

Référence pilote générateur de port en conteneur gaz GNL

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Gas generator set provides electricity



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NAVEXPO
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Port LORIENT
La Base FRANCE

The aim of the project is to develop a safe and efficient, integrated logistics and supply chain for LNG in the transport industry (small scale and bunkering), particularly for maritime transport the Iberian Mainland



Liquefied natural gas (LNG) tanks and gasification unit

A 40-foot container houses two LNG 5 m3 tanks and the gasification unit.

The LNG is gasified and distributed to the gas engine through a hose (not SEB scope of supply).



Siemens gas engine and alternator

Another 40 feet (or 40") container contains the gas engine with an output of 850 kWb (or 808 KWe) and the alternator, which generates three-phase electricity and 400V.

The engine is adapted for marine applications/purposes, since it meets all the requirements to operate on board a ship. Its cooling is done with seawater.



Medium voltage transformer station

To reduce the diameter and weight of the electric cables that connect to the ship, the voltage of 400V generated is transformed to medium voltage (15,000V) by a transformer station located in the proximity of the generator set container.



Adaptation of the electrical panel of the ship to receive the electrical energy from the dock

The vessel has incorporated another on-board transformer station to reduce the voltage again down to 400V and a new control panel was installed to manage this electrical connection, which is added to the existing panels that control the two auxiliary diesel engines.



The electric generation from the gas engine implies:

- Reduction of the emission of the nitrogen oxides levels by about 85% (from 6.65 kg/h to 1.19 kg/h).
- Completely elimination of suspended particles and sulfur oxides.

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Dépôt cryogénique de GNL

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SGE-56 SL marine gas engine.



Containerized 56SL genset for harbour use.

- Working speeds: 1,500 & 1.800 rpm
- Emissions compliant IMO/ 500 mg/NOx