



KYSTVERKET

NORWEGIAN COASTAL ADMINISTRATION

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**“We have extremely many ports...”**

**What national port infrastructure means for the transition to zero emission shipping**

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Einar Bjørshol, Senior Advisor  
7 December 2020





# How many ports are there in Norway?

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- 32 designated ports («stamnetthavner»)



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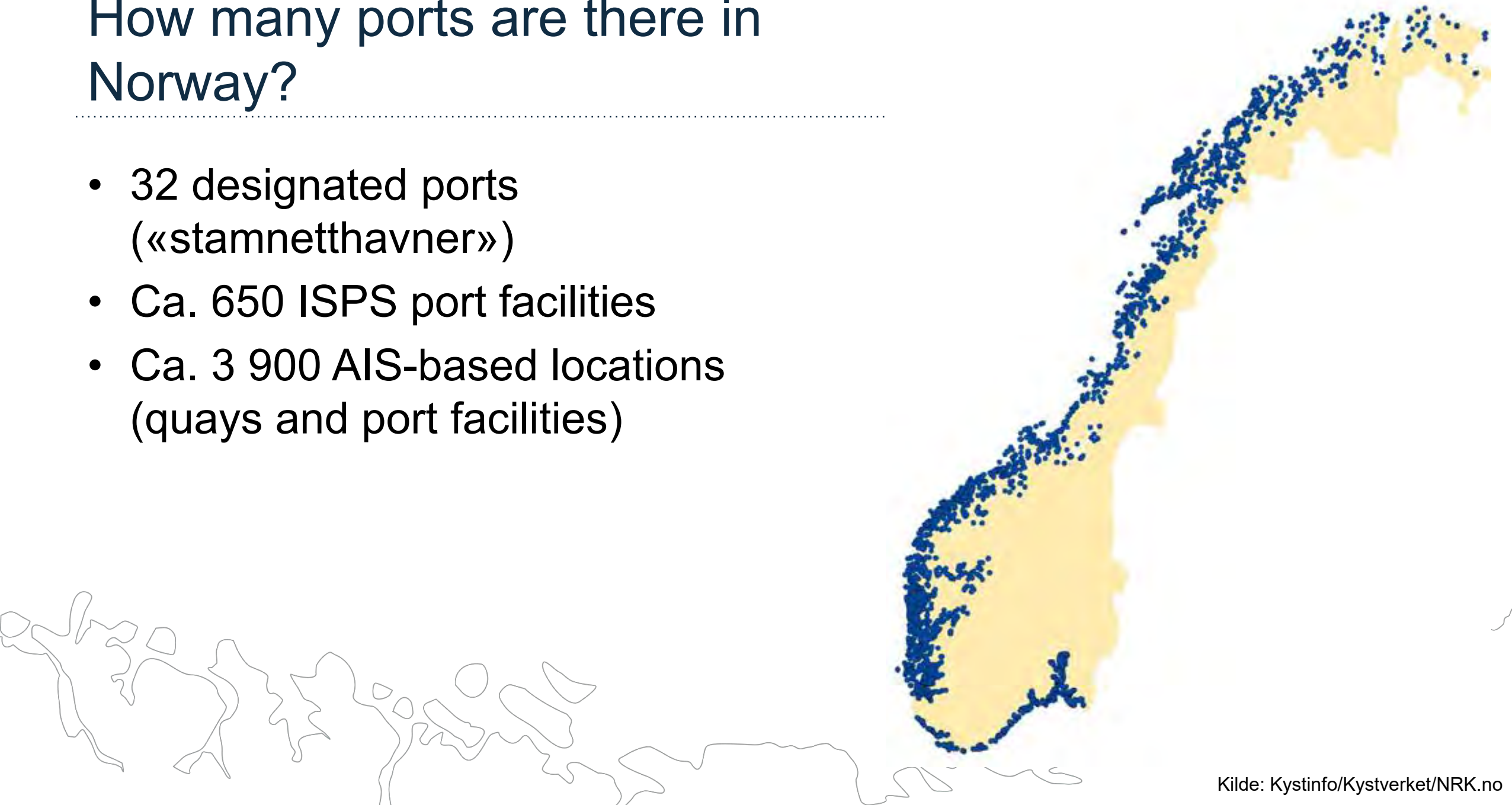
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- Ca. 650 ISPS port facilities



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- Ca. 650 ISPS port facilities
- Ca. 3 900 AIS-based locations (quays and port facilities)
- Ca. 4 450 port reception facilities for ship waste

Rotevatn sier til NRK at de siste tallene viser at 3316 norske havner har godkjente avfallsplaner. Totalt har vi 4450 havner i landet.

