



OLJE- OG ENERGIDEPARTEMENTET

*Ministry of Petroleum and Energy*

## ECOS 2005

Trondheim, Norway, 20 June 2005

# **“Norway – An energy nation – In an international context”**

Oluf Ulseth, State Secretary  
Ministry of Petroleum and Energy



# Norway

- 4,6 mill people
- 325 000 sq. km – 14 persons/sq. km
- North-western part of Europe
- GDP is ca. 36 000 USD/capita (PPP)
- European Economic Area



# The world needs more energy

Sustainable production and consumption is important to secure welfare tomorrow!



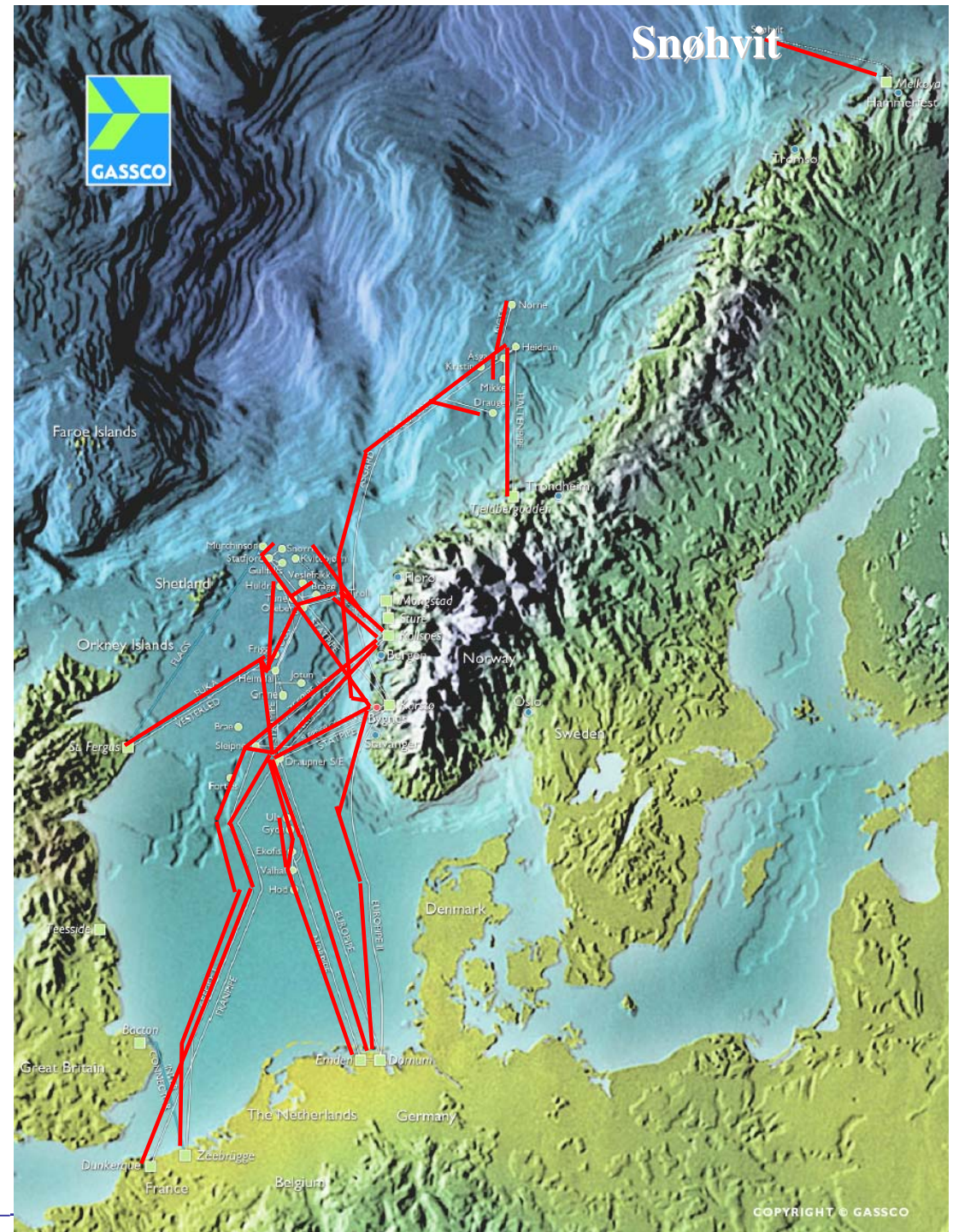
# Norway is a major petroleum producer

- 3rd largest oil exporter in the World (3,0 mill. barrels/day)
