

# Dual Fuel Solution: Running on Both Diesel and Associated Gases

Oil & Gas

## At A Glance

Application:  
Oil & Gas, FPSO

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

Benefits:  
24 hrs, 7 days Operating Hours  
30 - 40% Reduction of Emmissions



SUCCESS STORY



Installation:  
3 X OP16-3A  
2007

Location:  
Aracaju, Sergipe, Brazil

Customer:  
Sevan Marine ASA, Piranema Oil Field

## The Challenge

The FPSO Sevan Marine is moored in 1000m of water, where it operates under lease to Brazilian national oil company Petrobras S.A.

With an oil storage capacity of 300,000 barrels and an oil processing capacity of 30,000 barrels per day, the FPSO also has a processing plant for hydrocarbons installed on the deck, and depending on the characteristics of the field the processing plant has different modules for processing oil, gas and water.

The vessel required a power source which can run on both diesel and associated gas to meet with their base load requirement. Due to the limited space available, the solution also needs to be compact and light weight.

## The Results

By installing three OP16-3A dual fuel gas turbine generator sets, Sevan Marine were successfully able to reduce their carbon emission significantly by 30 - 40%. This robust, reliable and innovative solution ensures Sevan Marine can have a reliable source of power available 24 hours a day, 7 days a week.

## The Solution

OPRA Turbines supplied three of the OP16-3A dual fuel all-radial gas turbine generator sets for Sevan Marine, each rated at 1.85 MW. In total, OPRA Turbines deliver up to 5.55 MW of electrical power under ISO ratings, with specially requested generator to produce 690 volt at 60 Hz for powering all of the FPSO's operating, utility, living and emergency needs.

30-40%

Reduction  
of Emissions

690V  
60Hz

Generator  
Rating

24 hrs  
7 days

Average Daily  
Operating Hours



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Get in Touch With Us

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

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