

ENERGY

anytime...

Complete solutions for power generation



Owner:

 Pujol - Marti Group

Contractor:

Energy International Corp.

Engines:

2 x Cat® 12CM32 engines manufactured in Kiel, Germany

Location:

Caldera, Costa Rica

Application:

Power generation for inside-the-fence industrial requirements.

Technical Data:

Mechanical power output: 2 x 5,760 kW (11.2 MWe power plant)

Thermal power output: 2 x 400 kW as thermal oil



Caldera

Fuel:
Heavy fuel oil - 700 cst @ 50C°

Generator:
3 phase synchronous generator
2 x 6,984 kVA, 13.8 kV, 60 Hertz

Substation:
Air Insulated Type, 2 x 7,000 kVA, 13.8/34.5 kV,
ONAN step up transformers 34.5 kV medium voltage
switchgear with two 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 400 kWh

Main Contractor:
Energy International

Engineering:
HMV Engineers

Civil Works and Erection:
Energy International

Commenced Operations:
September 8, 2004

Operation & Maintenance:
Energy International - 5 year full O&M contract



Customer Benefits

Increased power quality and reliability

With the help of Energy International, the Pujol-Marti 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-Marti Group was able to negotiate a Power Purchase Agreement "PPA" for the sale of energy.