

# Oil & natural gas extraction data

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Climate Mitigation Services  
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## OAO LUKOIL, Russian Federation

www.lukoil.com

Moscow

yellow column indicates original reported units

Investor-owned

### Production / Extraction data

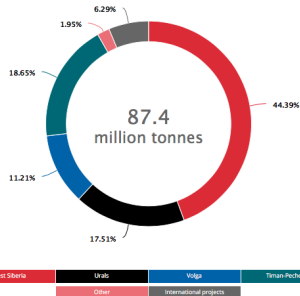
Year

Year	Crude Oil & NGL			Natural Gas			other	
	Net production	Net production	Net production	Net production	Net production	Net production	Production	Production
	Million tonnes/yr	Million bbl/yr	Million bbl/yr	Million SCM/d	Bcf/yr	Bcf/yr		

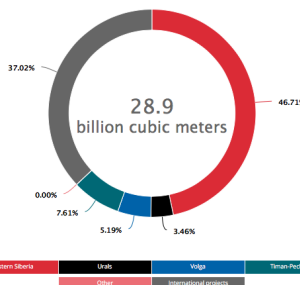
Lukoil; 14.1% SOE



OIL PRODUCTION STRUCTURE IN 2017



GAS PRODUCTION STRUCTURE IN 2017

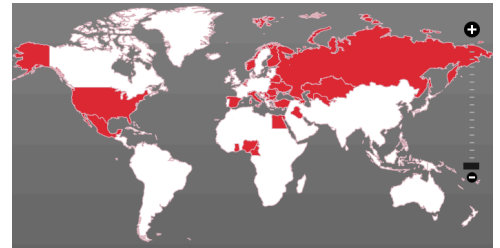


online data, 2017 only (Apr19)

#### MAIN FACTS IN 2015

Proved oil reserves, mln barrels	12,585
Proved gas reserves, bln feet <sup>3</sup>	23,838
Proved hydrocarbon reserves, mln boe	16,558
Liquids production, mln barrels	749
Marketable gas production, mcm	20,251
Production of marketable hydrocarbons, th. boe per day	2,379
Net income in Exploration and Production segment, RUB bln	107
EBITDA in Exploration and Production segment, RUB bln	489
Capital expenditures in Exploration and Production segment, RUB bln	488
Average personnel numbers in Exploration and Production segment, th. people	34.9

1 SCM =	35.315	cubic feet
1 tonne oil	7.330	bbl
bcm-	35.315	bcf



Year	OGJ100		OGJ100		Lukoil AnnRpt		Lukoil AnnRpt	
	million bbl /yr	million SCM/yr	Bcf /yr	million SCM/yr	petroleum million tonnes/yr	natural gas million SCM/yr	Bcf/yr	
1996	431	431	119	119				
1997	438	438	135	135				
1998	469	469	166	166				
1999	554	554	137	137				
2000	570	570	165	165				
2001	570	542	116	116	73.9	3,285	116.0	
2002	564	564	126	126	77.0	3,568	126.0	
2003	592	588	133	133	80.2	3,766	133.0	
2004	634	632	174	174	86.2	4,924	173.9	
2005	664	661	199	199	90.2	5,635	199.0	
2006	703	698	481	481	95.2	13,612	480.7	
2007	713	708	341	493	96.6	13,955	492.8	
2008	703	698	601	601	95.2	17,020	601.1	
2009	720	716	526	526	97.6	14,898	526.1	
2010	708	704	655	655	96.0	18,554	655.2	
2011	649	666	754	637	90.9	18,038	637.0	
2012	677	659	656	704	89.9	19,934	704.0	
2013	664	666	963	827	89.8	23,411	826.7	
2014	656	713	819	819	97.2	23,188	818.9	
2015	749	738	846	846	100.7	23,966	846.3	
2016	665	674	850	880	92.0	24,922	880.1	
2017		641		1,019	87.4	28,861	1,019.2	
2018		639		1,185	87.1	33,543	1,184.6	
<b>Total</b>	<b>13,144</b>	<b>14,367</b>	<b>10,976</b>					

