TIDE FERRIES
with GENSYS MARINE

NORWAY - OSLO

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 CO^2 emission.The ship includes a 2 split bus tie breaker with paralleling operation made by the 4 **GENSYS MARINE** mounted on board and additional synck 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.

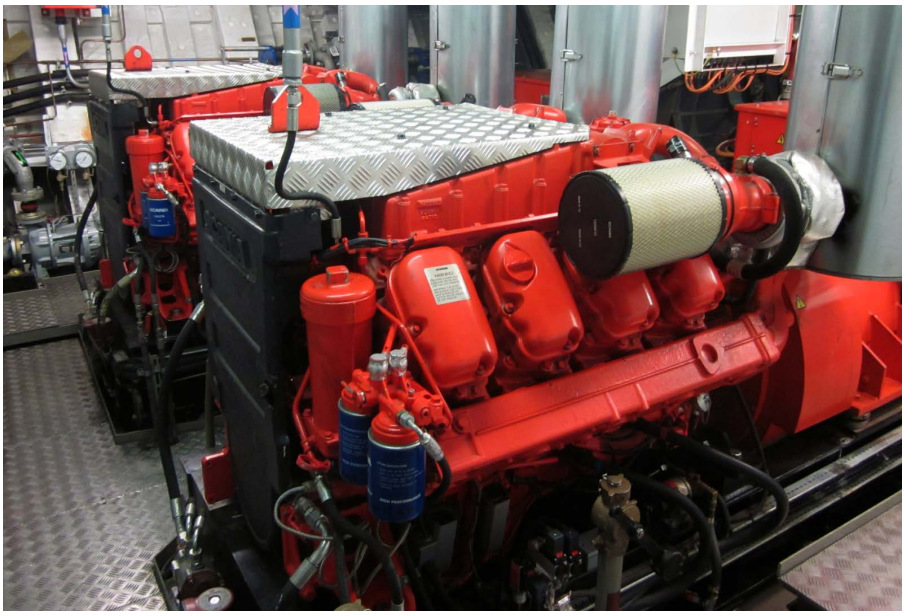
Our solution

The 4 **GENSYS MARINE** 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**.

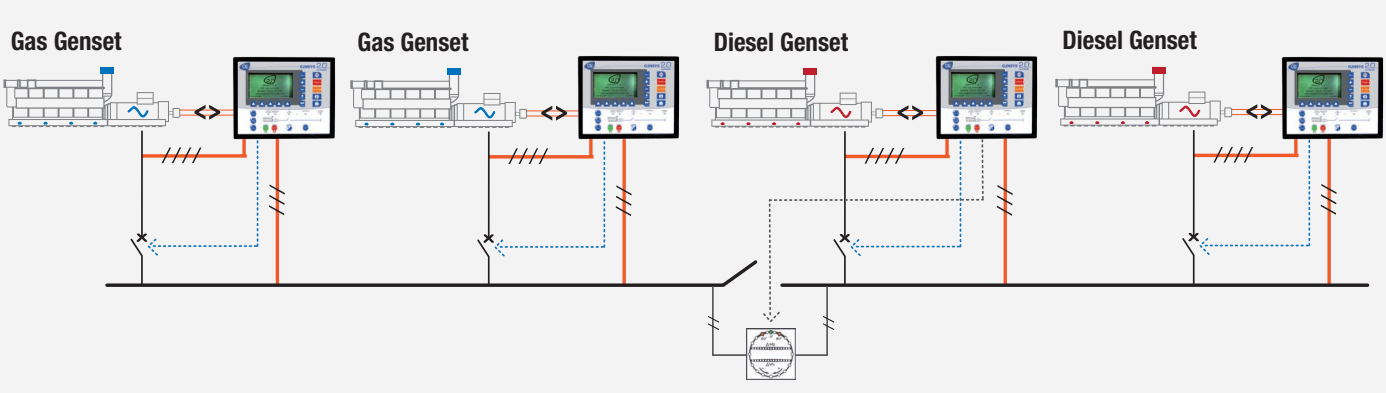
To prevent any fuel feeding trouble or engine instability and to keep the optimal power available on board, CRE TECHNOLOGY has developed an uneven speed control detection alarm, which can detect a generator failure before a load dropping or frequency dropping, this technology can detect if an engine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

APPLICATION



DETAILS APPLICATION



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EXPERT IN GENERATOR SOLUTION

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