





Biokraft AS

7th IBBA Workshop

Norrköping, 6-7 November 2018

Terje Hyldmo

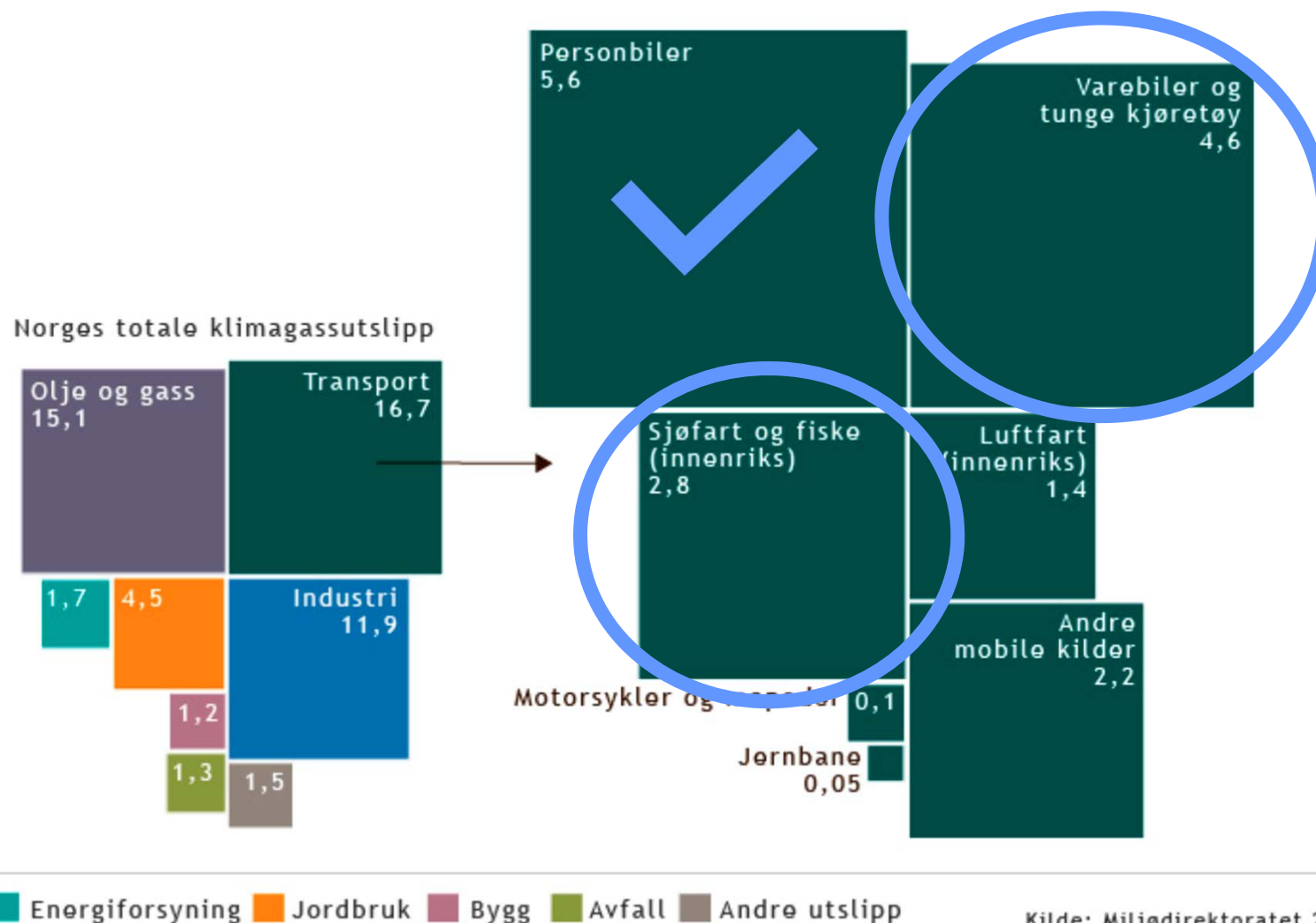
Manager, Commercial & Business development

The big picture – greenhouse emissions (Norway)



