

4. Sustainability and Environmental Reporting

The Sustainability Management Group developed action plans in line with the NHS Ayrshire and Arran Environmental Strategy and action plan for energy, waste, carbon management, procurement, transport, water and IT.

Emission and carbon reduction targets have been met and the utilities analysis for the period 01/04/2011 to 31/03/2012 is:

Utility	2010/11		2011/12	
	12 months kW	CO ₂ emissions Tonnes	12 months kW	CO ₂ emissions Tonnes
Gas	57,089,395	10,482	52,218,956	9,587
Pellets	1,060,608	No emissions	4,012,896	No emissions
Gas + Pellets	58,150,003		56,231,852	
Electricity	25,442,727	13,765	24,355,663	13,176
Oil	1,366,263	323	1,517,069	358
Total	84,958,992	24,569	82,104,584	23,122
	m ³		m ³	
Water	419,383		401,663	

Comparison of 2010/11 and 2011/12		
Gas + Pellets	-3.30%	Decrease
Electricity	-4.27%	Decrease
Oil	11.04%	Increase
Overall utilities	-3.36%	Decrease
CO ₂	-5.89%	Decrease
Water (m ³)	-4.23%	Decrease

Over the year 2011/12 the Sustainability Group noted the following key successes

- The 2.2MWt wood pellet fuelled biomass boiler was commissioned at Crosshouse hospital in November 2011. It currently provides 70% of hot water and heating load to the hospital at peak winter period and 100% during the summer.
- Negotiations for a single annual water bill for NHS Ayrshire and Arran was completed with a resultant 6% saving
- The review of existing building management systems across NHS Ayrshire and Arran properties to ensure that control systems are used at optimum performance is ongoing.
- Water efficiency surveys for Crosshouse, Ayr, Ailsa and Ayrshire central hospitals have been carried out and opportunities to save water and improve the processes have been identified.
- The “Night watchman” system which automatically switches off power to PCs out of hours was installed throughout NHS Ayrshire and Arran.

- 81 Multi-functional devices and 53 network printers have been introduced resulting in the removal of 397 stand alone desktop printers. Reviews of printing / reprographic equipment in 7 more departments have been carried out recently and reviews of 5 more are planned.
- The transport department working with local authorities and Scottish Government funding replaced petrol and diesel delivery vehicles with 6 highbrid vans
- During 2011/12 Twenty One percent of the NHS Ayrshire and Arran Non Clinical waste arisings were source segregated and recycled diverting 406 tonnes of waste from landfill or drain.
- Food waste from 2 hospitals at Irvine and Girvan have food waste collection systems in place and 77 tonnes of food waste was sent for In Vessel Composting
- A non-clinical waste contract was tendered for and awarded in February 2012 the new contract commenced on the 1st of April 2012 the provision of detailed data on waste arisings and plans to realise opportunities to reduce waste and further segregate and divert waste from landfill were key factors for the award of this contract. There will also be a considerable cost reduction realised through this new contract.
- A sustainability questionnaire is now included in the purchasing strategy documents used by the Procurement department and its completion is part of the contracting process.

Numerous other areas have been looked at over the current year which has provided benefits this year are ongoing and will increase benefits over time or will inform future plans, examples are:

- Installation of energy efficient lighting
- Review of alternatives to maceration of food waste and disposal to drain at major acute facilities.
- Work with Zero Waste Scotland on the content of our waste and opportunities to source segregate and recycle in line with Scottish Government Regulations
- Investigating the potential to replace oil fuelled boilers at Arran War Memorial Hospital and Lady Margaret Hospital, Cumbrae with biomass boilers and a wind turbine at Ayr / Ailsa Hospital Campus.