STATE ATOMIC ENERGY COPRORATION "ROSATOM"

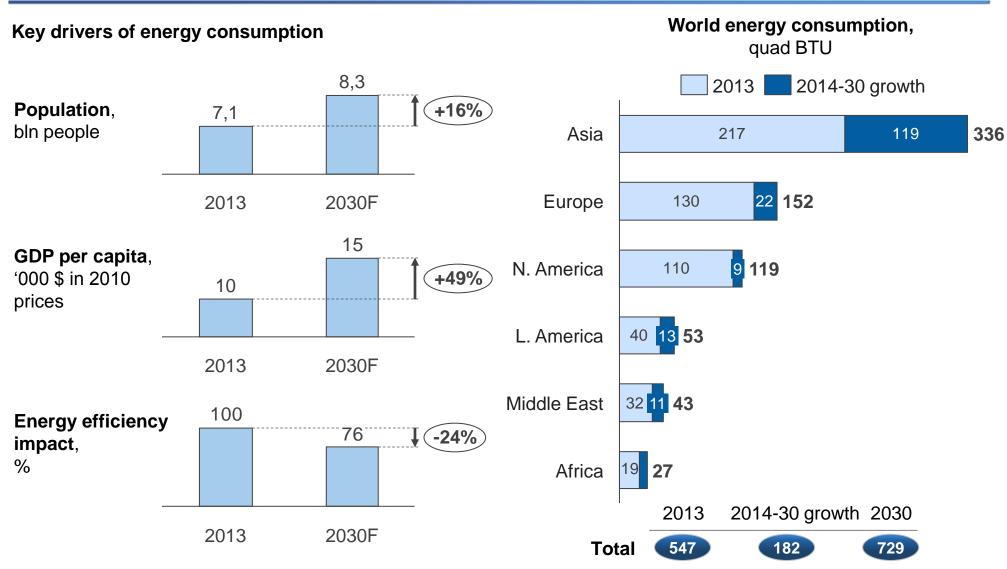
Nuclear power long-term competitiveness

Sergey Petrov Director of Strategic Development

June 10, 2014

Energy consumption is expected to grow



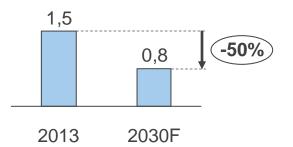


Electricity share in global energy consumption

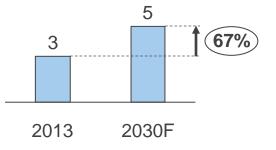


Key drivers of electricity share increase

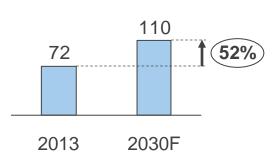
Electrification, bln people without access to electricity



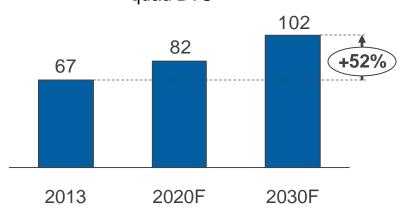
Urbanization, bln people



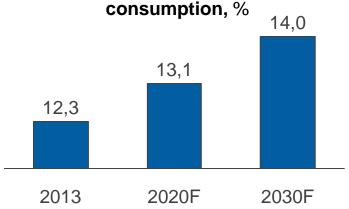
Electricity consumption on transport, hybrid and electric vehicles, mln units



