#### **SESSION 2: ADDRESSING CLIMATE CHANGE CHALLENGES**

#### PANEL 2.2: Monitoring and mitigation of the impact of climate change



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Marina Belyaeva is a leading Russian expert in the area of non-proliferation, export control, safeguards implementation and nuclear energy promotion. She manages a number of ROSATOM projects in the area of international cooperation, such as the promotion of nuclear technology on global markets, the strengthening of nuclear safety and non-proliferation regimes, and the active participation in international events and forums



THE STATE ATOMIC ENERGY CORPORATION ROSATOM

# Nuclear power – a way to high quality of life and addressing climate change challenges

**Ms. Marina Belyaeva,** Director Department of International Cooperation State Atomic Energy Corporation "Rosatom"



### **NPP Operation and Construction**



According to WNA and IAEA Power Reactor Information System (PRIS)

30 countries operate NPPs;

16 countries construct reactors;

4 countries build their first NPPs;

**12 countries** are planning to develop national nuclear energy programmes

Operating and building new reactors
Operating and planning new reactors
No reactors, building new reactors
No reactors, planning new reactors
Operating reactors, stable

Operating reactors, decided to phase out

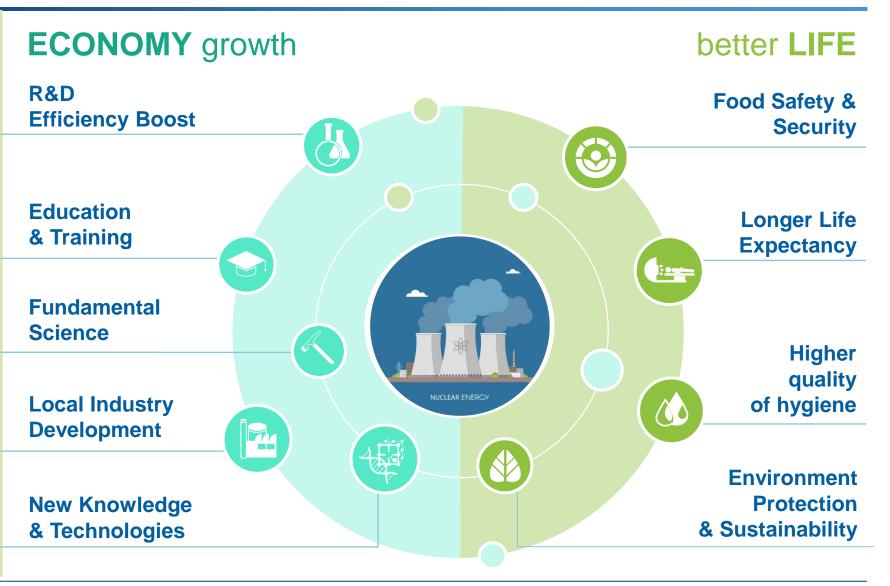
## **Nuclear Power Impact to Economy and Quality of Life**



Each \$ 1 invested in NPP earns: \$ 1,9 to local suppliers; \$ 4,3 to national GDP; \$ 1,4 of tax income

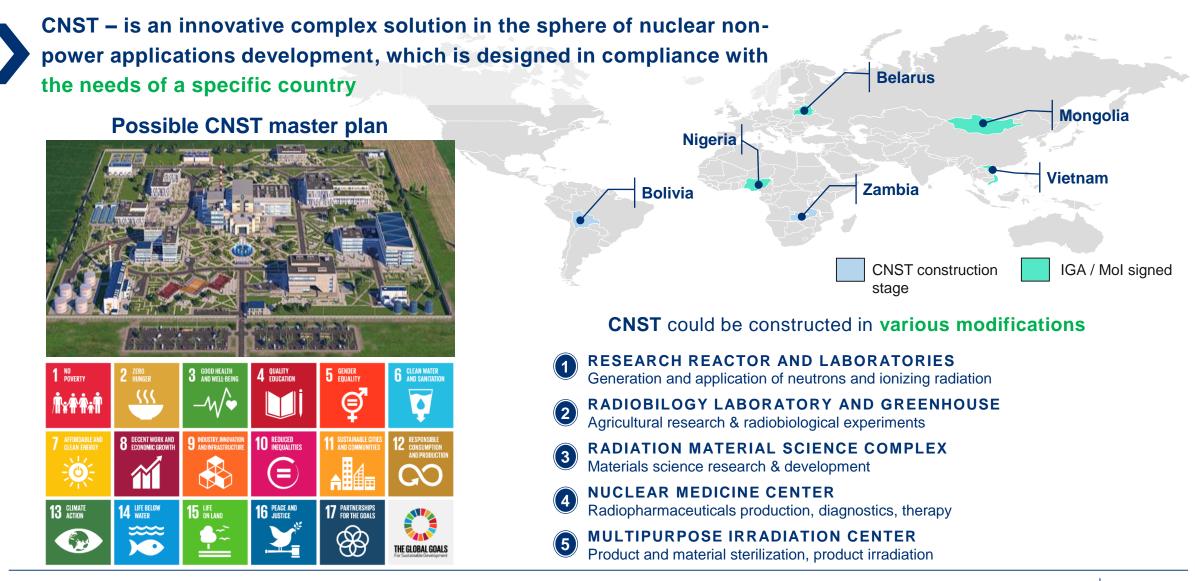
NPP construction provides **3000 jobs** on the construction site and up to **10 000 jobs** in the sphere of nuclear infrastructure