	2013	2014	2015	2016	2017
<b>Oil and gas condensate production</b>					
Total, th. t	90,807	97,208	100,688	91,992	87,414
Total, th. t/day	249	266	276	251	239
Total, Kbpd	1,836	1,954	2,018	1,848	1,768
<b>Total, mln bbl</b>	<b>670</b>	<b>713</b>	<b>736</b>	<b>676</b>	<b>645</b>
<i>Subsidiaries</i>	640	686	712	655	625
Russia	626	631	624	604	596
International projects	14	55	88	51	29
<i>Share in production by affiliates</i>	30	27	24	21	20
Россия	3	4	5	8	7
Международные проекты	27	23	19	13	13



**Gas Production**

	2013	2014	2015	2016	2017
Mcm	23,411	23,188	23,966	24,922	28,861
Bcf	827	819	846	880	1,019
Mln boe	138	136	141	147	170
Mcm/day	64	64	66	68	79
Mcf/day	2,265	2,243	2,319	2,405	2,792
Kbpd	378	374	386	401	465

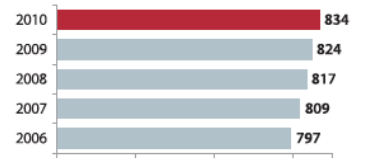
Lukoil Factbook 2017, data for 2013-2017

**Operating regions**



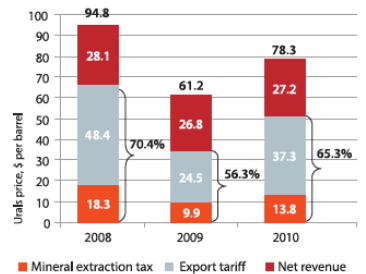
Lukoil Fact Book 2013, page 6.

**HYDROCARBON PRODUCTION, million boe**

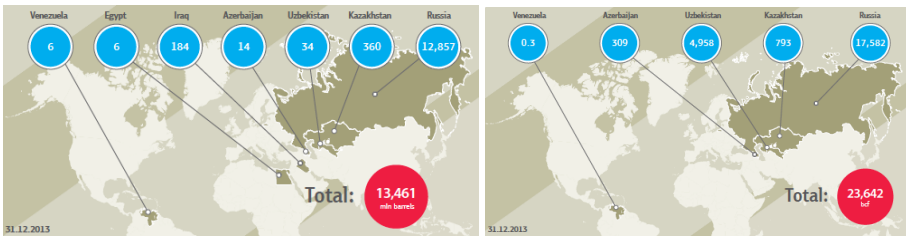


LUKOIL Annual Report 2010, page 5.

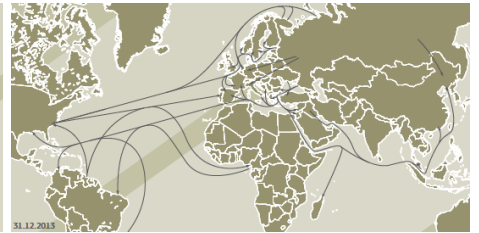
**REVENUE STRUCTURE OF A RUSSIAN CRUDE OIL EXPORTER, \$ per barrel**



LUKOIL Annual Report 2010, page 14.



Lukoil Fact Book 2013, pages 12 and 13.



Product trade routes; Lukoil Fact Book 2013, pages 17.

**Oil production by LUKOIL Group**

	2010	2011	2012	2013	2014
Th. Tonnes	95,992	90,917	89,856	90,807	97,208
Mln barrels	708	671	663	670	713
Th. Tonnes per day	263	249	246	249	266
Th. Barrels per day	1,940	1,840	1,813	1,836	1,954

**Total gas production by LUKOIL Group, mcm**

	2010	2011	2012	2013	2014
Total production of gas	21,328	22,023	24,606	25,868	26,144
Total production of marketable gas <sup>1</sup>	18,554	18,037	19,934	20,391	19,968

Lukoil Databook for Analysts 2014.

