



WESTERN ISLES INTEGRATED WASTE MANAGEMENT FACILITY

VALUE: £10 million approx.

CLIENT: Comhairle nan Eilean Siar (Western Isles Council)

LOCATION: Western Isles

PROBLEM: To Design & Build an integrated Waste Treatment facility to meet both the National recycling targets and EU landfill Directive requirements for the entire group of islands

CHALLENGES: Remote location off the North west coast of Scotland and assimilating a relatively large industrial facility, into a mostly rural landscape.

SOLUTION: An innovative combination of waste treatments including the very first dry AD facility to be built in the UK

START DATE: Construction commencement on site June 2005

COMPLETION DATE: October 2006.



DESCRIPTION & KEY FEATURES

Under competitive tender, Earth Tech was awarded the complete turnkey construction of 2 new waste treatment facilities in the Western Isles, Scotland. The main facility in Stornoway on the Isle of Lewis treats 21,000 tpa of source-separated biowaste and residual waste by a combination of mechanical separation, anaerobic digestion and in-vessel composting. Outputs include dry recyclables for onward processing, renewable electricity, high-quality compost, and low-grade soil conditioner, with overall landfill diversion in excess of 60%.

SCOPE OF WORK:

Earth Tech are responsible for the complete design-and-build of both facilities, including process M&E, civil and building works, permitting, licensing and SVS approvals, and all process guarantees. The main treatment facility incorporates the Linde anaerobic digestion technology, whilst the composting is via the HotRot in-vessel system. Both are fully ABPR compliant.