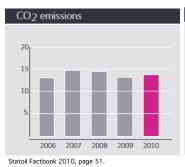


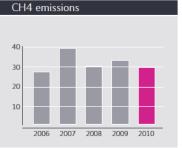
9

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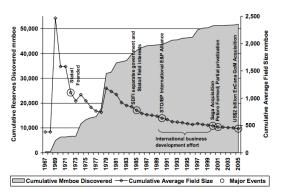
86 87





Statoil Factbook 2010, page 52.

CUMULATIVE RESERVE DISCOVERY HISTORY IN NORWAY



Gordon & Stenvoll (2007) StatOil: A Study in Political Entrepreneurship, Fig. 1.

Year ended

Download data from www.statoil.com

Sales Volumes

	For the year ended 31 December								
Entitlement production	2013	2012	2011	2010	2009	2008			
Norway									
Oil and NGL (mmbbls)	216	231	252	256	279	302			
Natural gas (bcf)	1,264	1,483 1,287 1,370		1,370	1,367	1,348			
Natural gas (bcm)				39	39	38			
Combined oil and gas (mmb	441	441 495		500	523	542			
Eurasia excluding Norway									
Oil and NGL (mmbbls)	15	17	15	18	19	n/a			
Natural gas (bcf)	72	62	48	51 49		n/a			
Natural gas (bcm)				1	1	n/a			
Combined oil and gas (mmb	28	28	23	27	28	n/a			
Africa									
Oil and NGL (mmbbls)	59	56	46	53	63	n/a			
Natural gas (bcf)	40	41	40	41	54	n/a			
Natural gas (bcm)				1	2	n/a			
Combined oil and gas (mmb	66	63	53	60	73	n/a			
America									
Oil and NGL (mmbbls)	54	50	31	26	20	n/a			
Natural gas (bcf)	196	161	59	47	48	n/a			
Natural gas (bcm)				1	1	n/a			
Combined oil and gas (mmb	89	79	41	34	29	n/a			
Outside Norway									
Oil and NGL (mmbbls)	345	353	343	n/a	n/a	85			
Natural gas (bcf)	1,571	1,748	1,434	n/a	n/a	121			
Natural gas (bcm)		-	-	n/a	n/a	3			
Combined oil and gas (mmboe)			n/a	n/a	106			
Total									
Crude oil (mmbbls) ¹	345.2	353.3	342.9	352.4	381.0	386.0			
Natural gas (bcf)	1,571.0	1,748.3	1,433.7	1,509.1	1,519.0	1,469.0			
Natural gas (bcm)	.,	.,	.,	43	43	42			
Combined oil and gas (mmb	625	665	598	621	652	648			

 $^{^{1)}}$ Crude oil includes natural gas liquids (NGL), condensate and bitumen. NGL includes both LPG and naphta.

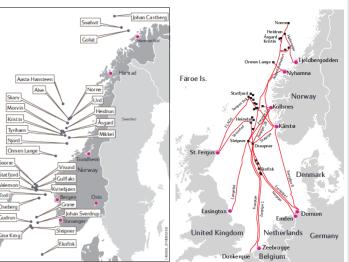
	2013	2012	2011	2010	2009	2008
Statoil: (1)						
Crude oil (mmbbls) (2)	350	351	332	354	381	372
Natural gas (bcf)	1,622	1,721	1,377	1472	1462	1387
Natural gas (bcm) (3)				41.7	41.4	39.3
(mmboe)	639	658	577	616	642	619
Third party volumes: (4)						
Crude oil (mmbbls) ⁽²⁾	303	399	333	310	257	242
Natural gas (bcf)	431	210	244	247	192	127
Natural gas (bcm) (3)				7.0	5.4	3.6
(mmboe)	380	436	376	354	291	265
SDFI assets owned by the No	orwegian State:					
Crude oil (mmbbls) (2)	155	156	162	172	200	213
Natural gas (bcf)	1,366	1,591	1,476	1,610	1,431	1,440
Natural gas (bcm) (3)				45.6	40.5	40.8
(mmboe)	398	439	425	458	455	470
Total						
Crude oil (mmbbls) (2)	809	905	827	835	838	827
Natural gas (bcf)	3,419	3,523	3,096	3,329	3,085	2,955
Natural gas (bcm) (3)				94.3	87.4	83.7
(mmboe)	1,418	1,533	1,379	1428	1388	1353
included in the table above						

included in the table abov crude oil include NGL and value (GCV) of 40 crude oil include both

