

Assessment of New Earth Solutions technology with respect to the diversion of Biodegradable Municipal Waste from landfill and LATS

The Organic Resource Agency (ORA) are currently undertaking large scale trials of the New Earth technology at their operational facility in Dorset. The trials are evaluating the ability of the New Earth technology to treat municipal solid waste (MSW) with the objective of diverting the biodegradable municipal waste (BMW) fraction from landfill, in accordance with the Landfill Allowance Trading Scheme (LATS)

In undertaking this work ORA has consulted closely with the Environment Agency to ensure compliance with its guidance as detailed in '*Guidance on monitoring MBT and other pre-treatment processes for the landfill allowances schemes (England and Wales)*' available online at: http://www.environment-agency.gov.uk/commondata/acrobat/new_mbt_1154981.pdf

Previous research into the New Earth technology, carried out by ORA, has determined that it has the potential to divert in excess of 70% of the BMW, even if all of the residue is sent to landfill. Diversion can be achieved via a combination of mass loss as a result of the biodegradation of carbon, the stabilisation of the remaining material and where appropriate the production of a Solid Recovered Fuel (SRF). More information on this research can be found on the ORA web site:

http://www.o-r-a.co.uk/pdf/Final_Exec_Summary_08-03-05.pdf

Information will shortly be available regarding the mass balance achieved and the change in stability of the BMW over time as measured by the DR4 respiration test. Whilst, this is not the ultimate test to determine BMW diversion it is intended to provide a good indication of performance in a relatively short period of time.

Testing according to the Environment Agency's recommended measure of stability, BM100, is also underway, which will take 100 days. Confirmation of the level of BMW diversion will be determined by combining the results of the tests on Loss On Ignition (LOI) and the BM100 results.

These trials will provide valuable data which can be used to model the level of BMW diversion achievable by the New Earth technology when applied to waste of a known composition from any local authority. For more information please contact:



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