

Oil & natural gas extraction data

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 Climate Mitigation Services
 File started: 11 January 2005
 Last modified: January 2010

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Norsk Hydro, Norway

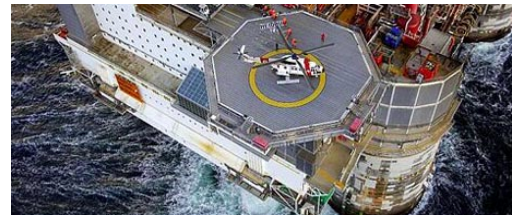
www.hydro.com Oslo

yellow column indicates original reported units **44 percent State-owned**

Production / Extraction data

Year	Crude Oil & NGL			Natural Gas				
	Net production	Net production	Net production	Net production	Net production	Net production		
	Thousand bbl /d	Million bbl /yr	Million tonnes/yr	Million cf/d	Million SCM/d	Billion cf/yr	Million tons/yr	Million tonnes/yr
		Norsk Hydro			Norsk Hydro			

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Heidrun platform NW of Trondheim



Statfjord platform NW of Bergen

potential data
 1975 to 1990
 See Statoil

	OGJ150	OGJ150
	1987-2008	1987-2008
1987	8.8	136.8
1988	14.1	115.5
1989	28.8	114.4
1990	34.2	81.8
1991	42.2	71.1
1992	47.8	68.7
1993	55.4	69.3
1994	69.7	84.6
1995	76.1	77.2
1996	81.0	103.8
1997	78.6	111.0
1998	78.0	116.0
1999	97.0	150.0
2000	326	182.1
2001	329	190.9
2002		227.0
2003		275.0
2004		312.0
2005		337.3
2006		380.2

Hydro sold petroleum assets to Statoil in Oct07
 See Statoil worksheet

Total	na	1,669	-	na	-	3,205	-	-
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Cell: I9**Comment:** Rick Heede:

Norsk Hydro ASA is a Norwegian aluminium and renewable energy company, headquartered in Oslo. Hydro is the fourth largest integrated aluminium company worldwide. It has operations in some 40 countries around the world and is active on all continents. The Norwegian state holds a 43.8 percent ownership interest in the company, which employs approximately 28,000 people. Svein Richard Brandtz?g has been the CEO since 2009. The company had a significant presence in the oil and gas industry until October 2007, when these operations were merged with rival Statoil to form StatoilHydro (in 2009 changed to Statoil). Notodden remains home to the Hydrogen Technologies division, a world leader in alkaline electrolysis technology.
Source: Wikipedia

Cell: M11**Comment:** Rick Heede:

On this worksheet we report extractive data for each company or state-owned enterprise. Three columns under crude oil and natural gas allow for data reported in one of three formats (e.g., thousand barrels per day, or million barrels per year, or million tonnes per year). Coal is normally reported in short tons or metric tonnes per year.

The subtraction of the fraction typically sequestered in petrochemicals and other non-combusted uses such as road oils, waxes, lubricants, greases, etc. Non-fuel uses are accounted for in the emission factors and applied to each entity in the oil, gas, and coal summary worksheets.

Cell: F12**Comment:** Rick Heede:

Total net worldwide crude oil plus natural gas liquids produced by each company or state-owned enterprise. Where data is available, we list net production (after royalty production is deducted). We rely on company annual reports, Form 10-k, or other company data where available. In some cases -- particularly for state-owned oil and gas companies -- we use production data from the Oil & Gas Journal in its OGJ150 and OGJ100.
Crude production includes natural gas liquids (NGL) unless noted.

Cell: J12**Comment:** Rick Heede:

Natural gas is typically reported as dry gas; natural gas liquids are reported under crude oil. Carbon dioxide is normally removed from the gas flow at the production site (see "Vented Carbon Dioxide").
"SCM/d" = standard cubic meters per day. "cf/d" = cubic feet per day.
Net production typically excludes a number of diverted gas streams. Quantities and fractions vary; ExxonMobil's exclusions are typical of the industry: "Net production available for sale quantities are the volumes withdrawn from ... natural gas reserves, excluding royalties and volumes due to others when produced, and excluding gas purchased from others, gas consumed in producing operations, field processing plant losses, volumes used for gas lift, gas injections and cycling operations, quantities flared, and volume shrinkage due to the removal of condensate or natural gas liquids production."
ExxonMobil Corporation (2004) 2003 Financial and Operating Review, www.exxonmobil.com, p. 55.

Cell: E42**Comment:** Rick Heede:

Norsk Hydro annual reports 1983-1990 show reams of charted data, but typically aggregates oil and gas in TOE accompanied by no specifics. We can derive some semblance of reasonable data from a combination of oil and gas production (data in TOE) and a chart in the 1987 report (p. 38) showing oil vs gas. Use this data unless another source can be found covering 1975 through 1986.

Cell: D67**Comment:** Rick Heede:

Oil production data from EI (2003) Top 100, p. 184.

Cell: H67**Comment:** Rick Heede:

Gas production data from EI (2003) Top 100, p. 184.