Alternate production estimate for 2008								
	Thous bbl /d	Thous bbl /d Million bbl /y		Bcf/yr				
2008	1,199	438	4,647	1,696				

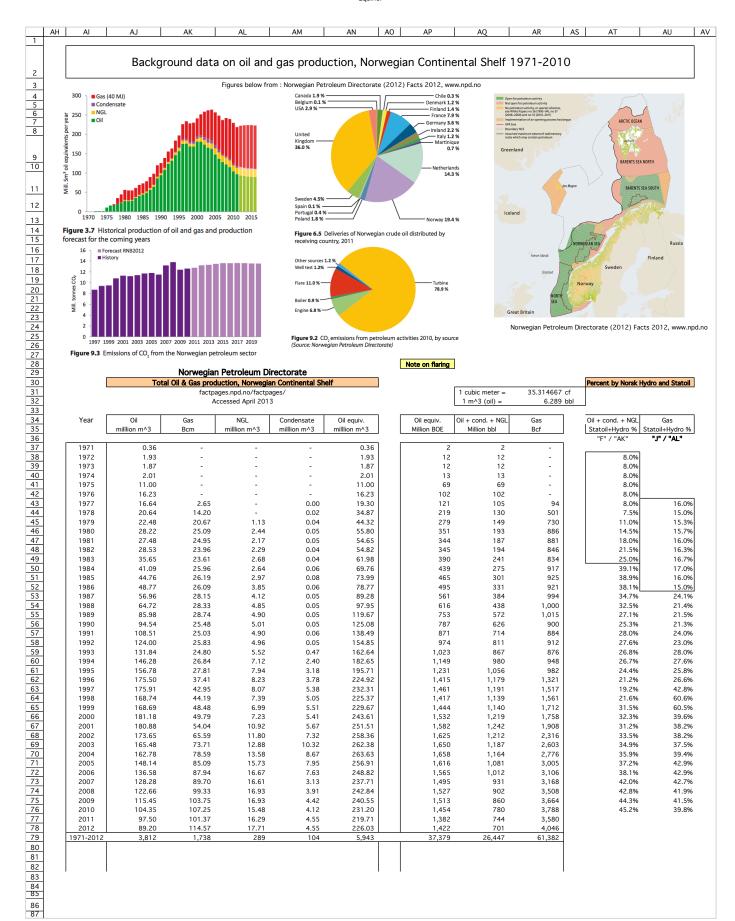
Source: Hults, & Thurber, 2012, Introduction, Table 1.1, p 24, in Victor et al, 2012, Oil and Governance.

Table 1.1 is based on information from Wood Mackenzie's Pathfinder Database; www.woodmacresearch.com



Statoil Form 20-F 2013, p. 14

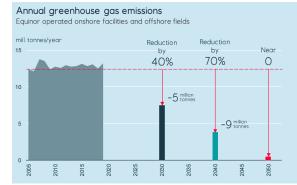
Norway's gas transport system, Statoil Factbook 2010, page 41.



AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ



https://www.equinor.com/en/about-us/our-history/about-our-name-change.html



Continued significant value creation for the company and society

- Potential to generate around NOK 3.000 billion in income for the Norwegian State towards $2030^{\rm 1}\,$

Large scale industrial measures

- Investments NOK ~50 billion²
- · Operational measures and energy efficiency
- Electrification
- · Consolidation of infrastructure
- · Zero-emission design for new fields
- · New value chains

New climate ambition 7Jan2020: near zero operational emissions by 2050.

Entitlement production

9

11

12

		Consolidated companies							Equity accounted			
	Norway Eura	nsia excluding Norway	Africa	Ameri US	cas excluding US	Subtotal	Eura: Norway	sia excluding Norway	Americas excluding US	Subtotal		
Oil and Cond	ensate (mmbbls)											
2016	169	12	72	34	26	313	2	0	4	6	320	
2017	165	10	68	38	21	302	6	0	2	8	310	
2018	155	8	57	48	29	298	5	-	-	5	303	
NGL (mmbbls	s)											
2016	46	-	2	9	-	58	0		-	0	58	
2017	48	-	4	9	0	61	-		-	-	61	
2018	46		4	12		62	0	-		0	62	
Natural gas (t	bcf)											
2016	1,338	34	60	226	0	1,659	1	0	-	2	1,661	
2017	1,515	41	72	240	0	1,868	4	0	-	5	1,873	
2018	1,502	39	84	318	5	1,949	4	-	-	4	1,953	
Combined oil	I, condensate, NGL a	and gas (mmboe)									
2016	454	18	85	83	26	666	3	0	4	7	673	
2017	483	17	85	90	21	696	6	0	2	9	705	
2018	469	15	76	116	30	707	6			6	713	

Statoil (2019) Annual Report 2018 and 20-F, page 77.