– Hvorfor har dette arbeidet tatt så lang tid?

– Norge er ikke EU-medlem, og det betyr at når det kommer et regelverk fra EØS, så er det ikke alltid helt perfekt tilpasset særnorske forhold – som at vi har ekstremt mange havner, sier Rotevatn, og fortsetter:

– Det har tatt lang tid å få oversikt over hvor mange havner vi har, hva de har av planverk, og få dette godkjent.



NÆR MÅLET: Klima- og miljøminister Sveinung Rotevatn sier de håper å ha på plass alle avfallsplaner i 2021.

FOTO: TIRIL METTESDATTER SOLVANG / NRK

# ISPS port facilities





# ISPS port facilities

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# ISPS port facilities



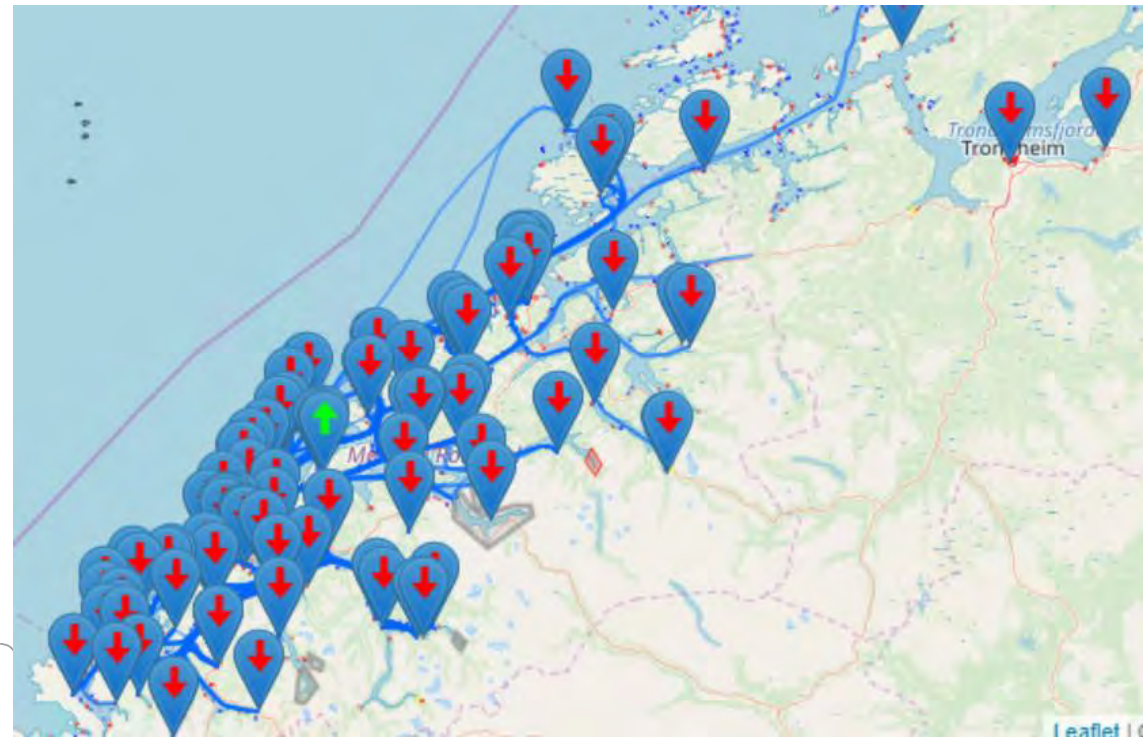
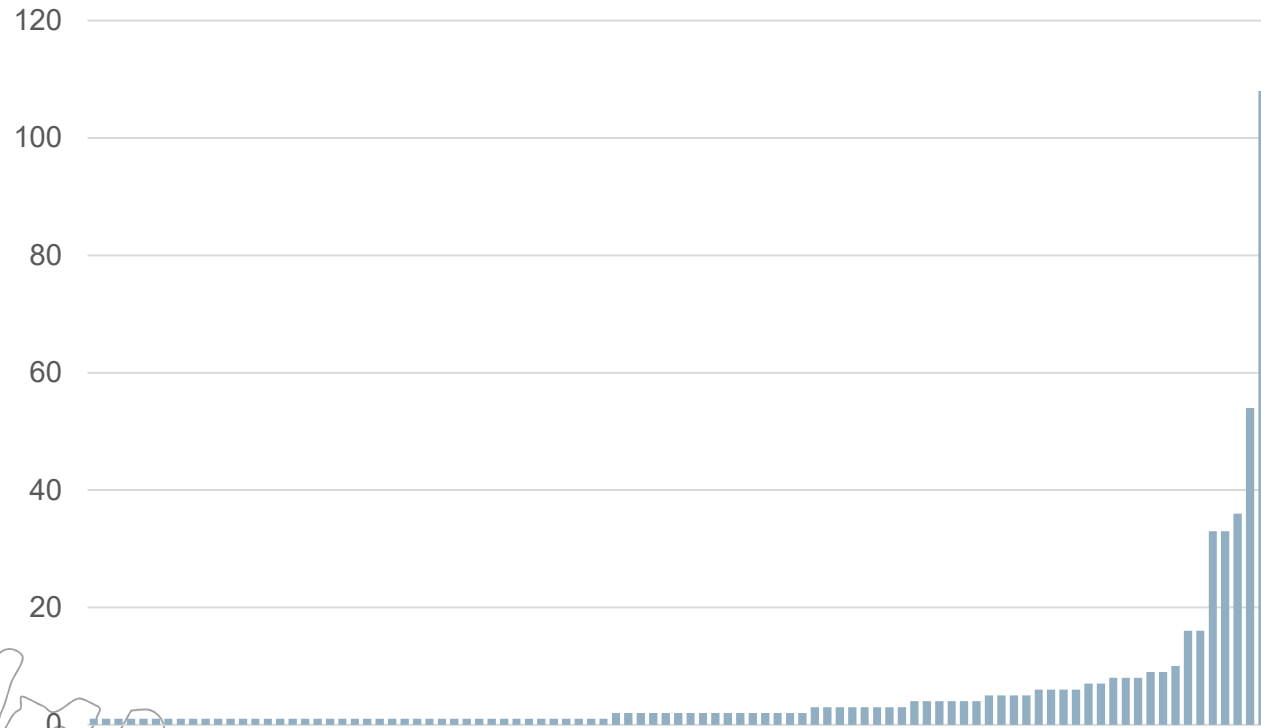


