Continuous Offshore Operation On Associated Gases

Oil & Gas

SUCCESS STORY

At A Glance

Installation:
3 X OP16-3A

Location: Aracaju, Sergipe, Brazil

Output:
Electricity: 5.5Mwe
Generator Rating: 690V, 60Hz

Customer: Sevan Marine ASA, Piranema Oil Field

The Challenge

The Sevan Voyageur is a FPSO with a capacity of 300.000 barrels and an oil processing capacity of 30.000 barrels per day.
The vessel required a power source which can run on both associated gas and diesel as back-up to meet the base load requirement and to minimize the emissions related to power generation.
As with any offshore installation, the solution also needs to be compact, lightweight and with limited maintenance requirement to minimize the burden on the operation team onboard.

The Solution

OPRA supplied three Offshore gensets powered by OP16-3A gas turbines in dual fuel configuration. The installation provides 5.55MWe of power.

The OPRA dual fuel system can automatically switch from associated gases to diesel without impact on operation and is able to handle any mix of each fuel. The OP16 is unique in its ability to run on two fuels simultaneously, prioritizing the associated gas and using diesel to supplement when the availability and LHV of the gas fluctuates.

By choosing OPRA and the OP16 gensets, Sevan Marine installed a reliable and low maintenance solution to ensure continuous power, with emissions of the installation reduced by 40%.

The Results

The Sevan Voyageur has been in continuous operation in the Piranema field for 15 years.

The successful operation of the three units onboard proves again the reliability of the OP16 and the performance of OPRA as a partner for its customer during the lifecycle of the turbines.

The FPSO has now been redeployed in the North Sea.

40%
Reduction Of Emissions

15 years
Of Successful And Continuous Operation

20′
Footprint For 1.8MWe

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