

Lessons Learnt from Fukushima Accident – Actions Implemented, in Progress, and Planned

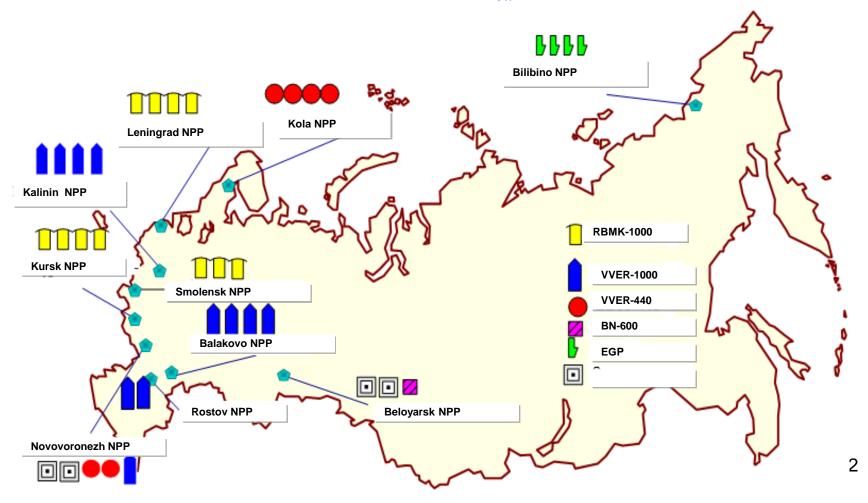
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Russian Operating NPPs

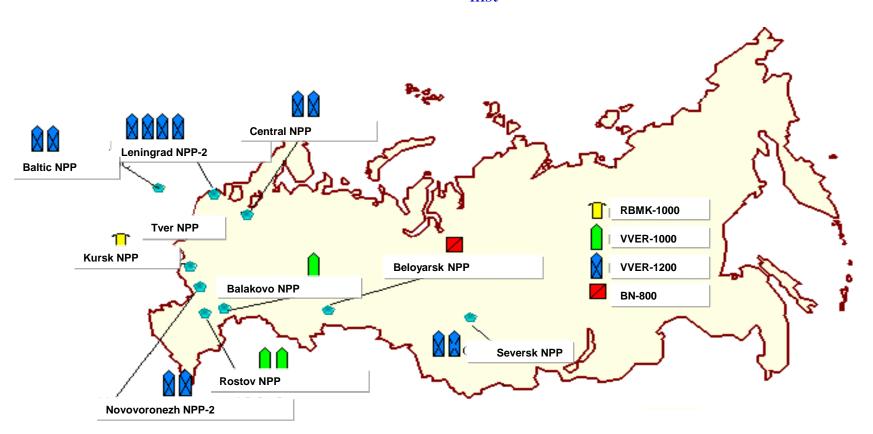
10 NPPs, 33 units, $N_{inst.} \approx 25$ GWt





NPP Units with Siting or Construction Licenses

11 NPPs, 21 units, $N_{inst} \approx 21.6 \text{ GW}$





Actions Taken in Russia after Fukushima-Daiichi Accident

- Prompt actions
- Actions taken during the first year
- Long-term actions



Prompt Actions

- March 12, 2011 emergency operations center established
- late March early April, 2011 inspections of all Russian NPPs, emergency exercises by scenarios comprising blackout and loss of heat sink
- June 2011 operator completed proximate analysis of degree of protection of Russian NPPs from external effects; regulator developed requirements to stress tests of operating Russian NPPs
- June 2011 Russian Federation submitted its proposals for amending Convention on Nuclear Safety and Convention on Early Notification of a Nuclear Accident to IAEA



Actions Taken during First Year

- August 2011 stress tests of operating Russian NPPS completed
- November 2011Reports on stress tests reviewed
- Principal conclusion: operating Russian NPPs meet established Russian safety requirements.
- Program of safety improvement of operating NPPs developed (immediate, medium- and long-term measures)
- Russian regulatory framework in field of atomic energy use reviewed
- July2011, November 2011 Federal Law "On the Use of Atomic Energy" revised



Actions Taken during First Year

- Operator performed stress tests of Russian NPPs under construction or siting
- Regulatory body reviewed reports on stress tests performed
- Stress tests of 10 most powerful and potentially hazardous research reactors performed; relevant reports reviewed



Implementation of IAEA Action Plan on Nuclear Safety in Russia





Lessons Learned from Fukushima-Daiichi Accident CONCLUSIONS

- ➤ Need to update approaches to safety of nuclear plants
- > Implementation of series of actions to improve safety
- Analysis of international and national legal and regulatory framework
- Safety analysis of NPPs and RRs under construction
- > Contribution of international cooperation



Thank you for your attention!