Prospects of development of the oil industry in Yugra
Oil production in Russia and Yugra since 1964

- 51.4% - oil production in percentage of total production in Russia
- 466 – discovered oil and gas fields
- 472 – valid licenses for subsoil use (geological researches, exploration, hydrocarbons production).
Percentage of countries in world oil production in 2010 according to the data of British Petroleum

- Saudi Arabia 11.96%
- Russia 12.91%, including Yugra 6.8%
- USA 8.66%
- UAE 3.34%
- Kuwait 3.13%
- Norway 2.52%
- Canada 4.16%
- Venezuela 3.23%
- Mexico 3.74%
- Iran 5.19%
- China 5.19%
- Norway 2.52%
- Other 32.9%
As of situation at 01/09/2012 there are 472 valid licenses for subsoil use in the territory of Khanty-Mansiysk Autonomous District.

Area of unallocated reserves fund – 208 thous. sq.km

License areas of companies – subsoil users with a long-term licenses
- ОАО "НК"Лукойл"
- ОАО "Сургутнефтегаз"
- ОАО "НК"Роснефть"
- ОАО "ТНК-BP Холдинг"

Другие недропользователи
Лицензионные участки с краткосрочными лицензиями
Dynamic of production drilling

<table>
<thead>
<tr>
<th>Year</th>
<th>Production Drilling (in millions of meters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>7.4</td>
</tr>
<tr>
<td>2006</td>
<td>8.8</td>
</tr>
<tr>
<td>2007</td>
<td>10.2</td>
</tr>
<tr>
<td>2008</td>
<td>10.7</td>
</tr>
<tr>
<td>2009</td>
<td>10.9</td>
</tr>
<tr>
<td>2010</td>
<td>12.0</td>
</tr>
<tr>
<td>2011</td>
<td>12.9</td>
</tr>
</tbody>
</table>
Dynamic of oil flow rates

- Oil flow rate of new wells per annum, tons per day
- Oil flow rate in Okrug per annum, tons per day

- Year 2002: 34.0 tons per day
- Year 2003: 41.4 tons per day
- Year 2004: 46.0 tons per day
- Year 2005: 47.0 tons per day
- Year 2006: 43.0 tons per day
- Year 2007: 42.2 tons per day
- Year 2008: 40.7 tons per day
- Year 2009: 36.4 tons per day
- Year 2010: 34.9 tons per day
- Year 2011: 33.8 tons per day
Forecast oil production until 2030
Search areas

Reserves, million tones
Resources density ultimate potential resources, ths. tons per sq. km
There are 96 fields in unallocated subsoil reserve fund with ultimate reserves producing 658 million tons.

Largest fields:
- Imilorskoe - 182.4 million tons,
- Shpilman’s field - 90.4 million tons.

Ultimate estimation of oil resources of non-licensed stock of areas in Yugra is about 10 billion tons!
Bazhenov – Abalac play
Total initial recoverable oil reserves – 3.1 billion tons
Annual total production in 2011 – 0.5 млн тонн
Oil recovery factor – 0.25

Middle Jurassic play – Tyumen suite
Total initial recoverable oil reserves – 4.7 billion tons
Annual total production in 2011 – 14.2 млн тонн
Oil recovery factor – 0.22

Lower Jurassic play
Total initial recoverable oil reserves – 1.7 billion tons
Annual total production in 2011 – 1.7 млн тонн
Oil recovery factor – 0.25

Pre-Jurassic play
Total initial recoverable oil reserves – 1.1 billion tons
Oil recovery factor – 0.2
Producing and using of associated petroleum gas

<table>
<thead>
<tr>
<th>Year</th>
<th>Gas resources, mln.m³</th>
<th>Utilization, mln.m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>26,961</td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>29,514</td>
<td></td>
</tr>
<tr>
<td>2004</td>
<td>32,561</td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td>33,832</td>
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<tr>
<td>2006</td>
<td>35,243</td>
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<td>2007</td>
<td>36,165</td>
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<td>2008</td>
<td>36,327</td>
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<td>35,939</td>
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<tr>
<td>2010</td>
<td>36,234</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>36,614</td>
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</tr>
</tbody>
</table>

82.3% - utilization level
Gas volume for power generation in gas-turbine thermal power plants and natural-gas fueled reciprocating-engine power plants

Petroleum gas volume, millions of m³

- 2000: 59
- 2001: 247
- 2002: 146
- 2003: 24
- 2004: 346
- 2005: 593
- 2006: 1514
- 2007: 1070
- 2008: 1308
- 2009: 1549
- 2010: 1778
- 2011: 2220
- 2012 (plan): 2995

«Minor» energetics
Total pipeline system footage is **92687 kilometers** including trunk lines which footage is **4608 kilometers**.

In **2011** there are **2504 km** of pipelines were constructed including trunk lines which extent is **179 km**.
Centre for the rational use of the subsoil

Map of geological zoning of oil fields of Yugra

Schematic geological section of Neocomian play

Dynamic of average daily oil production in Yugra
• In the modern stage of development of the district’s petroleum industry investments in a high technologies are taking a special role. They allow not only regulate and enhance oil production but also increment resource base.

• For realization of these targets stable social and political situation was created in the autonomous district, conditions for dynamic economy development were established; region has powerful intellectual and human resources potential..
WELCOME TO JUGRA!

Thank you for your attention!