

THE STATE ATOMIC ENERGY CORPORATION ROSATOM

### NUCLEAR SOLUTIONS TO MEET SPECIFIC TERRITORIAL DEMANDS

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## The Arctic Cooperation: Nuclear Icebreakers and NSR Development







"Taymir" and "Vaygach" constructed in 1989-1990 for USSR in Finland by Wärtsilä Helsinki Shipyard.

IN DECEMBER 2018 THE PRESIDENT OF RUSSIA SIGNED A DECREE ENTRUSTING ROSATOM THE LEADING ROLE IN THE NORTHERN SEA ROUTE (NSR) DEVELOPMENT.

IN 2018, ABOUT 18 MILLION TONS OF GOODS WERE TRANSPORTED ON THE SEA ROUTE, AN INCREASE OF ALMOST 70 PERCENT FROM 2017.















# FNPP: optimized mobile solution for coastal areas power supply



				2×RITM-200M				
				OPT	IMIZATION R	ESULTS COM DEMIK LOMOI	IPARED WITH NOSOV	
Ī		METERS		6	by $28 \text{ m}$ – length reduction by $5 \text{ m}$ – beam reduction by $9000 \text{ t}$ – displacement reduction			
Ē	lectric capacity	100 MW	é E					
R	efueling cycle	up to 10 years			30% - capacity increase			
D	esign life	60 years						
D	isplacement	12 000 tons					_	
L	ength	112 m				N S S		
В	eam	25 m			<b>V</b>			
D	raught	4.5 m			Electricity	Heat	Desalination	

#### **Onshore NPP based on RITM Series SMR**





## Status of FOAK onshore NPP based on RITM-200 reactors





# Nuclear to contribute to all key pillars of the sustainable development



#### SUSTAINABLE DEVELOPMENT 3 KEY PILLARS:

#### ECONOMIC GROWTH

Incorporating nuclear energy and research results in NATIONAL ECONOMY BOOST and GDP GROWTH



Nuclear projects boost innovation development and PROMOTES EDUCATION AND R&D ACTIVITIES



applications contribute to climate change mitigation and ecosystem protection NUCLEAR IS A DOORWAY TO ACHIEVE SUSTAINABLE DEVELOPMENT GOALS SET BY THE UNITED NATIONS



#### NUCLEAR TECHNOLOGY IS AN EFFICIENT SOLUTION FOR COUNTRIES TO BOOST ALL THE SECTORS