

Havneutvikling og kysttruteutvikling



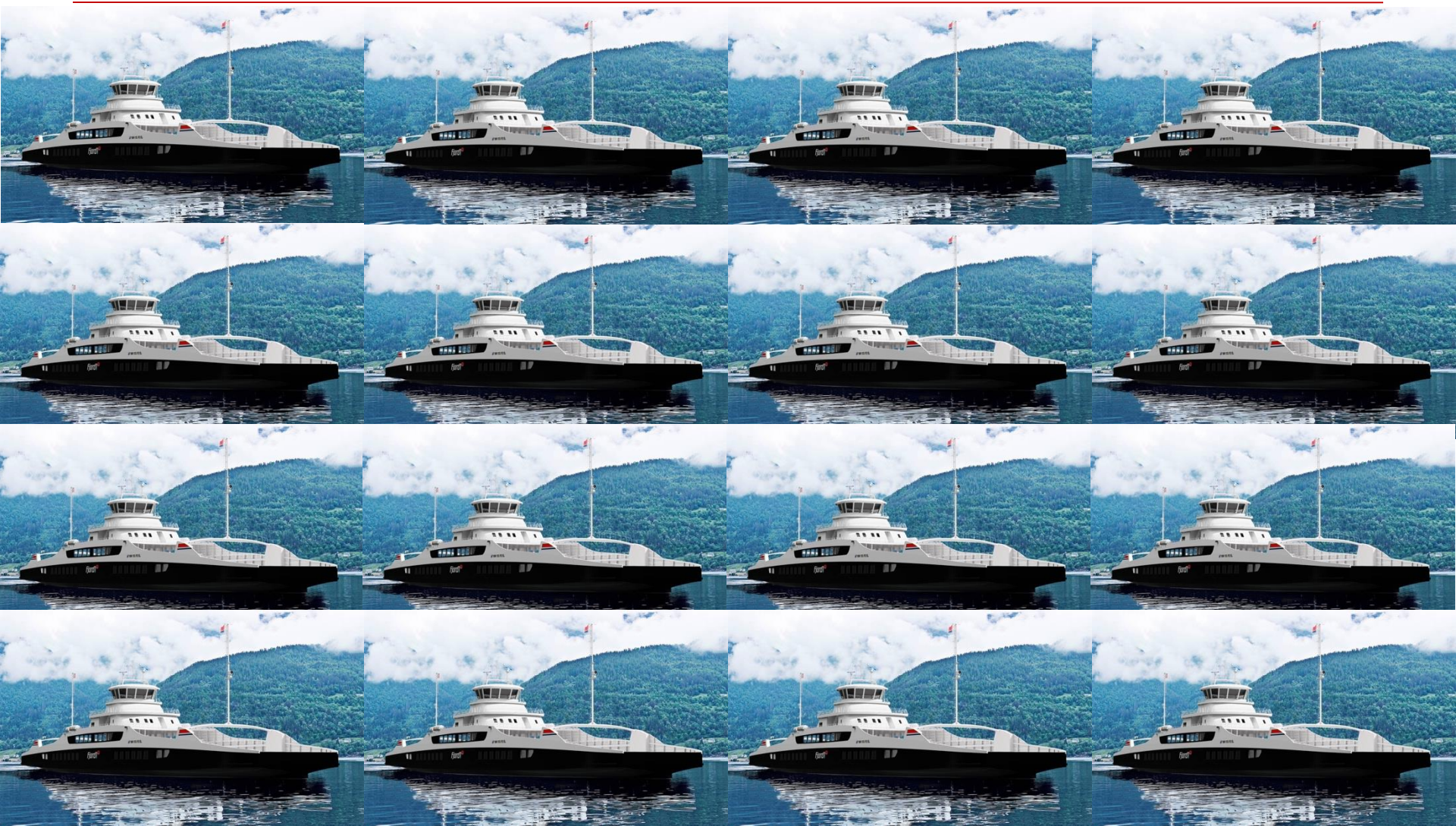
Erik Ianssen, Selfa Arctic AS

01/12-2017

Fergesektoren – 2 % av Norges petroleumsforbruk borte om 15 år



53 ferger skal nå bygges



Fiskefartøy – 3-5 % av Norges petroleumsforbruk



Hurtigbåter – 1 % av Norges forbruk av petroleum



Dieselforbruk – Norge

✓ Total 2015	8,7 milliarder liter
✓ Total 2016	8,7 milliarder liter
✓ Maritim sektor	2 milliarder liter
✓ Fiskefartøy	3-400 millioner liter
✓ Fiskeoppdrett	2-400 millioner liter
✓ Ferger	170 millioner liter
✓ Hurtigbåter	86 million liter
✓ Hurtigrute	78 millioner liter