World electricity consumption, quad BTU

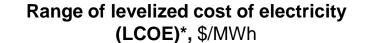


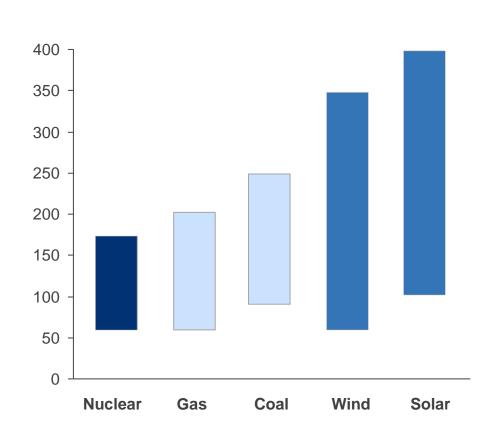
Share of electricity in world energy



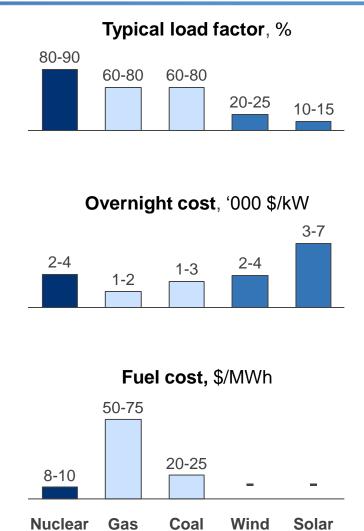
Nuclear power is efficient energy source





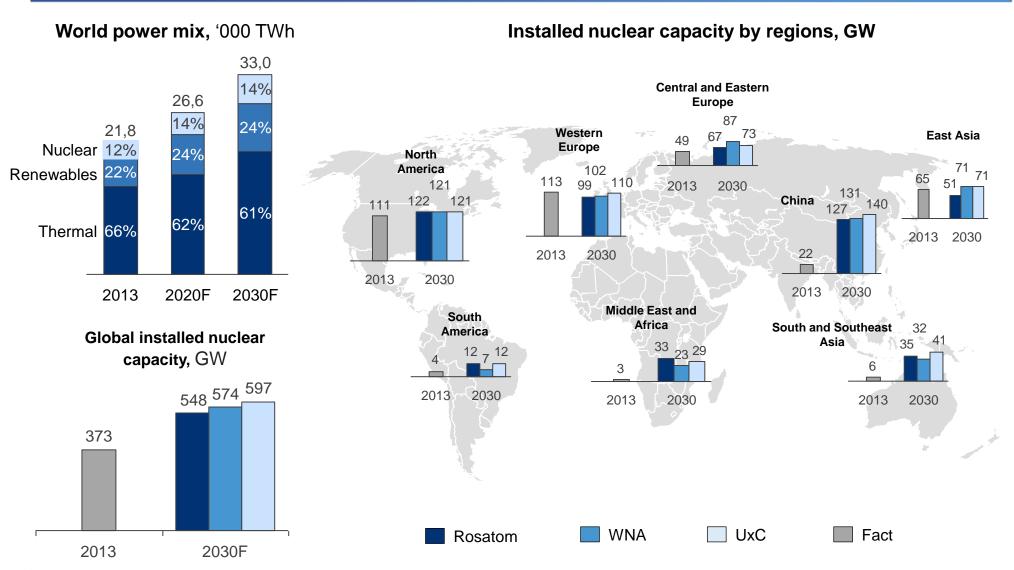


^{*} Discounted sum of capital and operational expenditures for the overall period of operation divided by the volume of electricity generation for the overall power plant life cycle



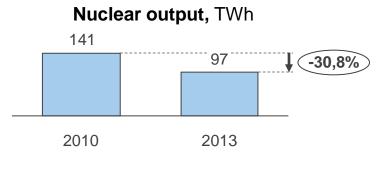
Nuclear power share is expected to increase



