



Case Study – Integrated Waste Management Facility

Waste Planning Practice Guide – Case Study Supplement

Case Studies

Integrated waste management facility

Kent Enviropower, Allington Quarry, Kent

General

This is an integrated waste management facility, sorting mixed dry recycling and recovering energy from residual non-hazardous household and business waste arising in Kent and the surrounding area. The dry materials are sorted and sent for recycling and the residual waste and all non-recyclable material from the MRF are delivered to the EfW plant where it is used to generate electricity. The electricity is used to power the facility and a surplus supplied to the local network.

The need for reduction in landfill reliance in Kent led to the consideration of EfW as part of Kent's future waste management strategy.

Details

Information	Data
Fully operational	2008
Site (hectares)	84, the facility occupies 7 hectares
Location	Former quarry
Maximum capacity (tonnes): EfW	500,000
Maximum capacity (tonnes): MRF	65,000
Current Processing capacity: EfW (2010)	293,000
Current Processing capacity: MRF (2010)	24,000
Electricity production (mw/hr)	43MW (9 used onsite., 34 to local electricity supply network)
Site	Site includes a SSSI
Further Information	80 metre stack height 77 hectares are landscaped with mixed shrubs and trees for wildlife habitat

Kent County Council granted planning permission in 2000. The EA issued an environmental permit in 2002. Construction began in April 2004. Commissioning with waste deliveries began in May 2006. Due to technical issues, testing and commissioning of the facility was not complete until 2008 and the facility became operational in December 2008.

Community benefits

< 800 people were employed during the construction of the facility

80 people are now employed at the facility

Operators sponsored a project with the Medway Valley Countryside Partnership to clean up rubbish in the River Medway

Provision by operators to CLC with annual fund worth £1000 – community groups may apply for funding for equipment, contributions to events or similar activities.

Input

MRF: mixed dry recycling (paper, card, plastics, tins) from households and businesses around Kent

EfW: non-recyclables from MRF processing and residual waste from households and businesses around Kent

Output

- Recyclable materials: for onward reprocessing.
- Electricity: generation of 43MW per year. 34MW supplied to local electricity supply network., 9MW used to power the facility.

Planning – Engagement

Community Consultation

Responsibility: Operator commissioned independent communications consultancy

When: during planning and permitting process

Purpose:

- (i) generate support
- (ii) respond to concerns
- (iii) establish community engagement

How:

- Notification of information by letter
- Information sessions/events
- Information packs provide to local elected representatives
- Face-to-face briefings with local media

Result: no call in or public inquiry, no community challenge.

Information Dissemination – Methods

Who: local residents, community liaison committee

When: construction, commissioning and post commissioning

How:

- Newsletters (to coincide with key development stages)
- Website
- Local information phone line, email and web form
- Dedicated public visitor's room
- Site visits for schools and key stakeholders

Main public concerns and mitigation measures

	Concern	Mitigation
1	Traffic and noise	Limit vehicle movements accessing the site per day (291 deliveries per day) Routing agreements Restrict the hours of vehicle movements
2	Odour	Odour Management Plan
3	Flies	Monitoring by EA Fly control measures
4	Emissions	Regular monitoring Appropriate Air Filters

Further Information¹

Kent Enviropower: <http://www.kentenviropower.co.uk/default.asp>

Let's Recycle: <http://www.letsrecycle.com/news/latest-news/waste-management/allington-technology-defended-as-repairs-near-end>

¹ The Welsh Government is not responsible for the contents of these sites.