



Forestry Commission Scotland
Coimisean na Coilltearachd Alba

Annual Sustainability Report

Financial Year 2016/17

Annual Sustainability Report 2016/17

OVERVIEW

2016-17 has seen further improvement in Forestry Commission Scotland's (FCS) Environmental Management System (EMS) and drive to minimise the impact of our activities. In line with FCS's Public Bodies Duties, annual targets will continue to be applied in key areas such as reducing emissions resulting from travel and energy use, and minimising the organisations water consumption and waste generation.

The purpose of this report is to summarise FCS's environmental performance during 2016/17 in line with Scottish Government guidance¹.

Our Environmental Management System (EMS) & Governance

Building on from our Business Sustainability work in 2015/16, there has been a noticeable development in staff awareness over the past year.

Support for staff

The FC Scotland Business Sustainability intranet site is maintained by a designated member of staff ensuring recent developments are publicised. The website provides up-to-date, relevant information for staff across Scotland. Business Sustainability support roles are well defined and staff know who to contact in relation to a specific enquiry.

The Business Sustainability Enquiries Outlook mailbox is not as busy as previously, due to the improved capabilities of staff in inputting to the Business Sustainability database. Local Business Sustainability teams ask for advice from the Business Sustainability Co-ordinator, increasing their knowledge across the organisation.

The Business Sustainability Co-ordinator will carry out site visits and training as necessary, on request. This ensures data is being input correctly to the database and recycling is being done as efficiently as possible.

¹Public Sector Sustainability Reporting – Guidance on the Preparation of Annual Sustainability Reports 2011-12. (Scottish Government, January 2012).

ISO14001 Certification



The Forest Enterprise Scotland and Forestry Commission Scotland Management Boards concluded that both Forestry Commission Scotland and Forest Enterprise Scotland would withdraw from ISO 14001 certification. They would not seek re-approval when the current certificate expired in June 2016.

Although we will no longer be audited externally by the LRQA or take part in ISO 14001 we are continuing with the 'Best Practice' learnt over the years, to ensure we to keep up the high standards achieved over the last few years

Environmental Performance Monitoring & Reporting





FCS has improved the accuracy of recording vital environmental data; monthly reports are issued to Forest Districts and Conservancies for monitoring by experienced staff, ensuring any discrepancies are actioned. These reports give a detailed breakdown of the data input to the Business Sustainability database by staff at a range of locations across the National Forest Estate. Discrepancies are highlighted and designated staff, in Forestry Commission Scotland National Office and Forest Enterprise Scotland Head Office ensures any discrepancies are followed up. Staff input quarterly, in line with the financial year, which ensures the reports generated are more accurate.




Our approach to business sustainability ensures that impacts of energy use, travel, waste and procurement are effectively managed and that we comply with relevant environmental legislation.

Further details of our performance is shown in Table 1 & Appendix 1.



Table 1: Summary of Our Performance

Area	Performance in 2015/16	Status
Energy	Emissions from energy use have been reduced by an average of 20% compared with 2015/16	
Waste	More accurate waste recording has shown an increase of 2% in waste generated in 2016/17. As a result, we will re-establish the base line using the 15/16 outturn.	
Transport & Travel	Emissions from travel have been reduced by 8% compared with 2015/16	
Water	There has been a marked increase in our efforts at reducing consumption, against forecast, and interrogating sites relating to the installation of water meters.	

-  Target met
-  2015– 16 to act as baseline
-  Target not met

ACTIONS TAKEN DURING 2016-2017 TO IMPROVE SUSTAINABILITY

Energy Efficiency and carbon reduction

- **North Highland Forest District** installed PV Solar panels when they re-roofed the Forestry Commission house at Bettyhill. This was done with the aim of providing hot water in a carbon free way for the property during the summer months.



- **Balnacoul Workshop** has now been fitted with LED Lights and will use about half the power of the old lights.
- **Longman Workshop** is moving to smaller premises which will reduce heating and lighting costs.

Measuring, Monitoring and Management Information

Forestry Commission Scotland has continued to make improvements in the accuracy and availability of key environmental management data to cost centres.

Alongside monitoring travel emissions and energy use, new reporting and metering systems for waste and water management are enabling more reliable information to be reported on waste generation and water consumption.

Water meters were installed at a number of new sites and we have been collating better information on our water usage.

Work has continued in 2016/17 on the value-added use of Automatic Meter Readers (AMR's) ensuring they are installed where possible.

Waste and Recycling

The standardising of recycling procedures and the review of waste categories within Forestry Commission Scotland has made recording more accurate, ensuring that the information collated is now comparable across the organisation.

