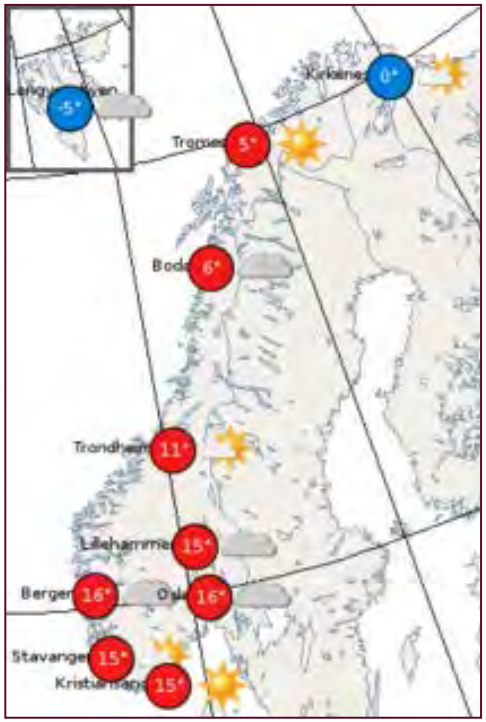
From nuclear to energy institute



Temperatures on May 5th 2008
were fairly typical for this time of spring,
although slightly above average
in the southermost part of the country.

Western Norway

Ålesund

Oil and gas

Oil production has been a big part of the Norwegian economy since the 1970s, with a dominating state ownership

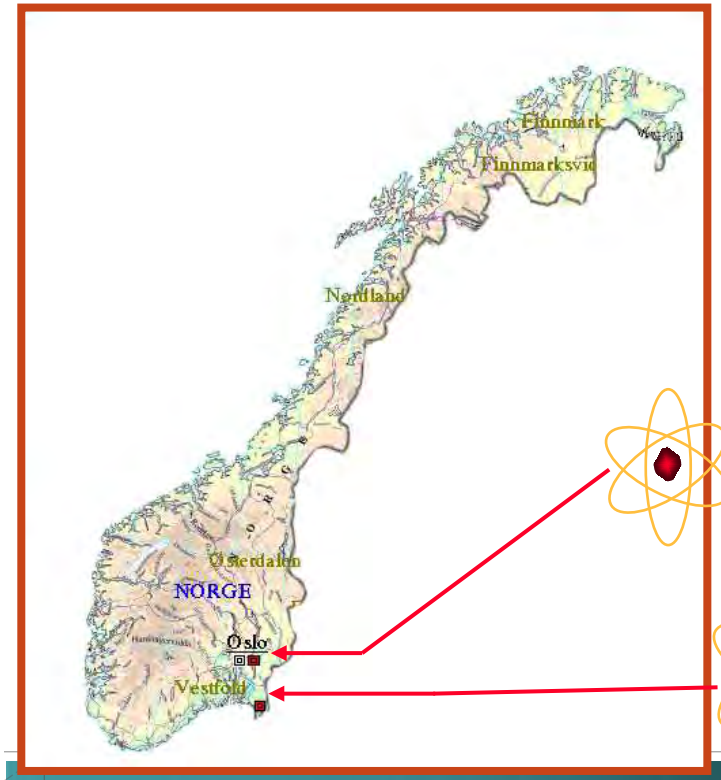
Export revenues from oil and gas have risen to 45% of total exports and constitute more than 20% of the GDP

Norway is the fifth largest oil exporter and third largest gas exporter in the world

The Government Pension Fund of Norway controlls assets valued at US$200 billion.

Vision

IFE's vision is to be an internationally leading energy research institute.



Kjeller

Halden

Gunnar Randers, IFE's founder

A proud history

- Independent foundation established in 1948
- Built one of the world's first nuclear reactors (JEEP I, 1951)
- Organised the world's first international scientific conference on nuclear technology in 1953
- Developed the world's first colour screen based control room (OPCOM, 1972)
- Developed the technology enabling multiphase transportation of oil, water and gas (Olga, 1980)
- Developed the technology that made it possible to trade electricity on the stock market (Nordpool,1993)

Nobel Prize Laureates Sir John Cockroft and Nils Bohr, King Haakon and Crown Prince Olav at the opening of the JEEP I-reactor at Kjeller 28th nov. 1951

Institute for Energy Technology

- R&D in a broad scope of energy technology
- 600 employees (Kjeller and Halden)
- Turnover: NOK 1 billion
- Contract research
- Internationally oriented

JEEP II reactor, Kjeller

Main goals for IFE

- Develop profitable, safe and environmental friendly technology within petroleum extraction, energy production and use.
- Maintain and further develop national expertise within reactor safety, radiation protection and nuclear technology.
- Utilise the Institute's unique nuclear safety expertise in other spheres of society.
- Conduct basic research based on the JEEP II reactor at Kjeller.