Elektrisk Kystrute Bergen - Kirkenes

Totalt forbruk : 366 Mwh

Lading per ladestasjon : 10 Mw

Ladestasjoner : 36



Landstrøm

36 ladestasjoner



Hydrogenfylling

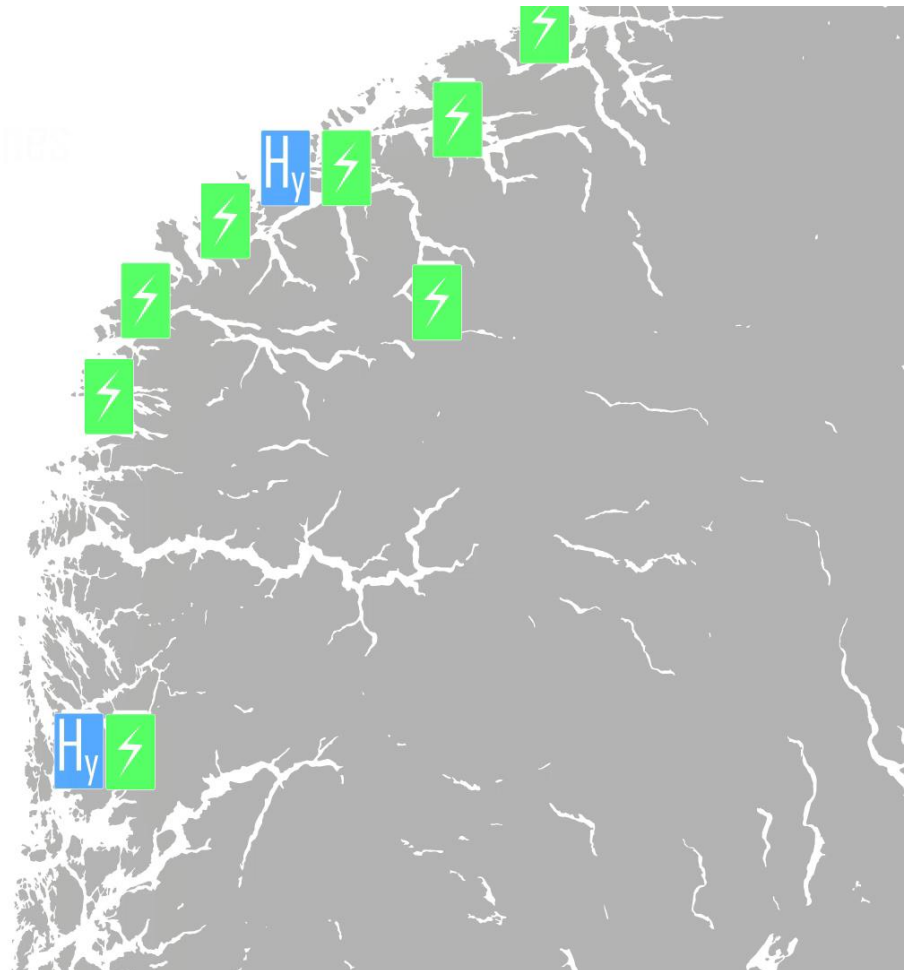
