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Energas Technologies (Pty) Ltd - Reg. No. 2001/013909/07

Company Overview

Energas' core focus is to supply engineered solutions and equipment to the oil and gas industry in sub-Saharan Africa.

Our products and services find application from the gas well, through the distribution and reticulation network up to the end user. We specialize in the design and supply of skid mounted pressure reduction, metering and heating skids for easy installation in remote areas.

We offer solutions to generate electric power from various gas sources. Alternative power generation and waste heat recovery has become a priority to the industry and we have many solutions to offer.

To the chemical & petrochemical industry we offer selection, sizing and supply of storage tank safety equipment.

Through our in-depth engineering experience and knowledge in the oil and gas industry we offer custom engineering support to clients who come to us with unique requests for which we need to find a solution.

Expertise

Engineering solutions

Turnkey projects

Product support & maintenance

Equipment suppliers

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we don't just offer equipment,
we offer solutions



Vision & Mission

Vision

To be the leading engineered solutions provider in the downstream oil & gas industry in Sub-Saharan Africa.

Mission

To exceed our clients' expectations through the supply of efficient and cost effective engineered solutions that are reliable, cost-saving, safe and environmentally friendly.

Services

- Detail Engineering, Design & Procurement
- Engineering, Procurement and Construction Management
- Turnkey Projects
- Product Support & Maintenance
- Quality Management
- Sizing & Selection of Equipment
- Training

With our ISO 9001 Quality Management System we ensure quality through each phase of the project to ensure punctual delivery and client satisfaction.



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Our services do not end with engineering. Energas offers commissioning, aftersales support, training and maintenance assistance

Pipelines & Metering Stations

Energas designs, builds and commissions pressure reduction and metering stations for the natural gas industry in sub-Saharan Africa. Our target is to meet our clients' performance requirements and exceed their expectations with cost effective solutions.

We provide gas conditioning stations to gas-fired power plants, large industrial customers and low pressure domestic reticulation networks. Skid mounted stations are the preferred solution for clients in remote areas to reduce installation time, risk and cost. The skids are designed, built and factory tested prior to delivery. We only select high-end equipment from reputable suppliers.

We provide project management, support and training services for the projects in which we participate.

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Gas stations must run safely and continuously, so we build quality and reliability into our stations through our in-depth experience

Tank Safety

Energas represents Protectoseal, an industry pioneer and leading manufacturer of products that conserve and control volatile emissions.

The safety equipment protects low pressure storage tanks, vessels, processes and ancillary equipment from fire and explosions.

Their integrated line of pressure and vacuum relief vents, flame arresters, nitrogen blanketing and related vapour control devices are most often used in liquid storage and processing applications for petrochemical industries.

Overview of industries served

- Chemical & petrochemical
- Refining
- Bulk storage
- Pharmaceutical
- Food & beverage
- Pulp & paper

Gas to Power

Engines

Energas is proud to offer modular gas to power solutions from the German manufacturer R Schmitt Enertec. Their ENERGIN® gas engines are specifically designed to run on gas to produce electric power, scalable in a range from 140 kW to 25 MW in multiple engine installations.

ENERGIN® CHP units are compact cogeneration plants with highly efficient heat recovery from jacket water and exhaust gas. The innovative design allows an easy and space-saving installation. These units generate hot water or steam from the waste heat. Hot water can be supplied to chillers to produce cold water for air-conditioning units.

The engines are specially developed and manufactured to run on either natural gas, biogas, woodgas, LPG or special gases.

Organic Rankine Cycle

Turboden is an Italian company and a global leader in the design, manufacture and service of Organic Rankine Cycle (ORC) turbo generators. The ORC unit harnesses heat to generate electric and thermal power from renewable sources, including biomass, solar, geothermal energy and waste heat from industrial processes, engines or gas turbines. These units range from 200 kW up to 15 MW per single unit.



ORC technology is similar to a traditional steam turbine, however, with an important difference. Instead of using water vapor, the ORC system vaporizes a high-molecular-mass organic fluid resulting in excellent electric performance. Key advantages are slower turbine rotation, lower pressure and no erosion of metallic parts and blades.

Gas Reticulation

Gas as an alternative energy source to electricity can be very attractive to home owners and industrial users. Dependent on the user's location and volume requirements, piped natural gas, compressed natural gas (CNG) or liquid petroleum gas (LPG) can be offered.

For piped natural gas we offer a turnkey solution from the high pressure distribution line, through the HPCMS (high pressure customer metering station), to the HDPE gas reticulation network up to the end user. Our scope includes:

- Engineering, design & construction management
- HPCMS
- HDPE reticulation network
- Domestic gas meter boxes
- Prepaid billing solutions
- Domestic gas heating solutions

With unreliable electricity supply and increasing tariffs, gas to power opportunities are becoming more attractive.

Advantages of gas:

- Guaranteed supply; unaffected by power cuts & load shedding
- Stable gas price
- High-end technology & comfort
- Availability of gas increases perceived value of properties
- Gas to power opportunities with gas engines
- More environmentally friendly than coal

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**Your single source for
engineering, design, construction
and management**

Domestic & Industrial Heating

Hot water and steam

Viessmann's extensive range of highly efficient oil & gas fired condensing boilers are available from 19 kW wall hung boilers for domestic use to steam boilers in excess of 30 t/h for industrial use.



Heat pumps

Viessmann offers a range of hot water heat pumps up to 2 MW and reversible air to water heat pumps for domestic hot water, heating & cooling applications.



Electric heaters

EXHEAT® is recognised as one of the world leaders in the design and manufacture of electric process heaters and associated thyristor control systems for both non-hazardous and hazardous area equipment. For both onshore and offshore applications, EXHEAT® has the knowledge and expertise to design and manufacture electric process heating equipment suitable for installation within the extreme environments commonly found in the oil, gas and petrochemical industries.



Thermal oil heating

HTT Energy specializes in the design and supply of thermal oil heating systems with heating temperatures up to 400°C. Thermal oil process heaters can be powered via LPG and natural gas burners or electricity.



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