**Cell:** I9**Comment:** Rick Heede:

By the resolution of the USSR Council of Ministers No.18 of November 25, 1991, a state-owned oil concern "LangepasUraiKogalymneft" (LUKOIL) was set up. An open joint stock company "OAO "LUKOIL" Oil Company" was founded in accordance with the Decree No.1403 dated November 17, 1992 of the RF and by the Resolution of the RF Government No.229 of April 5, 1993. The Consolidated Privatization Plan was approved and first issue of LUKOIL shares was registered. [www.lukoil.com/history](http://www.lukoil.com/history)  
 Also see: Gorst, Isabel (2007) Lukoil: Russia's Largest Oil Company, Financial Times of London, Baker Institute for Public Policy, Rice Univ., 42 pp.

**Cell:** M9**Comment:** Rick Heede:

Privately owned, whose share capital is dominated by minority shareholders. LUKOIL Factbook 2010, page 18.  
 Lukoil was 14.1 percent state-owned in the early 2000s (Energy Intelligence 2002, p. 167.)

**Cell:** D11**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 U.S. or metric tonnes per year.  
 Note: the carbon content of the extracted resources is adjusted by a number of factors before emissions estimates are made in the worksheet 1 to the left. Most important is the subtraction of the fraction typically sequestered in petrochemicals and other non-combusted uses such as road oils, waxes, lubricants, greases, etc. See the comment for each extracted resource for detailed discussions of the combusted vs sequestered fractions.

**Cell:** D12**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 gross production (before royalty production is netted out). More often, however, oil companies report production net of royalty production.  
 Crude production includes natural gas liquids (NGL) unless noted.

**Cell:** H12**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.

**Cell:** F15**Comment:** Rick Heede:

Lukoil was 14.1 percent state-owned in the early 2000s (Energy Intelligence 2002, p. 167.)

**Cell:** B57**Comment:** Rick Heede:

By the resolution of the USSR Council of Ministers No.18 of November 25, 1991, a state-owned oil concern "LangepasUraiKogalymneft" (LUKOIL) was set up. An open joint stock company "OAO "LUKOIL" Oil Company" was founded in accordance with the Decree No.1403 dated November 17, 1992 of the RF and by the Resolution of the RF Government No.229 of April 5, 1993. The Consolidated Privatization Plan was approved and first issue of LUKOIL shares was registered.

**Cell:** B58**Comment:** Rick Heede:

Lukoil.com 1992 • There is a Presidential Edict ?1403, issued on November 17, 1992, "Peculiarities of privatization and reorganization of state enterprises, production and science-production associations of oil and oil refining industry and petroleum products marketing enterprises into joint stock companies". LUKOIL's share capital is shaped in conformity with the given Edict.

**Cell:** B59**Comment:** Rick Heede:

Lukoil.com 1993 • An open joint stock company "OAO "LUKOIL" Oil Company" was founded in accordance with the Decree No.1403 dated November 17, 1992 of the RF and by the Resolution of the RF Government No.229 of April 5, 1993. • The Consolidated Privatization Plan was approved and first issue of LUKOIL shares was registered.

**Cell:** B60**Comment:** Rick Heede:

Lukoil.com 1994 • First voucher auctions for the LUKOIL shares were completed and organized trading of the Company's shares in the secondary market began. • LUKOIL acquired 10% participating interest in the exploration of the Azeri-Chirag-Gyunesli oil field, a major one in the Azerbaijan sector of the Caspian Area.

**Cell:** B61**Comment:** Rick Heede:

Lukoil.com 1995 • In compliance with the Resolution of the RF Government ? 861 dated September 1, 1995 the Company's charter capital is entrusted with interests of nine oil-producing, distribution and service companies of Western Siberia, Urals and theVolga region. • American Atlantic Richfield Company (ARCO) became a major shareholder and a strategic partner of OAO LUKOIL. • LUKOIL partook in the Meleya ( Egypt) and Kumkol ( Kazakhstan ) projects.

