

# ENERGY

## anytime...

**Complete solutions for power generation**



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



Staatsolie Power Company Suriname

Energy International Corp.

2 x Cat® 16CM32C manufactured in Kiel, Germany

Paramaribo, Suriname

Cogeneration power plant for petroleum refinery and for the sale of energy.

Mechanical output: 2 x 7,680 kW

Gross steam output: 2 x 1,820 kg/h @ 13.2 bar superheated steam

Energy International offers integrated energy solutions with the highest quality engineering, procurement, project management and construction services in the industry.



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Staatsolie

**Fuel:**

Heavy fuel oil - 700 cst @ 50C°

**Generator:**

3 phase synchronous generator  
2 x 9,081 kVA, 12.3 kV, 60 Hertz

**Substation:**

Gas Insulated Substation (GIS) 12.3/33kV,  
Step-up transformer 30 MVA and 9 bays

**Distribution & Control:**

12.3kV Switchgear 460V MCC and LV  
Switchgear. Control and supervision  
system (SCADA)

**Turnkey Responsibility:**

Energy International

**Commenced Operations:**

April 1, 2006

**Operation & Maintenance:**

Energy International- 1 year O&M  
contract followed by a Technical  
Services Agreement



## Customer Benefits

**Increased power quality and reliability**

With the help of Energy International, Staatsolie purchased HFO generator sets to produce electrical energy for their refinery and replace old steam boilers that used expensive diesel #2.

**Cost effective power**

Use of cogeneration technology permits more efficient energy production, enabling Staatsolie to produce energy in a more cost effective way.

**Staatsolie has become an Independent Power Producer (IPP)**

Suriname has more demand for electric energy than the installed capacity can produce. So Staatsolie is selling their excess electric power to the national grid. The new cogeneration plant produces energy at a cost efficiency which allows Staatsolie to supplement the national demand for electricity at a reasonable price, thus converting Staatsolie into an IPP.

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