



OSLO - NORWAY



THE CASE

The Tide fleet has been designed according to a specific ecology contract with the city of Oslo, the power system on board is equipped with a specific double drive electrical propulsion fed by 2 gas and 2 diesel generators running on parallel.

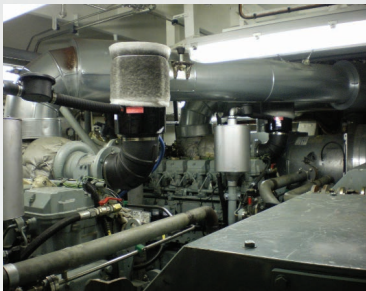
The fleet is made to run exclusively on the gas engine with diesel on back up for a low CO² emission.

The ship includes a 2 split bus tie breaker with paralleling operation made by the 4 GENSYS mounted on board and additional synch check relays.



PRODUITS INSTALLED

- 2 GENSYS marine for 2 400kVA Mitsubishi gaz engines controlled by Woodward 733 system.
- 2 GENSYS marine for 2 400KVA Scania diesel engines controlled by ECU.
- 2 sync check relays to complete the GENSYS split bus tie breakers synchronization.



OUR SOLUTION

The 4 GENSYS installed allow the synchronization and load management of each generator but also the propulsion limitation, and the 2 tie breakers synchronization done through the integrated GENSYS PLC.

To prevent any fuel feeding trouble or engine instability and to keep the optimal power available on board, CRE has developed an uneven speed control detection alarm, which can detect a generator failure before a load dropping or frequency dropping, this technology can detect if an engine is giving an abnormal speed control to keep itself on load sharing made with the others.

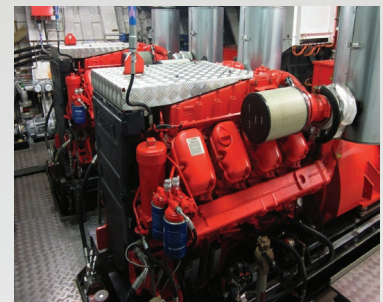
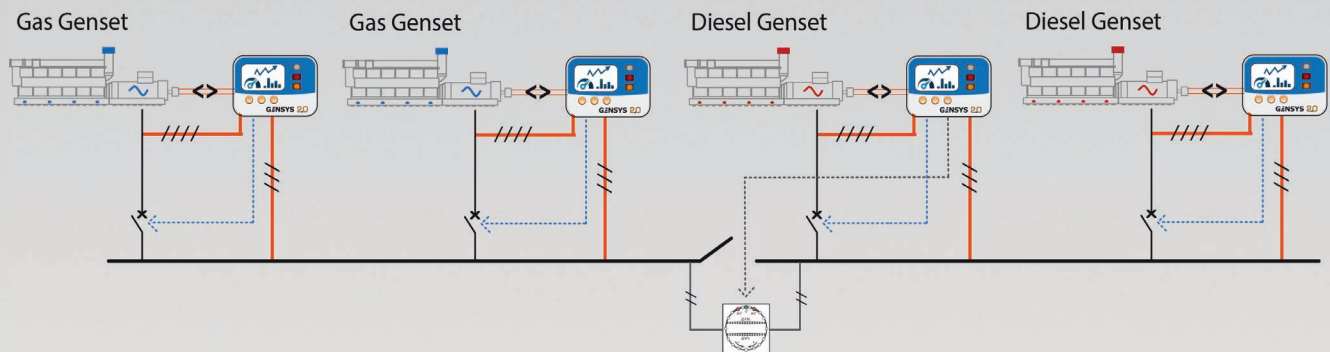
The commissioning of this system was based on crash stop test at full speed and fuel cut simulations, the system was suppose to keep power on board in the worst possible emergency case and that was what CRE technology did with the GENSYS system.





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DETAILS OF APPLICATION



CRE TECHNOLOGY has provided the engine and genset industry for over 25 years with standard products and dedicated solutions for engine control, genset protection and paralleling.

All application fields where power is the core resource of performance are covered by **CRE TECHNOLOGY**. The company is a reference in the industrial, marine and defence businesses.

Our very strong situation allows us to invest, feeding our ambition to be always more advanced, always closer to you. The coming years will see the broadening of our distribution network and of our innovative products portfolio.

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