Macroeconomic indicators for the petroleum sector

- Share of GDP
- Share of investments
- Share of export
- Share of governmental revenues

*estimate

Source: Statistics Norway
Investment

Source: Statistics Norway

Facts 2001 figure 1.2
Net cash flow to the state from petroleum operations

Facts 2001 figure 1.3

Source: National account and state budget
Total petroleum production

*estimate

Source: NPD
The state organisation of petroleum operations

- Stortinget (Parliament)
  - Government
    - Ministry of Finance
    - Ministry of Petroleum and Energy
    - Ministry of Local Government and Regional Development
      - The Norwegian Petroleum Directorate

Facts 2001 figure 3.1
The organisation of petroleum operations

Facts 2001 figure 3.2
Investment

- Exploration
- Onshore
- Pipelines
- Fields

Source: Statistics Norway

Facts 2001 figure 4.1
Estimates for future investments in fields and pipelines 2001-2010

Source: MPE/NPD
State revenues from petroleum operations 1977-2000

Source: National accounts and State budget

*estimates
Employment in Norway’s petroleum sector

Fact s 2001 figure 6.1

Source: Directorate of Labour
Possible value creation from improved oil recovery

OSE*  635 bn
IOR**  470 bn

Recov factor from 44% - 57%

*Oslo Stock Exchange, February 2001
** Gross present value, size dependant on timing and volumes
Daily production and break-even prices for various upstream provinces

- **Saudi Arabia**: 9.2 million b/d, Break-even price: 1.5 USD/bbl
- **Malaysia**: 4 million b/d, Break-even price: 0.7 USD/bbl
- **Gulf of Mexico**: 3.5 million b/d, Break-even price: 3.1 USD/bbl
- **UK**: 2.8 million b/d, Break-even price: 13 USD/bbl
- **Norway**: 12 million b/d, Break-even price: 12 USD/bbl

Source: Reve / Jacobsen "Et verdiskapende Norge"
Total resource estimate

Fact s 2001 figure 7.1
Source: Norwegian Petroleum Directorate

Total resources NCS, 13 797 mill o.e
Total petroleum production 1982-2000

Fact s 2001 figure 8.1

Source: NPD
Oil production (incl. NGL/condensate) 1981-2000

Fact s 2001 figure 8.2

Source: NPD
Production forecast for petroleum 2001-2010

Facts 2001 figure 8.3

Source: NPD
Forecast for Norwegian oil production, 2001-2010

Source: Norwegian Petroleum Directorate
Delivery obligations for natural gas

Facts 2001 figure 8.3

Source: MPE
Price of Norwegian crude oil, 1975-2000

Fact s 2001 figure 9.1

Source: MPE
Production and net export of crude oil incl. NGL 2000

**Production**

- Saudi Arabia: 9
- USA: 8.18
- Russia: 6.48
- Iran: 3.75
- Mexico: 3.52
- Norway: 3.31
- China: 3.23
- Venezuela: 3.12
- UAE: 2.76
- UK: 2.73

**Net export**

- Saudi Arabia: 7.67
- Russia: 4.03
- Norway: 3.08
- Venezuela: 2.63
- Iran: 2.61
- UAE: 2.36
- Iraq: 2.09
- Nigeria: 1.9
- Kuwait: 1.83
- Mexico: 1.45

**Source:** Petroleum Economics Ltd.

Fact s 2001 figure 9.2
Shipments of Norwegian crude oil 2000*

Total 178,5 mill scm oe

Canada 5 %
France 13 %
Netherlands 15 %
Norway 16 %
Great Britain 22 %
Sweden 6 %
Germany 6 %
USA 6 %
Other 11 %

Fact s 2001 figure 9.3
*to first recipient
Source: Norwegian Petroleum Directorate
Definition of natural gas

Methane ($C_1$)
Ethane ($C_2$)
Propane ($C_3$)
Butane ($C_4$)
Pentanes and heavier fractions also referred to as:
C5 +
Natural gasoline
Condensate

LPGs
NGLs

Source: MPE
Shipment of NGL / condensate 2000*

- Belgium: 10%
- Netherlands: 14%
- Norway: 12%
- Denmark: 15%
- USA: 12%
- Germany: 7%
- Sweden: 5%
- Great Britain: 7%
- Spain: 2%
- Poland: 5%
- Other: 6%
- Finland: 1%
- France: 4%
- Great Britain: 7%

* to first recipient

Source: NPD
Norwegian gas exports 2000

Total 48,6 bn scm oe

Source: NPD
Market shares 2000

- Statoil: 32.5%
- Shell: 28.6%
- Esso: 22.2%
- Hydro/Texaco: 12.5%
- JET: 1.1%
- Other: 3.1%

Source: Norwegian Petroleum Institute
Emissions to the air

Diffusive emissions

Gas turbine exhaust

Gas flaring

Well testing

Diesel fuel exhaust

Gas venting

Facts 2001 figure 10.1
Discharges to the sea

- Seewage/household effluents
- Drains
- Drilling discharges
- Spill
- Produced water
- Cooling water
- Displacement water

Factsheet 2001 figure 10.2
Licensing round

Nomination → Announcement → Application → Award

Negotiation

Facts 2001 figure 11.1
Awards per year

Fact s 2001 figure 12.1 Source: NPD
Exploration wells completed per year

Facts 2001 figure 13.1

Kilde: NPD