

SMALL MODULAR NPP

Innovative. Sustainable. Efficient.

ROSATOM land-based NPP equipped with RITM series SMRs is a modern solution for the development of affordable low-carbon secure energy system

Every country needs access to reliable and continuous energy supply



Affordable energy ensures constant economic development

Nuclear power has an important role to play in solving climate change



Innovative

SMR NPPs ensure long-term energy independence and boosts high-tech sectors of the economy

Unlike conventional fossil fuel power plants, SMR NPPs are not sensitive to fuel prices volatility



Sustainable

SMR NPPs do not depend on weather conditions and can ensure a low-carbon baseload generation for a local grid

Rosatom's SMR contribute to climate change mitigation by preventing the emission of 240 tons of CO2 every year (compared to diesel generation)



Efficient

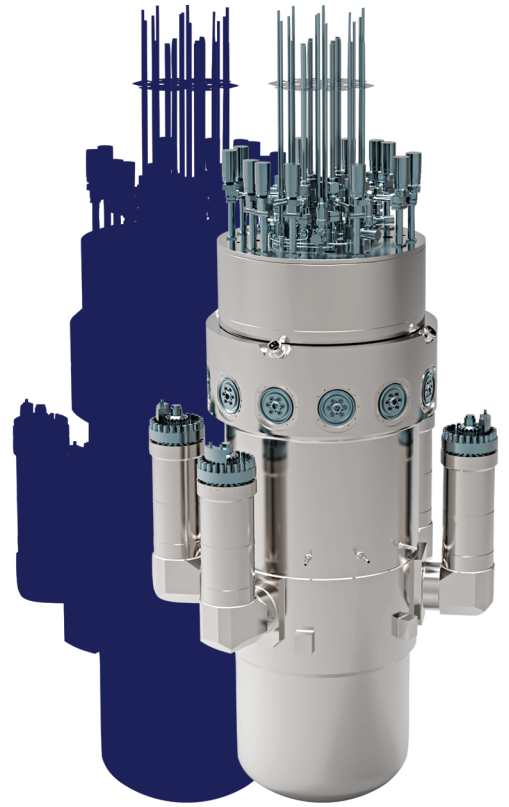
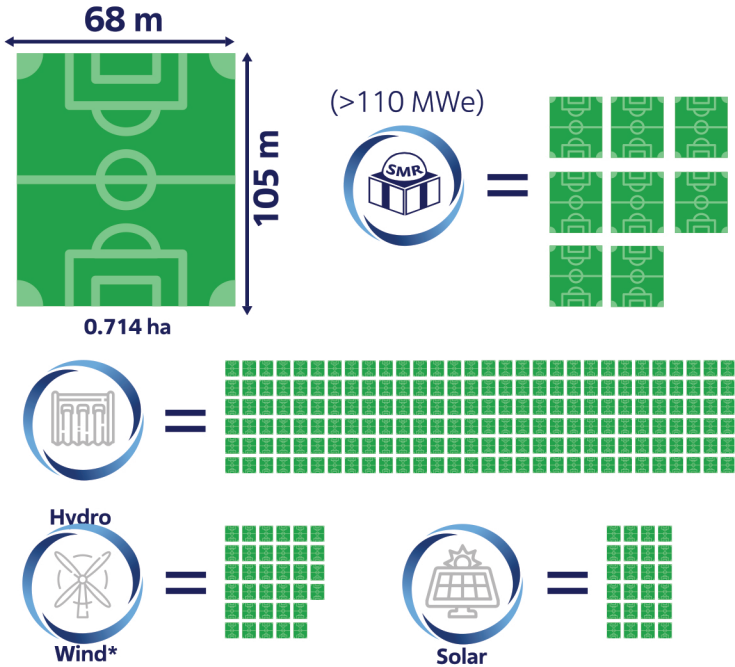
SMRs can be used for district heating, desalination and hydrogen production

Modular approach enables easy plant capacity extension by adding new power modules

SMR



Efficient land use



SMR NPP has the lowest carbon footprint

Direct CO₂ emissions, kg per MW*h



Diesel

792



Coal

820



Gas

490



SMR NPP

0

Design life time, years



SMR NPP
60+



Coal
40-50



Solar
25-30



Wind
25



1 year of SMR NPP operation substitutes (>110 MWe)



22 700
Rail cars of coal per year
(110 MWe)



5 000
Tons of LNG per year
(110 MWe)



25 000
Barrels of oil per year
(110 MWe)

The smallest share of fuel component in electricity cost



Diesel
85%



Gas
60%



Coal
30%



SMR NPP
20%