8 ladestasjoner



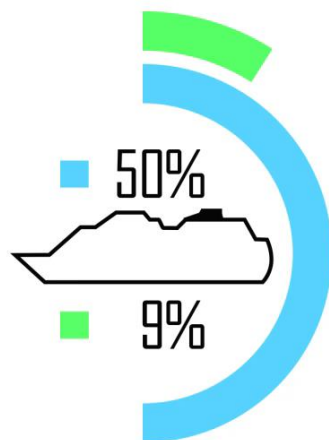
Bergen



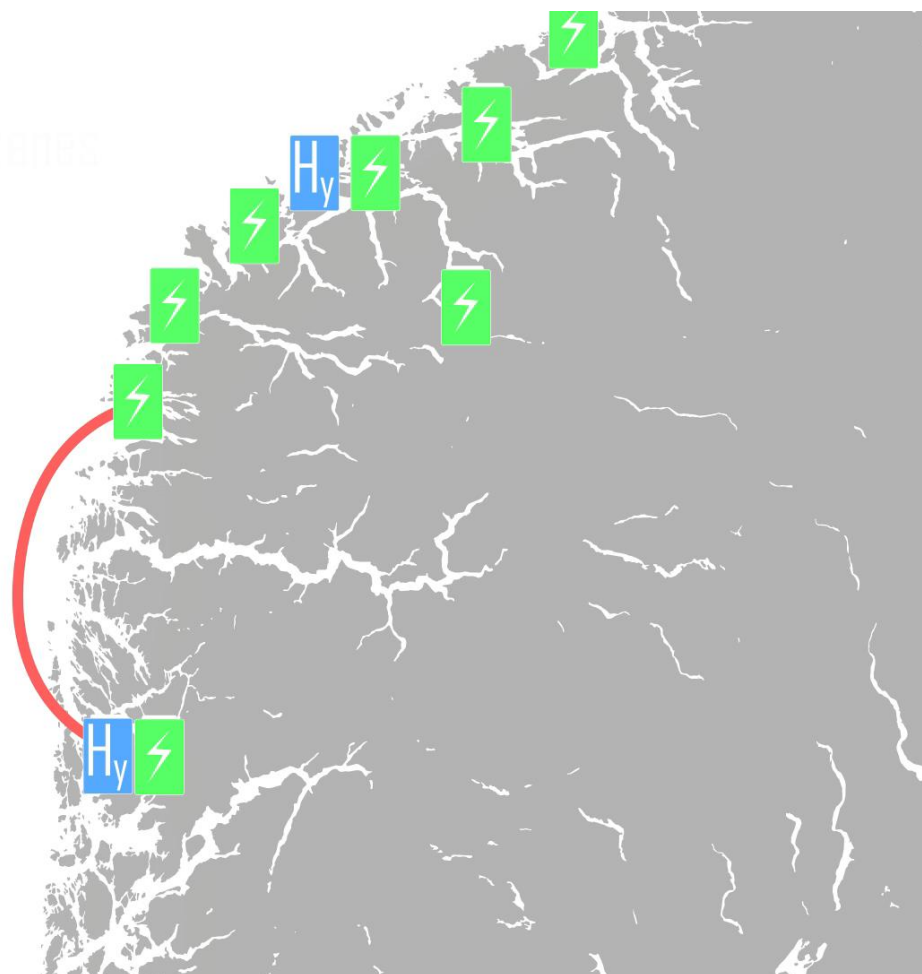
Landligge timer : 5.30
 Ladning landstrøm Mwh : 7.15
 Ladning Hydrogen Kg : 1418