# ISPS port facilities



# Torvaag (1968), 670 DWT

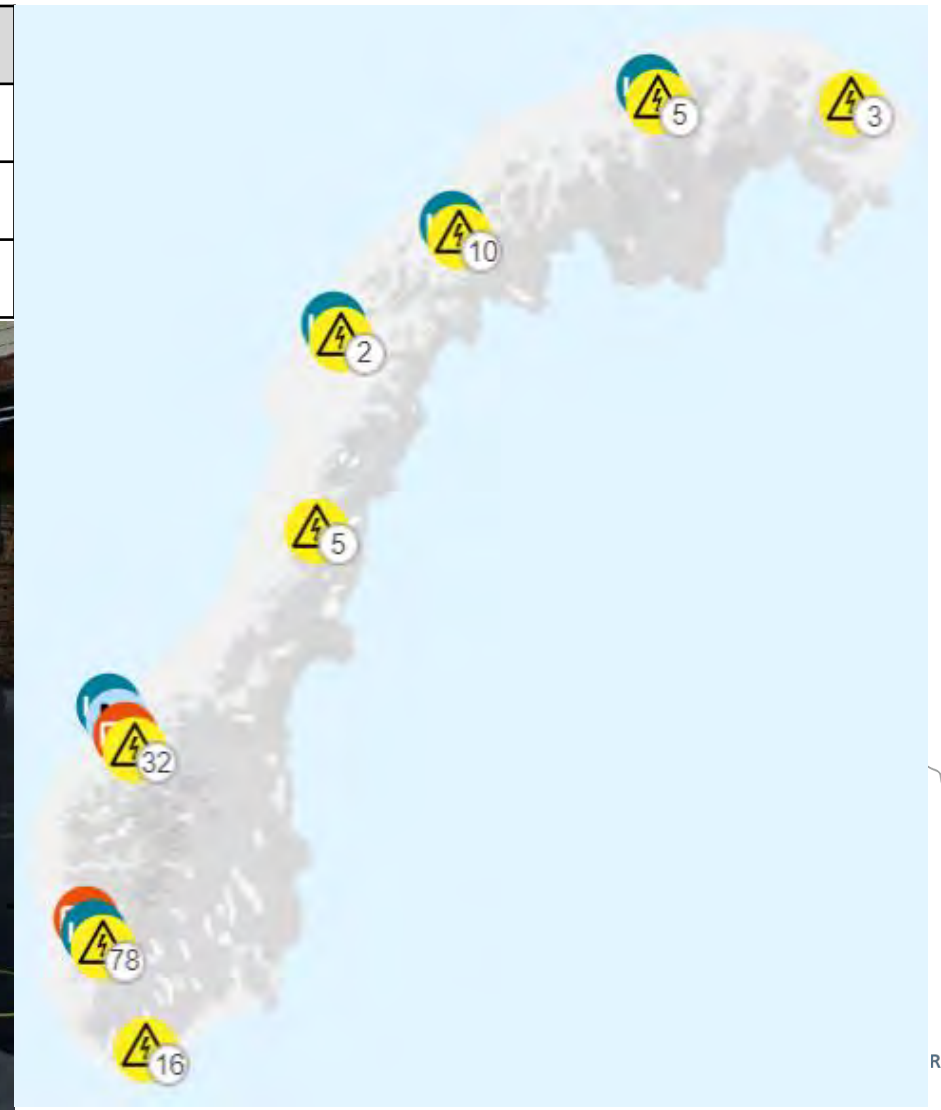
95 port facilities, 528 arrivals



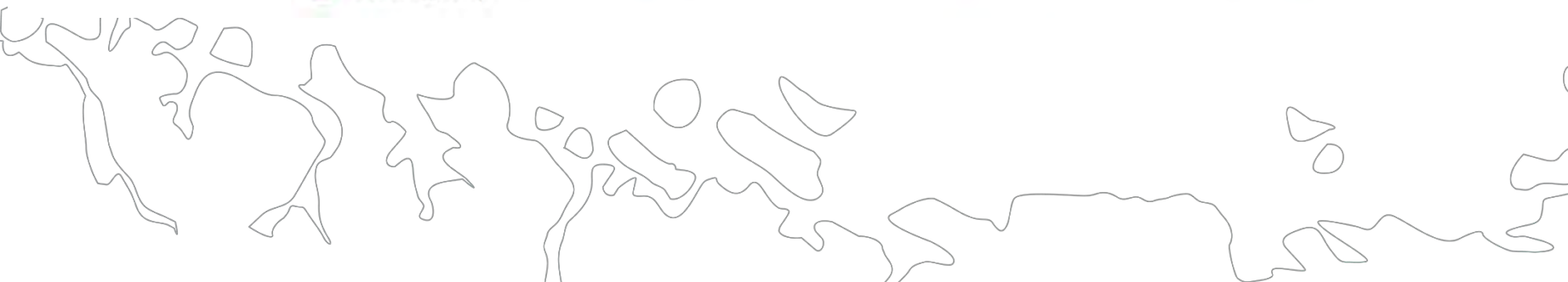
