

ENERGY

anytime...

Complete solutions for power generation



Owner:

 Pujol - Marti Group

Contractor:

Energy International Corp.

Plant Configuration:

2 x Cat® 16CM32 engines manufactured in Kiel, Germany

Location:

Guapiles, Costa Rica

Application:

Power generation for inside-the-fence industrial requirements

Technical Data:

Mechanical Power Output= 2 x 7,680 kW ISO (14.8 MWe power plant)

Thermal Power Output: 2 x 500 kW as Thermal Oil



Guapiles

Fuel:

Heavy fuel oil - max. 700 cst @ 50C°

Electric Generator:

AvK 3 phase synchronous generators
2 x 9,000 kVA, 13.8 kV, 60 Hertz

Electrical Substation:

Air Insulated Type, 2 x 9,000 kVA, 13.8/34.5 kV,
ONAN Step up Transformers 34.5 kV medium
voltage switchgear with three feeders and one
main

Switchgear:

SEG 13.8 kV medium voltage, 480 V low voltage,
control and SCADA system

Waste Heat Recovery:

PWT thermal boilers, 2 x 500 kWth

Main Contractor:

Energy International

Engineering:

HMV Engineers

Erection/Civil Works:

Energy International

Commenced Operations:

September 10, 2004

Operation & Maintenance:

10 year O&M contract with Energy



Client Benefits

Increased power quality and reliability

With the help of Energy International, the Pujol-Martí Group purchased HFO generator sets to produce and control its own power supply permitting lower cost of power for this industrial group and no more losses of materials due to power failures.

Cost effective power

The new medium speed engines produce power at a lower price per kilowatt hour, allowing more cost effective production.

Selling extra capacity to the grid

The Pujol-Martí Group was able to negotiate a Power Purchase Agreement "PPA" for the sale of energy.