2017 AnnRpt.

Cell: H9

Comment: Rick Heede:

Statoil was incorporated as a limited liability company under the name Den Norske Stats Oljeselskap AS on 18 September 1972. As a company wholly owned by the Norwegian State, Statoil's role was to be the government's commercial instrument in the development of the oil and gas industry in Norway. In 2001, the company became a public limited company listed on the Oslo and New York stock exchanges, and it changed its name to Statoil ASA. On 1 October 2007, the oil and gas division of Norsk Hydro ASA was merged with Statoil, and the company was given the temporary name of StatoilHydro. On 1 November 2009, the company changed its name back to Statoil.

Source: www.statoil.com: history

With the Ekofisk discovery in 1969, the Norwegian oil adventure really began. Production from the field started on 15 June 1971, and in the following years a number of major discoveries were made. Exploration in the 1970s was confined to the area south of the 62nd parallel. The shelf was gradually opened, and only a restricted number of blocks were awarded in each licensing round. Foreign companies dominated exploration off Norway in the initial phase, and were responsible for developing the country's first oil and gas fields. Statoil was created in 1972, and the principle of 50 percent state participation in each production licence was established. This rule was later changed so that the Storting (parliament) can evaluate whether the level of state participation should be lower or higher, depending on circumstances.

From 1 January 1985, the State's participation in petroleum operations was reorganised. The State's participation was split in two, one linked to the company and the other becoming part of the State's Direct Financial Interest (SDFI) in petroleum operations. SDFI is an arrangement in which the State owns interests in a number of oil and gas fields, pipelines and onshore facilities. Each government take is decided when production licences are awarded and the size varies from field to field. As one of several owners, the State pays its share of investments and costs, and receives a corresponding share of the income from the production licence. The Storting resolved in the spring of 2001 that 21.5 percent of the SDFI's assets could be sold. 15 percent was sold to Statoil and 6.5 percent was sold to other licensees. The sale of SDFI shares to Statoil was seen as an important element on the way to a successful listing and privatisation of Statoil. Statoil was listed in June the same year, and now operates on the same terms as every other player on the NCS. Petoro was established in May 2001 as a state-owned limited company to manage the SDFI on behalf of the State.

At the end of 2006, 52 fields were in production on the NCS. In 2006, these fields produced 2.8 million barrels of oil (including NGL and condensate) per day and 88 billion standard cubic metres (scm) of gas. www.regjeringen.no/en/dep/oed/Subject/Oil-and-Gas/Norways-oil-history-in-5-minutes.html

Cell: M9

Comment: Rick Heede:

World Bank, 2008b, page 200L "Statoil (then StatoilHydro) is an integrated oil and gas company organized as a public limited liability company. In a 2001 decision the Storting (Norwegian Congress) required that the Norwegian state must continue to own two-thirds of Statoill-lydro. Currently the Norwegian government owns 62.5% of Statoil, which ownership interest is managed by the Ministry of Petroleum and Energy. The government plans to increase its ownership interest to 67% over time."

world Bank (2008b) A Citizen's Guide to National Oil Companies, Part B: Data Directory, World Bank, Washington, & Center for Energy Economics, Bureau of Economic Geology Jackson School of Geosciences University of Texas, Austin, 764 pp.

Cell: AA18

Comment: Rick Heede:

Gordon, Richard, & Thomas Stenvoll (2007) "Statoil: Lessons from a study of political entrepreneurship," in: The Changing Role of National Oil Companies in International Energy Markets, James Baker III Institute for Public Policy, Rice University, 2 March 2007.

Cell: AY24

Comment: Rick Heede:

Equinor new climate ambitions to reduce the absolute GHG emissions from its operated offshore fields and onshore plants in Norway by 40% by 2030, 70% by 2040 and to near zero by 2050. By 2030 this implies annual cuts of more than 5 million tonnes, corresponding to around 10% of Norway's total CO2 emissions. No mention of product emissions. Base year is 2005. 70% reduction in 2040. From ~13 MtCO2 in 2018 to ~8 MtCO2 in 2030 and ~4 MtCO2 in 20240 and near zero in 2050.

