

ATOMIC ENERGY POWER CORPORATION JSC ATOMENERGOPROM





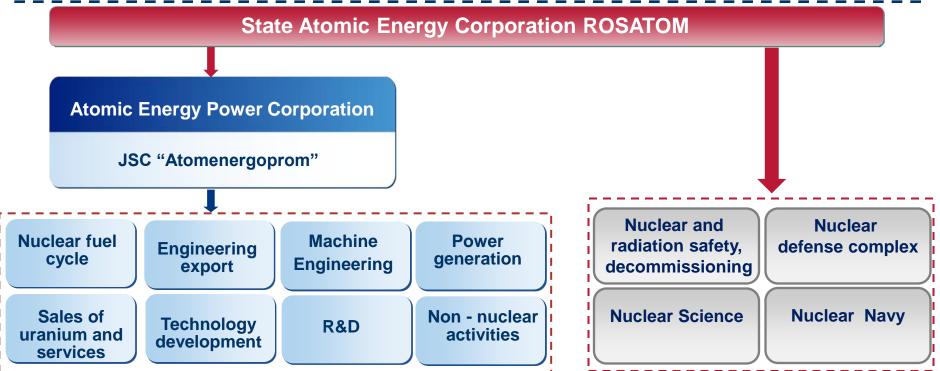
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ATOMENERGOPROM in brief

- Nuclear energy industry development forecast
- Affiliates of ATOMENERGOPROM



Restructuring of the atomic industry



Goals of the establishment of JSC "Atomenergoprom":

To consolidate the civil part of nuclear industry into an integrated full-cycle worldwide company and to increase its efficiency and to enhance its competitiveness

- To split commercial and defense sectors of nuclear industry
- **I** To provide conditions to meet requirements of international integration processes
- Le To realize effectively a large-scale program of NPP construction in Russia



- JSC Atomenergoprom was established in 2007 according to Russian Federation Presidential Decree № 556 dated 27.04.2007.
- The State Atomic Energy Corporation Rosatom owns 100% shares of JSC Atomenergoprom (Federal law N 317-FL of 01.12.2007)
- According to Government Decree N 319 "On Measures for Creation of Joint Stock Company "Atomic Energy Power Corporation" dated May 26, 2007 shares of Russian nuclear industry enterprises were contributed into the equity of JSC Atomenergoprom.
- Let The staff total is approximately 177,000 employees.
- **JSC Atomenergoprom** imbibes a unique experience, which has been accumulated through all sectors of nuclear fuel cycle and NPP construction during last 60 years.
- In 2008 consolidated proceeds of JSC Atomenergoprom constituted 290 billion RUR.
- Government Support: the State Nuclear Energy Corporation Rosatom's activity program for long-term period (2009-2015) envisions financing totaling 2,08 trillion RUR
- JSC Atomenergoprom is 45% of the world market of uranium enrichment services, 17% of the world nuclear fuel market, the 1st in the world in terms of nuclear power plants construction, the 2nd in the world in terms of uranium reserves and electric power generation at nuclear power plants



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Atomenergoprom's mission is to provide safe and effective economic development, life quality growth and preservation of the environment.

Atomenergoprom contributes to economic growth, social stability, prosperity and progress, provides protection of environment and rational usage of natural resources. The company aims at being a responsible member of the business community, known and respected all over the world.

Core strategic principle – technological leadership in the global nuclear industry.

Le Company's strategy is to advance to both to unification and technological improvement of product and to diversification of sources of revenue and the geographic expansion.





ATOMENERGORPOM is responsible to:

The world community

Atomenergoprom produces and supplies products that meet and even exceed the most advanced ecological standards

The customers

Atomenergoprom delivers its customers high-quality products that are really value for money and supports the products during the whole life cycle

The employees

The company is focused on creating favorable conditions for professional and personal growth. Atomenergoprom aims at maintaining a reasonable balance of work load and private life

The shareholders and investors

The company is focused on efficient use of the available resources and seeks to maximize the profit







Chairman of the Board of Directors:

Sergey V. Kirienko – Director General of the State Atomic Energy Corporation Rosatom



Members of the Board : *Evgeniy V. Evstratov* - Deputy Director General of the State Atomic Energy Corporation Rosatom



Tatjana L. Elfimova - Deputy Director General of the State Atomic EnergyCorporation Rosatom