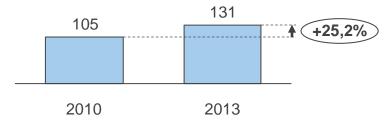


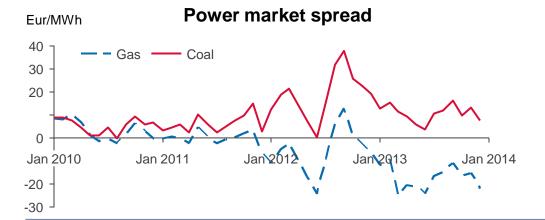


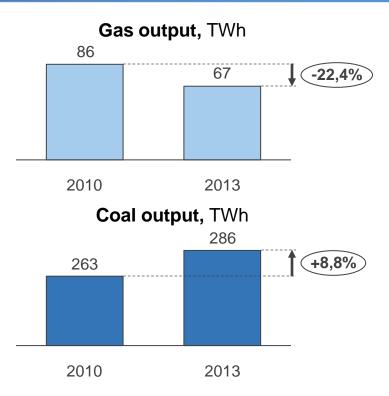


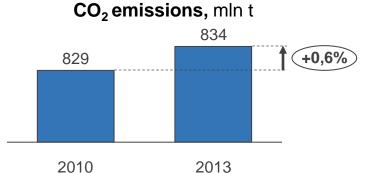


Renewables output, TWh









Nuclear power development means not only large scale power production, but also additional advantages



Power production

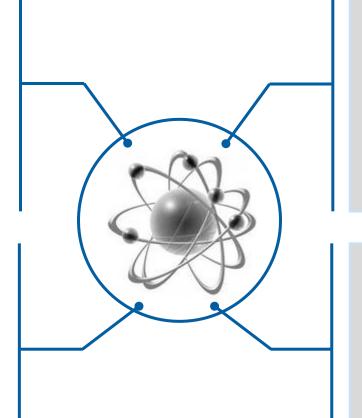
Base load



Science development

- R&D
- New technologies development





Industry development

- New jobs
- Creation of manufacturing facilities



Alternative use

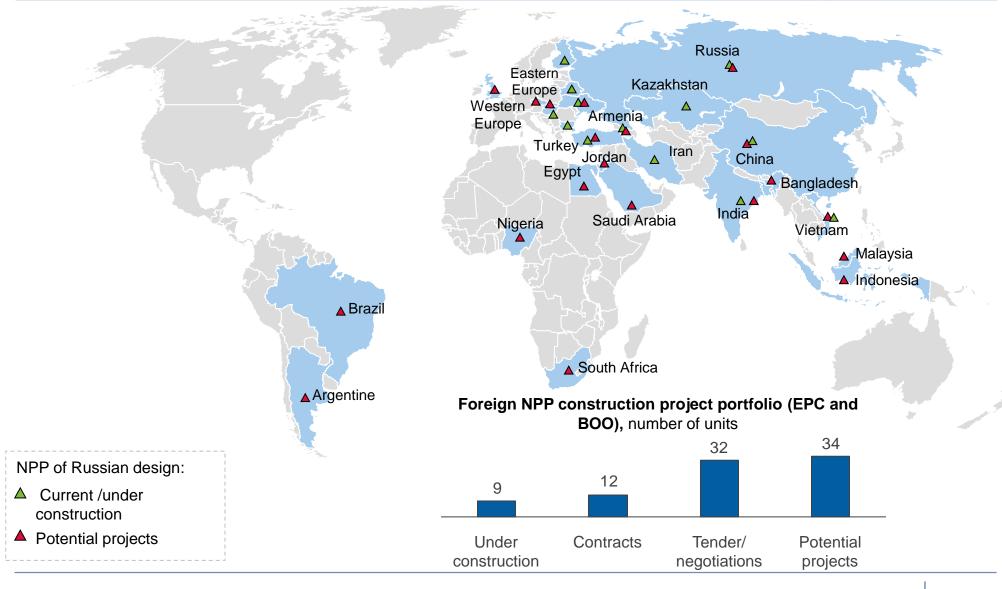
- Seawater desalination
- Heat generation



Source: Rosatom analysis 6

Rosatom's NPP construction project portfolio covers 24 countries





Source: Rosatom analysis

Rosatom can ensure the full lifetime cost of nuclear power



Nuclear LCOE structure, %		Rosatom expertise	Relevant Rosatom business units	ILLUSTRATIVE
Backend Fuel OpEx Financing		✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	ROSENERGOATOM ROSENERGOATOM ROSATOM ROSATOM	products and services in all segments of nuclear power value chain
CapEx		V	atomenergomash ROSENERGOATOM ROSENERGOATOM ROSATOM ROSATOM ROSATOM ROSATOM ROSATOM ROSATOM	 Rosatom can ensure not only costs of single products of the nuclear value chain, but the levelised cost of nuclear kWh

Source: Rosatom analysis