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Complete solutions for power generation

Project Data Sheet - Calderas Power Plant

Owner:	Pujol - Marti Group
Contractor:	Energy International, Inc.
Engines:	2 x Caterpillar® 12CM32-C engines, manufactured in Kiel, Germnay
Location:	Caldera, Costa Rica
Application:	Power generation for inside-the-fence industrial requirements
Technical Data:	Mechanical Power Output = 2 x 5,760 kW (11.5 MW power plant) Thermal Power Output = 2 x 400 kW as Thermal Oil

Energy International, Inc. / HMV
1983 NW 88th Court, Suite 304, Miami, FL 33172 - USA Tel.: (305) 593-5085 Fax: (305) 715-7308
www.enint.com / www.h-mv.com

MSEPDS0009-9-04en

Main Fuel:	Heavy fuel oil, max. 700 cSt @ 50°C
Electrical Generator:	AvK 3 phase synchronous generators 2 x 6984 kVA/13.8 kV/60Hz
Electrical 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 kWth
Main Contractor:	Energy International, Inc.
Engineering:	HMV Engineers
Civil Works and Erection:	Energy International, Inc.
Commercial Operation Date:	September 8, 2004
Operation & Maintenance:	Energy International - 5 year full O&M Agreement

Customer Benefits:

Increased power quality and reliability
With the help of Energy International, the Pujol-Marti Group installed generator sets to produce and control its own power supply allowing lower cost of power for the group of industries and no more loses of equipment and materials due to power failures

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

Selling extra capacity back to the grid
The Pujol-Marti Group was able to sell its excess capacity back to the grid.

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