



LEADING THE WAY IN ENVIRONMENTAL MANAGEMENT

Lerwick Port Authority is underlining its lead in environmental management with a programme of ongoing improvements which is delivering significant results and continues to evolve.

The commitment to the environment was clearly demonstrated during 2007 / 08 when the Port Authority's Board approved the development of an Environmental Management System (EMS), designed to continually improve environmental performance, whilst maintaining a sustainable and commercially viable port.

All the efforts made by staff to implement the new environmental policy and procedures gained significant recognition in October, 2008, when Lerwick became the first Scottish port authority to be awarded certification to the internationally recognised Environmental Standard ISO 14001:2004 by BSI Management Systems. BSI's assessment report stated that the depth of system implementation was of particular note.

Over the past 18 months, the costs of managing and implementing the environmental policy has started to pay for itself by producing real long-term benefits.



Environmental Management by Numbers

The development of the Authority's EMS and the achievement of ISO 14001 certification served as a catalyst for a comprehensive programme of actions. The statistics show not only the considerable progress made in a remarkably short period, but also highlight the wide range of activities across which significant improvements have been and are being made.

65 Environmental Regulations have been reviewed to ensure operations are compliant. Employees have access to a regularly updated Register of Environmental Legislation so they can evaluate the legal requirements which relate to their activities.

The enthusiasm and commitment of the Authority's **46** staff lies behind the success to date and is key to meeting environmental objectives and targets.

Waste not...

From CO₂ reduction to seabed debris clearance, collection of refuse to consumption of paper and fuel, the Port Authority's environmental strategy is delivering improvements and savings throughout the harbour.

Savings achieved in 2009 include:

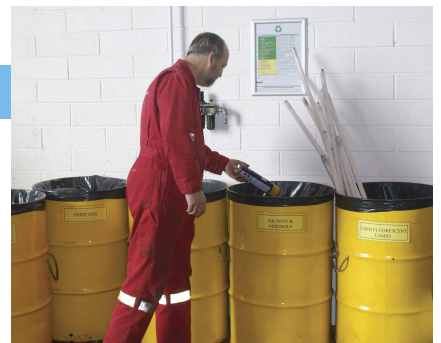
- 8%** increase in motor fleet fuel efficiency.
- 26%** decrease in electricity consumption at the Port Authority's Operations Centre.
- 7%** decrease in electricity consumption across all Port Authority sites.
- 30.5 tonnes** reduction in CO₂ emissions.
- 31,000** sheets of paper saved – equivalent to **3.75** trees.



Successful recycling

The Port Authority's recycling programme includes:

- 2,060 kg** - metal wire/anchors reclaimed from seabed.
- 29 kg** - office ink cartridges sent for refill.
- 1 kg** - drycell batteries segregated for recycling/safe disposal.
- 2,380 kg** - lead acid batteries segregated for recycling/safe disposal.
- 1,095 kg** - oil filters and oily rags segregated for recycling/safe disposal.
- 79** x 210 litre empty oil drums recycled for waste collection where possible (see photo).
- 7** x 210 litre drums of used empty paint tins segregated for recycling/safe disposal.
- 1** x 210 litre drum of aerosol tins collected for recycling.



A specially designed quayside bin was introduced last year to encourage vessels to segregate oily waste. This has been very successful. It has enabled the more efficient disposal of this waste, with the oil being sent for recycling, and has reduced localised oil pollution on the piers.

The track record also includes **257** fluorescent lamps, **393** pallets; **113** bags of glass, cans, newspaper and plastic bottles recycled since implementation of ISO 14001.

Waste Management activities in 2009 include:

- 237** tonnes of waste landed by vessels into port skips sent to approved waste handlers.
- 32** tonnes of debris collected from the harbour seabed by divers.
- 20,650** litres of waste oil collected and sent for recycling / reuse.