Alexander M. Lokshin - Deputy Director General of the State Atomic Energy Corporation Rosatom



Vladimir V. Travin - Director of JSC "Atomenergoprom"





Chairman of the Management Board: Vladimir V. Travin - Director of JSC "Atomenergoprom"



Members of the Management Board:

Kirill B. Komarov - Executive Director of JSC "Atomenergoprom"



Vladislav I. Korogodin - Deputy Director of JSC "Atomenergoprom"



Alexander K. Polushkin – Deputy Director of JSC "Atomenergoprom"



Vladimir V. Sinicin - Deputy Director of JSC "Atomenergoprom"



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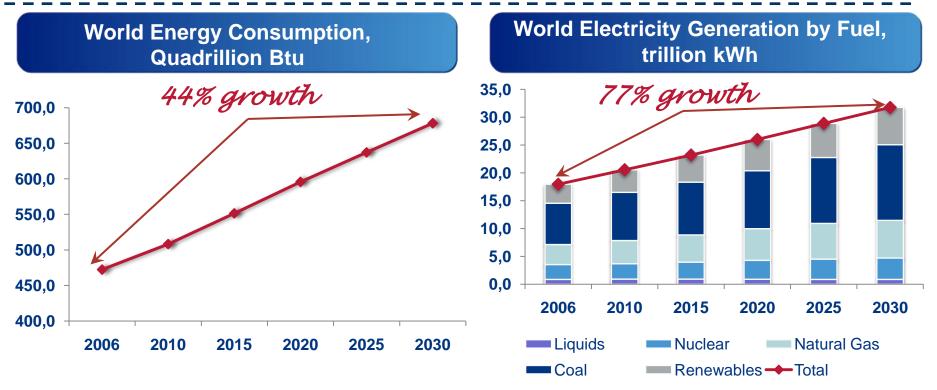
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World Energy Forecast Till 2030



Due to limitation of fossil fuel and growth of its negative effect on climate, the problem of world energy demand can be solved by providing the increase of nuclear electricity generation

Forecasts of International Agencies :

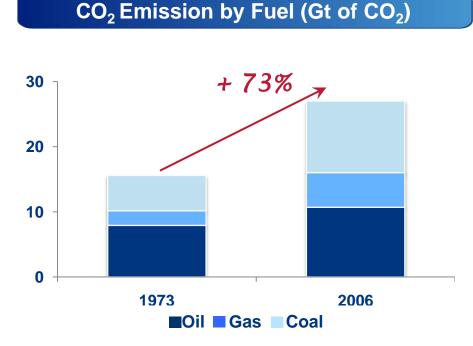
Suggest the sustainable growth of world energy consumption till 2030

Suggest growth of world electricity generation (electricity generation from nuclear power increases by 10% from 2.7 trillion kWh in 2006 to 3.0 trillion kWh in 2015)

Source: Energy Information Administration (USA) 2009

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World CO₂ Emission Growth

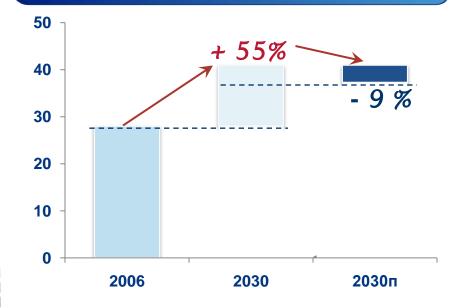


An analysis of the second seco

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- Today NPPs save CO₂ emission by 2,5 Gt^{*} world wide
- Russia prevents 210 mln. tonns of CO₂ emission annually by using nuclear energy
 *Source: WNA, IAE Outlook&Key World Energy Statistic 2008



