

5 New *Environmental Ferries*

with innovative **green** gas-electric propulsion

Electric Propulsion



- Built by Aker Yards, Aker Brattvaag
- Owned by Fjord1, Norway
- Equipped with ABB Electric Power Generation and Electric Propulsion Systems

ABB

Clean Fuel Ferries for Fjord1

The Norwegian transport group Fjord1 has contracted Aker Yards to build five new environmental ferries to service Norway's west coast starting in 2007. Designed in Norway by LMG Marin, these innovative ferries will be powered by LNG. A gas-electric power & propulsion solution greatly reduces CO2 and NOX emissions and provides a high level of vessel performance.

With capacity for 198 cars and 530 passengers, the 129.5 meter vessels will be the largest ferries in Norway. Two of the ferries will have a service speed of 17 knots, while three of them will feature a service speed of 21 knots - distinguishing them as the world's fastest double-ended ferries.

ABB Scope of Supply:

- 16 x Generators
- 20 x Propulsion Transformers
- 20 x Propulsion Frequency Converters
- 8 x Propulsion Motors

3 ferries will have 4 x 2.75 MW propulsion power and 2 ferries will have 4 x 1.6 MW propulsion power

A Global Technology Partner to the Marine Industry

ABB Marine is the leading supplier of electric power and propulsion systems. We are a highly competent maritime organization with over half a century of experience. Through our global presence, we provide reliable, safe and environmentally-friendly solutions and qualified services to ship owners, operators and yards - reducing operational costs and ensuring optimum vessel lifecycle.



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**Center of Excellence
Cruise & Ferry Vessels:**

ABB Oy
Marine
P.O. Box 185
FIN-00381 Helsinki
Finland
Phone: +358 10 2211
Fax: +358 10 222 2350

**Center of Excellence
Oil & Gas Related Vessels:**

ABB AS
Marine and Turbocharging
P.O. Box 6540 Rodeløkka
N-0501 Oslo
Norway
Phone: +47 22 87 20 00
Fax: +47 22 35 36 80