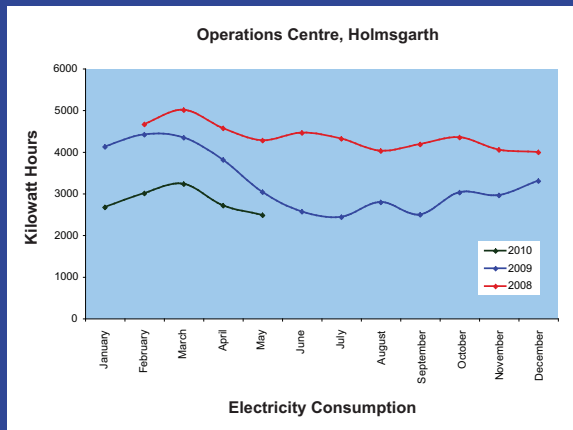
Reducing potential impact

A core function of the Port Authority's environmental programme is to reduce any potential impacts from harbour operations.

An 'Environmental Aspects Register' has been created to identify and record the environmental aspects and impacts of the Authority's activities and services, with the following elements seen as the most significant:

- Oil and fuel spills
- Land and marine waste contamination
- Energy consumption
- Port stewardship and conservancy
- Infrastructure maintenance and development
- Regulatory compliance

Using sensible risk management, control measures have been devised and implemented to drive down the likelihood of harm occurring to the vibrant marine and land eco-systems within the environs of Lerwick Harbour.



Protecting a wildlife haven

Despite the activity involved in the thriving business of the port, the area remains a haven for a considerable amount of wildlife. For example, during the seasons, common seals, grey seals and a moderate number of otters can be sighted and even orcas (killer whales) have been known to navigate the channels.

To assist in the ongoing protection of all harbour wildlife, the Port Authority maintains records and environmental sensitivity maps, including the breeding grounds and numbers of eider ducks, long-tailed ducks, guillemots, shags, great northern divers and grebes wintering in the harbour, and arctic terns which return during summer to breed.



Meeting Targets

Each significant environmental aspect is assigned a goal or 'objective and target' for improvement, with these documented by the Port Authority and progress monitored, measured and recorded at regular intervals.

To date, 22 primary objectives have been completed to improve environmental performance, including:

- reviewing and updating the Maritime and Coastguard Agency-approved Oil Spill Contingency Plan; carrying out a set programme of drills, exercises and oil spill response training; and completing a secure bunded area, suitable for collection and storage of oily waste originating from harbour operations and visiting vessels.
- monitoring and recording levels of waste deposited by vessels and using the data to set future objectives and targets; providing recycling bins at the Port Authority's offices for domestic waste; and creating a recycling station at the Operations Centre for hazardous waste.
- introducing a system for monitoring and measuring electricity consumption at Port Authority installations and fuel consumption of vehicles and vessels.
- implementing a system for measuring and recording the amount of marine debris collected during dive surveys and seabed clean-up operations.
- undertaking an Environmental Impact Assessment to produce an *Environmental Statement* for proposed future capital projects, including consideration of ecology, geology, hydrology, hydrogeology, road and marine transport, air quality and dust, noise, land and visual amenity, archaeology and cultural heritage.
- evaluating port operations and implementing any actions needed to meet or exceed requirements of applicable environmental legislation.

New objectives

In line with the Port Authority's policy of continuously improving environmental performance, new objectives have been set for 2010. These include:

All operational staff to receive Maritime & Coastguard Agency approved oil spill response training.

Upgrading oily waste reception and recycling facilities.

Improving efficiency of marine aids to navigation by introducing light emitting diode (LED) technology.

Building on the initial success of CO₂ reduction by implementing further energy efficiency strategies.

Right environment for decommissioning

Lerwick is well positioned for decommissioning of redundant platforms from the UK sector of the Northern North Sea. An 8,800 tonne Modules Support Frame from the Frigg field was decommissioning at the port's Greenhead Base, with 98.5% of the unit recycled. Lerwick's deep-water potential is central to future decommissioning opportunities and responsible environmental management a prerequisite to winning a share of this developing market.



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FS 32544

ISO 9001 : 2008 Quality Standard



EMS 524100

ISO 14001 : 2004 Environmental Standard