

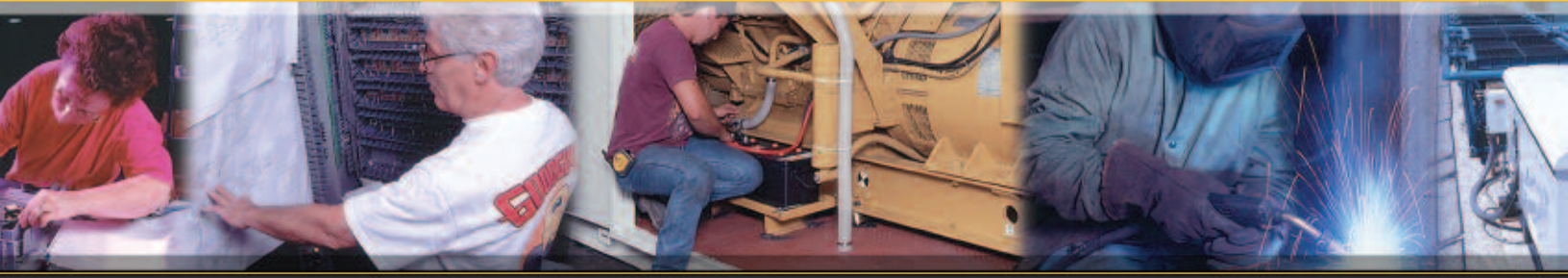
LANDFILL GAS TO ELECTRICITY



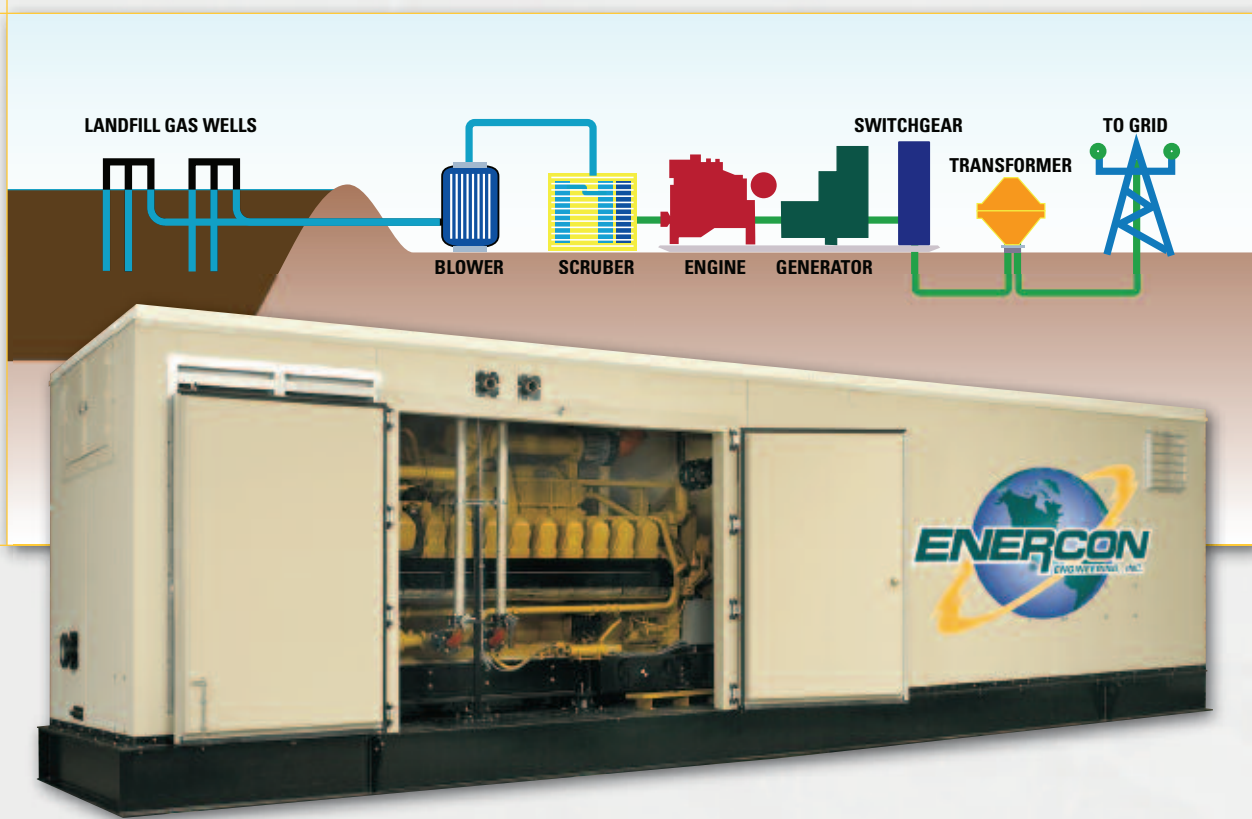
Many modern landfills are now earning significant extra profit by turning harnessed methane gas into saleable electric power.

