

Extending The Life Cycle Of An Existing Energy Solution By Replacing KG2 Gas Turbines With OP16 Gas Turbines

Oil & Gas

At A Glance

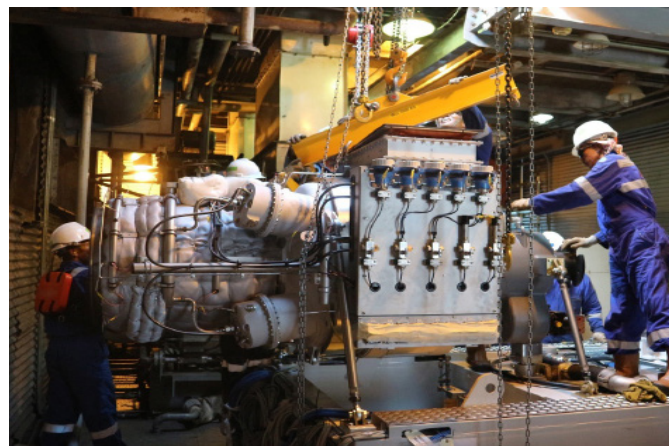
Application:
Offshore Oil, Gas Production

Output:
Electricity: 7.2 MWe

Benefits:
7% Improvement On Energy Efficiency
2.49 Million USD Saved Per Year
30 - 40% Reduction of Emissions



SUCCESS STORY



Installation:
4 X OP16-3A
2017

Location:
Indonesia

Customer:
Pertamina

The Challenge

Pertamina is an Indonesian state-owned oil and natural gas corporation based in Jakarta. To assist with on board power generation, they had existing KG2 gas turbines installed. However, after some time Pertamina found that this equipment no longer met the demands of their business. They required improved reliability with quick access to field service support to assist with downtime and maintenance of their equipment.

Pertamina wanted to find an alternative to their existing KG2 gas turbines that provided improved power output along with higher efficiency. To ensure the install and commissioning phase would not be too long, disruptive or costly, Pertamina needed to find equipment that could use the existing footprint of a KG2 gas turbine.

The Solution

OPRA Turbines supplied 4 X OP16-3A gas turbine generator sets for Pertamina's onboard power generation, each supplying 1.8 MW. The gas turbines run on natural gas as a primary fuel and diesel as a back up. The existing KG2 plinth/footprint and some existing KG2 utilities, for example the air intake exhaust, were re-used. This facilitated a quicker and cost effective installation.

The Results

By choosing to install OP16 gas turbines in place of existing KG2 gas turbines, Pertamina were able to increase power output by more than 50% using the same footprint. OPRA's global customer service support network providing 24/7 response and utilizing a remote equipment health monitoring system to enable predictive maintenance ensured higher uptime for Pertamina's equipment.

2.49
Million

USD Saved
Per Year

50%

More Power From
Same Footprint

30-40%

Reduction
of Emissions

Get in Touch With Us

OPRA Turbines, Haaksbergerstraat 71,
7554 PA HENGELLO, THE NETHERLANDS

+31 (0)74 245 2121
opraturbines.com
sales@opra.nl



Driving The World's Energy Transition