

Johan Castberg oil field: SGT-750 gas turbines minimize weight and footprint on FPSOs



Single-digit NOx emissions



Picture: Lars Morken © Equinor

PROJECT TYPE

Floating production, storage and offloading (FPSO)



Gas turbine



High efficiency



Partnership



CO2 savings



Oil and Gas



Customer Challenge/Driver

Equinor, like many entities in the oil and gas industry, continually searches for solutions that will facilitate optimal production while **minimizing** environmental impacts. Navigating the demands of the **Johan Castberg** oil field in the Barents Sea, Statoil required robust, **efficient**, and environmentally conscious equipment to manage the **floating production, storage and offloading (FPSO)** vessel.



Portfolio Elements/Scope

- 41-MW **SGT-750** gas turbine-driven compression train for Equinor's FPSO
- Waste heat recovery unit to harness turbine exhaust heat for ice-prevention measures



Customer Benefit

- SGT-750 gas turbine and DATUM compressors have long maintenance intervals, drastically increasing production uptime, leading to higher profitability
- Turbine is capable of driving the DATUM compressors directly due to the absence of a speed-increasing gearbox, thereby enhancing overall system efficiency
- High efficiency of the turbine and compressor contributes to significant reductions in total CO2 emissions

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