Utslipp av klimagasser fra transport i 2015

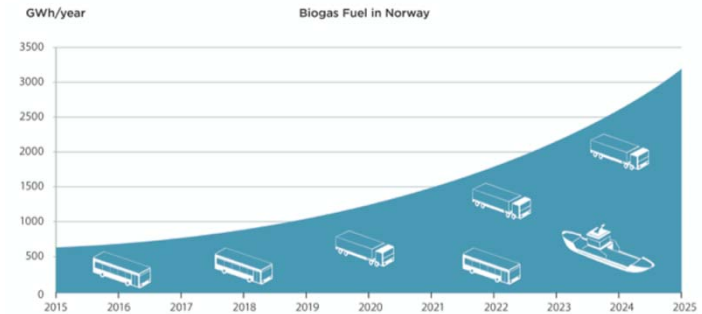
Utslipp til luft (millioner tonn CO₂-ekvivalenter)





Market drivers and enablers:

- IVECO, Scania and Volvo launched new CH₄-powered heavy vehicles (haulers) in 2017 – 2018
- AGA, AirLiquide, Gasum and others rolling out new LBG fueling infrastructure in Norway in 2018 – 2019
- Market development (#thefirst100 ++) – first movers in 2017: TINE, LITRA, BaMa ++ others ... > 100 !
- Licencing requirements involving CO₂ emission targets
- "Fossile free" heavy transportation gaining momentum
- **Availability and supply of LBG**