60-year life-cycle of an NPP with two VVER-1200 units **increases GDP** approximately **by \$ 40-60 bln** 



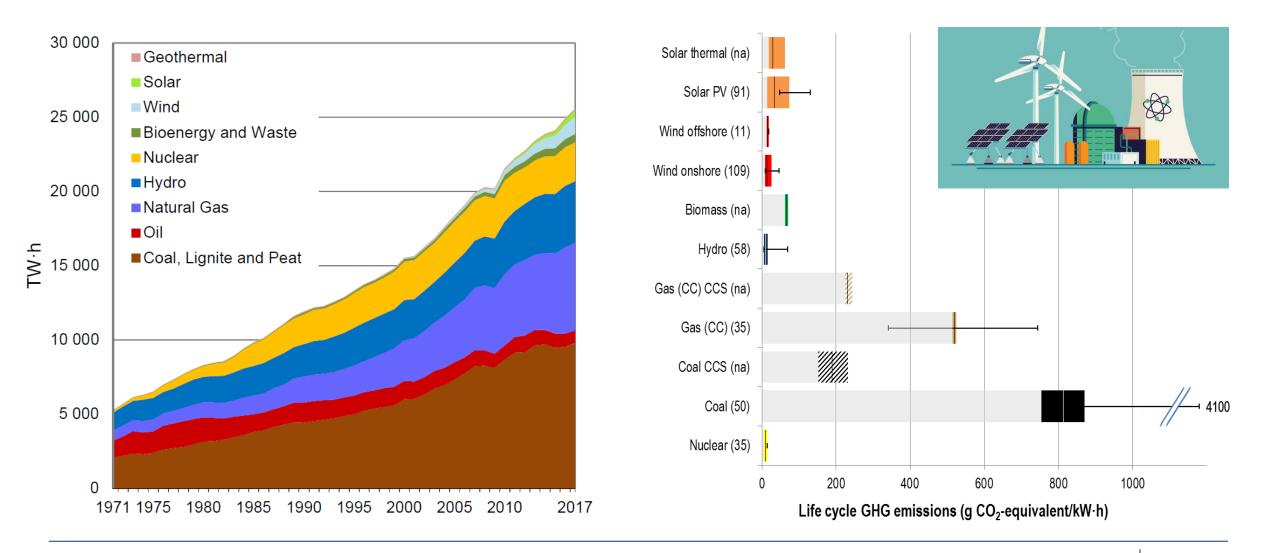
## **Centres of Nuclear Science and Technology (CNST)**





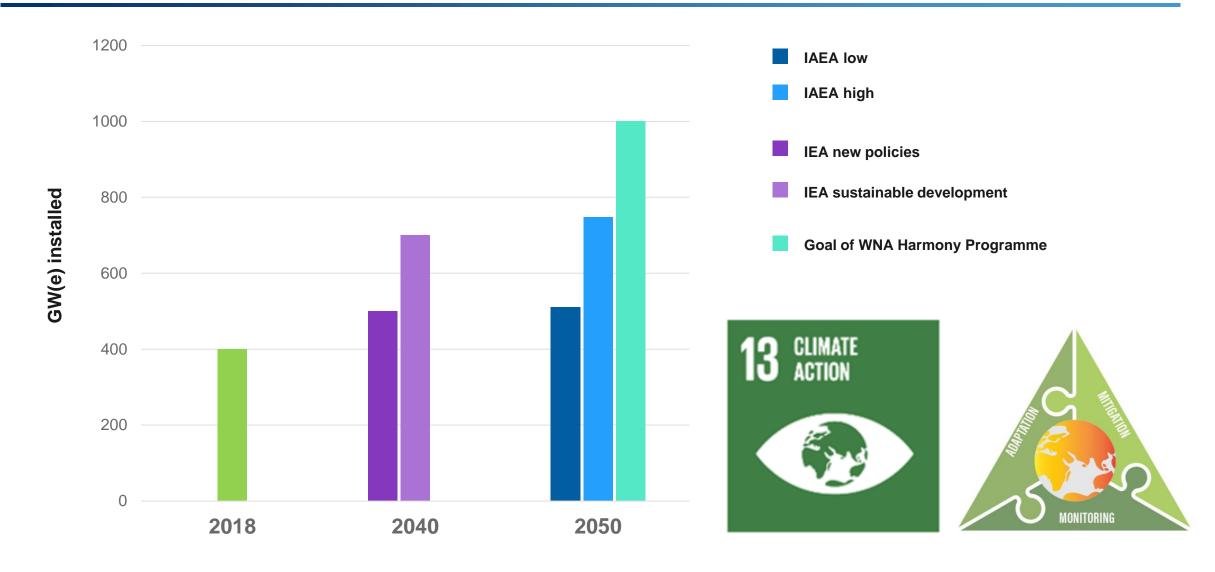
#### Share of Nuclear Generation in World Energy Production and its Impact on Climate





#### **Nuclear Power Development Projections**







## THANK YOU FOR ATTENTION!

