



Ruter's transition to zero emission: on the water

Atle Holth – Energy Infrastructure

Port of Oslo Rådhusbrygge 4. Charging



2019

- Oslo Havn
- Ruter
- Sporveien

Hafslund (8 MW)

- 4 MW (Nesoddsambandet)
- 2 MW (Island boats)
- 2 MW (Future)

Voltage 11 / 0,69 kV (690 V)

Ruter#

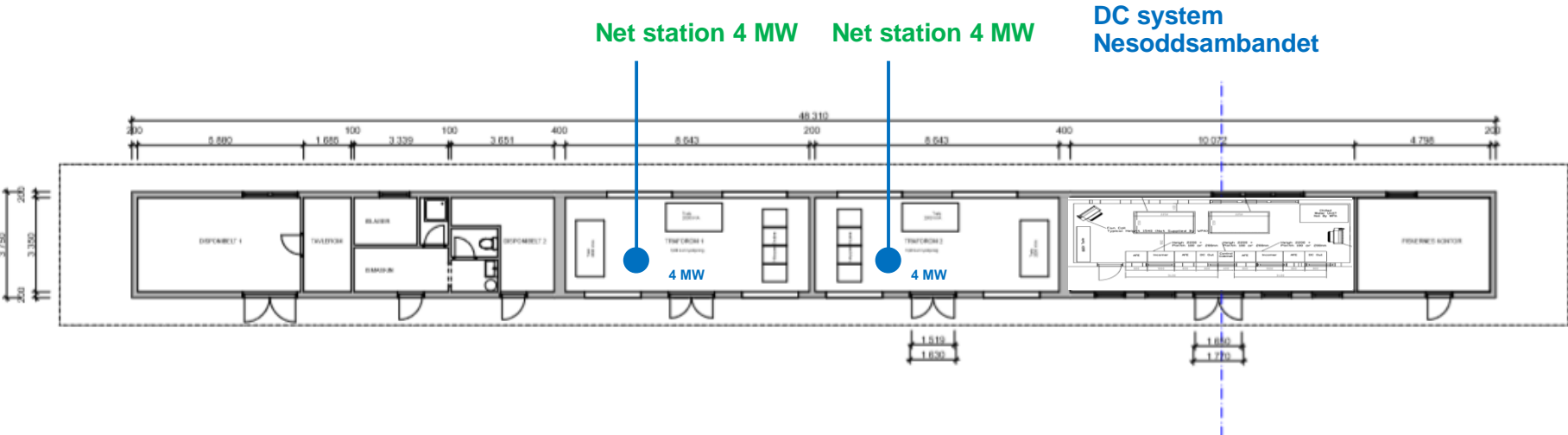
Rådhusbrygge 4.

- Rebuilding of the house
- Standard based on the requirements from the utility.



Oslo Havn Rådhusbrygge 4

In total 8 MW. 4 MW (Nesoddsambandet) + 2 MW (Øybåtene) + 2 MW (Future)



Sea side

Townhall side

Ruter#

Challenges

- Many different locations have been investigated
- Space and land / Number of square meters
- Distances between net station and charging point / weight

Key players

- Port of Oslo
- Utility Hafslund
- PBE Regulations
- City antiquarian
- City hall / Rådhusplassen)
- BYM
- Fisherman
- Fish market