Why go into **SMRs** with **ROSATOM?**

ASIDE FROM THE VAST EXPERIENCE IN DESIGN, MANUFACTURING, CONSTRUCTION AND OPERATION OF LARGE-SCALE NPPS, **ROSATOM ALSO BOASTS AN IMPRESSIVE RECORD OF REACTOR TECHNOLOGY DEVELOPMENT FOR THE NUCLEAR ICEBREAKERS – ABOUT 400 REACTOR-YEARS.**

This experience is the foundation for Rosatom new SMRs development!

TOGETHER WITH THE ENERGY SOLUTION **ROSATOM IS KEEN TO OFFER A WIDE RANGE OF RELATED PRODUCTS AND SERVICES**, INCLUDING:

- Fuel supply for the whole NPP lifecycle
- Engineering consulting in NPP management and maintenance
- Human resources training and development
- Long-term service, maintenance and spare parts supply
- Comprehensive spent nuclear fuel and radioactive waste management solution

Rusatom Overseas BRIEFLY

Being at the forefront of the Russian nuclear industry **RUSATOM OVERSEAS** brings the unique **ROSATOM INTEGRATED OFFER** for VVER-1200 NPP, SMR NPP and CNST to the global market:

VVER-1200 NPP | **SMR NPP** | **Center for Nuclear Science and Technology**

The **ROSATOM INTEGRATED OFFER** is a set of solutions and services designed to provide comprehensive support to the national nuclear programme in the customer country, regardless of its current development stage.

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ROSATOM

Smaller Solutions for a Bigger Future

Rosatom SMR Solutions

Why go into **SMRs**

SMRs – A RESPONSE TO GLOBAL CHALLENGES, WHICH CANNOT BE ADDRESSED BY CONVENTIONAL LARGE-SCALE NUCLEAR POWER PLANTS.

ADVANTAGES OF SMR-BASED POWER PLANTS:

SMALL SIZE
SMR's compact size opens up numerous opportunities for their deployment in remote areas and limited site conditions.

MODULARITY
SMRs capacity can always be adjusted by adding new power modules. All modules are prefabricated, which reduces the cost and construction period.

MULTIPURPOSE APPLICATION
SMRs can be used for desalination and district heating purposes.

SHORT CONSTRUCTION DURATION
SMR construction time is shorter as compared to large power units.

LOW CARBON FOOTPRINT
SMRs are a good way to contribute to a green, low-carbon energy portfolio.

LOAD FOLLOWING
SMRs can be operated in load-following mode and are a great power generation option for demand-driven market.

STABLE GENERATION
SMRs power output is easy to forecast, which allows to plan ahead a continuous base-load power supply within a 60-year life cycle.

Land-based
Rosatom SMR solution

53 MWe
unit capacity

RITM-200

A reliable flagship SMR solution, designed for a wide variety of applications.

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"AKADEMIK LOMONOSOV" FNPP – THE FIRST GLOBAL REFERENCE FOR A FLOATING NUCLEAR POWER PLANT

COMMISSIONED IN
MAY 2020

OVERALL CAPACITY – UP TO **77** MWe

REFERENCED

Revised in June 2020

Floating
Rosatom SMR solution

50 MWe
unit capacity

RITM-200M

Floating nuclear power plant is designed to supply power, heat and desalinated water to coastal or isolated areas, offshore facilities, islands and archipelagoes.

INCREASED FUEL CYCLE
UP TO **10** YEARS