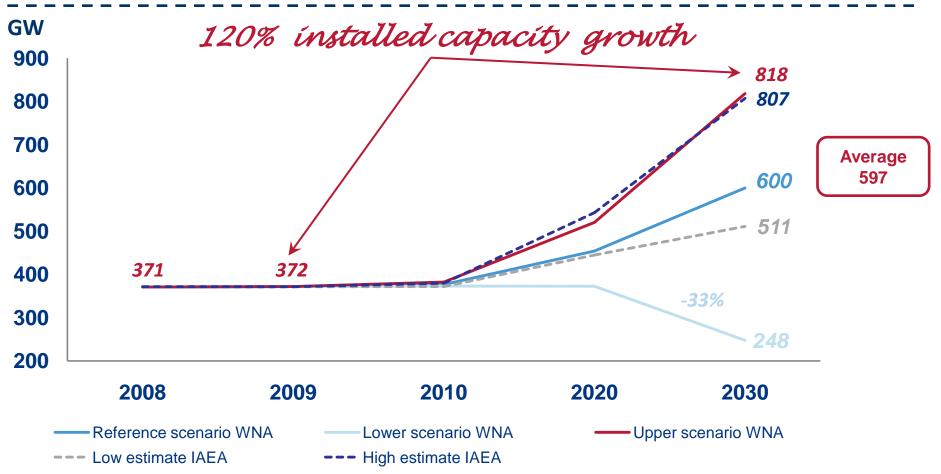


- Le CO₂ emission reaches 41 Gt^{**} till 2030
- CO₂ emission decreases by 3,7 Gt thanks to putting into operation of new NPPs

**Source: IEA, World Energy Outlook 2008

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The Worldwide Nuclear Installed Capacity Forecast Till 2030

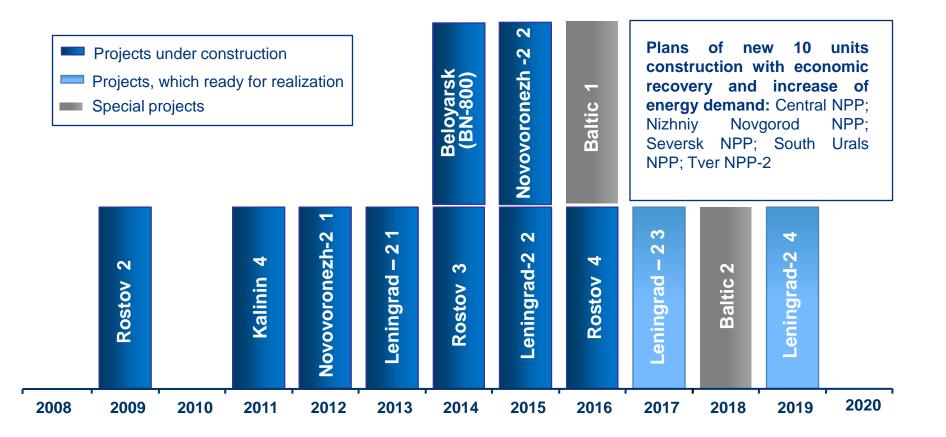


WNA 2008 reference and upper scenarios are higher than in 2007, reflecting the emergence of India and China as major nuclear nations

Sources: Electricity and Nuclear Power Estimates for the period up to 2030 (IAEA,Edition 2009)

The Global nuclear fuel market. Supply and demand 2007-2030 (WNA 2009)

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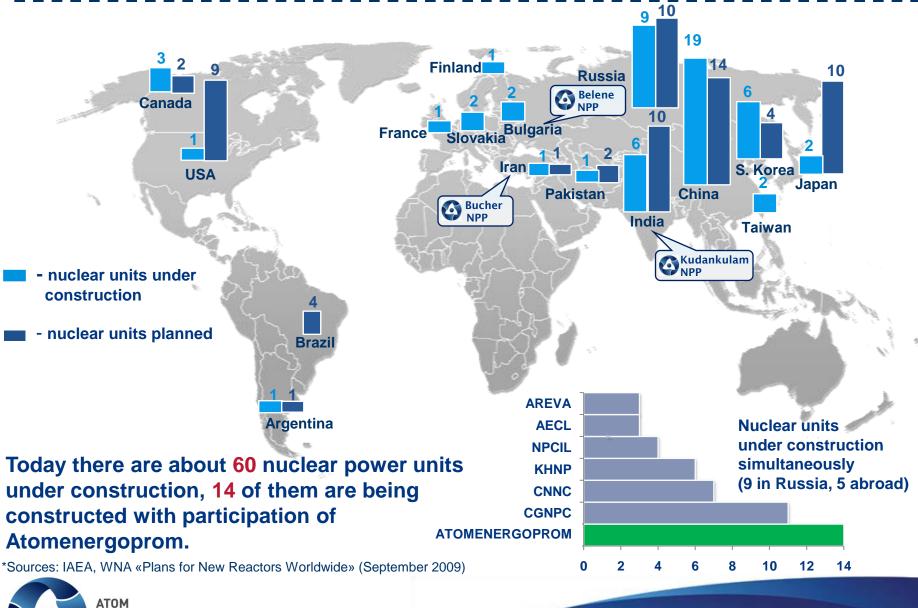




