

**PACKAGE SUPPLIES
OF POWER EQUIPMENT**

REP HOLDING



Founded in 2004

Incorporated in Gazprom Energoholding Group since 2019



Nevskiy Zavod

Turbine and compressor production

- Manufacturing of modern gas pumping units, steam and gas turbines and compressors
- Modern fleet of machine tools
- Unique test benches
- Automatic production lines
- Modern casting shop
- More than 75 acres of production facilities

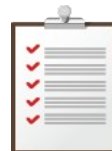
Engineering center

- Turbines, compressors and electrical equipment development
- Design engineering
- Research and development
- Extension of machine life cycle
- Safety audits of production sites
- Test procedures development
- Above 200 in-house design engineers



>2000

Employees



>1000

Implemented projects

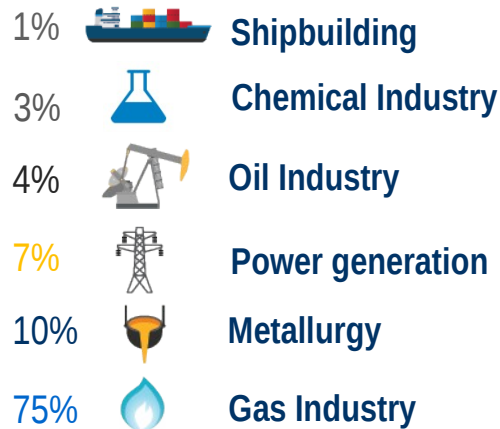
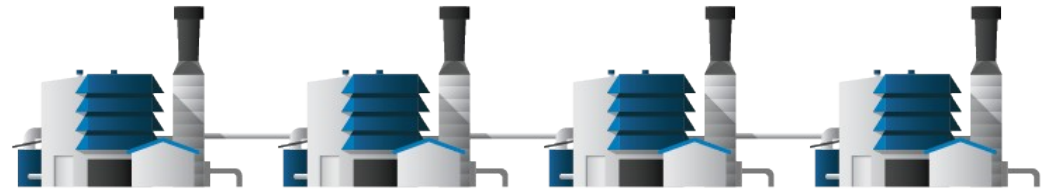


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Localized global OEMs licenses: General Electric, Solar Turbines, Siemens, S2M (SKF)

REP Holding products distribution by industrial sectors (%)

75%
Equipment for gas industry



The supplied equipment scope of application includes gas transportation system modernization, power units stations construction, small-scale power generation, LNG market and other industries.

REP Holding products application scope



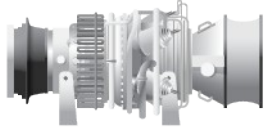
Gas pumping units (16, 22 / 25, 32 MW)

- Gas



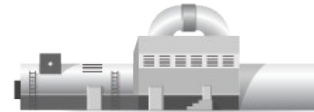
Electrically-driven gas pumping units (4,0; 6,3; 10,5; 12,5; MW)

- Gas



Heavy-duty gas turbines (16 – 32 MW)

- Oil
- Power generation
- Gas



Steam turbines (6 – 25 MW)

- Metallurgy
- Power generation



CCGT Units (24 – 84 MW)

- Power generation



Centrifugal compressor machines (4 – 32 MW)

- Oil
- Metallurgy
- Power generation
- Gas (incl. LNG production)
- Chemical Industry



Efficiency

- Full production cycle
- Operating cost reduction
- High efficiency
- Turn-key solutions



Leadership

- The only Russian OEM of 16 / 32 MW heavy duty turbines
- >10 years of successful localization of advanced international technologies
- 100% technologies ownership for manufacturing and service maintenance of licensed GTs (16-32 MW)
- In-house Design Institute



Reliability

- 100% availability
- Long MTBF and long machine life cycle
- In-house test benches
- Machines and components quality control



Environmental safety

- Unique environmental characteristics and low emission level
- Production of modern equipment according to API standards
- Compliance with current Russian and international standards: (Test – Saint Petersburg, Russian Register, IQNet, ACCREDIA)