THE BOARD

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Nils Morten Huseby
Dep. President
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Petroleum Technology
Martin Foss

Safety Man-Technology-Organisation
Tomas Nordlander

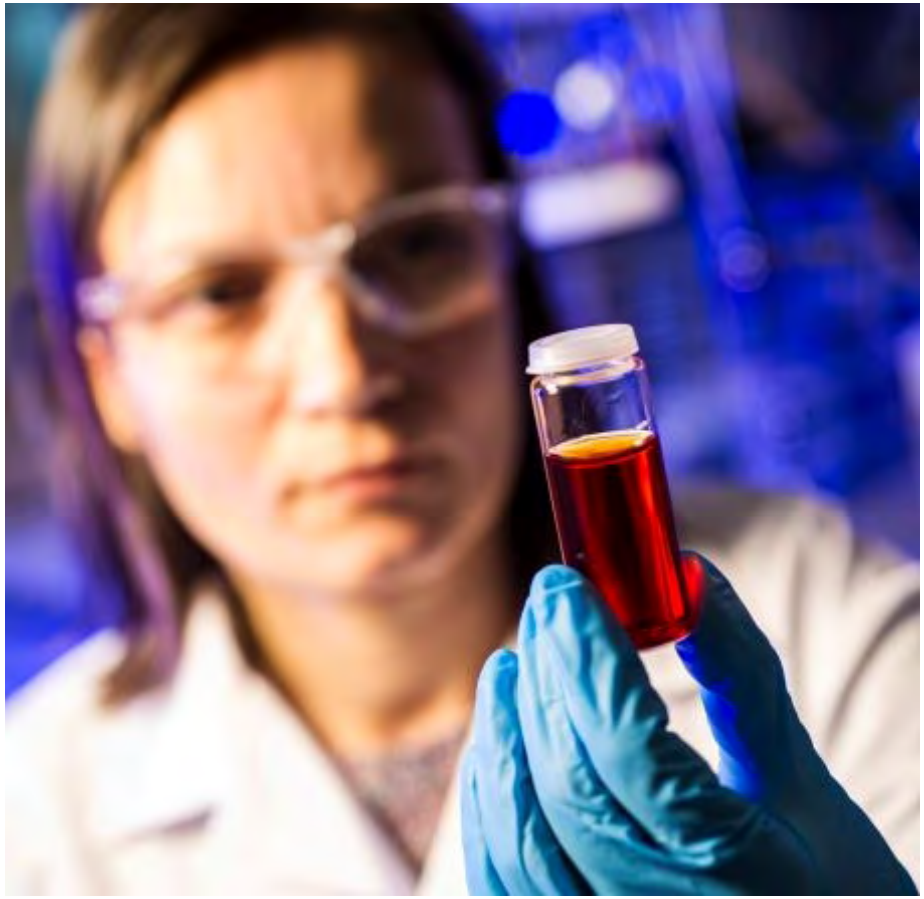
Isotope Laboratories
Bente Tange Harbø

Nuclear Waste Management
Henning Refshauge Vahr

Halden Project 2014-2017

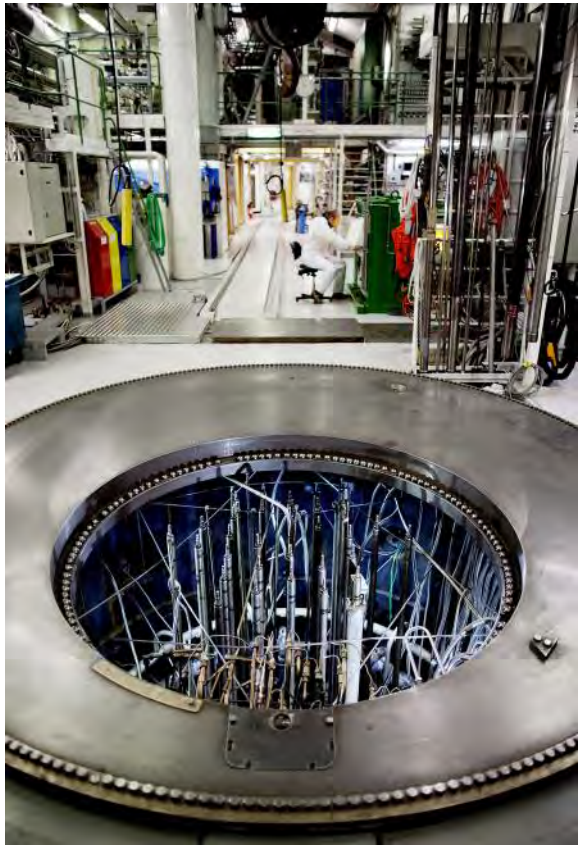
- International research on safety under OECD/NEA administration
- 20 member countries
- More than 100 participating organisations
- Three-year programme periods
- 70% international financing
- Norway's largest international R&D project (about MNOK 150 annually)

IFE, big laboratories and advanced experimental capacities at hand



Nuclear Technology, Materials Characterisation with Neutrons & Safety

- Main areas
  - Operation of the Kjeller- and Halden research reactors
  - Fuel and material technology
  - Safety at reactor plants
  - Basic scientific research in physics
- 177 employees
- Turnover: MNOK 300



Safety Man-Technology-Organisation

- Main areas
  - Man-Technology-Organisation
  - Control room technology
  - VR-technology
- Hammlab & VR-center:

  Halden MTO-center
- 68 employees
- Turnover: MNOK 92

The Isotope Laboratories

- Main areas
  - Production and quality control of radiopharmaceuticals
  - Control and distribution of radiopharmaceuticals to Norwegian hospitals
  - Research and development
  - Quality assurance
  - 128 employees
- Turnover MNOK 352

Petroleum Technology

- Main areas
  - Reservoir and exploration technology
  - Process and fluid flow technology
  - Corrosion technology
- 55 employees
- Turnover: MNOK 99

Energy and Environmental Technology

- Main areas
  - Renewable energy; solar cell technology, wind energy, hydrogen as energy carrier
  - Energy systems analysis
  - Carbon capture and storage (CCS)
  - Battery technology
  - Radioactive waste management
- 66 employees
- Turnover: MNOK 144

IFE, research for a better future