Geography of Russian NPPs

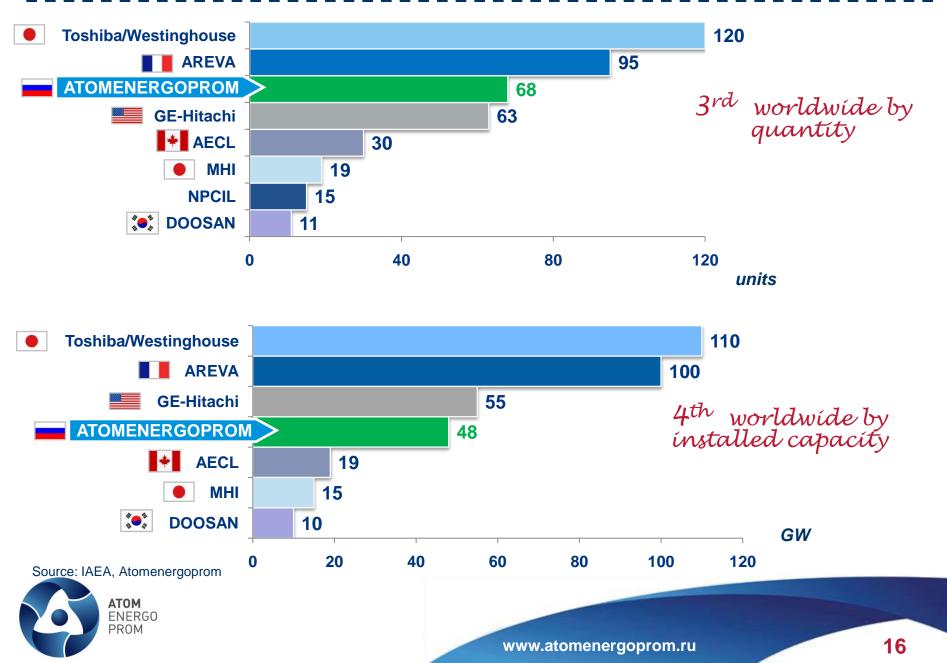


World nuclear power units under construction (2009)*



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Active Units Worldwide



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Main Enterprises

JSC "ATOMENERGOPROM"

MINING

JSC "Atomredmetzoloto"

JSC "PIMCU", JSC "Khiagda", CJSC "Dalur", JV "Zarechnoye", JV "Akbastau", JV with Cameco

CONVERSION, ENRICHMENT AND EXPORT OF URANIUM PRODUCTS & SERVICES

JSC "TENEX", JSC "United Company Enrichment Sublimation Complex": JSC "AECC", JSC "SCC", JSC"UECC", JSC "PO ECP"

FABRICATION

JSC "TVEL", JSC "MSZ", JSC "NCCP", JSC "ChMP", JSC "CMP"

TECHNOLOGY R&D

JSC "Engineering Centre "Russian Gas Centrifuge", JSC "NPK Khimprominginiring"

GENERATION

JSC "ROSENERGOATOM CONCERN"

MACHINEBUILDING

JSC "Atomenergomash", JV "Alstom Atomenergomash", JSC "ZiO - Podolsk", JSC "CDBMB"

ENGINEERING

JSC "Atomenergoproekt", JSC "SPAEP", JSC "NIAEP", JSC "Design-bureau Hydropress", JSC "OKBM", JSC "NIKIET", JSC "Atomtechenergo", JSC "Leading institute "VNIPIET", JSC "GSPI", JSC "VNIIAM"

