

Oil, gas, & coal extraction data

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Climate Mitigation Services
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Polish Oil & Gas Company

yellow column indicates original reported units

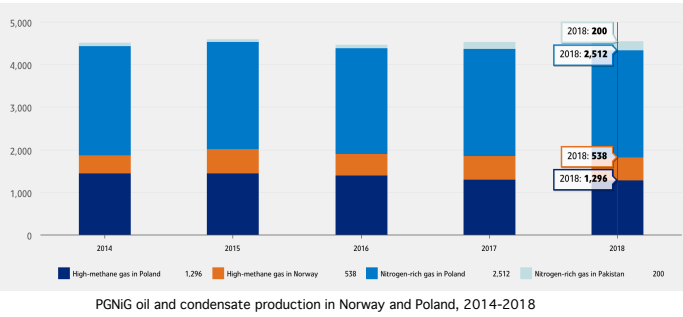
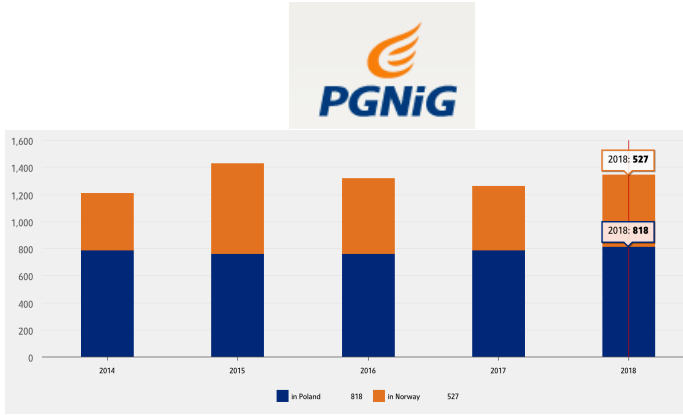
73% SOE

www.pgnig.pl Warsaw

Production / Extraction data

Year	Crude Oil & NGL			Natural Gas			Background data	
	Net production	Net production	Net production	Net production	Net production	Net production		
	thousand tonnes	Million bbl /yr	Million bbl /yr	Billion cm	Billion cf/yr	Billion cf/yr		

- 16 1950
- 17 1951
- 18 1952
- 19 1953
- 20 1954
- 21 1955
- 22 1956
- 23 1957
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- 68 2002
- 69 2003
- 70 2004
- 71 2005
- 72 2006
- 73 2007
- 74 2008
- 75 2009
- 76 2010
- 77 2011
- 78 2012
- 79 2013
- 80 2014
- 81 2015
- 82 2016
- 83 2017
- 84 2018



Resolve the disagreement between OGI and company data

thousand tonnes	OGI	100	OGI	100
Oil & Gas Journal	1.50	1.5	Oil & Gas Journal	158.90
Oil & Gas Journal	1.60	1.6	interpolated	153.03
interpolated	2.50	2.5	interpolated	147.17
Oil & Gas Journal	3.40	3.4	Oil & Gas Journal	141.30
Oil & Gas Journal	3.40	3.4	Oil & Gas Journal	141.30
interpolated	54.03	54.0	interpolated	145.03
interpolated	104.67	104.7	interpolated	148.77
Oil & Gas Journal	155.30	155.3	Oil & Gas Journal	152.50
Oil & Gas Journal	136.40	136.4	Oil & Gas Journal	151.90
Oil & Gas Journal	133.50	133.5	Oil & Gas Journal	151.90
interpolated	131.70	131.7	interpolated	148.35
Oil & Gas Journal	129.90	129.9	Oil & Gas Journal	144.80
501 PGNiG AnnRpt	3.7	3.7	4.22 PGNiG AnnRpt	149.0
468 PGNiG AnnRpt	3.5	3.5	4.33 PGNiG AnnRpt	152.9
492 PGNiG AnnRpt	3.6	3.6	4.32 PGNiG AnnRpt	152.5
1,099 PGNiG AnnRpt	8.1	8.1	4.58 PGNiG AnnRpt	161.8
1,207 PGNiG Databook	8.9	8.9	4.50 billion cubic meters	159.0
1,428 PGNiG Databook	10.6	10.6	4.59 PGNiG Databook	162.1
1,318 PGNiG Databook	9.7	9.7	4.46 PGNiG Databook	157.4
1.26 PNG in Numbers	9.3	9.3	4.54 PNG in Numbers	160.2
1.35 PNG AnnRpt 2018	9.9	9.9	4.55 PNG AnnRpt 2018	160.5

1 cubic meter = 35.314667 cf

1 tonne = 7.389 bbl

Total	na	728	925	na	1,785	3,201
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Wydobycie gazu, ropy naftowej i innych produktów / Production of gas, crude oil and other products

