



# ENERGY

...anytime

**Complete solutions for power generation**



## Project Data Sheet - Guapiles Power Plant

Owner: Pujol - Marti Group  
Contractor: Energy International, Inc.

Plant Configuration: 2 x Caterpillar® 16CM32-C 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 (15.3 MW power plant)  
Thermal Power Output = 2 x 500 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

MSEPDS0010-9-04en



Main Fuel:	Heavy fuel oil, max. 700 cSt @ 50°C
Electrical Generator:	AvK 3 phase synchronous generators 2 x 9,000 kVA / 13.8 kV / 60 Hz
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, Inc.
Engineering:	HMV Engineers
Civil Works and Erection:	Energy International, Inc.
Commercial Operation Date:	September 10, 2004
Operation & Maintenance:	Energy International - 10 years full O&M agreement
Customer Benefits:	<p>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</p> <p>Cost effective power The new medium speed engines produce power at a lower price per kilowatt hour, allowing more cost effective energy production.</p> <p>Selling extra capacity back to the grid The Pujol-Marti Group was able to sell its excess capacity back to the grid.</p>