

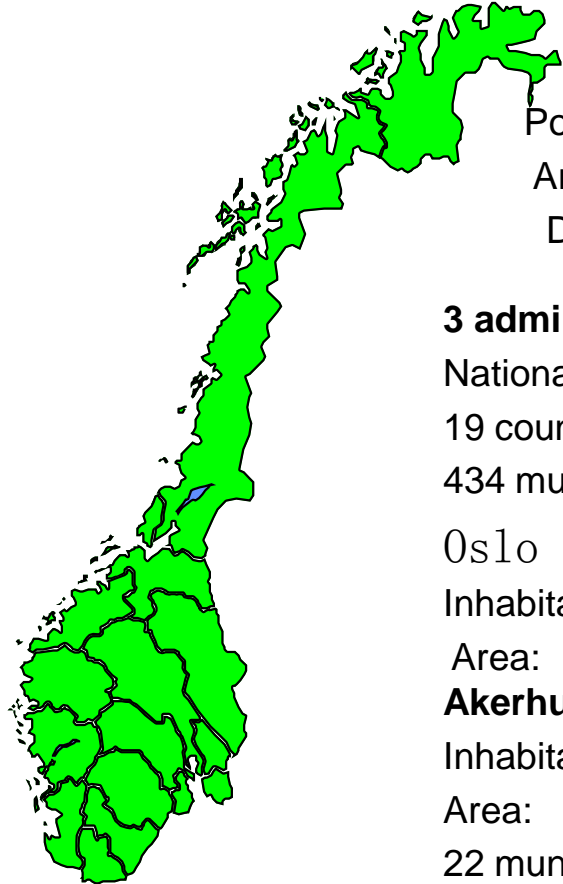
# Ruter

Presentation 4 October 2010, Cologne, CHIC Project Launch

Ove Konrad Kjølstad, Project Manager, Oslo Site

Ruter#

# Norway



## Norway

Population: 4,9 mill.

Area: 323 758 km<sup>2</sup>

Density: 15 / km<sup>2</sup>

### 3 administrative levels:

National government

19 counties

434 municipalities

Oslo (city and county)

Inhabitants: 590 000

Area: 453,7 km<sup>2</sup>

**Akerhus county:**

Inhabitants: 540 000

Area: 4916,6 km<sup>2</sup>

22 municipalities

# Oslo region



HyNor Oslo Buss

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# HyNor Oslo Buss



Akerhus County Council



Oslo City Council



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Public Transport Executive



Environmental Organisation  
(Zero Emission Resource Organisation)



**HyNor Oslo Buss**

**Ruter#**

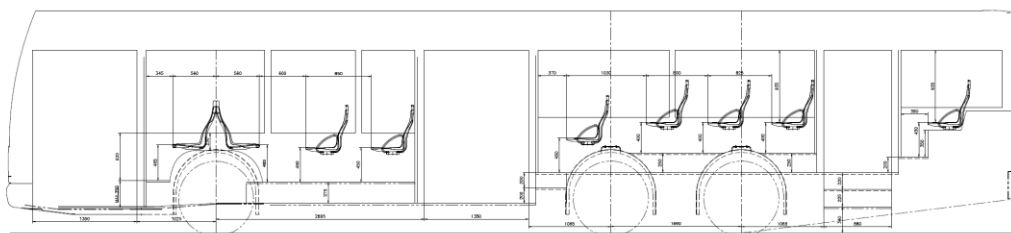
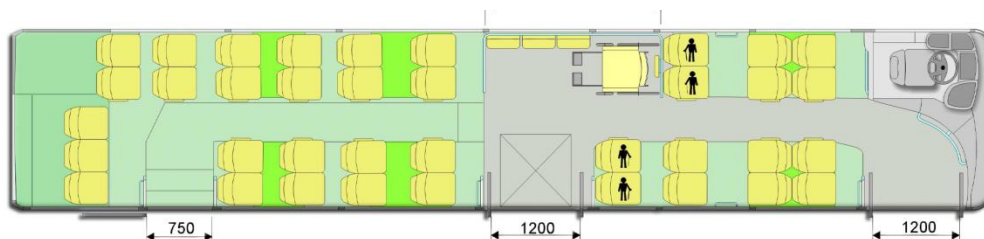
# Van Hool FC Bus



- 5 buses. Option for 5 more.
- 13 meter, 3 axle, 16.6 T
- Low entry bus (low floor front, high floor rear)
- 3 doors (2+2+1)
- 37 seats + one wheelchair / 2 flip up seats, 33 seats forward facing
- Ballard Fuel Cell Velocity – HD6
- Siemens electric drive motor
- Dynatek, 7 fuel tanks = 35 kg hydrogen
- Enerdel, lithium-ion battery, 17.4 kWh storage, 100 kW maximum power output



# Van Hool FC Bus 13 meter



HyNor Oslo Buss

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# Air Liquide Norway

- Build, own and operate a H2 station
- H2 production at station 2 eletrolysores from Hydrogenics (HySTAT 60/10)
- Production: 250 kg H2/day
- Storage: 340 kg H2
- Tanking: 5 buses in 70 minutes
- Control centre 24/7 Surahammar, Sweden
- Back up fuel: Trucked in from Surahammar in few hours



**HyNor Oslo Buss**

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# Rosenholm Bus Garage



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