

# patruus. 50 - 64 kW. biogas.

## Traditional solution.

With engine technology that has been established for decades, the patruus is the most experienced member of the 2G power plant family. It is a resilient and efficient supplier of power and heat in the electrical output range up to 64 kW.

- Designed as a connection-ready compact module
- High plant availability due to established engine technology
- Available with both naturally-aspirated or turbocharged engines
- Modular design facilitates installation in hard to reach places
- Resilient and low-maintenance
- Available as a twin pack configuration with two modules per container for twice the power



Type	Configuration	Output		Efficiency		
		Electrical	Thermal	Electrical	Thermal	Total
patruus 50	ct80-0	50 kW	249 MBTU	33.4 %	48.7 %	82.1 %
patruus 64	ct80-0	64 kW	307 MBTU	34.9 %	48.8 %	83.7 %

## applications.



Biogas Plants



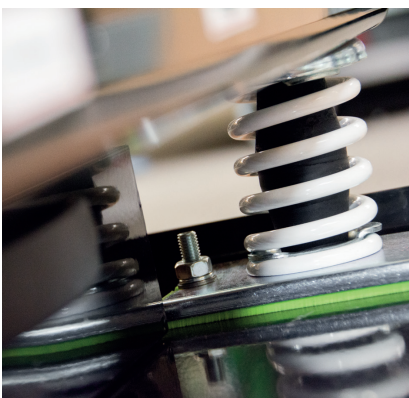
Waste Water Treatment Plants



Agricultural Businesses



Landfill Sites



# Edgecombe County Landfill Tarboro, NC, USA

2 X patruus 370 kW  
Biogas

## Fast Facts:

**Location:** Tarboro, NC

**Generating Capacity:** 740 kW

**Configuration:** Container Module

**Extras:** Biogas Treatment System



## About the Site:

The North Carolina Department of Environment and Natural Resources NCDENR initiated a Landfill Gas to Energy Project located at Edgecombe County in Northern Carolina. The Edgecombe County Solid Waste Department, situated in Tarboro, selected a third party engineering company for this project. Landfill Gas (LFG) is used for on-site power generation and all electricity produced will be fed into the local utility grid. This project is also part of the EPA LMOP program, designed to reduce methane emissions from landfills by encouraging development of cost-effective and environmentally sound LFG energy projects.

## Application

The two energy conversion modules each consist of a 2G patruus 370 module with 370 ekW/h - total 740 ekW/h or 6,142 MW p.a. electrical power and 948 kWh/th Thermal Power. The units are containerized in 30' sound attenuated modules and generate electrical power with the option to utilize the thermal energy as well. 2G Energy Inc. also supplied the complete gas treatment, including cooler, dryer / dehumidification, and the Siloxane removal system. All controls and switchgear, including utility interconnection are also provided by 2G Energy.

