continued to emphasise sustainability within its procurement procedures, including use of the Government Buying Standards (GBS) across its UK operations. The FCO's UK in-house catering provision meets British or equivalent production standards and partially meets the GBS for Food and Catering Services.

The FCO continues to collaborate to support the potential of the FCO UK and high priority spend to deliver sustainable benefit. For example, The FCO acknowledged the increased Government SME (small and medium sized enterprise) target of 33% and continued therefore to ensure SMEs were made aware of contract opportunities. Our processes supported and enabled SME's to bid. We used Contracts Finder to advertise opportunities and supplier events following on from Open Procurements to discuss our requirements with Markets. For UK spend in particular, we used Crown Commercial Service Frameworks e.g. G Cloud which has a large number of SME's registered to it.



“Within the constraints of reducing budgets and tightening purse-strings we’re continuing to look at innovative ways to reduce costs for the British taxpayer whilst supporting the delivery of sustainable procurement solutions for the FCO.”

Ann Pedder,
Commercial Director

Sustainable Construction

The FCO adheres to sustainable construction standards. There has been very little construction work delivered by Interserve throughout the 2016-17 period. The work that did take place resulted in 6 tonnes of construction waste being generated, 100% of which was diverted from landfill and was recycled.

The FCO continues to support the UK Government's Timber Procurement Policy and with its FM contractor the FCO continues to procure timber through a supply chain that is committed to sourcing timber responsibly.



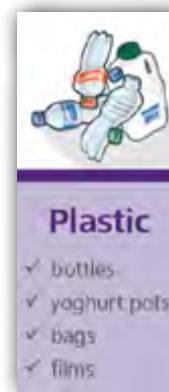
People & Incentives

45 staff have volunteered as Environmental Volunteers to promote sustainability campaigns within their Directorates. 22 are trained as internal EMS Auditors. Staff are kept abreast of the FCO's environmental performance via its intranet and building information screens across the estate.

In 2016-17 the FCO launched a new sustainability hashtag #FCO2, which refreshes the previous 'Greening the FCO' tag that had been in use for a decade and, although had good brand awareness, was no longer fit for purpose.

Recent staff engagement programmes have focussed on waste and recycling, with the aim of improving the level of recycling across the UK estate. Updates to the signage, along with the introduction of reusable cups for purchase and discounts on hot drinks for those staff that bring their own mug, has seen improved levels of awareness across the office. These programmes along with informal updates via the FCO Intranet's 'DipTweet' feed has opened two-way engagement opportunities between Alex Hilton, Head of Sustainability (Operations) and staff across the global network. Posts overseas are adopting the #FCO2 hashtag, and there is ongoing work to bring together the global network of 'Green Teams' to share knowledge and experiences from around the globe.

The carbon off-set costs of international flights are re-charged to Directorates. The FCO charges its Executive Agencies and tenants for the costs of Carbon Reduction Commitment (CRC) Allowances purchased for their energy use.



Risks and Opportunities

The risks and opportunities identified by the FCO are held within the FCO's UK Environmental Management System and documents in detail the political, economic, social, technological, legal and environmental drivers.

The main opportunities to reduce environmental impacts in the UK are through our IT Tech Overhaul programme along with ongoing investment in business-as-usual upgrades to existing infrastructure and equipment. Delivering innovative solutions to contribute to achieving our targets and sharing and promoting this innovation with staff and colleagues across government increases awareness and broader support for FCO sustainability action. Closer working relationships across diplomatic and operational staff both in the UK and overseas will increase understanding and shared value further opening synergistic opportunities to deliver a world-class estate.

The main risks to meeting the FCO's sustainability targets are: insufficient funding available for mitigation measures and planned measures not delivering expected savings. This is particularly clear with our IT infrastructure changes which are a significant part of our carbon reduction strategy. For example, increased artificial ventilation and cooling will offset some sustainability gains from more intensively occupying our estate, but we will mitigate these risks by identifying further low and no cost measures and exploring alternative funding arrangements, if necessary, to deliver savings and improved environmental performance.