PROCUREMENT OF EQUIPMENT FOR NPPS

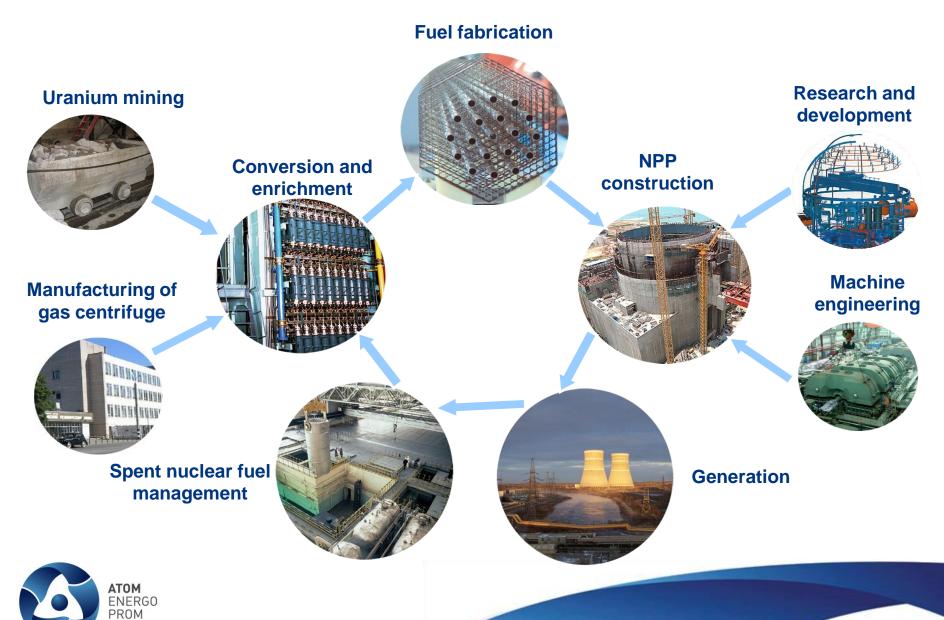
Integrated Procurement Department (branch)

RESEARCH AND DEVELOPMENT

JSC "VNIINM", JSC "NIIAR", JSC "IRM", JSC "SNIIP", JSC "Research-and-production association "CNIITMASH", JSC "ARRICT"



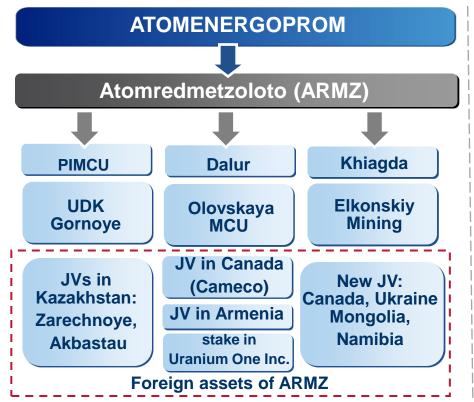
Technology Chain



Global Presence of JSC "Atomenergoprom"



Uranium mining

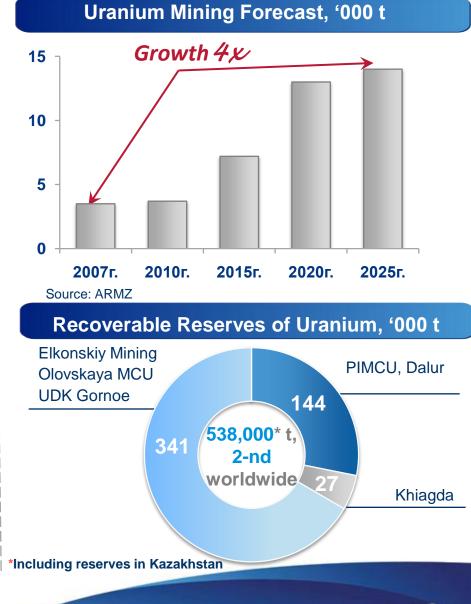


Main Business Activities:

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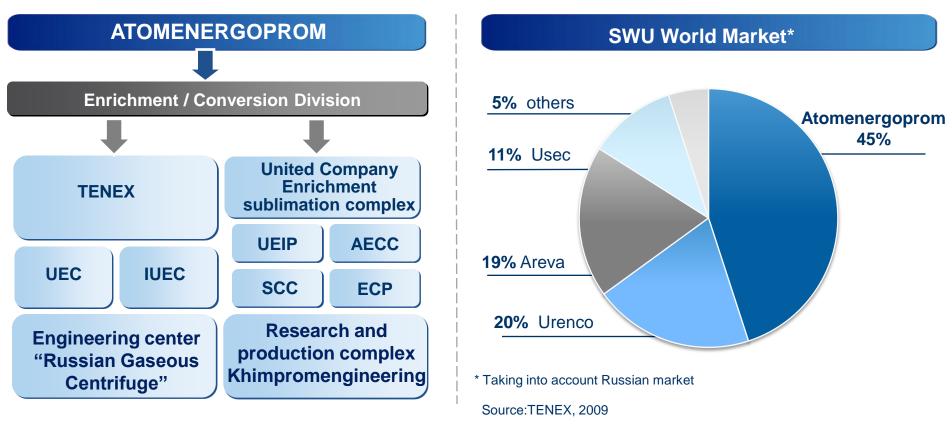
Supply the increased demand for natural uranium in Russian nuclear industry and building a global player of uranium market by:

- development and diversification of uranium raw material base of company;
- establishment of JVs on the territory of the CIS and abroad;
- establishment of new mining companies on reserve mines (Jakutia, Transbaikalia);
- development of production on operating and new enterprises.





Enrichment / Conversion



Main Business Activities :

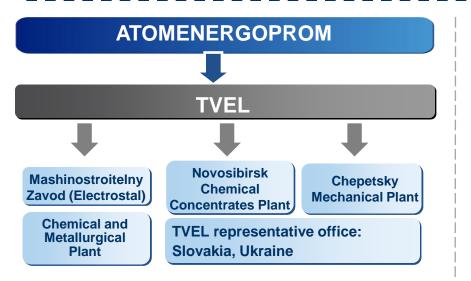
Secured supply of enriched uranium and enrichment / conversion services to domestic NPPs and export supply to NPP operators

Development of enrichment technologies



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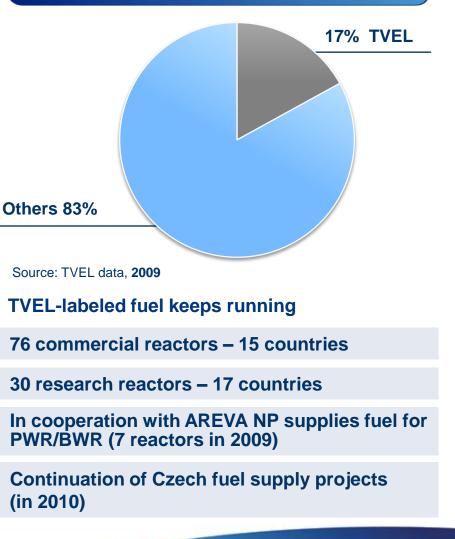
Fuel Fabrication



Main Business Activities

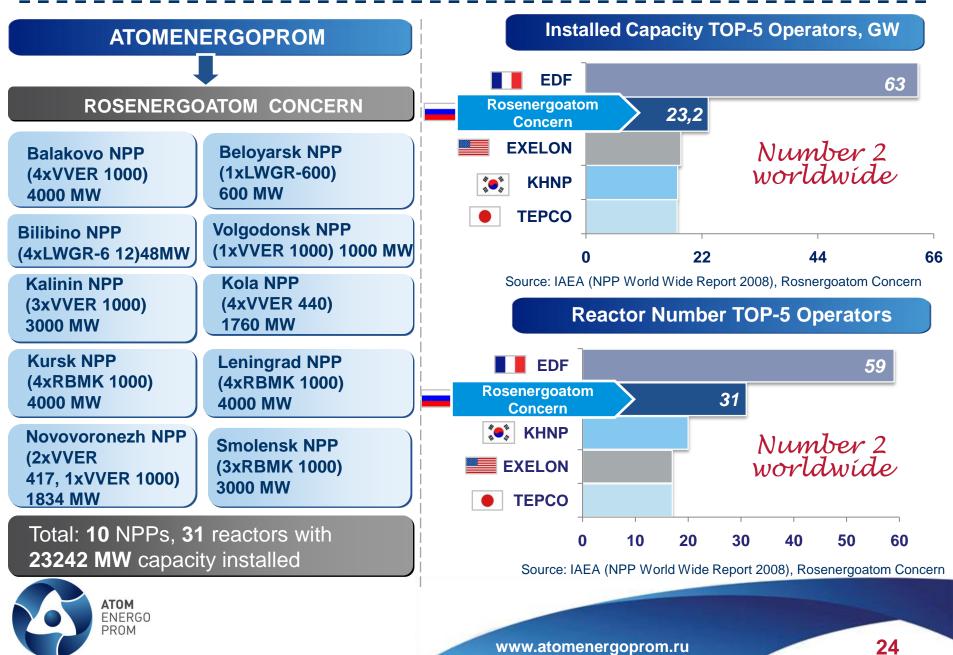
- Increased Domestic and Export Fuel Market Demands Secured Supply
- Nuclear Fuel Development and Optimization;
- Fuel assembly "TVS-Kvadrat" project development;
- Participation in MOX project development;
- Participation in ITER project development ;
- Expanding international cooperation

