



Galway City Compost Facility

Project Experience
Bio-waste Technology

Specifications

Project	Galway City Compost Facility	Capacity	9,000 tpa
Client	Galway City Council	Status	Commissioned
Location	Carrowbrowne Compost Facility, Headford Road, Galway	Reference	Mr. Theo Mcloclainn, Galway City Council
Size	2.0 acres		
Feed Stock	Source separated household and commercial organics		

Facility History:

The facility was originally developed as an ASP facility in 2001 in Galway City and was relocated to Carrowbrowne in 2004. In response to the ABPR, Celtic BioEnergy was selected to design and build an extension to the facility to include for a new reception building five in-vessel tunnels and a compost storage building in 2006. The works were completed in November 2007.

Contact

Dr. Andrew Walsh
Euro Business Park
Little Island, Cork

t +353 (0)21 4621721
t +353 (0)21 4510700
m +353 (0)86 3872139
awalsh@celticbioenergy.com

Jones Celtic BioEnergy
Technology Providers
joneseng.com

Processing Equipment:

Weighbridge; 2 x wheel loaders with 4 cubic meter buckets; 75kW electric driven Keenan mixer for feedstock blending; Five x 250 cubic meter concrete tunnels with reversible and recirculating air-flows. 16 below grade aerated static pile curing zones with negative aeration to a biofilter and scrubber to treat odours; 12mm trommel screen and product storage area. The entire process is controlled by a remote access computer and PLC.

Composting Process and Residence Time:

Feedstock is a mixture of co-mingled household and commercial food waste from Galway City. The feedstock is blended and mixed with screening overs or woodchip, then loaded into the in-vessel tunnels for two weeks of initial intensive composting. Each batch is 100-120 metric tonnes. After the in-vessel phase, the feedstock is re-heated for a second time and temperature regime in the aerated static pile curing system for 8-10 weeks. After the curing period, the product is screened for distribution.

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