- 3rd largest exporter of natural gas (71 Bn. Scm)
- 7th largest oil producer (2003: 3,3 mill.barrels/day)



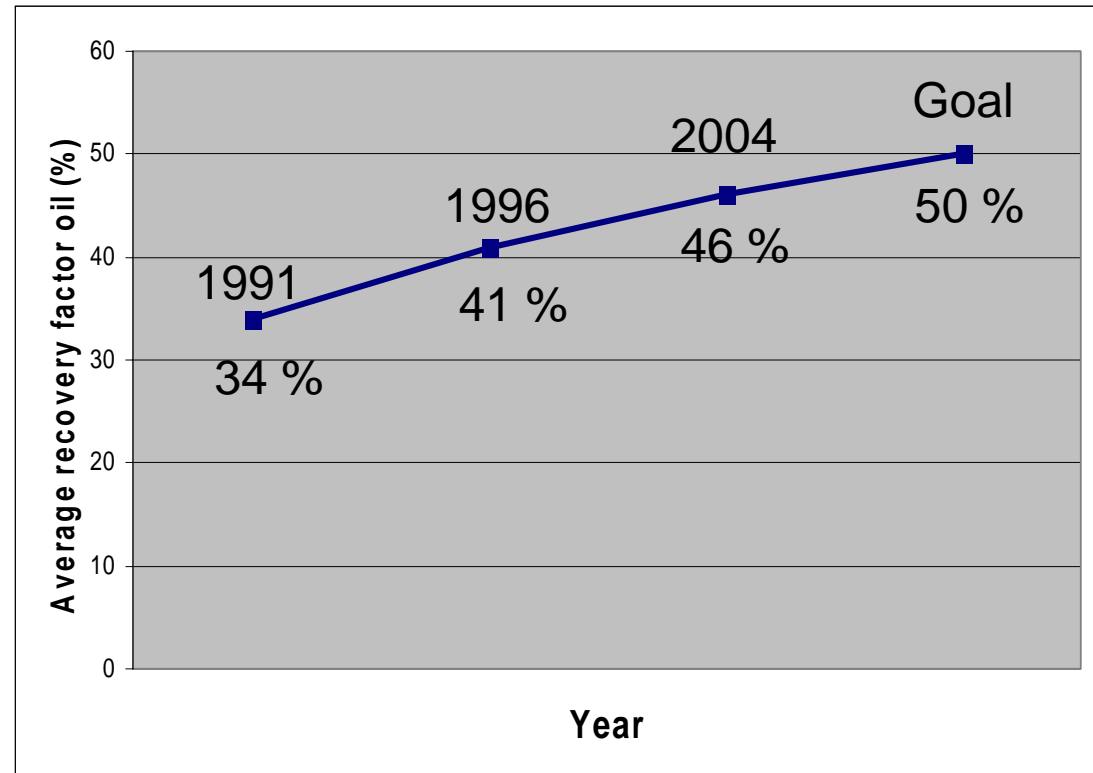
# The Norwegian Gas Sector

- 50 fields producing gas
- About 4000 miles of large offshore pipelines
- Two of the larger gas processing plants in the world
- Supplies about 14% of European gas consumption



# Increased recovery factor

- 2004: 46 % (oil)
- Goal: 50 % (oil)
- Recovery factor oil 2001-2004:
  - Increased by 0,5 p.p. per year
  - + 140 mill Sm<sup>3</sup>
- 1 % increase today equals 95 mill Sm<sup>3</sup> more oil



