

RES - Magnolia Magnolia, NC, USA

patruus 250 twinpack
Biogas

Fast Facts:

Location: Magnolia, NC, USA

Generating Capacity: 500 kW

Configuration: Container Module

Extras: Biogas Treatment System,

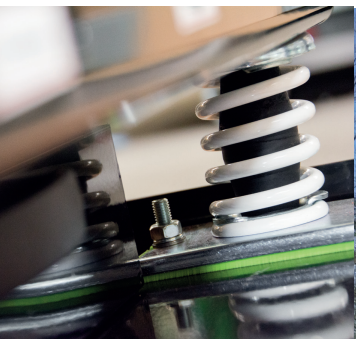


About the Site:

Supported by the North Carolina Division of Air Quality, RES – Revolution Energy Solutions LLC headquartered in Washington DC decided to install anaerobic digester and a CHP plant to convert pig manure into usable energy on a larger pig livestock farms in Magnolia County, NC.

Application

RES ordered 2G Energy Inc. to manufacture, supply, and to install a biogas CHP plant for their first project in Magnolia. The equipment is a 2G patruus Twin Pack with 2 x 250 kW/h fully integrated MAN biogas optimized engines producing a total of 500 kW/h or 4,150 MW p.a. Electrical Power and 626 kWh/th of Thermal Power. This fully containerized modular Twin Pack biogas CHP System is guaranteed less expensive than any traditional inside building installation. The system configuration also provides much more operational flexibility for the plant operator, and system efficiency can be managed much easier. Containerized CHP modules from 2G Energy Inc. provide many advantages. All heat exchanger and heat recovery systems are fully integrated. Heat circulation piping and distribution are an integral part of 2G®'s containerized solutions including insulated piping and pre-plumbing. The floor plan allows for easy access to all system components, comfortable movement, and efficient service & maintenance. 2G® modules are custom and purpose built. Standard connections and terminations are used throughout to minimize the installation and connection effort. All units are designed for extremely fast integration and very easy operation. 2G Energy Inc. also provided the complete gas treatment package, as well as utility grid interconnection switchgear.



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