

# ENERGY

## anytime...

**Complete solutions for power generation**



**Owner:**  
**Contractor:**  
**Engines:**  
**Location:**  
**Application:**  
**Technical Data:**



Grenlec Queen's Power Plant  
Energy International Corp., HVM Engineers  
Cat® 16CM32C manufactured in Kiel, Germany  
Georgetown, Grenada  
Power plant to public utility.  
Electrical output: 1 x 7,450 kW

Energy International offers integrated energy solutions with the highest quality engineering, procurement, project management and construction services in the industry. We partner with HVM Engineers to provide state-of-the-art engineering.





Grenlec

**Cat® CM Engines:**

Phase II: 1 X Cat® 16CM32 16 cylinder in "Vee" arrangement 4 stroke engine rated at 7,450 kW output @ 750 rpm

**Fuel:**

Light Fuel Oil (Diesel)

**Generator:**

3 phase synchronous generator  
9,310 kVA, 3.3 kV, 50 Hertz

**Switchgear:**

High voltage 11kV, medium voltage 3.3 V, low voltage 415 V, control and monitoring system (SCADA)

**Turnkey Responsibility:**

Cat®, HMM Engineers

**Erection/Civil Works:**

HMM Engineers, Energy International

**Commenced Operations:**

Phase II 7.4 MW August 2003



## Client Benefits

### More efficient power generation

By replacing their old high speed generator sets with highly efficient medium speed engines, Grenlec was able to produce power more reliably and efficiently.

### Cost effective power

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