



INPRO Dialogue Forum on Global Nuclear Energy Sustainability:
**Long-term Prospects for Nuclear Energy in the
Post-Fukushima Era**

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**Current Status and Prospects of
Nuclear Energy in Bulgaria**

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1. National vision and strategy for Nuclear Power in the 21st century in Bulgaria



Long-term policy for nuclear energy - nuclear power programme.

- ❖ Bulgaria operates nuclear power plant since 1974. Two VVER 1000 units are in operation now and the other four units are shutdown for decommissioning.
- ❖ Electric power produced from NPP in 2011 is 32.2 % .
- ❖ In the National Energy Strategy is written that nuclear energy will be supported institutionally not only as a promising resource for generation of emission-free electricity, but also due to the accumulated successful experience and professional capability for operation of nuclear capacities.
- ❖ The country long term energy policy is directed to achievement of low carbon structure of the energy balance through the nuclear energy development.

1. National vision and strategy for Nuclear Power in the 21st century in Bulgaria

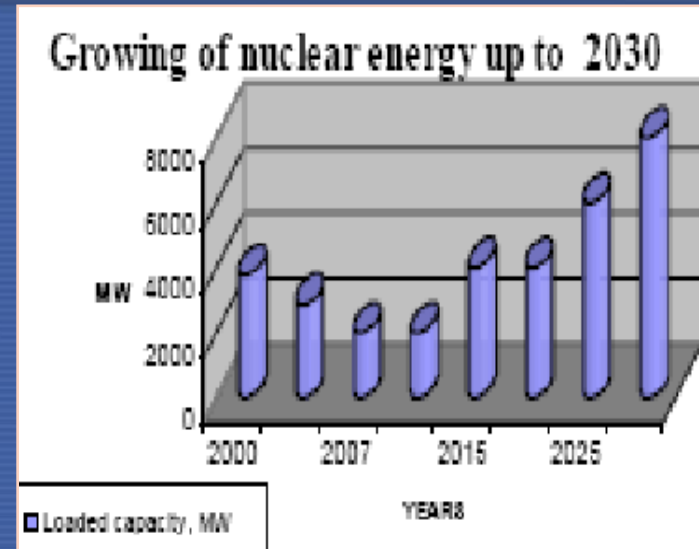


- Based on the National Energy Strategy Bulgaria strongly consider to use nuclear energy in the 21st century based on extending of life of units 5 and 6 and building of new units.
- *After closing Belene Project in March as a second nuclear power plant it was taken decision for building of unit 7 on the KNPP site.*
- The last Bulgarian national strategy for the management of spent nuclear fuel has been approved in 2011.
- National strategy for spent fuel and radioactive waste management defines country programs on management of low and intermediate level waste, management of spent fuel and management of high level waste. It have been build the dry spend fuel storage for temporary keeping spend fuel in the country.

2. Main lessons learned after Fukushima in Bulgaria



- Before Fukushima
- KNPP Units 7&8 2021-2023 year
- BELENE NPP Units 3&4 2028-2030 year



- After Fukushima – It have been conducted stress test for units under operation as well as for new planned units for Belene.
- KNPP - Plant Life Extension
- Belene NPP Completion ??? – After Referendum
- New NPP units at Kozloduy Site
- New NPP units at Belene Site ???

3. Bulgaria's expectations for global Nuclear Power development in the 21st century



- National anticipation in the next 100 years:

In the National Energy Strategy is written that nuclear energy will be supported institutionally as a promising resource for generation of emission-free electricity.

- Major policy implications and challenges:

The major milestones in achieving the desired nuclear energy system in Bulgaria will be need from: public + political acceptance; financially acceptable; economically reasonable.

Bulgaria will participate actively in the development of the new nuclear safety measures on an international scale.

***Thank you
for
your attention !***