>40

Russian regions

>20

Foreign countries

Sales geography

>6 500

Running machines

20

Turbines

50

Compressors

Annual production rates

1 Design

- Research and Engineering
- Unique process solutions
- Customized Products. Customer based approach



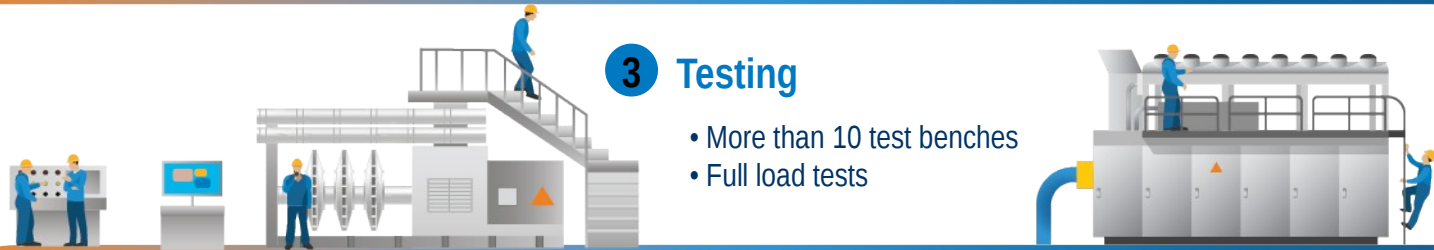
2 Production

- 10 high tech manufacturing sites
- Fully equipped modern production lines
- Integrated production Management System
- Ongoing staff training and Development
- Regular trainings held t at the partners' production sites (overseas)
- In-house Casting Shop



3 Testing

- More than 10 test benches
- Full load tests



4 Design review and quality control

- In-house Test Lab
- 12 types of diagnostic tests
- Quality control at each production stage



5 Logistics

- Transportation of fully pre-assembled equipment
- In-house Logistics Department
- In-house Packaging Shop



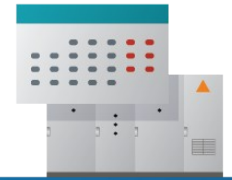
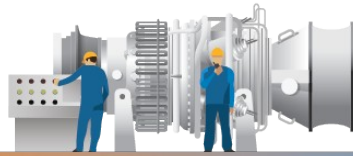
1 Field installation

2 Commissioning

3 Warranty and post-warranty Service

4 Phased modernization

5 Machine service life time extension



Engineering support



Full service life maintenance



Equipment control and diagnostics



Overhaul maintenance management



Timely delivery of spare parts



Staff trainings



Certified service engineers



Local service engineering

1 High Efficiency

2 Convenient operations

3 Operational cost reduction



75-years of GT production experience



High tech production



Partnership with global leading OEMs (General Electric, Solar Turbines, etc.)



Successful localization of cutting edge international technologies in Russia

Domestic Technology Centre Established to Produce World Class Heavy-Duty Gas Turbines

GT Features



High reliability



200,000 hrs service life



Low emission level



On-site maintenance



Turn-key delivery of fully-preassembled equipment



Availability



Long MTBF



High efficiency



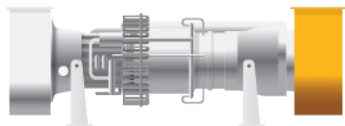
Multi-purpose application



Cost saving

16 MW

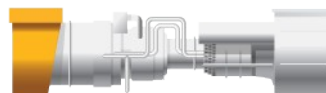
Designed by Russian engineers with GE Oil & Gas



