### Oil, gas, & coal extraction data

**Richard Heede**  
Climate Mitigation Services  
File started: 11 January 2005  
Last modified: June 2019

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**AOA Novatek**  
www.tnk.ru  
Tyumen

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#### Production / Extraction data

<table>
<thead>
<tr>
<th>Year</th>
<th>Crude Oil &amp; NGL</th>
<th>Natural Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Net production</td>
<td>Net production</td>
</tr>
<tr>
<td></td>
<td>Thousand bl/d</td>
<td>million tonnes/y</td>
</tr>
<tr>
<td>2000</td>
<td>2.00</td>
<td>15</td>
</tr>
<tr>
<td>2001</td>
<td>2.80</td>
<td>21</td>
</tr>
<tr>
<td>2002</td>
<td>2.60</td>
<td>19</td>
</tr>
<tr>
<td>2003</td>
<td>2.50</td>
<td>18</td>
</tr>
<tr>
<td>2004</td>
<td>2.50</td>
<td>18</td>
</tr>
<tr>
<td>2005</td>
<td>2.40</td>
<td>19</td>
</tr>
<tr>
<td>2006</td>
<td>3.00</td>
<td>22</td>
</tr>
<tr>
<td>2007</td>
<td>3.60</td>
<td>26</td>
</tr>
<tr>
<td>2008</td>
<td>4.10</td>
<td>30</td>
</tr>
<tr>
<td>2009</td>
<td>4.30</td>
<td>32</td>
</tr>
<tr>
<td>2010</td>
<td>4.80</td>
<td>35</td>
</tr>
<tr>
<td>2011</td>
<td>6.00</td>
<td>44</td>
</tr>
<tr>
<td>2012</td>
<td>8.10</td>
<td>67</td>
</tr>
<tr>
<td>2013</td>
<td>11.77</td>
<td>86</td>
</tr>
<tr>
<td>2014</td>
<td>11.80</td>
<td>86</td>
</tr>
</tbody>
</table>

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**Novatek, founded 1994; OAO FIK Novafininvest**

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**Tecton**  
Production includes share in production of joint ventures

**Note:**  
1 SCM = 35.315 cubic feet  
1 tonne oil = 7.330 bbl  
1 bcm = 33.15 bcf  

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**Total**

<table>
<thead>
<tr>
<th>Year</th>
<th>Crude Oil &amp; NGL</th>
<th>Natural Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>na</td>
<td>86</td>
</tr>
<tr>
<td>2001</td>
<td>637</td>
<td>na</td>
</tr>
<tr>
<td>2002</td>
<td>803</td>
<td>25,955</td>
</tr>
</tbody>
</table>
Since 2016 natural gas production incl gas volumes consumed in oil & gas production and development (primarily, as fuel gas).


Novatek OAO

Cell: M9
Comment: Richard Heede:
Founded 1984, Novatek is a public company with shares traded on the London and Moscow stock exchanges. The major shareholders of Novatek are Leonid Michelson, the CEO, with around 28% of the shares, Volga Group with 23% of shares, Total SA with 16% and Gazprom with 9.4%. Source: Wiki (Jan19)

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.

Oil & Gas Journal Data Book (our primary source for oil and gas production from 1988 through 2003) reports 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").

*SCF/d* = standard 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 sum of the following: Production after royalties and other deductions. Sales of natural gas and natural gas liquids. Sales of crude oil, condensate, and other hydrocarbons.


Cell: L12
Comment: Rick Heede:
Coal production by coal mining companies and state-owned enterprises, including subsidiaries of oil and gas companies.

Coal types produced are not ordinarily reported by coal operators (except for metallurgical coal). We distinguish, where possible and reasonably well known, between hard and soft coals, especially for the larger companies operating in regions such as Australia and India where soft coals are predominant. Soft coals have a much lower carbon content per tonne than do hard coals. See "Coal" under "Extractive Activities" in each sheet 1 for details.

Cell: E69
Comment: Richard Heede:

Cell: E80
Comment: Rick Heede:
Novatek production data for 2014 to 2018, in million tonnes of gas condensate and crude oil.

Since 2016 natural gas production includes gas volumes consumed in oil and gas production and development activities (primarily, as fuel gas).

Cell: I80
Comment: Rick Heede:
Novatek production data for 2014 to 2018, in billion cubic metricres (Bcm) per year: http://www.novatek.ru/en/business/production/

Since 2016 natural gas production includes gas volumes consumed in oil and gas production and development activities (primarily, as fuel gas).

Cell: N187
Comment: Rick Heede:
OilGasENI_NorskHydro.xls