



# POWER PLANT POWER FOR MINING GENSER ENERGY

OWNER

**Genser Energy**

LOCATION

**Tarkwa, Ghana**

PRODUCT

**PGM130 Powered by Titan™ 130**

CUSTOMER VALUE

**Reliability, Responsiveness, Cost Savings**

Genser Energy is an independent power producer headquartered in the USA with operations across West Africa. Genser's largest operation is located just outside the town of Tarkwa in the jungles of southern Ghana. The Tarkwa Plant is on the mining concession of the Gold Fields Limited Tarkwa gold mine in the West African jungle. In this region, the majority of power is provided from hydroelectric and thermal sources. However, the energy industry in Ghana is constantly evolving, including the type of power being produced and the method to produce it. Genser Energy's vision is to increase generation capacity in Ghana and West Africa by providing sustainable and cost-effective solutions to the gold mines as well as the people in the nearby villages.

## Solar® Turbines

*A Caterpillar Company*

## Power Plant - Power for Mining



### PLANT DATA

One PGM130, Three Mars® Gas Turbines

48 MWe of Power

Fueled by LPG

Provides Power to Grid



### OUR PRODUCTS & SERVICES

Gas Turbine Package and Auxiliary Supply

Gas Turbine Design

Installation and Commissioning

Preventive Maintenance Agreement

Genser previously purchased three Mars 100 generator sets in the secondary market. Pleased with the operation of the equipment, Genser decided to purchase an additional unit to provide the power required by the mine. However, upon searching the secondary market independently as well as

leveraging Solar's knowledge of available equipment, suitable equipment was simply not available without extensive modifications. As a result, Genser elected to purchase Solar's new PGM130 powered by the Titan 130 to add to their power plant. For more than three years, Genser has operated the three Mars 100s as well as the new PGM130 on vaporized propane. Genser delivers the fuel via truck daily from the Takoradi port, enabling the plant to operate around the clock. Genser also understands the needs of its customers and invested and built a natural gas pipeline to permanently secure the fuel supply and ensure their success.

The Tarkwa power plant currently produces 48 MWe of power. Genser Energy is currently in the process of upgrading the Tarkwa Plant from simple cycle to combined cycle with the addition of one PGM130 and a steam turbine to increase capacity to 91 MWe.

### RELIABILITY

### RESPONSIVENESS

### COST SAVINGS

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