

# Case Study

## Energy from Waste Facility Baldovie, Dundee



### Project Description:

Enabling works package for an energy from waste combined heat & power facility. This included provision of a stabilised piling mat within the main site as well as a compound and laydown area.

### Key Works:

Structural Earthworks  
Soil Stabilisation  
Stone Import  
Minor Civils

### Client:

Standardkessel Baumgarte

### Date / Duration:

April 2018 / 12 wks

### Topsoil Strip:

3,000m<sup>3</sup>

### Cut / Fill Volume:

10,000m<sup>3</sup>

### Project Challenges / GDL Solutions:

- Re-engineered contaminated on-site materials that were intended to go to landfill and be replaced with imported aggregates and provided a combined stabilised and stone piling mat, to achieve the required bearing pressures.
- Remediated formation by the use of cement stabilisation over an area of 4,000m<sup>2</sup> proposed for use as a laydown area, removing the need for material removal from site and replacement with imported aggregates.

### Project Benefits for Client:

- 1,500 truck movements saved.
- Cost efficiencies through savings made on the reduction of the export of contaminated materials and the requirement to import stone.
- Volumes of materials recycled/re-deployed on the site and therefore diverted from landfill: 5,500m<sup>3</sup>.
- Significant financial and environmental benefits.



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EARTHWORKS



SOIL STABILISATION



VIBRO STONE COLUMNS



DEEP SOIL MIXING