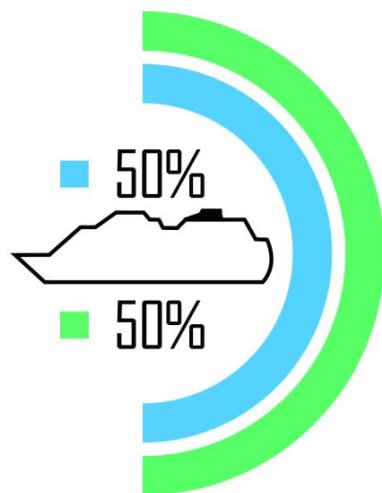
Bergen - Florø



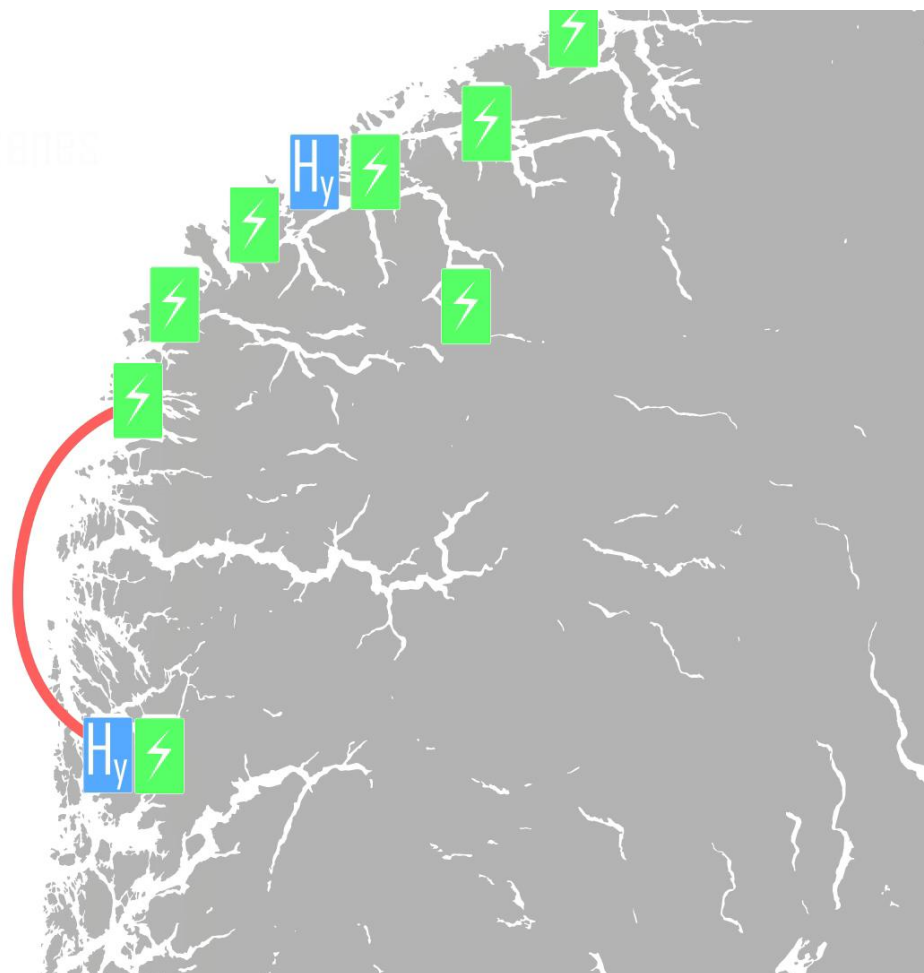
Fartstid timer: 5.50
Forbruk Mwh : 20.42



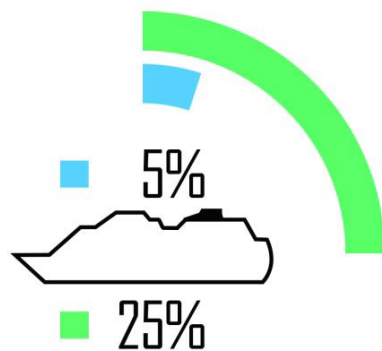
Elektrifisering av strømlinje Bergen - Kirkenes