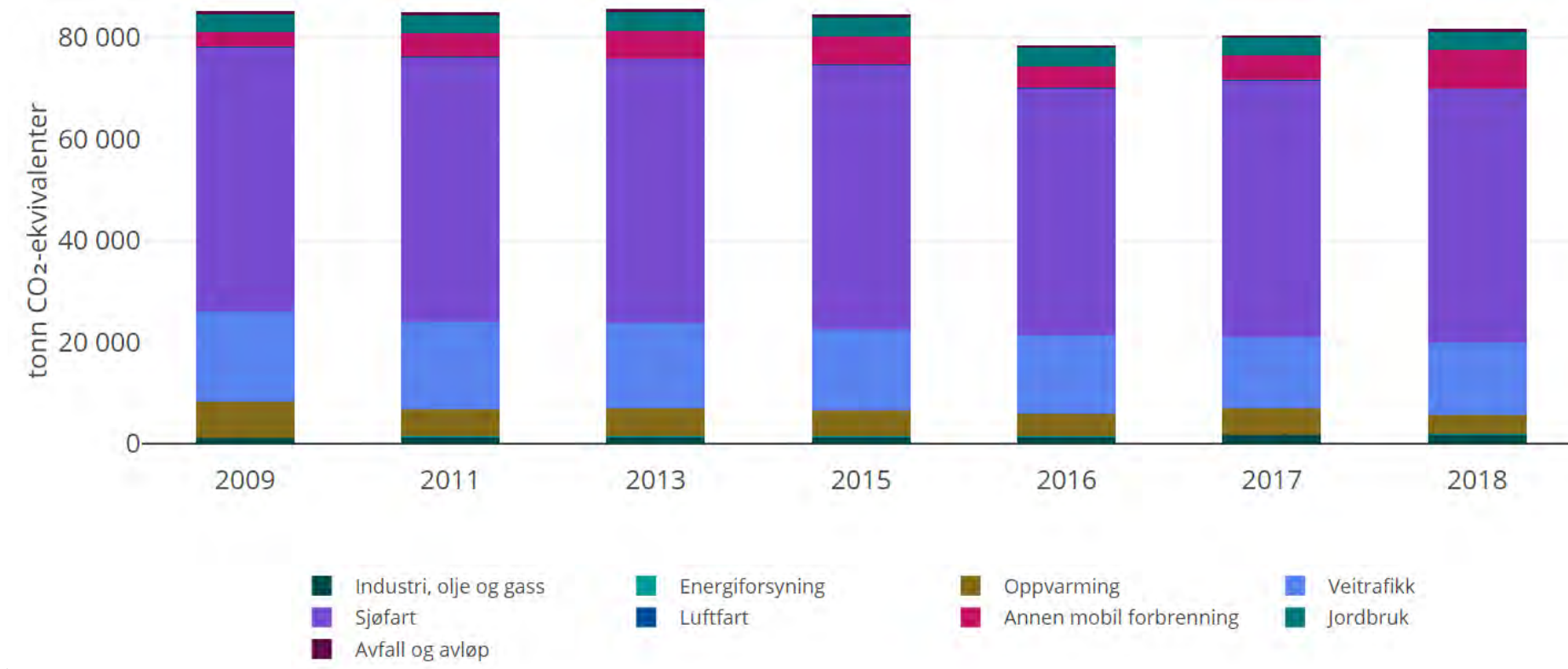


# Local emissions = Shore power

Ownership	ISPS	Non-ISPS	Total
Private	42 %	19 %	61 %
Public	33 %	6 %	39 %
Total	75 %	25 %	n = 118

