

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

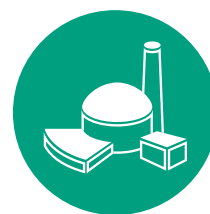
- Being at the forefront of the Russian nuclear industry **RUSATOM OVERSEAS** brings the unique **ROSATOM INTEGRATED OFFER** for VVER-1200 NPP, SMR NPP and CNST to the global market:



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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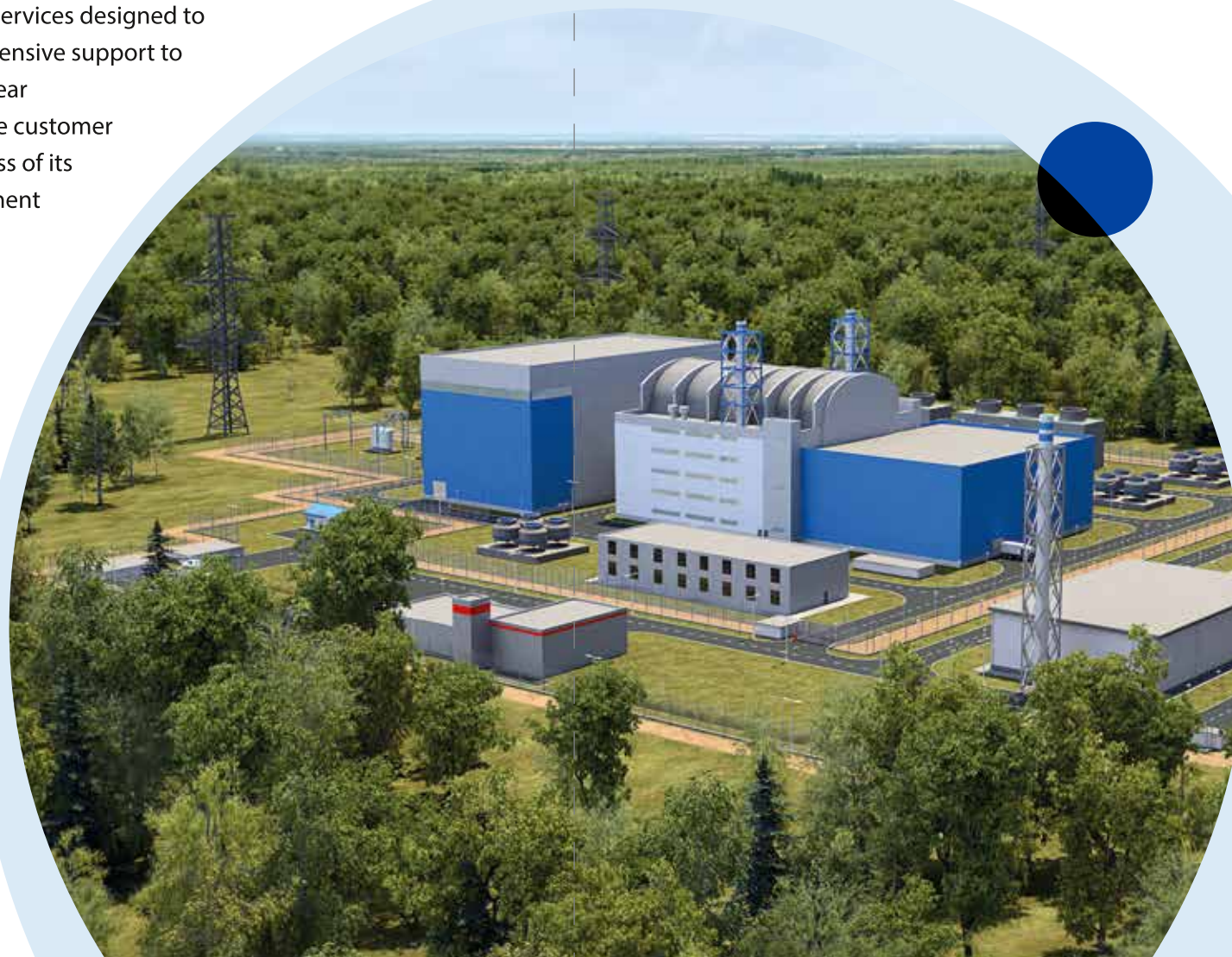
Revised in August 2019



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**

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**



REFERENCED



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