

STATE ATOMIC ENERGY CORPORATION "ROSATOM"

Rosatom Global Development, International Cooperation Perspective

"Atomex-Europe 2013" Forum

Nikolay Drozdov Director, International Business State Corporation "Rosatom"

October 8-9, 2013 Brno, Czech Republic



Rosatom offers complete solution from uranium supplies to NPP construction operation and decommissioning



www.rosatom.ru

Rosatom Global Operations



Rosatom safe and mature VVER technology is highly welcomed worldwide...



Rosatom NPP construction perspective backlog – more than 80 units

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... being a part of Rosatom unique integrated NPP construction solution



Construction of a nuclear power plant brings numerous opportunities to suppliers



Including design, project management, erection and commissioning works, training , etc. **Nuclear steam supply system

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6

Sourcing Approach For NPP Equipment



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Rusatom Service – new Rosatom interface for international sourcing



The merged company JSC NIAEP – JSC Atomstroyexport (ASE-NIAEP)

EPC-contractor for NPP construction projects in Russia and abroad



JSC Rusatom Service



OJSC Atomenergomash

Integrated supplier of NSSS and turbine islands for NPP construction projects in Russia and abroad

Integrator of import supplies of Rosatom O&M and service & modernization projects

• Participant of international equipment sourcing in NPP construction projects in Russia and abroad

Thank You for Attention!

Nikolay Drozdov Director, International Business State Corporation "Rosatom"

E-mail: NiSDrozdov@rosatom.ru **Phone**: +7 (499) 949-25-37

Rosatom safe and mature VVER technology is one of the most referenced in the world

Country Constructed In operation Armenia 2 1 Bulgaria 6 2 Russia China 2 2 Czech 6 6 Republic Ukraine Finland 2 2 Germany 6 Bulgaria Armenia Hungary 4 4 China Iran 1 1 Czech Republic Russia 17 17 Slovakia Slovakia 6 4 Hungary Ukraine 15 15 TOTAL 67 54

 All Russian designed reactors, including 37 VVER units operating outside Russia, successfully passed stress-tests, among those - 18 VVER units in 5 EU countries

Rosatom actively supported and is confident in the results

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VVER Global Fleet

Rosatom Gen III+ NPP design

What is VVER? (Water-Water Power Reactor)



- Forefront of nuclear technology Generation 3+ reactor
- Proven and mature solutions ≈1400 reactor years of total operating time
- A high level of internal safety gained through evolution of design
- Most demanded capacity suitable for various grid conditions – 1000-1200 MWe
- Long run facility design lifetime of the main equipment: 60 years
- High performing source of supply availability factor ≈ 92 %



Airplane crash





Protection from outer impacts

Hurricanes, tornadoes





Tsunamis, floods

Earthquakes

- Meets all current Russian and international safety standards and the IAEA requirements
- > Widely **referenced** by utilities
- EUR certified