Understanding the macro-level changes and megatrends forthcoming, and embedding these within our strategy, will help to support and enable the FCO to make responsible and cost effective investments for the future.



Notes

1. Although FCO Services and Wilton Park are Executive Agencies with their own Annual Reports and Accounts, all of Wilton Park's and most of FCO Services' sustainability impacts are included in the figures in this report because they are included in the FCO's GGC targets. Also, FCO and FCO Services are largely co-located. FCO Services' Wider Market impacts are not included, as the GGC Exemption Panel decided in 2012/13 that they should be exempted from the scope of GGC. The sustainability impacts of the FCO's overseas operations are not included.
2. Estate electricity consumption includes electricity consumed in charging FCO Services owned electric vehicles. The FCO has not yet baselined or reported emissions from underground, bus or coach travel.
3. DEFRA conversion factors have been used to calculate carbon emissions. The greenhouse gas emission figures are non-weather corrected. Some totals include estimates where actual measurements were unavailable. The methodology and calculations for each estimate is documented. 0.3% of all estate water consumption & 0.14% of greenhouse gas emissions is estimated in this 2016-17 reporting. All waste arisings are taken from actual measurements.
4. Scope 1 direct emissions arise from organisation owned equipment; Scope 2 indirect emissions from consumption of purchased energy; and Scope 3 other indirect emissions from non-owned transport. Organisations have most control over Scope 1 emissions.

5. The expenditure figures relate to the FCO's UK operations only and include VAT. Apportioned FCO Services' wider market estate energy, water and waste costs are deducted. FCO Services purchase fuel for their fleet (except electricity for electric vehicles) and that expenditure is recorded in the FCO Services Accounts and sustainability reporting. FCO Services also disposes of certain waste streams and accounts for the cost of their disposal.

6. Deducted FCO Services Wider Market impacts and expenditure in 2016/17 were:

Greenhouse gas	2,392 tCO ₂	£ 166,835
Water	3,513 m ³	£ 5,610
Waste	52 tonnes	£ 9,691

7. Wider Market impacts are calculated using the Wider Market revenue percentage from the FCO Services Annual Report and Accounts plus estimated Wider Market data-centre emissions for greenhouse gases.
8. The average Government Department Office Water Consumption per FTE figure uses data from Defra's GGC Annual Report for 2015/16. The average Government Department greenhouse gases and waste per FTE figures are taken from the four other Departmental 2015/16 Annual Reports which normalised emissions and waste by FTE.
9. Previous years' totals have been restated to reflect corrections to FTE data.

10. Expenditure on GCOF carbon offsets for UK originated international flights has been estimated based on previous year expenditure rates per tonne of CO₂e.
11. Under CRC Energy Efficiency Scheme rules, the FCO must purchase CRC allowances for all CRC qualifying emissions on its estate, including tenants' emissions. FCO will recharge tenants the following amounts for 2016/17 CRC allowance costs:

HMGCC	£ 78,626
Wilton Park	£ 1,083
FCO Services	£ 30,039

12. The breakdown of waste disposal costs reflects actual charges for specific methods where available. Wherever the charge to the FCO does not distinguish between disposal methods, the cost has been allocated in proportion to how the waste was disposed.
13. The paper volumes figures are based on the number of reams of A4 paper equivalent purchased by the office in the financial year.
14. The number of domestic flights; domestic flight and train travel emissions; and associated expenditure relate only to flights and train travel booked with the FCO's travel provider. Flights and train travel booked by other means are not readily identifiable.



Foreign &
Commonwealth
Office

Facilities Management Client Unit

Foreign & Commonwealth Office
King Charles St, Westminster, London SW1A 2AH, UK
Tel: 020 7008 1500

Comments and Suggestions

We welcome your views on the quality of service we provide. Please write to the Head of Sustainability at the address above or email: fco2@fco.gov.uk

[gov.uk/fco](https://www.gov.uk/fco)