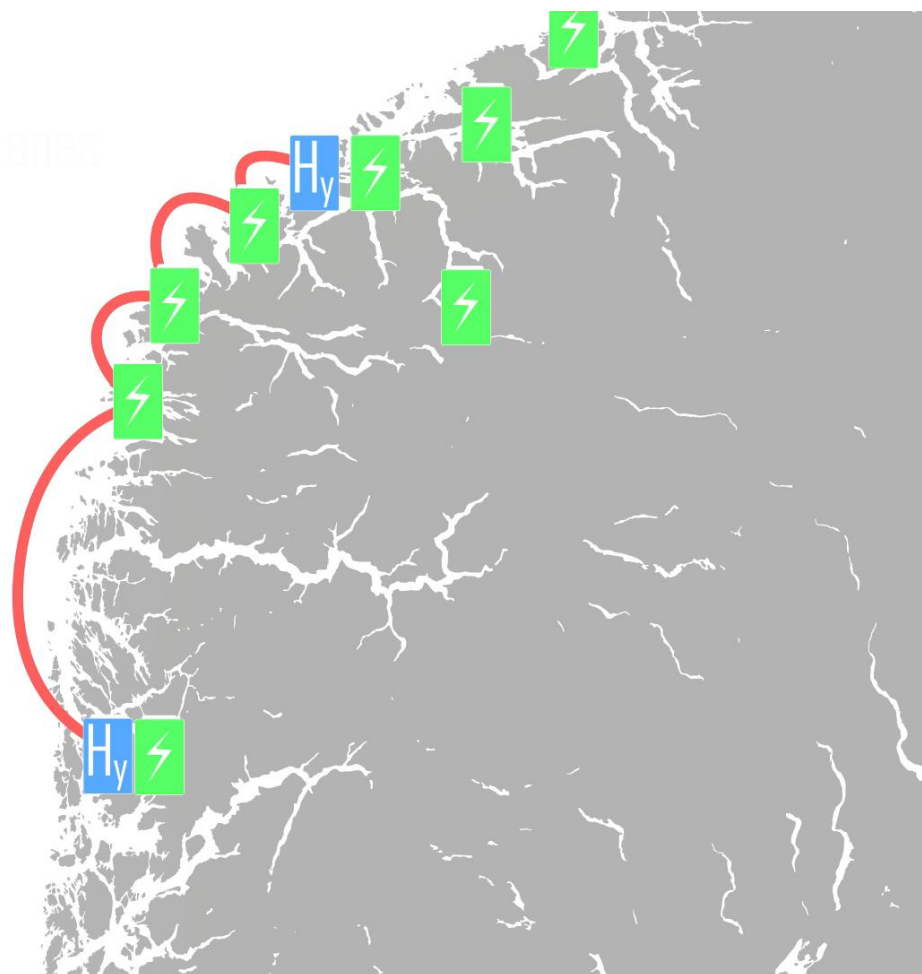
Landliggende timer: 0.25
Ladning landstrøm Mwh : 3.63



