

ENERGY

anytime...

Complete solutions for power generation



Owner:  Monte Rio Power Corporation, Ltd.
Contractor: Energy International Corp., HMV Engineers
Engines: 13 x Cat® 9CM43 manufactured in Rockstock, Germany
Location: Puerto Viejo, Azua, Dominican Republic
Application: Electric power plant to public utility.
Technical Data: Mechanical output @ Site: 8,100kW b @ 514rpm
Electrical Output @ Site: 7,806 @ 13.8 kV– 60 Hz
Steam production: 8 x 619 kW



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MonteRio

Fuel:

Heavy fuel oil, max. viscosity - 700 cst @ 50°C

Generator:

Thirteen (13) synchronous generators, output 9758 kVA, 13.8 kV, 514 rpm, 60 Hz, rated power factor 0.8.

Switchyard

138 kV double bus bar substation, 3 transformers 47/70 MVA ONAN/ONAF, 13.8/138 kV, 2 line bays, control and monitoring

Switchgear:

13.2 kV switchgear, MCC 480 V, control and monitoring system (SCADA)

Waste Heat Boilers:

8 exhaust gas boiler(s), 619 kW
Steam quantity: 950 kg/h
Steam data: 8 bar with 174.5 °C
Exhaust gas quantity: 59496 kg/h

Turnkey Responsibility:

Energy International subcontracted
Caterpillar International Power Systems.

Erection/Civil Works:

Energy International

Commenced Operations:

April 2002

Operation & Maintenance:

O&M including 138 kV substation
from July 2002 until July 2007.



Customer Benefits

New power source with high availability

Prior to the construction of the Monte Rio Power Plant, no reliable energy source was available in the Azua region. Now there is affordable and reliable energy for the entire community. The plant provides power to schools, 125,000 homes and businesses.

Environmentally safe source of power

The Cat® 9CM43 provides state of the art environmentally safe power production.