This otherwise wasted renewable energy source can power engine-generator sets that produce electricity and increase landfill revenue by selling the power to local utility companies.





Enercon power generation products are custom engineered and designed to help landfills earn more profit by using your harnessed landfill gas to fuel engine-generator sets that produce electric power which can then be sold back to your local utility company and you can also receive green energy credits.



LANDFILL GAS RECOVERY PACKAGE

Enercon custom engineered and manufactured a sound attenuated enclosure complete with controls and low voltage switchgear for a customer supplied landfill gas fueled generator set rated at 1600 Kw. The unit produces power that is sold back to the local utility based on 3 phase, 60 hertz service at 13.2 Kv.

SPECIFICATIONS:

- 420 inches long, 114 inches wide, 120 inches tall, sound attenuated to 85 db @ 1 meter
- 9 ft. x 11 ft. control room & complete interior lighting system
- Low voltage switchgear, NEMA 1, 480 volts
- Touch screen controls display 3 phase AC amps, AC voltage, Frequency, kilowatts, and power factor
- 15kV class circuit breaker for paralleling the generator to the grid. Meets NEMA, IEEE, and ANSI standards



SWITCHGEAR & CONTROLS AT A MIDWESTERN LANDFILL

Using Enercon Engineering custom designed and manufactured switchgear, controls, and SCADA systems, a Midwestern municipal landfill generates 4.0 megawatts of power---Enough power to operate 500-700 homes.

Two 2,200 HP engines, fueled with filtered methane gas collected from 67 wells drilled 50 feet deep, drive generators that deliver 800 kilowatts each into the utility grid.

SPECIFICATIONS:

- Utility/generator paralleling switchgear rated NEMA 1 for indoor use.
- Evolution touch screen controls
- Metering displays 3 phase AC amps, AC voltage, Frequency, kilowatts, and power factor
- SCADA system monitor
- RTU for utility interface
- Interface from master PLC to landfill methane fuel system



CUSTOM SWITCHGEAR • CONTROL SYSTEMS • PACKAGING • POWER MODULES • ENCLOSURES • CO-GENERATION

For over three decades, Enercon Engineering has been a leader in the worldwide power generation industry. With over 36,000 projects worldwide, we have built a solid reputation for integrity, high quality, and expertise in the design and manufacturing of engine generator controls, switchgear, packages & enclosures, and co-generation units.

CONTROL SYSTEMS

At the heart of any power generation system is the performance and reliability of the control systems. While control systems are often integrated into the switchgear lineup, other options include:

- FREE STANDING CONTROL LINEUP
- CONTROL CONSOLES
- WALL MOUNTED

PACKAGING & ASSEMBLY

Enercon custom engineered power generation packages and assemblies either diesel or natural gas fueled, standard shipping containers or small trailers, weather proof or sound attenuated enclosures, mobile or skid mounted can meet your needs and specifications.

SWITCHGEAR

Enercon is a leading manufacturer of custom designed switchboards, switchgear, and controls. We can design equipment rated 600 to 15,000 volts with up to 12,000 amps. Enercon is a UL client company and can provide UL listing on equipment to certify compliance with UL-508A, UL-891, UL-1558, ANSI C37.20.1, and ANSI C37.20.2 standards.

CO-GENERATION, COMBINED HEAT & POWER

In addition to generating electric power, Co-generation and CHP (Combined Heat & Power) increases fuel efficiency by harnessing useful heat energy for various purposes from a single engine without increasing operating costs. Recovered heat utilization applications can include direct space heating, water heating, process heat, material drying/curing, steam or pre heat for steam, and absorption chilling for air conditioning or refrigeration.

COMPREHENSIVE TESTING:

All Enercon custom engineered and manufactured controls & switchgear are 100% tested in our factory test center prior to shipment. This comprehensive test center also enables us to offer a full range of testing services on all Enercon products including customer witness testing, performance testing, system testing with switchgear, paralleling tests.



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