Cell: AP28

Comment: Rick Heede:

In Figure 9.2, flaring is 11 percent of ~13 million tonnes CO2. This is contrary to the vision for Norwegian petroleum development as stated by the Norwegian Parliament in 1971: Thurber & Istad (p. 642) "Ten Commandments for the Norwegian oil sector," by Storting, 1971, one of which is "The flaring of gas not to be allowed except for short testing periods."

Cell: A032

Comment: Rick Heede:

Quest Offshore Resources, Inc., www.questoffshore.com/Home/ConversionCalculator/

Cell: D33

Comment: Rick Heede:

Norsk Hydro annual reports 1983-1990 show reams of charted data, but typically aggregates oil and gas in TOF accompanied by no specifics. Oil and gas production (data in TOF) and a chart in the 1987 report (p. 38) showing oil vs gas.

We have estimated Hydro's oil production from its approximate "equity shares of NCS (Norwegian Continental Shelf) production" 1971 to 1986 -- from ~8 percent and declining to ~3.5 percent in 1986 (see percentages in column C). Approximated from Thurber & Tangen Istad, 2012, Figure 14.2 (citing Norwegian Petroleum Directorate data). This should be viewed as provisional until actual production data is found.

Thurber, Mark C., & Benedicte Tangen Istad (2012) "Norway's evolving champion: Statoil and politics of state enterprise," in Victor et al, eds, Oil & Governance, pp. 599-654.

Cell: B37

Comment: Rick Heede:

The Norwegian government increased its stake in Norsk Hydro to 51 percent at the end of 1970, and it was thought that Hydro would become Norway's primary oil company. Instead the new administration decided to creat a wholly-owned state enterprise -- Statoil, in 1972. The government also directed the remaining private Norwegian oil interests to merge in what became Saga Petroleum, which was acquired by Norsk Hydro in 1999 (although Elf Acquitaine also bid for the privately-held company).

Cell: E37

Comment: Rick Heede:

The Norwegian government directed the remaining private Norwegian oil interests (after having created Statoil and invested in Norsk Hydro) to merge into what became Saga Petroleum in ~1972, which was acquired by Norsk Hydro in 1999 (although Elf Acquitaine also bid for the privately-held company).

We do not have a complete record of Saga's oil and gas production, but Oil & Gas Journal OGJ 100, Sep1993, shows 1992 oil production of 29.5 million bbl, 23.3 million bbl in 1991; gas production totaled 17.1 Bcf in

1992, and 12.4 Bcf in 1991. Inasmuch as our protocol attributes previous oil and gas production to the acquiring entity, it is safe to suggest that Statoil's total undercounts production by a 200-300 million bbl or more.

Cell: AT38

Comment: Rick Heede:

These percentages are calculated by CMS for 1972-1983.

Cell: H39

Comment: Rick Heede:

According to the Norwegian Petroleum Directore, natural gas production started in 1977. We have roughly estimated the gas production by both Norsk Hydro and Statoil for 1977 to the Oil & Gas Journal estimates (starting in 1987). WE do not, however, have production data from either Hydro or Statoil for these years, and the allocation between companies may be inaccurate. However, the sum of both companies' production (column J) is considerably below the percentage of total NCS production attributed to Hydro + Statoil (based on O&GJ estimates); see the calculations in column AO on page 3. Also see details in the oil production calculations for Hydro (1971-1986) and Statoil (1979-1983) in cell notes D33 and E41, respectively.

Cell: 139

Comment: Rick Heede:

See comment in cell note H39.

Cell: E41

Comment: Rick Heede:

We do not have Statoil equity production data for 1979 to 1986, and approximate production from its equity perceentage share of NCS and total NCS production.

We have estimated Statoll's oil production from its approximate "equity shares of NCS (Norwegian Continental Shelf) production" 1979 to 1986 -- from ~4 percent and increasing to ~16 percent in 1983 (see percentages in column C). Approximated from Thurber & Tangen Istad, 2012, Figure 14.2 (citing Norwegian Petroleum Directorate data).

This should be viewed as provisional until actual production data is found, or provided by Statoil.

Thurber, Mark C., & Benedicte Tangen Istad (2012) "Norway's evolving champion: Statoil and politics of state enterprise," in Victor et al. eds. Oil & Governance, pp. 599-654.

Cell: AU43

Comment: Rick Heede:

These percentages are calculated by CMS for 1977-1986.

Cell: E50

Comment: Rick Heede:

Ambiguous data in Statoil's annual report for 1984. Mentions production by field (but no equity production data), "Statoil's total access to crude increased in 1984 ... exceeded 13 million tonnnes" p. 12 (but does not define access), etc.

