MINERAL AND RAW MATERIAL BASE DEVELOPMENT

GAS PRODUCTION

GAS TRANSMISSION SYSTEM DEVELOPMENT
Distribution of Explored Gas Reserves (A+B₁+C₁) as of January 1, 2019

Gazprom’s share in global gas reserves 17%

Gazprom’s share in Russian gas reserves 71%

Gazprom’s recoverable A+B₁+C₁ reserves amount to 35.2 trln m³ of gas

Gazprom’s share in Russian gas reserves

17% 26.4%

Gazprom’s share in Russian gas reserves

71.1% 2.5%

Independent producers

Undistributed subsoil reserves

Gazprom’s share in global gas reserves 17%

Gazprom’s share in Russian gas reserves 71%
Main Exploration Areas in Russian Federation

- Yamal Peninsula
- Ob and Taz Bays, Nadym-Pur-Taz region
- Nenets Autonomous Area
- Kara, Barents and Pechora Sea shelves
- Kamchatka Peninsula
- Sakhalin shelf
- Republic of Sakha (Yakutia)
- Krasnoyarsk Territory
- Irkutsk Region
- Astrakhan dome and Caspian trench boundaries
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- Astrakhan dome and Caspian trench boundaries
Gazprom Group’s Mineral and Raw Material Base

Gazprom Group’s recoverable reserves under Russian classification

<table>
<thead>
<tr>
<th>Year</th>
<th>Gas, bln m³</th>
<th>Condensate, mln t</th>
<th>Oil, mln t</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AB₁C₁</td>
<td>B₂C₂</td>
<td>AB₁C₁</td>
</tr>
<tr>
<td>01.01.2019</td>
<td>35,195.3</td>
<td>13,341.4</td>
<td>48,536.7</td>
</tr>
</tbody>
</table>

Gazprom Group’s proven and probable reserves under international classification (PRMS)

<table>
<thead>
<tr>
<th>Year</th>
<th>Gas, bln m³</th>
<th>Condensate, mln t</th>
<th>Oil, mln t</th>
</tr>
</thead>
<tbody>
<tr>
<td>01.01.2019</td>
<td>24,255.1</td>
<td>1,090.2</td>
<td>1,335.4</td>
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</tbody>
</table>
### Gazprom Group’s Exploration Activities in 2018

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Exploratory drilling thous. m</th>
<th>Number of constructed wells</th>
<th>2D seismic surveys, thous. linear km</th>
<th>3D seismic surveys, thous. km²</th>
<th>Exploration budget (VAT incl.), RUB bln</th>
<th>Addition of explored reserves (AB₁C₁)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Gas, bln m³</td>
</tr>
<tr>
<td>in Russia</td>
<td>157.6</td>
<td>25</td>
<td>5.7</td>
<td>9.5</td>
<td>86.4</td>
<td>796.6</td>
</tr>
<tr>
<td>abroad</td>
<td>21.9</td>
<td>10</td>
<td>-</td>
<td>1.1</td>
<td>4.7</td>
<td>-</td>
</tr>
</tbody>
</table>
Main Exploration Results in 2018

3 fields discovered
- Neptune (oil field, Sea of Okhotsk)
- Triton (oil field, Sea of Okhotsk)
- Blizhnenovoportovskoye (gas field, Yamal-Nenets Autonomous Area)

12 deposits discovered in fields discovered earlier
- Leningradskoye – Kara Sea;
- Yubileynoye, Vylyntoyskoye, Sutorminskoye – Yamal-Nenets Autonomous Area;
- Priobskoye – Khanty-Mansi Autonomous Area;
- Rybalnoye – Tomsk Region;
- Baleykinskoye – Orenburg Region

First-level strategic targets achieved:
- gas reserve replacement ratio – 1.60
- aggregate gas reserves – 35.2 trln m³
Actual Hydrocarbon Production in 2017–2018 (including Gazprom Neft)

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas (bln m³)</td>
<td>471.0</td>
<td>497.6</td>
</tr>
<tr>
<td>Oil (mln t)</td>
<td>41.0</td>
<td>40.9</td>
</tr>
<tr>
<td>Condensate (mln t)</td>
<td>15.9</td>
<td>15.9</td>
</tr>
</tbody>
</table>
Gazprom’s Gas Transmission System in Russia

172,600 km of gas pipelines

254 compressor stations
with installed capacity of
47,100 MW
Bovanenkovo – Ukhta – Torzhok Gas Transmission Corridor

Length of corridor is above 2,400 km.

Length of Bovanenkovo – Ukhta section is around 1,100 km, annual design capacity – 115 bln m³ of gas (for gas supplies from Cenomanian-Aptian deposits of Bovanenkovskoye field).

Length of Ukhta – Torzhok section between Ukhta and Gryazovets is around 970 km, annual design capacity – 90 bln m³ of gas.
Power of Siberia Gas Pipeline

- **Length**: around 3,000 km.
- **Diameter**: 1,420 mm.
- **Pressure**: 9.8 MPa.
- **Annual export capacity**: 38 bln m³ of gas.
Development of Gas Transmission Capacities in Northwestern Part of UGSS, Gryazovets – Slavyanskaya CS Section

Length – 870 km.
Installed capacity of compressor stations – around 1,500 MW.
Performance of Russian UGS Facilities in 2018/2019 Withdrawal Season

GAS WITHDRAWAL FROM RUSSIAN UGS FACILITIES, bln m³

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>37.3</td>
<td>34.0</td>
<td>27.3</td>
<td>31.1</td>
<td>47.0</td>
<td>48.6</td>
<td>44.4</td>
<td></td>
</tr>
</tbody>
</table>

PERFORMANCE OF GAZPROM’S UGS FACILITIES IN RUSSIA

<table>
<thead>
<tr>
<th>Indicators</th>
<th>2018/2019 period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working gas inventories, bln m³</td>
<td>72.2</td>
</tr>
<tr>
<td>Maximum daily deliverability at beginning of withdrawal season, mln m³</td>
<td>812.5</td>
</tr>
</tbody>
</table>
1. Gazprom is a world leader in a number of key areas:

- No. 1 globally in terms of natural gas reserves
- No. 1 globally in terms of natural gas production
- No. 1 globally in terms of gas transmission system length

2. First-level strategic targets achieved

3. Plans for creating new gas production centers and implementing major gas transmission projects are well underway