

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.

Mechanical output: 2 x 7,450 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.



Cat and Caterpillar are registered trademarks of Caterpillar Inc.



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 burning HFO generator sets to produce electric 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 Staatsolie is also now an IPP.