

Engineered for a  
**Reliable**  
future

Reliability  
Easy maintenance  
Proven track record

MITSUBISHI

# Containerized Generator Solutions



Reference projects

— Dogger Bank Wind Farm

— Hornsea Wind Farm



# OUR SOLUTION



**1. Project Development**  
Custom-Build for Your Needs



**3. Commissioning**  
Seamless Integration



**2. Project Execution**  
End-to-End Project Support



**4. Aftermarket Support**  
24/7 Support, Global Reach

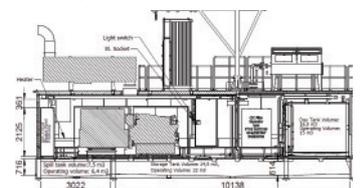
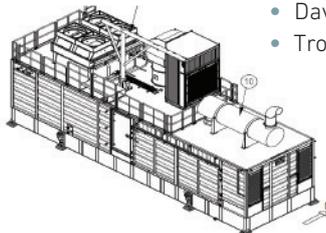
**Mitsubishi provides comprehensive containerized generator solutions specifically designed for offshore substations, managing every phase of the project from start to finish.**

- 1. Project Development:** We provide customized generator set solutions tailored to meet client specifications.
- 2. Project Execution:** Our services cover the entire process, from the initial concept to the final commissioning.
- 3. Commissioning:** We ensure smooth implementation with minimal downtime.
- 4. Aftermarket Support:** We are committed to long-term sustainability, aligning with green energy initiatives. We offer 24/7 support and have a global reach, emphasizing excellent customer service and accessibility.

## Completely customized containerized generator solutions

We offer completely customized containerized generator solutions that are self-contained and cover the complete functionality of an emergency generator system. Below is an example of a system we can deliver

