Modernization of Ukrainian Gas Transmission System
Gas transmission system of Ukraine
Input in Ukraine from Russia and Belarus: 287 bcm/year

Transit via Ukraine to Europe: 146 bcm/year
Input in Ukraine from Europe: 21.4 bcm/year

Length of gas pipelines, total: 39 thsd. km
Number of compressor stations: 72 (110)
Capacity of compressor stations: 5442.9 MW
Number of underground gas storage facilities (UGSF): 12
Total working volume of UGSF: 31 bcm
Number of gas distribution station (GDS): 1437
Gas flows capacity to Ukraine from Europe

- Poland: 1.5 bcm/year
- Slovakia: 14.5 bcm/year
- Hungary: 5.4 bcm/year
- Ukraine:
  - Drozdivychi: 4.3 bcm/day
  - Uzhgorod: 40 mcm/day
  - Beregovo: 16.8 mcm/day

PJSC UKRTRANSGAZ
UGTS priority objects modernization and reconstruction
Modernization and Reconstruction of Urengoy-Pomary-Uzhgorod Gas Pipeline (1st stage)

1st stage of reconstruction: deadline – 4 years
- reconstruction of 4 linear parts;
- modernization of telemechanics and communication systems;
- modernization of CS

INVESTMENT COST – 295 USD Mln, incl.
own funds – 10 USD Mln
loan funds – 285 USD Mln
Other Priority Reconstruction Objects of Ukrainian GTS

<table>
<thead>
<tr>
<th>Reconstruction objects</th>
<th>Terms</th>
<th>Cost (appr.), USD million</th>
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<tbody>
<tr>
<td>Ananiiv CS</td>
<td>2015-2018</td>
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<td>Yagotyn CS</td>
<td>2015-2018</td>
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<td>Komarno CS</td>
<td>2015-2018</td>
<td>79.3</td>
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<tr>
<td>Orlovka CS</td>
<td>2015-2018</td>
<td>109.8</td>
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</tbody>
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Replacement of GPU:

- ensuring of efficiency;
- decreasing of emissions;
- decreasing of fuel gas consumption;
- increasing of exploitation terms;
- the estimated cost of reconstruction – 51 million USD
Project of Poland-Ukraine Gas Interconnection

**Project goals**

**Diversification of gas supplies** - increase of gas import from Europe to Ukraine through the Republic of Poland;

**Access to underground gas storages** - providing the possibility of European gas storing in Ukrainian underground gas storage and supply it to customers;

**Key infrastructure for the future CEE gas hub** - stage on the course of creation a single infrastructural and commercial gas space of Ukraine, Poland, Slovakia and Hungary and creation of a single East European Gas Hub.
Project capacity:

- Pipeline length - 110 km
- Gas transportation pipeline - DN 1000
- Working pressure - 75 Bar
- Capacity:
  - in the direction of Poland-Ukraine Q= 8 bcm/year
  - in the direction of Ukraine-Poland Q= 7 bcm/year

Total cost of the project 245 million dollars
The integration of interconnector Ukraine-Poland to the North-South Corridor
Project development of East European Gas Hub

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
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</tbody>
</table>

Western Ukraine Underground Gas Storage Capacity: 25 bcm, Free Capacity: 15 bcm
Thank for you **attention**