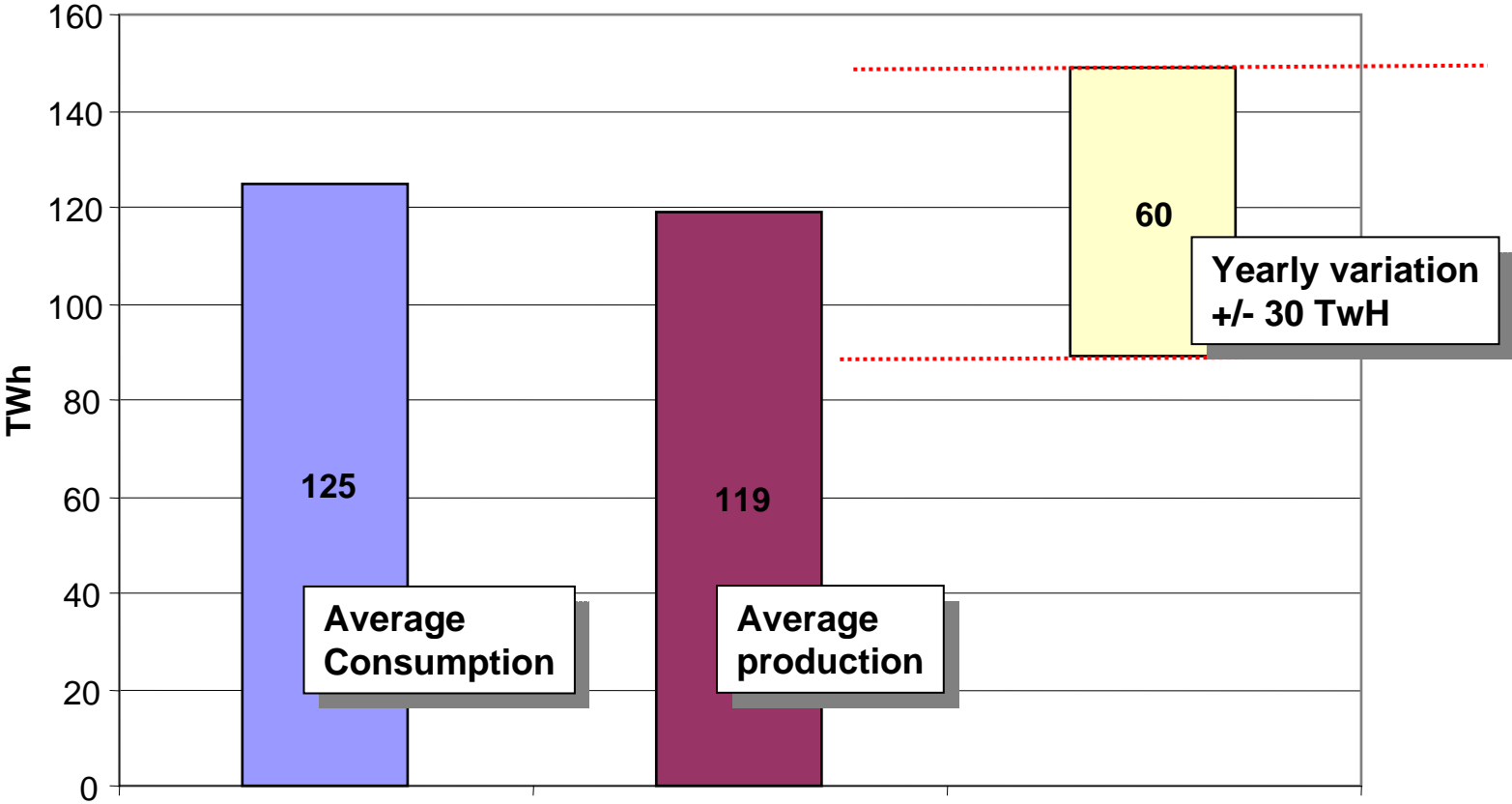
# Large hydropower producer

- 6th largest hydropower producer in the world
- Average production capacity: 119 TWh/year
- Installed capacity: 27 300 MW
- Electricity plays a dominating role in stationary energy consumption (48 per cent)