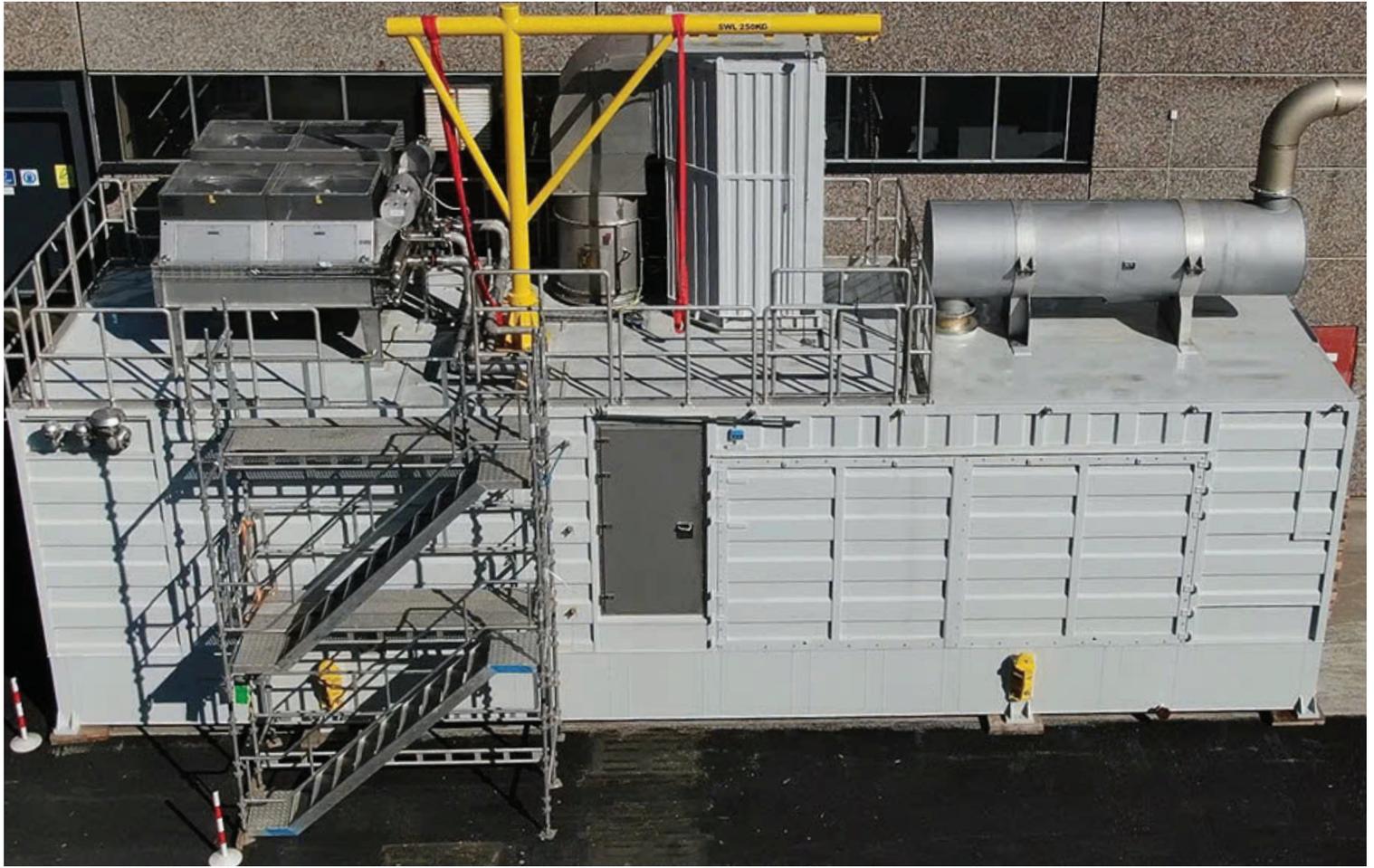
- Container with diesel storage tank and spill tank in the bottom of the container.
- Day tank and diesel purifier system in a separate room inside the container.
- Generator set (Mitsubishi engine with alternator on base frame)
- Generator set circuit breaker panel
- Generator set auxiliary power panel
- EGCP (Essential Generator Control Panel)
- Battery breaker panel
- Interface panel
- Firefighting system, in a separate room inside the container (argonite)
- Radiator/cooler unit on the roof of the container
- Silencer on the roof of the container
- Fire damper air outlet
- Air filter, air supply fan on the roof of the container
- Davit on container roof for maintenance lifting
- Trolley beams inside for maintenance usage



## Mitsubishi Turbocharger & Engine Europe B.V.

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**Diesel system:** The diesel system has a capacity of 37 m<sup>3</sup> diesel in the diesel tanks that ensures many hours of running unmanned. It has a storage tank and day tank that automatically transfer the diesel via purifier system in addition to primary and secondary filter systems that secure clean diesel provided to the engine. The fuel purifier system runs continuously to always supply clean particle free fuel with real-time readings on fuel quality.

**Air, exhaust system:** The container has a heating and HVAC system, frequency-controlled to keep the operational conditions. It is also installed with fire dampers that will close in case of fire, following argonite release. The exhaust system has a 45dbA silencer that fulfils the noise requirements.

**Lube oil system:** The lube oil system is a closed circuit within the Mitsubishi engine. Lube oil will pass through the engine and the engines breather system is re-entered into the turbocharger via an oil mist separator.

**Cooling water system:** The radiator cooling battery is placed on the roof of the container. This includes four fans that are controlled from the 400 VAC distribution cabinet in the container. The fans will start automatically when the engine starts.

**Start system:** The battery system for starting is self-contained with dual battery banks and chargers.

**Control system:** The engine and the generator are also equipped with all necessary instrumentation to monitor the unmanned operation. This diesel generator set is controlled by seven genset controllers. It controls alarm and safety functions, start/stop and breaker control according to the power management operating philosophy.



**Want to know more about the Offshore Windmarket?**  
Get in touch with our expert to discuss reliable and sustainable power solutions.



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