



**Federal Environmental, Industrial and Nuclear Supervision
Service (Rostekhnadzor)**

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

V. Bezzubtsev, Deputy Chairman

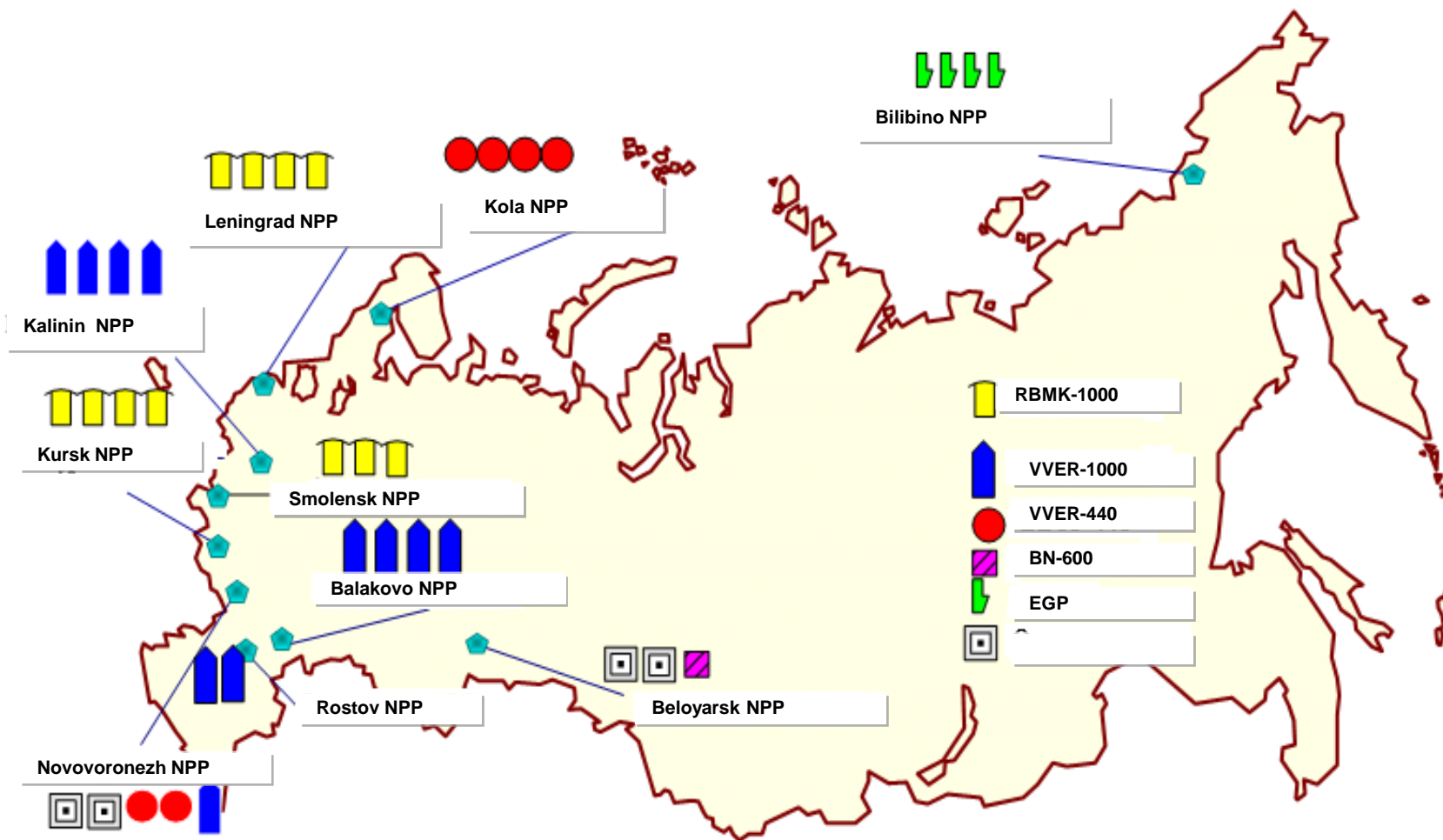
Fukushima Conference on Nuclear Safety

Japan, Koriyama, December 15-17, 2012



Russian Operating NPPs

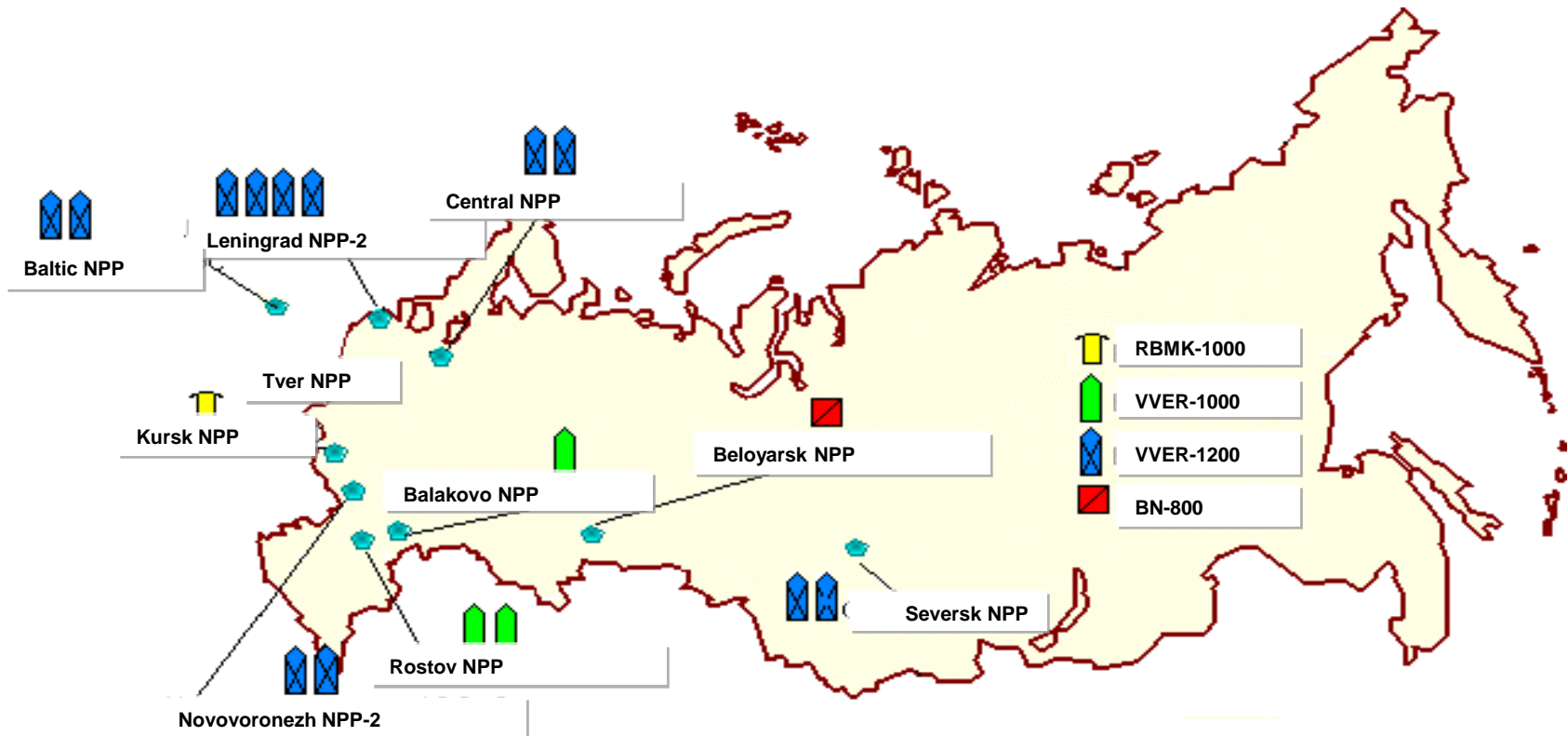
10 NPPs, 33 units, $N_{inst.} \approx 25$ GWt





NPP Units with Siting or Construction Licenses

11 NPPs, 21 units, $N_{inst} \approx 21.6$ 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 2011 Reports 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
- July 2011, November 2011 – Federal Law “On the Use of Atomic Energy” revised

