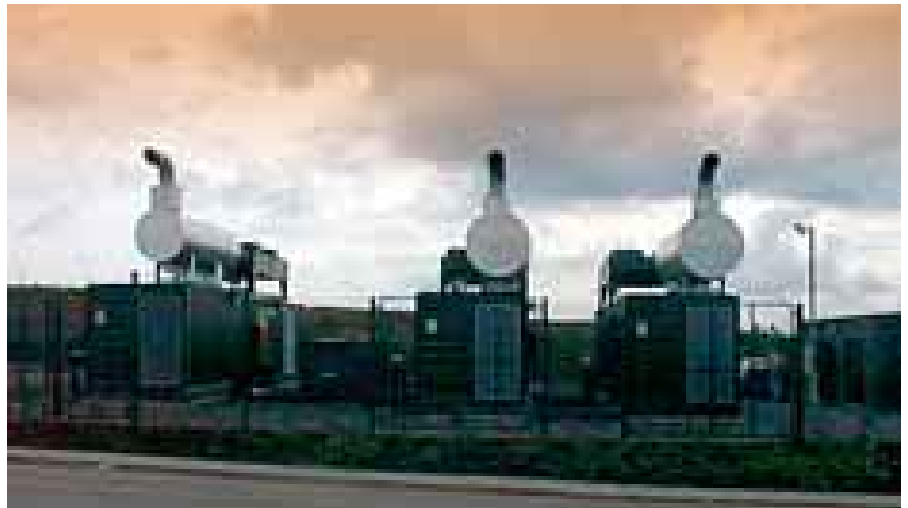
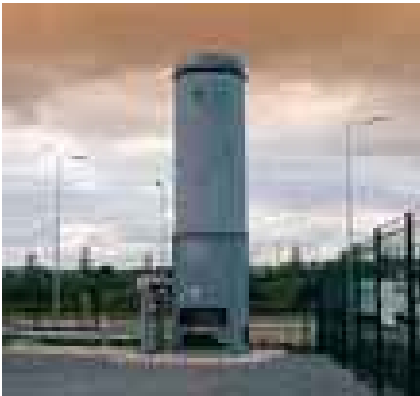


Landfill Gas Flaring and Utilisation - Docks Way, Newport Hyder Industrial



Typical Landfill Gas Utilisation Plant

In 2000, Hyder Industrial (now United Utilities Green Energy) asked Entec to assist in responding to a request from the Environment Agency Wales concerning their proposed 2 MW landfill gas development at Docks Way Landfill. An assessment was required to demonstrate that the proposed plant was compatible with modern standards and best practice, and would not result in an adverse impact upon the local environment. In particular, the work was to be undertaken with specific reference to the Environment Agency's Draft Technical Guidance on the Best Practice Flaring of Landfill Gas issued for consultation in March 1999.

Entec agreed and implemented a programme of work with Environment Agency Wales to meet their requirements. This work included:

- providing a full description of the development, its design and capacity;
- an assessment of the plant location and surrounding environment;
- an analysis of the risk for explosion and fire;

Demonstrating the compatibility of proposed plant with modern standards and best practice

- detailed assessment of the developments potential impact on:
 1. human health
 2. odour nuisance
 3. noise
 4. heat
 5. visual intrusion
 6. surface and groundwater;
- an assessment of operational issues (including the submission of an emissions testing regime) of the development.

As part of the work, Entec delivered a series of cost efficient recommendations for mitigating the impacts of the development. The most significant of these were modifications to the tailpipe on the engines exhaust to effect improvements in the dispersion of exhaust gases. The outcome of the project was a successful best practice report that was accepted by the Environment Agency Wales.

Entec has produced similar reports and environmental impact assessments for landfill gas collection and utilisation projects at sites including Brittons Ferry, Arpley and Glapwell. Entec also continue to provide practical support to companies such as United Utilities Green Energy on landfill gas to energy projects

Significant changes in the regulatory controls over landfill operations including landfill gas flaring and utilisation plant will be made under the Integrated Pollution Prevention and Control Regulations (IPPC). These together with the requirements of the Landfill Directive will prompt the Environment Agency to require tighter controls over landfill gas projects. In response operators will need to deliver a comprehensive assessments of the risks and benefits similar to those delivered in Entec best practice reports.