Photo: Statkraft SF

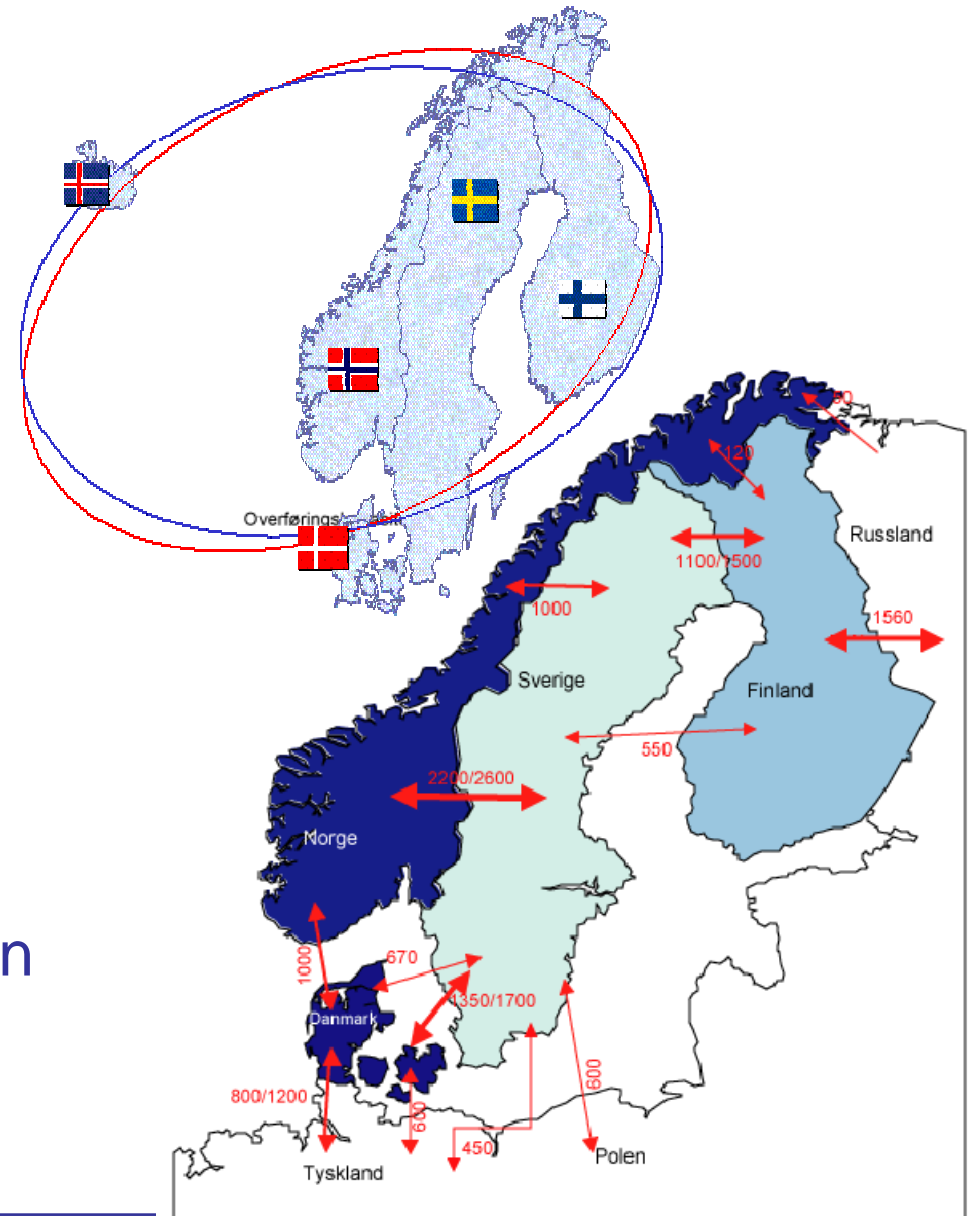
# Variation in hydropower production





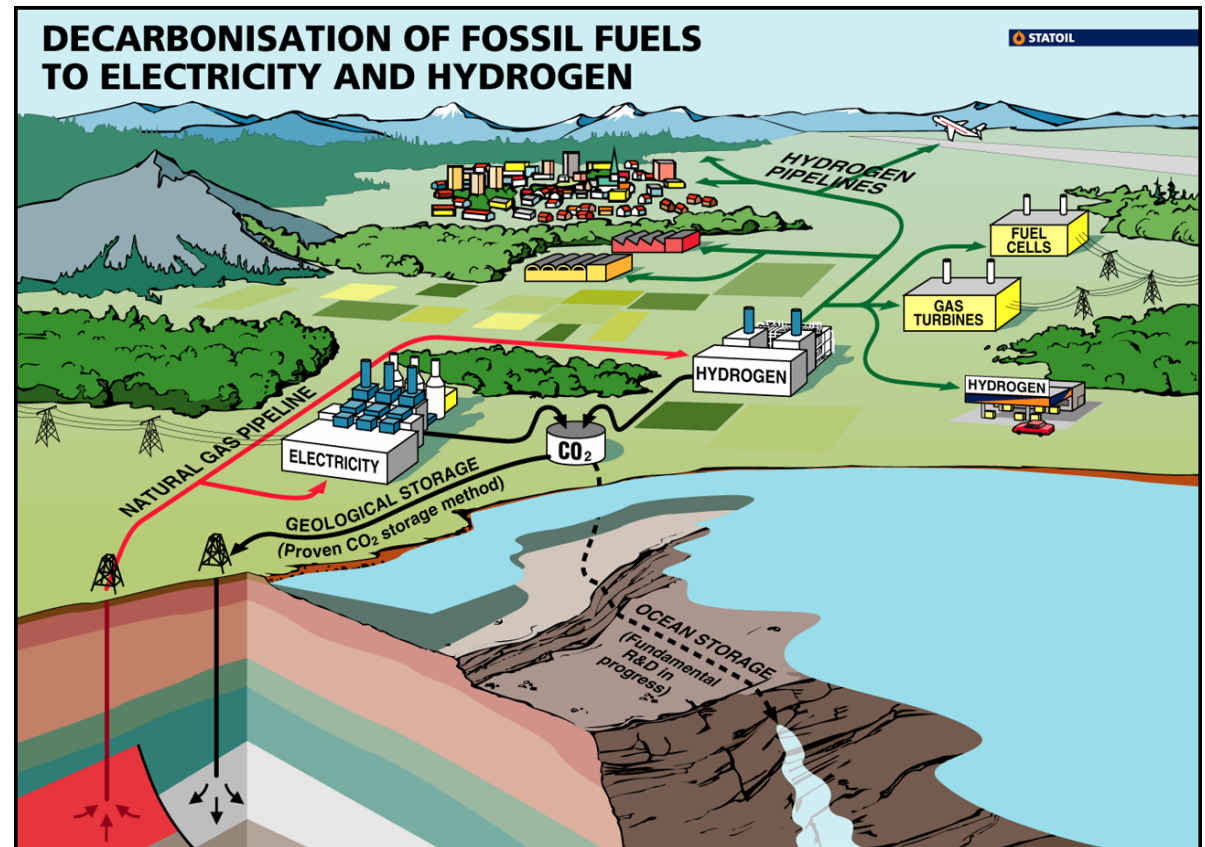
# A Nordic Powermarket

- Provides an effective coordination of generation from hydropower, nuclear and coal
- Gives adequate market signals to sustain a necessary level of investments
- Secures well functioning transmission capacity within Norway and between and the Nordic countries



# Gas-fired power plants

- Carbon capture and storage
- Grants for R&D and investment support
- Gassnova
- CO<sub>2</sub> for EOR
- Hydrogen



# Challenges for an energy nation

- Security of supply within sustainable development
  - hydropower
  - wind power
  - biomass
  - energy efficiency
  - gas and gas fired power plants
- Continued development of petroleum resources
  - acreage
  - technology
  - R&D

