



- 75 employees
- Furthermore, plus 350-425 personnel from sub-contractors.
- Located at Omastrand, in Hardanger Fjord, Norway

Product range:

- Offshore Vessels
- Trimaran offshore / Wind crew vessels
- Battery ferry
- Offshore constructiosn in aluminium and steel













Transportation development





Anyone driving this one from 1970 ?



The best selling car in Norway today is fully electric

Would people accept this tour bus today?





Norwegian ferry in daily operation this one built 1972....average age of ferries in Norway, approx 24 years



Sognefjorden served by battery ferry from 2015

Norwegian road authorites launced in 2011 a tender for an environmental friendly ferry for the crossing of the Sognefjord -as one of 3 ferries

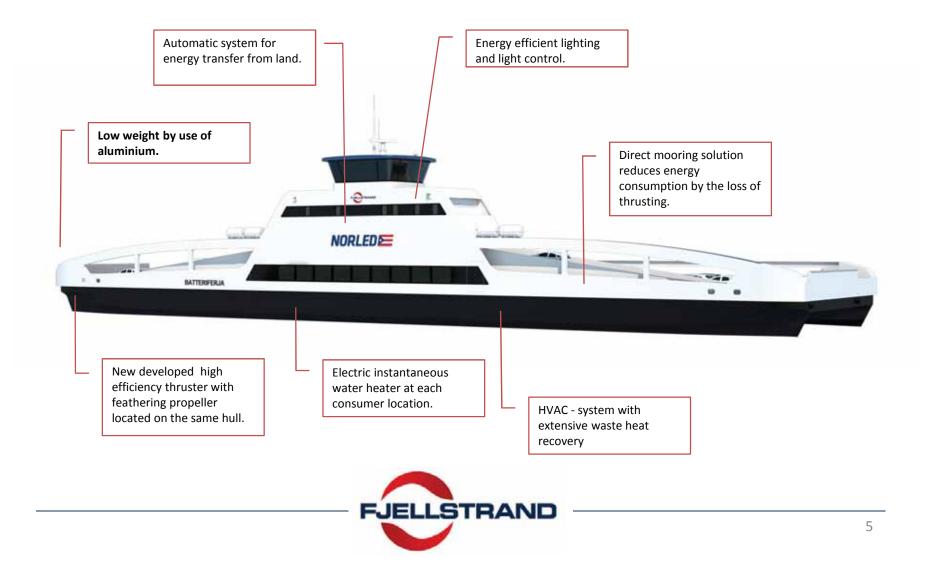


However the two other vessels are conventional diesel driven ferries



Sailing distance 5,7 km

Fjellstrand solution - innovative factors



Project 1696 – ZeroCatTM , NORLED

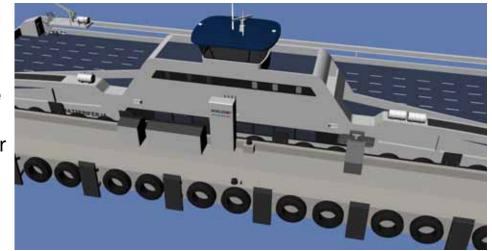
- 80m long , 21 m wide
- 120 cars
- 360 passengers
- 140 chairs
- 7 crew cabins
- 2 x Rolls-Royce Azimuth thrusters with full feathering CPP
- 2 x 450 kW electric motors
- 1MWh batteries in Siemens total delivery (10 tons, 10 m³)

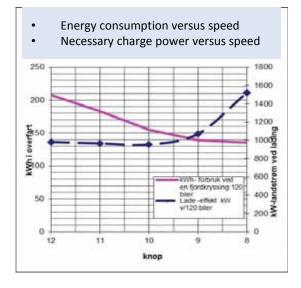




Prosjekt 1696 – ZeroCat[™] battery package

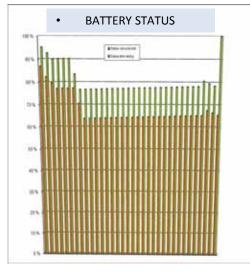
- 30 minutes between each departure
- 20 min crossing,
- 10 min load/unload/charge
- Power when crossing 450 kW average
- Consumption 150 kWh per crossing
- Charging 9 minutes, at 1000 kW power





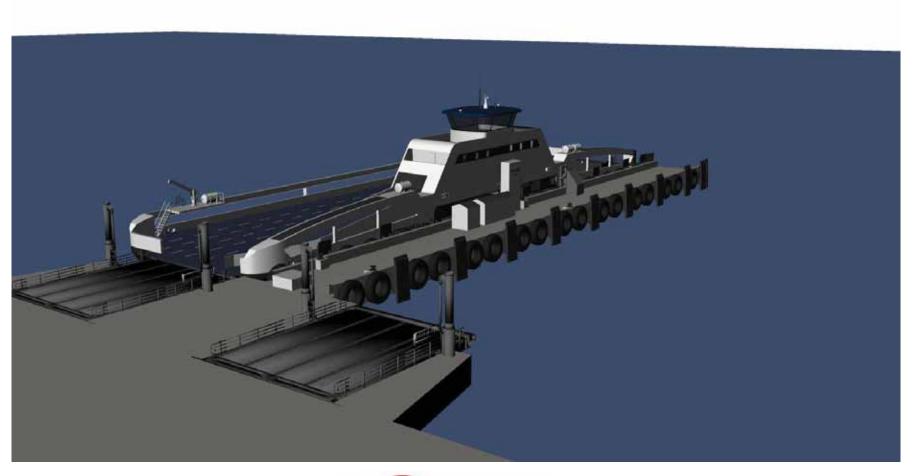
Quay side batteries:

Charged 50 min at 180 kW giving the 150 kWh



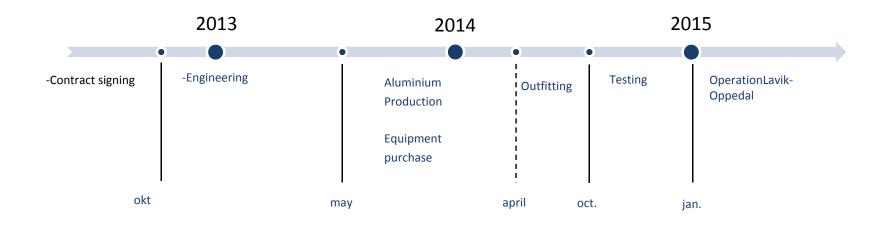


Prosjekt 1696 – ZeroCat[™], NORLED





Production plan FC-120, Fjellstrand-Norled





1696 , ZeroCat TM , NORLED