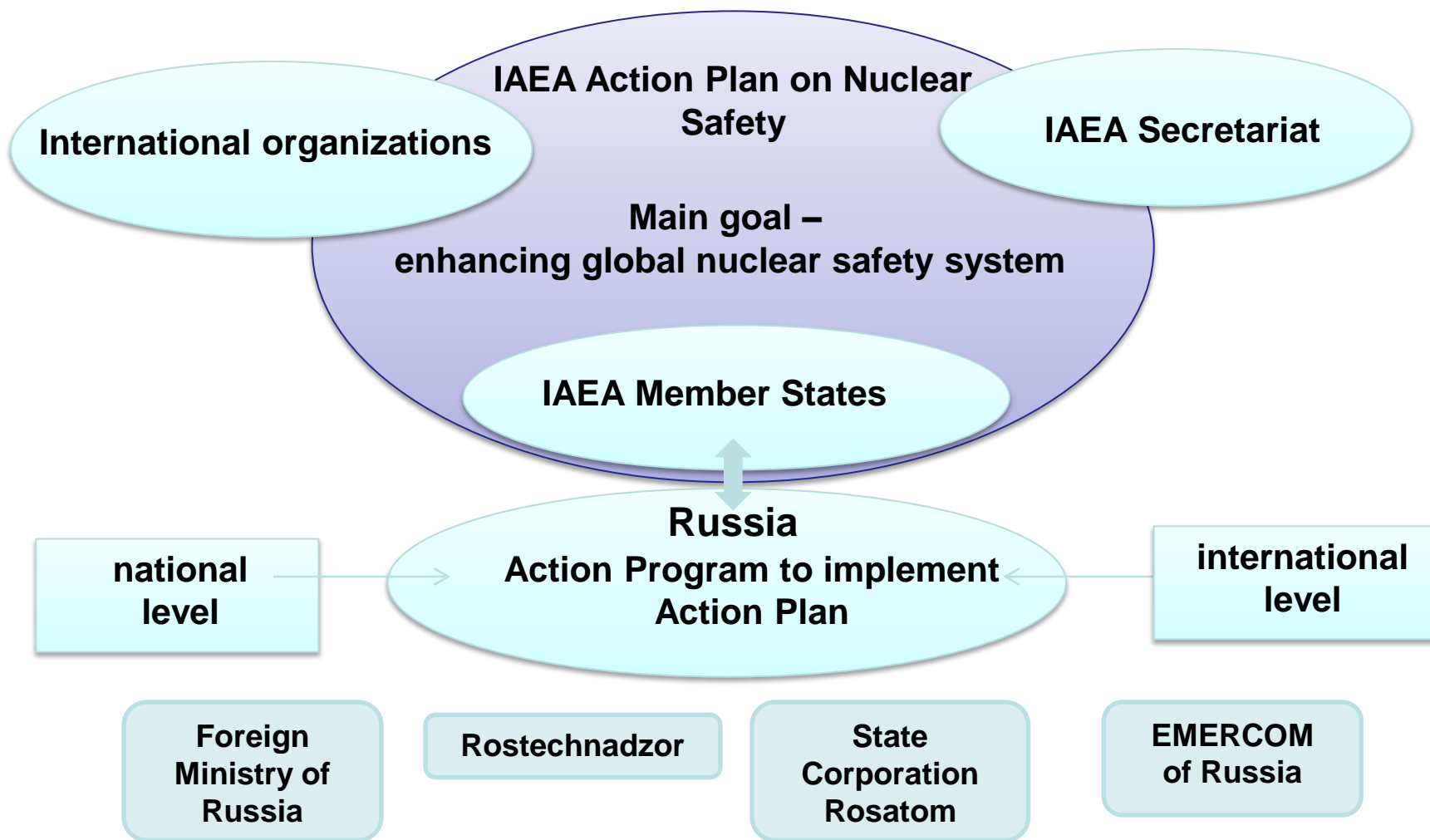


Actions Taken during First Year

- 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



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Thank you for your attention!