

# Biogas



Combustion, treatment,  
energy recovery of biogas from:

- Municipal waste landfills
- Waste water treatment plants
- Zootechnical anaerobic digesters
- Food industry anaerobic digesters



# BIOGAS COMBUSTION FLARES

**PROGECO** has a long-term experience in the design, manufacture, supply and installation of equipment and systems for combustion and utilization of biogas produced in waste water treatment facilities, industrial water treatment plants, zootechnical anaerobic digesters, food industry.

Available biogas is usually stored in a gasholder, from which is sent to a suitable energy recovery plant (microturbines, reciprocating engines, boilers). Safety flares provide combustion of biogas exceeding storage capacity, i.e. during maintenance of engines.

**Product range:**

- **PROGECO EMR/T series** consist of open flare type safety flares (biogas flow from 50 to 500 Nm<sup>3</sup>/hr)
- **PROGECO HE series:** enclosed-flare type (biogas flow up to 1000 Nm<sup>3</sup>/hr)
- **PROGECO HT series** consist of flares operating with high combustion temperature ( $T=1200^{\circ}\text{C}$ ; nominal flow up to 1500 Nm<sup>3</sup>/hr)



All **PROGECO** flares are characterized by ease of installation and operation; simple design and reliable equipment allow for low maintenance schedule and costs.

All flares can be equipped with biogas analysis instrumentation for typical application in biogas recovery units with cogenerating sets.



# BIOGAS PRE-TREATMENT

**PROGECO offers a wide range of products and solutions for biogas treatment before utilization:**

- **condensate knock-out units**
- **flame arrestors**
- **gravel filters**
- **ceramic filters**
- **graphite filters**
- **scrubbing units**
- **desulphurization units**
- **biogas dryers**
- **instrumentation for biogas analysis**
- **hot water / sludge heat exchangers**
- **siloxane removal equipment**





# PROGECO



Progeco is specialized in the design, manufacture, supply and installation of equipment and systems for biogas combustion and pre-treatment before utilization. The goal of the Company is to provide its Customers with the best technology available for the required tasks through the use of innovative and cost effective designs.

Biogas is a renewable source of natural gas generated from the anaerobic digestion of waste materials in municipal landfills, waste water treatment plants and anaerobic digesters processing agricultural and industrial organic wastes. The growing trend towards renewable energy has created strong demand for equipment for removal of contaminants from biogas before its utilization.

Progeco offers equipment and solutions suitable for almost any application where biogas produced by an anaerobic digestion process is available for production of electric and/or thermal energy.

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