

SHOALHAVEN LANDFILL GAS ABATEMENT GENERATION FACILITY



Background

AGL is committed to the reduction of greenhouse gas emissions and supporting the NSW Government's sustainable development initiatives.

Operation

The facility collects Landfill Gas (LFG) from the sites used for Municipal Waste Collection. It is then transported via a complex network of wells and pipelines before being compressed and delivered to the spark ignition V12 reciprocating engine. This in turn drives the 1MW alternator. All renewable electricity is generated into the existing local grid supply. Not only did AGL design and construct the facility, AGL Energy Services employs its own qualified service technicians to deliver its obligations of maintenance and operations

When LFG is collected and burned, many harmful pollutants are destroyed. LFG is primarily made up of methane and carbon dioxide. Methane when left untreated has approximately 21 times the global warming potential of carbon dioxide.

Environmental Benefits

This project saves more than **39,700 tonnes of CO₂ per annum**. This can be equated into some easily communicated figures such as:

- » Removing more than **9,600** cars from the road for one year; or
- » The equivalent to planting around **148,100** trees.

This is only one of AGL Energy Services many sites committed to the reduction of greenhouse gasses from such fuels as sewerage and landfill gas. This includes the generation of green energy from sewerage, landfill and solar fuels.



Project:
Shoalhaven Landfill Gas Abatement
Generation Facility

Location:
Shoalhaven City Council, West Nowra, NSW

Capacity:
1MW

Commissioned:
February 2002

Key Stakeholders:
AGL financed (B00 project)

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