



Continuous Offshore Operation On Associated Gases

Oil & Gas

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 Piranema is a Seven Marine design 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

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

The OPRA OP16 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 OPRA 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 Destinus Energy 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 Piranema has been in continuous operation in the oil field for 15 years.

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

40%

Reduction Of Emissions

15 years

Of Successful And Continuous Operation

20'

Footprint For 1.8MWe

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