**Cell:** B62**Comment:** Rick Heede:

Lukoil.com 1996: • LUKOIL launched construction ?f its own tanker fleet. • LUKOIL placed the American Depositary Receipts (ADR) on the international stock market. • LUKOIL acquired 5% participating interest in the Shah-Deniz international project (Azerbaijan).

**Cell:** B63**Comment:** Rick Heede:

Lukoil.com 1997: • LUKOIL completed full consolidation of shares of its main subsidiaries. • LUKOIL placed convertible bonds on the international stock market. • LUKOIL acquired 15% participating interest in the international project on the Karachaganak oil field development (Kazakhstan). • LUKOIL and the Iraqi Oil Ministry signed the Development and Operation Contract for the second extension of the Zapadnaya Kurna oil field. • LUKOIL signed the Agreement on the exploration, development and production sharing in the D-22 offshore Block (Azerbaijan).

**Cell:** B64**Comment:** Rick Heede:

Lukoil.com 1998: • LUKOIL acquired the Petrotel Refinery (Romania). • LUKOIL acquired OAO Stavropolimer.

**Cell:** B65**Comment:** Rick Heede:

Lukoil.com 1999: • LUKOIL acquired OAO KomiTEK . • LUKOIL acquired the Odessa Refinery (the Ukraine). • LUKOIL acquired the Saratov Petrochemical Complex. • LUKOIL acquired the Neftokhim Refinery.

**Cell:** D65**Comment:** Rick Heede:

Original oil and gas production from Lukoil (2004) Analyst Databook 2004, pp. 30-36, at [www.lukoil.com](http://www.lukoil.com)

**Cell:** I65**Comment:** Rick Heede:

OGJ (2001) OGJ100 reports 166 Bcf for Lukoil in 1999, whereas Lukoil reports 137 Bcf (converted from 10.6 million cm/d).

**Cell:** B66**Comment:** Rick Heede:

Lukoil.com 2000: • LUKOIL discovered a new oil field in the Northern Caspian. • LUKOIL acquired Getty Petroleum Marketing, Inc. (USA).

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

Lukoil group output 2001-2013 production data, excel worksheet, downloaded Oct14, in million tonnes per year.

**Cell:** I69

**Comment:** Rick Heede:

Lukoil reports 200 billion cf in 2003. OGJ100 (2004) reports 126 billion cf.

**Cell:** H75

**Comment:** Rick Heede:

AR 2010 pdf pg 41, production in billion cubic meters

**Cell:** D79

**Comment:** Rick Heede:

Lukoil Faactbook 2017, xls, data for 2013 - 2017 in column "M".

**Cell:** F79

**Comment:** Rick Heede:

Lukoil FactBook 2017, xls, crude oil and condensate in column "M" and Mt in column "D".

**Cell:** H79

**Comment:** Rick Heede:

Lukoil DataBook 2017, xls data for 2013 - 2017, in Bcf and Mcm. Lukoil converts gas to liquids at 6,000 cf per bbl.

**Cell:** L79

**Comment:** Rick Heede:

Lukoil FactBook 2017, xls data: Natural gas liquids at Group gas processing plants, in Mb.

**Cell:** M80

**Comment:** Rick Heede:

Lukoil Databook for Analysts 2014, page 21. unclear whether this excludes 14 million bbl of NGL production at gas plants (listed in separate toable, page 21).

**Cell:** E81

**Comment:** Rick Heede:

Lukoil Fact Book 2015, page 8: Liquids production 749 Mb, marketable production of natural gas 20.251 million cubic meters.

**Cell:** D84

**Comment:** Rick Heede:

Lukoil Databook 2018, excel "production" for 2014 to 2018, in thousand tonnes per day (column "M") and NGL (in Mb per year).

**Cell:** H84

**Comment:** Rick Heede:

Lukoil Databook 2018, excel "production" for 2014 to 2018, gas production in million cubic meters per year (33.543 Bcm = 1,085 Bcf). 16 of 34 Bcm international project.