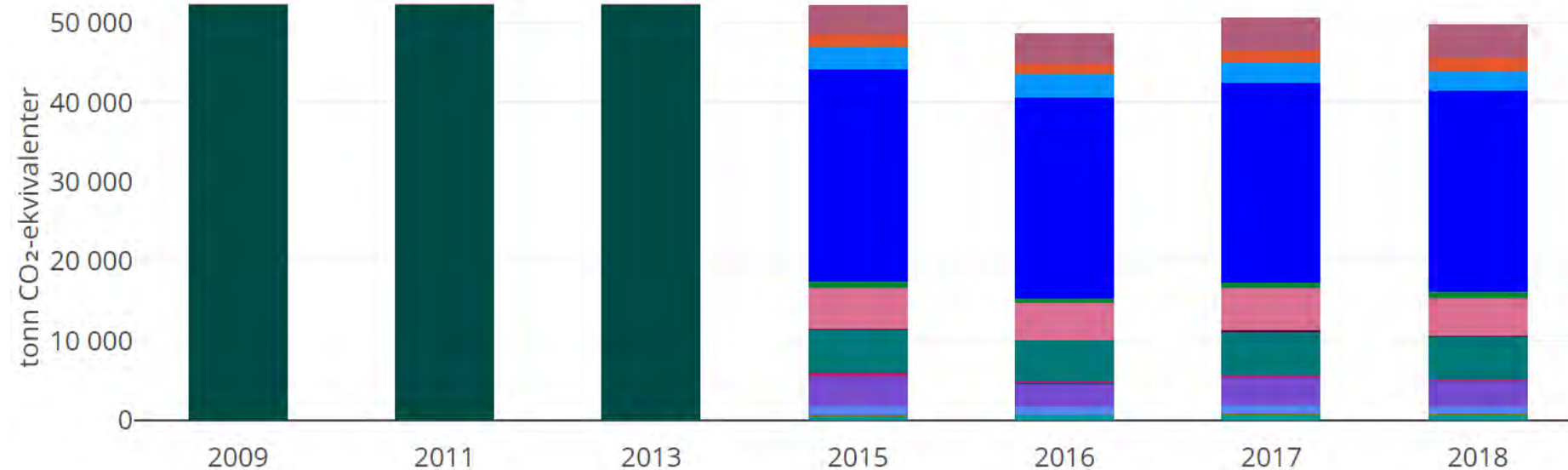


# Climate Gas Emissions, Færder

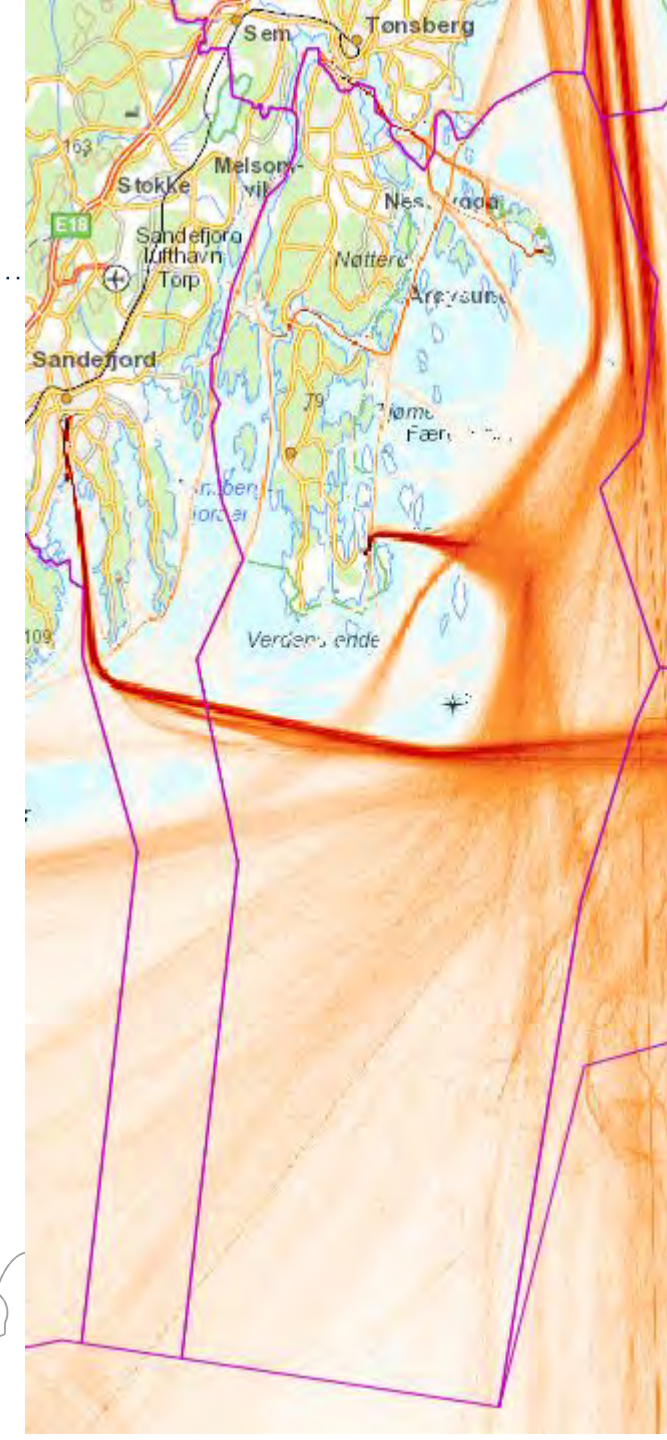




# Climate Gas Emissions, Færder



- \*Estimat sjøfart
- Cruiseskip
- Kjøle-/ fryseskiper
- Passasjer
- Andre aktiviteter sjøfart
- Fiskefartøy
- Kontainerskip
- Ro Ro last
- Andre offshore serviceskip
- Gasstankere
- Offshore supply skip
- Råoljetankere
- Bulkskip
- Kjemikalietankere
- Oljeprodukttankere
- Stykkogdsskip



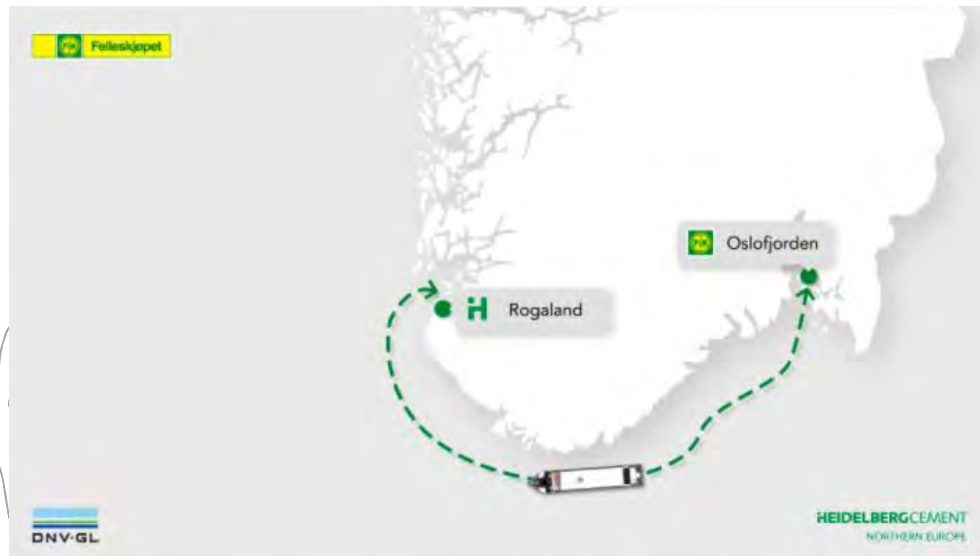
# Greening one ship/route at a time

**TU** Maritim

FELLESKJØPET OG HEIDELBERG CEMENT – UTSLIPPSFRITT BULKSKIP

## Bestiller verdens første utslippsfrie bulkskip

Felleskjøpet og Heidelberg Cement går sammen om å bygge et bulkskip som ikke skal bruke fossilt drivstoff. Det kan bli en «game changer» for store skip på samme måte som batterier har vært for ferger.



Copenhagen, 26 November 2020

## Partnership aims to develop hydrogen ferry for Oslo-Copenhagen

DFDS and its partners have applied for EU support for development of a ferry powered by electricity from a hydrogen fuel cell which only emits water.



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# References and credits

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## Data and maps

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# CLEAN, SAFE AND EFFICIENT SEAWAYS

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[www.kystverket.no](http://www.kystverket.no)

