

Wärtsilä Power solution for normally unattended installations



As cost pressures in offshore operations continue to increase, there is growing demand for power solutions that do not require regular inspections and maintenance. The Wärtsilä Power solution for normally unattended installations is a cost-effective, safe and reliable power-generation concept that is suitable for a wide variety of normally unattended installations (NUIs).

TECHNICAL CONCEPT

The basic configuration is designed to be able to operate for up to six months without the need for scheduled maintenance. All maintenance activities for the Wärtsilä Power solution for normally unattended installations can be performed efficiently using “walk to work” support vessels, eliminating the need for permanent operational and maintenance crew on site.

The solution can be extended to include the maintenance of power management, automation and auxiliary equipment. It is a holistic power solution that can be tailored according to the requirements of each individual installation.

KEY BENEFITS

- Lower OPEX due to reduced need for operational personnel on board
- Increased efficiency, reduced emissions and improved fuel flexibility with dual-fuel engines
- Improved reliability and safety through the use of condition monitoring and analysis
- Lower LTIFs (Lost Time Incident Frequency) due to fewer man hours on site





SCOPE OF SUPPLY

Power generation – Efficient Wärtsilä 34 DF (Dual Fuel) engines, generators and auxiliary systems installed in engine room and designed for unmanned operation.

Connectivity – Ensured data collection via cyber-secured data transfer utilising a Wärtsilä Data Collection Unit. Operational data measured by meters and sensors installed on site.

Remote tuning – Secured remote access via a service PC installed on site to diagnose the operating condition and determine required actions. A nominated Wärtsilä expert in the Expertise Centre analyses, trends and tunes engine performance.

Predictive maintenance – Planned and scheduled maintenance based on the collected data and remote equipment condition analysis. Maintenance at optimised interval performed by Wärtsilä field service crew.

The Wärtsilä Power solution for normally unattended installations is a holistic lifecycle solution that is supplied together with a power system (engines and related equipment) for new offshore assets.



WHY CHOOSE WÄRTSILÄ?

Wärtsilä has extensive experience of supplying power solutions for oil and gas offshore installations, as well as with remotely operated power generation installations. Our robust and well-proven dual-fuel engines, utilising digital enablers and condition monitoring, ensure high reliability. These tools are further supported by risk-based inspection techniques and a global service network.

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