Takes the datum cited for "access" to crude oil of 13 million tonnes @ 7.33 bbl per tonne = 94.9 million bbl.

Cell: E51

Comment: Rick Heede:

CMS interpolated for 1985-1986 and 1989.

Cell: B56

Comment: Rick Heede:

Statoil joined forces with BP from 1990 to 1999 to explore and produce oil and gas internationally, in Kazakhstan, Azerbaijan, Vietnam, China, Angola, Nigeria, and Algeria; assets in Kazakhstan and Vietnam were later sold. Statoil is one the most internationalized of state-owned National Oil Companies. Thurber and Tangen Istad, 2012, page 622.

Cell: 163

Comment: Rick Heede:

Estimate not available from OGJ100, CMS interpolates.

Cell: B67

Comment: Rick Heede:

While Statoil was partially privatized in 2001, Thurber and Tangen Istad believe the Norwegian government will retain "more than two-thirds stake in Statoil for the foreseeable future." (2012, page 603."

Cell: D73

Comment: Rick Heede (Jan10):

Hydro (previously Norsk Hydro) sold its oil & gas assets to StatOil as of October 2007.

Cell: E74

Comment: Rick Heede

AR 2010 online http://www.statoil.com/AnnualReport2010/en/QurOperations/ProductionVolumesAndPriceInformation/Pages/EntitlementProduction.aspx: updated 2008 production

Cell: F74

Comment: Rick Heede:

Statoil Group, Oil and Gas entitlements production by geographical areas 2008-2013, crude oil & NGLs, million bbl; www.statoil.com/en/InvestorCentre/AnnualReport/AnnualReport2013/Pages/DownloadCentre.aspx

Cell: 174

Comment: Rick Heede

AR 2010 online, link in oil comment, 2008 value consistent

Comment: Rick Heede:

Statoil Group, Oil and Gas entitlements production by geographical areas 2008-2013, Bcf; www.statoil.com/en/InvestorCentre/AnnualReport/AnnualReport2013/Pages/DownloadCentre.aspx

Cell: T74

Comment: Rick Heede:

Statoil "working interest liquids production in 2008" at 1,199 thousand bbl per day.

Victor, Hults, & Thurber, 2012, Introduction, Table 1.1, page 24, in Victor et al, eds, 2012, Oil and Governance. Table 1.1 is based on information from Wood Mackenzie's Pathfinder Database; www.woodmacresearch.com

Cell: V74

Comment: Rick Heede:

Statoil "working interest natural gas production in 2008" at 4,647 thousand cf per day. Victor, Hults, & Thurber, 2012.

Cell: D77

Comment: Rick Heede:

Statoil Form 20-F for 2014, page 47, "entitlement production" of crude oil, condensate, and NGLs, in million bbl per year.

Comment: Rick Heede:

Cell: E77

Oil & Gas Journal OGJ100, Sep13 and Sep14.

Cell: 177

Comment: Rick Heede:

Oil & Gas Journal OGJ100, Sep13 and Sep14.

Cell: 180

Comment: Rick Heede:

Statoil Form 20-F for 2014, page 47, natural gas (Bcf).

Cell: D81

Comment: Rick Heede

Statoil (2018) Annual Report 2017, page 51: Consolidated companies production of oil & condensate, and NGL, by geographic region (total 310 Mb in 2017). Includes entitlement production from Troll field (16 Mb in 2017)

Cell: 182

Comment: Rick Heede:

Statoil Annual Report & 20-F 2016, page 49. Natural gas totals 1,661 Bcf, of which 1,338 Bcf Norway, Eurasia 34 Bcf, Africa 72 Bcf, Americas 227 Bcf.

Cell: 183

Comment: Rick Heede:

Statoil (2018) Annual Report 2017, page 51: Consolidated companies production of natural gas, by geographic region. Includes entitlement production from Troll field (384 Bcf).

Cell: D84

Comment: Rick Heede

Statoil (2019) Annual Report 2018 and 20-F, page 77, in Mb per year: 303 Mb oil and condensate, plus 62 Mb of NGLs.

Cell: 184

Comment: Rick Heede:

Statoil (2019) Annual Report 2018 and 20-F, page 77, in Bcf per year: 1.953 Bcf (and 1.873 Bcf in 2017), Of 2018 gas production, 1.502 Bcf in Norway, 318 Bcf in US, and the remainder in Africa, Eurasia,