



**LQM**  
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## **Project Profile**

**Sector:** Waste Policy, Landfill Gas

**Project:** Development of Guidance on Effects of Gas Cleanup on Emissions from Landfill Gas Utilisation Equipment

**Client:** Environment Agency

**Period:** 2001 - 2002



In order to limit the uncontrolled release of landfill gas, most recent landfill facilities have engineered containment, so the bulk of emissions from such sites is through the gas management system and landfill surface. The quality of the downstream emissions is highly dependent on the quality of the landfill gas supply, and the technology used to manage and control the gas. Since the Landfill Directive is being implemented under the PPC Regulations, BAT will apply to the techniques used to manage emissions, and so clear guidance on the application and effectiveness of gas cleanup technologies is needed.

This project will review information from the EU and US on the technologies, techniques and maintenance associated with gas clean up prior to combustion, assess the effectiveness and costs/benefits in terms of actual emissions to atmosphere from landfill gas clean up systems and their maintenance, and will produce comprehensive guidance useful to the management of landfill gas. The guidance will be subject to consultation before publication. An internal training package will be prepared for dissemination to Agency personnel.

The project will link closely with the Environment Agency R&D Project P1-406 'Monitoring Protocol for Emissions from Landfill Gas Utilisation Systems' and the EB Nationwide/Biogas Association project with a similar remit (also being performed by LQM – see associated project profile for details), to establish a database of factual information upon which to draft technical guidance.