Aerosol cans are now collected by local councils and recycling companies, removing the need for specialist collections and reducing costs significantly.

Reducing travel emissions

During 2016/17 a new bicycle shed was installed at Silvan House, Edinburgh to accommodate an increasing number of staff cycling to work. With the increased capacity of the new shed and existing bike rails at the front of the building there is now space for 60 bikes. As a result this has further encouraged an additional number of staff to cycle to work.

Edinburgh City Council is running a scheme encouraging staff to use a greener option to travel to work. The first action is a Travel Survey on how individuals within Silvan House currently travel to work, followed by setting up a task team comprising of representatives from SEPA, SNH, DWP and the FC to obtain input into the survey and the findings. Other action points in the document distributed to the Sustainability group would be looked at after completion of the survey.

In 2016/17 Forestry Commission Scotland managers have continued to make the CO2 and other emissions a key part of the decision making process when deciding on replacement vehicles.



Appendix 1: Summary of Performance

Area	Actual Performance 2016-17	Target
Green House Gas emissions (Scope 1, 2 & 3 Emissions)	3,318 tonnes Co2¹ [1,917 Co2 travel + 1,400t Co2 energy use]	--
CRC Energy Efficiency Scheme related expenditure	Approx. £20k	--
Total travel emissions	1,918 tonnes Co2	8% reduction from 2015/16 Target Met ✓
Total travel expenditure	£3,208k	--
Total energy consumption	4,878 M kWh	11% reduction from 2015/16 Target Met ✓
Total energy expenditure	£483k	--
Total waste tonnage	1,098 tonnes [Includes construction waste]	Due to significant changes in waste recording, 2015/16 will act as the baseline year for future reporting
Office waste recycling	58% recycling rate²	--
Total waste expenditure	Estimated at £183k	--
Water consumption	Total estimated³ at 22k m³	5.5m ³ per person per year in our key office buildings by 2020
Water expenditure	Estimated³ at £26k	--

Appendix 2: Core Sustainability Information 2016-17

Greenhouse Gas Emissions & Energy		2013/14	2014/15	2015/16	2016/17
Non Financial Indicators (tonnes Co2) ⁴	Total Gross Emissions	3,847	3,934	3,844	3,318
	Total Net Emissions	3,847	3,934	3,844	3,318
	Gross Emissions Scope 1	1,934	1,848	1,847	1,632
	Gross Emissions Scope 2 & 3 (indirect impacts)	1,451 +462	2,085	1,997	1,686
Related energy consumption (kWh)	Electricity non-renewable	n/a	1996k	n/a	n/a
	Electricity Renewable	3,279k ²	2955k	3,027k	2676k
	Gas	491k	500k	610k	509k
	LPG	132k	161k	202k	186k
	Other (Gas Oil)	1,098k	306k	335k	1507k
Financial indicators (£k)	Expenditure on Energy	385k	409k	413k	483k
	CRC license Expenditure	n/a	n/a	n/a	n/a
	Expenditure on business travel – official travel & fleet costs	3,532k	3,334k	3,505k	3,208k



Waste		2013/14	2014/15	2015/16	2016/17	
Non Financial Indicators (tonnes)	Total volume of waste (not incl. construction)	325	534	1072 ⁵	1098	
	Hazardous/Special waste	Total	5.5	9.68	58	0.5
	Non-Hazardous waste	Landfill	260	351	577	331
		Re-used /Recycled	144	172	379	640
	Incinerated /energy from waste	4	2	116	127	
Financial indicators (£k)	Total waste disposal cost		73.4	108	112	183
	Hazardous/special waste disposal cost		3.5	4	10	0.06
	Non- Hazardous Waste – total disposal cost	Landfill	45.5	56	69	52
		Reused /recycled	25	46	37	125
	Incinerated /energy from waste	1	3	7	5	

Water		2013/14	2014/15	2015/16	2016/17
Non Financial Indicators (m³)	Supplied	90,000	88,000	4,384 ⁴	22,121
	Disposed	*	*	*	*
Financial indicators (£k)	Water supply costs	51	50	5 ⁴	26

Notes:

¹ Co2 estimates based upon revised energy use kWh/co2 conversion factors published by DEFRA for use from 2013-14

² 2015-16 will now act as the baseline year as a result of the introduction of new metering and reporting systems during the year

³ Estimated due to the continuing water meter, installation programme

⁴ Based on 100 % Green Energy from EDF Energy supplier under Scottish Government supply contract.

⁵ Increase due to tyre recycling and possible keying error

* Unknown