Nuclear Fuel World Market (Fuel Assembly)

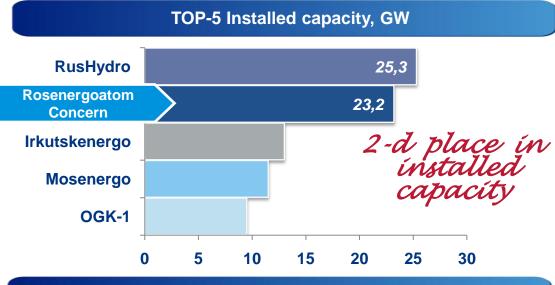




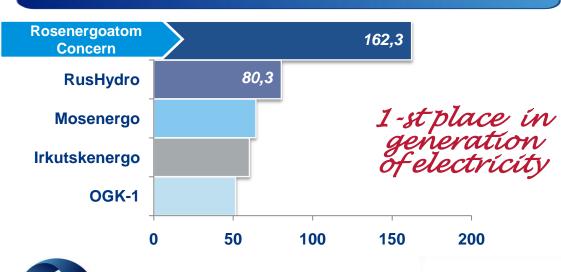
Nuclear Electric Generation



Position of Rosenergoatom Concern among Russian generation companies



TOP-5 Generation of electricity 2008, bln. kWh



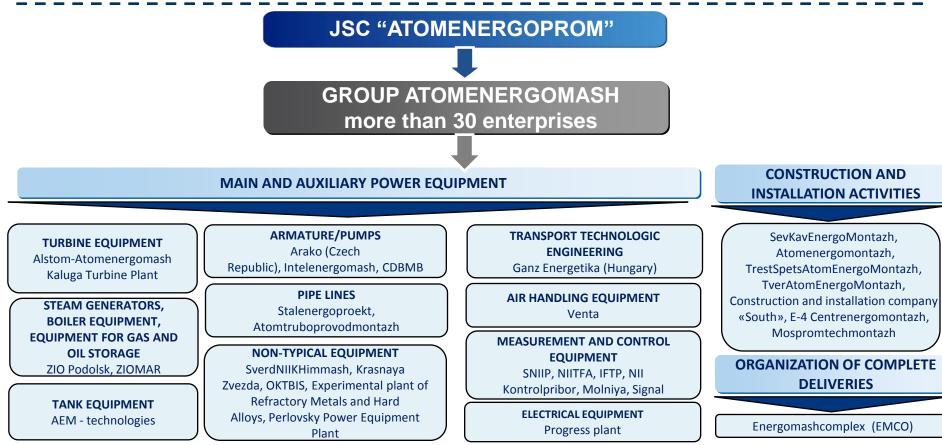
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Nuclear Machinebuilding Industry



Key activities:

- securing order processing for NPP equipment in the volume necessary to execute current and future plans of NPP construction in Russia and abroad;
- increasing of scope and business profitability, diversification of activities in neighbouring sectors, development of cooperation with world leaders of energy machine building industry and increasing services portfolio;
- **I** realizing programs of R&D, introduction of advanced and effective construction and production processes.



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Research and development

Enterprises of JSC "Atomenergoprom" realize a great sector of scientific research and design and survey works in different fields, which provide development and support current technological platform and also provide building of new technological platform and realizing innovative projects.

Short- and mid-term priorities:



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- TVS-Kvadrat realization of this project will allow to strengthen market positions by entry to the market of fuel for reactors of western design
- Fast Neutron Reactor construction of an advanced power generation plant with increased level of economic performance and ecological safety (transition to closed fuel cycle on the basis of MOX-fuel)
- Floating NPP (PATES) construction and operation of floating NPPs as energy sources for remote and isolated regions of Russia and others world regions. PATES can be used for desalination of water
- NPP 2006 increase competitiveness due to improvement of technical and economic characteristics providing guaranteed safety

