

Nuclear power contribution to achieving carbon footprint reduction and building a sustainable energy mix

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Nuclear
Technology
for Climate

Mitigation, Monitoring, Adaptation

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Rosatom's approach to innovations

**ROSATOM'S
CONCEPT**

**TAILOR-MADE
SOLUTIONS**

EFFICIENCY

TYPES OF INNOVATIONS



**DEVELOPMENT AND
MODERNIZATION OF EXCITING
PRODUCTS** to bring them to the best
version of themselves



BREAKTHROUGH
to bring products, services and business
to the next level of development



Safety

GENERATION III

GENERATION III+

GENERATION IV

GENERATION III+

REACTORS INCORPORATE EXTRA SAFETY FEATURES AND WERE MEANT TO MEET THE CURRENT DEMAND FOR NPPs...

...AND BRIDGE THE GAP TO GENERATION IV NUCLEAR POWER PLANTS

THAT INCORPORATE INTRINSIC SECURITY AND INHERENT SAFETY FEATURES

DEVELOPMENT AND MODERNIZATION OF EXCITING PRODUCTS

BREAKTHROUGH

Efficiency

CLOSURE OF THE NUCLEAR FUEL CYCLE WILL ALLOW THE NUCLEAR TECHNOLOGY TO MEET THE RAW CHALLENGE

DIGITALIZATION



3-D TECHNOLOGIES
(MODELING AND PRINTING)



ARTIFICIAL INTELLECT (AI) & ADVANCED
MACHINE LEARNING



AUTOMATIZATION / ROBOTIZATION



➤ TODAY: BN-600 and BN-800
➤ NEXT STEP: BN-1200

DEVELOPMENT AND MODERNIZATION
OF EXCITING PRODUCTS

BREAKTHROUGH

Tailor-made solutions



INTEGRATED OFFER



FLEXIBLE BUSINESS MODELS



VVER-1200



VVER-600



SMR

VARIETY OF SCALES



SMART SYNERGY

OF LOW-CARBON ENERGY SOURCES

DEVELOPMENT AND MODERNIZATION OF EXCITING PRODUCTS

BREAKTHROUGH

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Thank you for your attention!