Florø - Ålesund



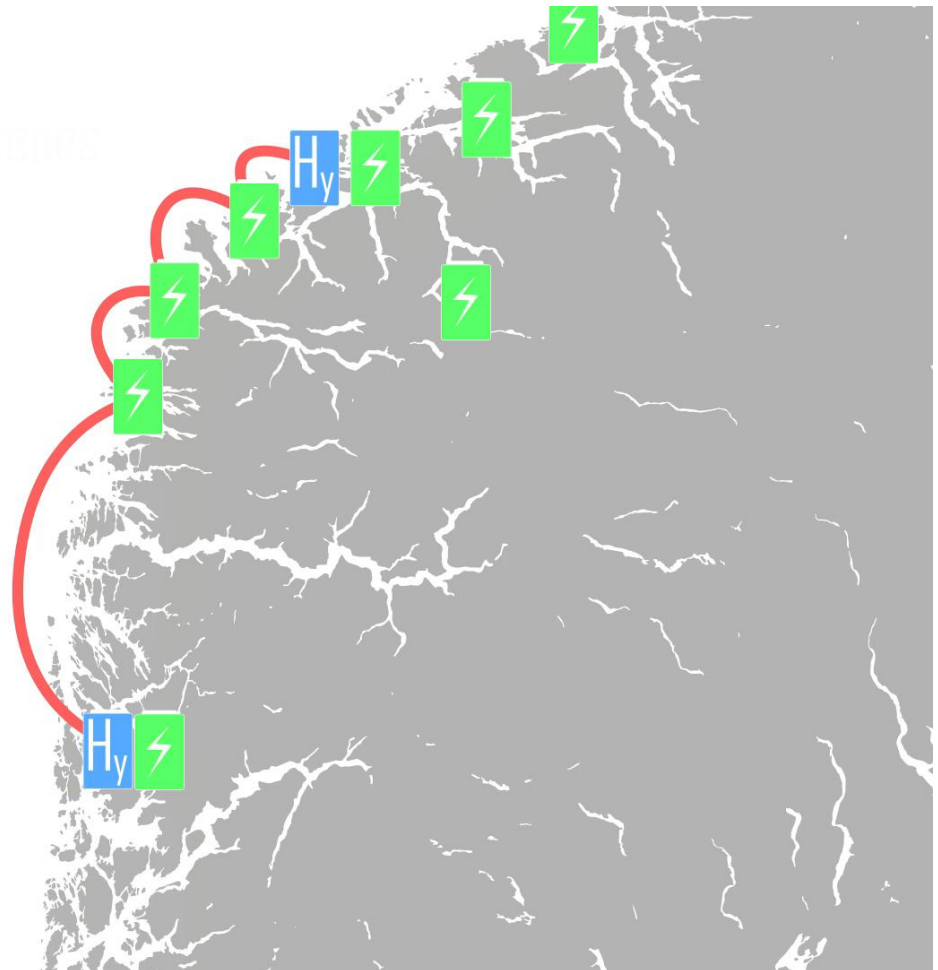
Fartstid : 5.30
Landliggende timer : 1
Forbruk Mwh : 19.43



Ålesund

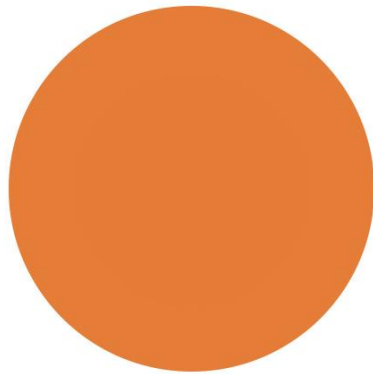


Landliggende timer: 0.45
Ladning landstrøm Mwh : 6.53
Ladning hydrogen Kg : 3017



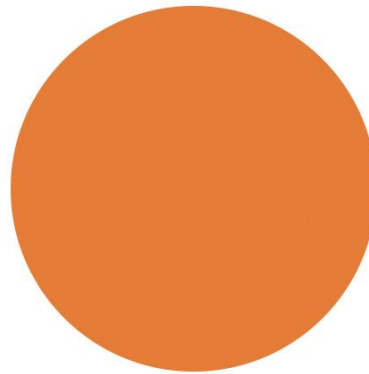
Dette står på spill

2018 - Fossil



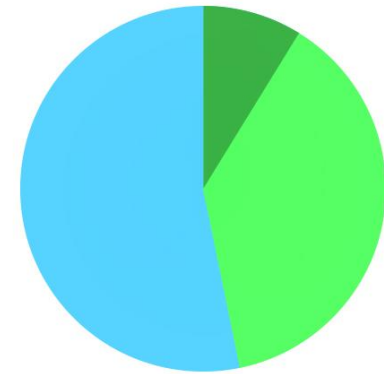
■ 71 millioner liter diesel

2022- Fossil



■ 56 millioner liter diesel

2022 - Ny



■ 54% Hydrogen
■ 12% Til kai
■ 34% Batteri
■ 0% Diesel

- **Takk for meg!**