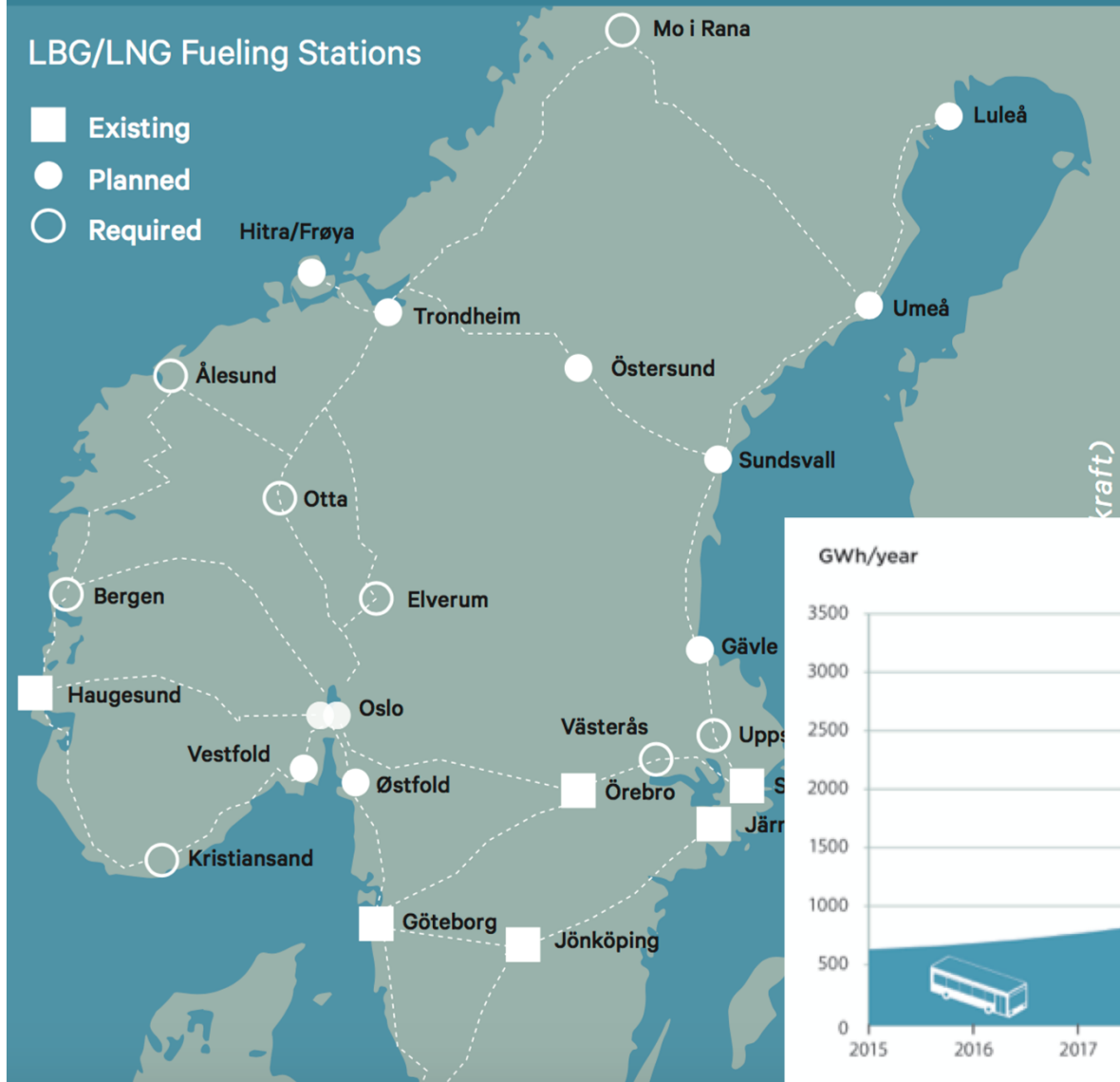




Oversiktskart: Eksisterende, planlagte og nødvendige fyllestasjoner for flytende biogass drivstoff i Norge og Sverige.

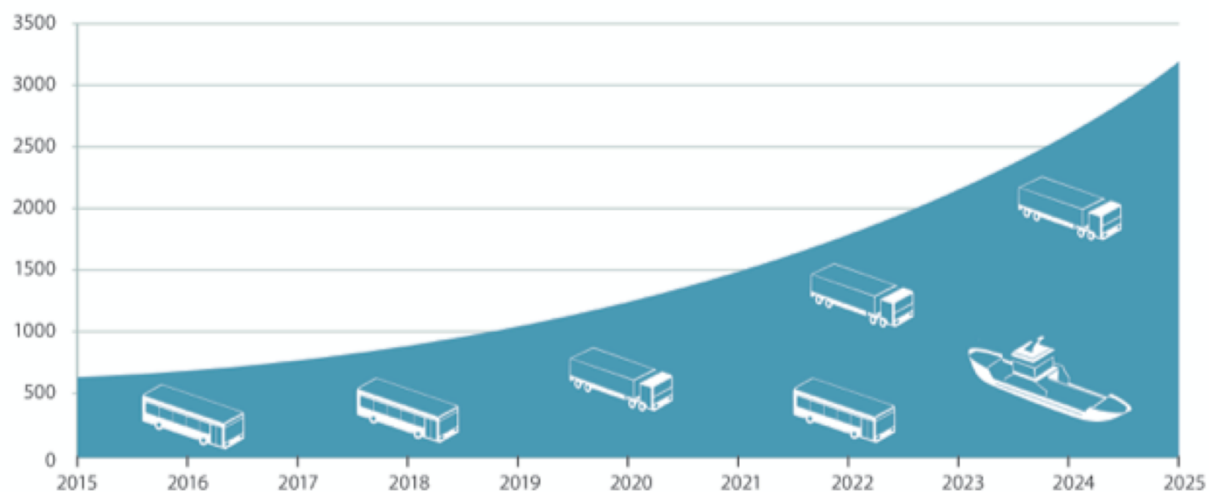
LBG/LNG Fueling Stations

- Existing
- Planned
- Required



GWh/year

Biogas Fuel in Norway



Skogn 1 (2018) – The world's biggest LBG Plant





Official opening at Skogn 2nd September 2018



Skogn 1 (2018)

- Annual reduction in CO2 emissions: 30 000 tons
- Yearly production of 12,5 mill Nm3 / 9 000 tons LBG
- Next to pulp & paper mill Norske Skogn Skogn – utilizing waste water & biosludge from Norske Skog
- Utilizing waste/byproduct from salmon farming, agriculture & food industry

Skogn 2 (2020)

- Yearly production of 12,5 mill Nm3 / 9 000 tons LBG
- Utilizing waste/byproduct from salmon farming, agriculture & food industry



Biogas on its way to a fueling station near you ...