Eff. — 37%
NOx ≤ 25 ppm

22/25 MW

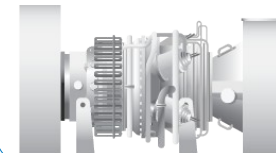
Solar Turbines license



Eff. — 40%
NOx ≤ 25 ppm

32 MW

GE license



Eff. — 36%
NOx ≤ 18 ppm

Gas pumping units



75 Gas pumping units
(32 MW)

Electrically-driven gas pumping units



40 Electrically-driven
gas pumping units
(4, 6.3, 10 MW)

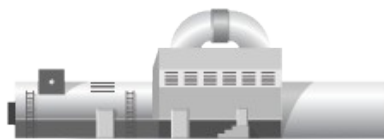
Compressors



122 Centrifugal
compressors

82 Replacement
blading sections

Steam turbines



11 Steam turbines

Supply objects: Compressor stations of trunklines Bovanenkovo-Ukhta, Bovanenkovo-Ukhta-2, Power of Siberia, TurkStream, Nord Stream, Novoportovskoye field, Amur Gas Processing Plant; Sakhalin II, storage and shipment complex near the Portovaya compressor station; Cryogas-Vysotsk medium-scale LNG project; Booster compressor station (BCS) of Zapadno- West-Tarkosalinskoye field, BCS of Ety-Purovskoye field; Chayandinskoye, Zapolyarnoye, Bovanenkovsoye, Urengoykoye, Yaro-Yakhinskoye fields; Severstal, EVRAZ, NLMK, Magnitogorsk metallurgical Plant; Mozyr Oil Refinery, TANECO Refining and Petrochemical Plants Complex, etc.

Machine Building

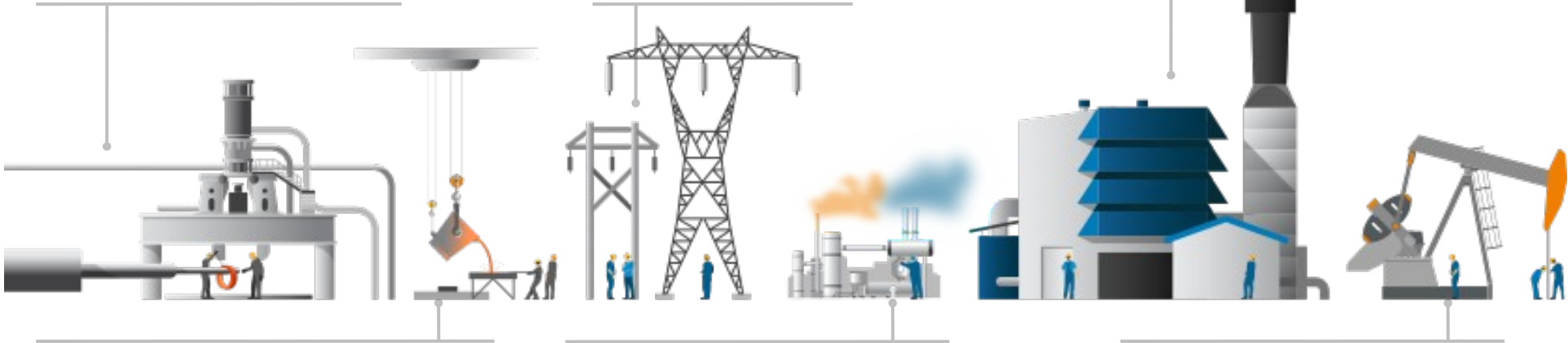
- Power Machines
- KMZ Izhora Metall
- North Metallurgical Company
- OMZ-Foundry
- Ural Turbine Works

Power Generation

- OGK-2
- Rosenergoatom
- Federal Grid Company
- Gazprom Energoholding
- Rosatom

Gas Industry

- Gazprom



Metallurgical Industry

- Magnitogorsk MC
- Lipetsk MC
- Nizhny Tagil MC
- Severstal
- Mechel
- EVRAZ
- Kazakhmys (Kazakstan)
- Bokaro MC
- Bkhipai MC
- Durgapur MC (India)
- Paksteel (Pakistan)
- Baotou Iron & Steel Group
- Company (China)

Chemical Industry

- Shchekinazot
- Akron
- URALCHEM
- Grodno Azot
- Naftan
- Nizhnekamskneftekhim
- Kazanorgsintez
- Ufaorgsintez
- EuroChem
- FOSAGRO
- Minudobreniya
- Gazprom Neftechim
- Salavat

Oil Industry

- Gazprom Neft
- Lukoil
- Rosneft
- RusNeft
- SIBUR Holding
- Surgutneftegaz
- Tatneft
- TNK-BP Holding
- Transneft
- KazMunayGaz

Thank you for your attention!

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