	2017	2016	2015	2014	2013
mln m ³ / mcm					
Gaz wysokometanowy / High-methane gas	1 863	1 918	2 027	1 876	1 890
Gaz zaazotowany* / Nitrogen-rich gas*	2 674	2 540	2 564	2 627	2 692
Razem gaz ziemny / Total natural gas	4 537	4 458	4 591	4 503	4 582
lys. t / ths tons					
Ropa naftowa, kondensat i NGL / Crude oil, condensate and NGLs	1 257	1 318	1 428	1 207	1 099
Razem gaz ziemny, ropa naftowa, kondensat i NGL w mln boe / Total natural gas, crude oil, condensate and NGL in mboe	39	39	41	38	38

Polish Oil & Natural Gas Company In Numbers 2017, page 20.



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

The PGNiG Group is the leader of the Polish natural gas market, with approximately 32 thousand employees. Apart from Poland, where the -PGNiG Group is one of the largest employers, we operate in various countries on many continents, including: Belgium, Denmark, Egypt, Norway, Pakistan, Russia, Kazakhstan, Uganda, the Czech Republic, Austria, Germany, Belarus, Ukraine and Hungary. PGNIG SA is the largest Polish oil and gas exploration and production company. It is a leader in natural gas segments in Poland that are trade, distribution, oil and gas exploration and production as well as gas storage and processing.
 PGNIG website: www.pgnig.pl/reports/annualreport2011/en/pgnig-in-numbers.html
 The Polish Oil & Gas Company holds interests in Norway, Denmark, Libya, Egypt, and Pakistan.
 Annual report 2010, page 19.
 Wikipedia states that PGNIG was established in 1976.

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

PGNiG, whose stock was floated on September 23rd 2005, is one of the largest Polish companies listed on the Warsaw market. In July 2010 the Company's free float increased from 15% to 27%.
 PGNIG Annual report 2010, page 20.

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 net 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.
 Net production typically excludes a number of diverted gas streams. Quantities and fractions vary; ExxonMobil's exclusions are probably 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: E57**Comment:** Rick Heede:

Company website, html version:
 PGNIG Integrated Report 2018
 2018 / Operations in 2018 / Exploration and production / Segment's figures

Cell: E63**Comment:** Rick Heede:

Oil & Gas Journal data for 1998 - 2009, except interpolated years. PGNIG Annual Report for 2010 (no data series, 2010 data only).
 Inasmuch as the PGNIG datum for 2010 is a fraction of the oil production reported in Oil & Gas Journal, the OJ must be viewed as potentially erroneous and may be revised if company can provide accurate production data for 1976-2009.

Cell: I63**Comment:** Rick Heede:

Oil & Gas Journal data for 1998 - 2009, except interpolated years. PGNIG Annual Report for 2010 (no data series, 2010 data only).
 The PGNIG datum for 2010 is in good agreement with the oil production reported in Oil & Gas Journal,

Cell: D77**Comment:** Rick Heede:

Polish Oil & Gas AnnRpt 2013, page 39, in thousand tonnes of crude oil and condensate.

Cell: D80**Comment:** Rick Heede:

Polish Oil & Gas Co., Databook for Q3 2017; Operating data worksheet, for 2013-2016, in Mtpy.

Cell: H80**Comment:** Rick Heede:

Polish Oil & Gas Co., Databook for Q3 2017; Operating data worksheet, for 2013-2016, in Bcm (sum of "high-methane" and "nitrogen-rich gas" in E equivalent, Poland, Norway, and Pakistan. Excludes, of course, imports of gas for re-sale.

Cell: D83**Comment:** Rick Heede:

Polish Oil & Natural Gas Company In Numbers 2017, page 20. Crude oil, condensate, and NGLs, 2013-2017, in thousand tonnes per year.
<https://en.pgnig.pl/documents/1910852/2441297/PGNiG-w-liczbach-2017.pdf/ef143f89-8503-4506-ad56-a455956968f9>

Cell: H83**Comment:** Rick Heede:

Polish Oil & Natural Gas Company In Numbers, page 20, High-methane (1.863 billion cubic metres, Bcm) in 2017) and nitrogen-rich (2.674 Bcm) gas 2013-2017. Converted to Bcf.

Cell: D84**Comment:** Rick Heede:

Company website, html version:
 PGNIG Integrated Report 2018: Operations in 2018 / Exploration and production / Segment's figures.
 See production charts above for oil (and condensate 2014-2018, and gas production. We convert to Mt of liquids (and Mb), and Mcm to Bcf.

Cell: N173**Comment:** Rick Heede:

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