Novovoronezh NPP II Unit 1: the first-of-a-kind

VVER-1200 Generation III+ reactor

REFERENCED

In 2016 Rosatom became the first nuclear vendor in the world to launch a Generation III+ power reactor.

The first VVER-1200 is installed at Novovoronezh NPP II Unit 1. It is successfully connected to the grid and currently is in commercial operation supplying power to Russian South.

SAFE

VVER-1200 features enhanced performance parameters.

It operates safely in full compliance with the IAEA post-Fukushima requirements.

Operation reliability is guaranteed by a smart combination of active and passive safety systems. Active systems are designed for quick response to potential emergencies. Passive systems can retain any accident without human intervention.

RELIABLE

VVER-1200 is recognized globally as one of the most innovative, reliable, and feasible power reactor technologies.

New VVERs will be put into operation at Novovoronezh NPP II, Leningrad NPP II (Russia) and Ostravets NPP (Belarus). Hungary, Finland, Turkey, Egypt, and Bangladesh are also expected to host VVER-1200 projects.

Rusatom Overseas BRIEFLY

The front-rank player of the Russian nuclear industry, RUSATOM OVERSEAS brings the exclusive ROSATOM NPP INTEGRATED OFFER to the global market. Apart from construction of LARGE-SCALE NPPS featuring the state-of-the-art VVER-1200 technology, the offer also includes creating and developing nuclear infrastructure in the customer country, local workforce training and professional development, involving local suppliers into the project, as well as guaranteed fuel supplies, NPP maintenance and operation support, SNF (spent nuclear fuel) reprocessing and RAW (radioactive waste) management, and more.

The ROSATOM NPP INTEGRATED OFFER is a set of solutions and services designed by Rosatom to provide comprehensive support to the national nuclear program in the customer country, regardless its current stage of development, and to make the whole range of products and services available to the customer from a single supplier throughout the NPP life cycle.

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ROSATOM

Rosatom NPP Integrated Offer

EMPOWERING the Globe

Why choose the Rosatom NPP INTEGRATED OFFER?

- Rosatom's Integrated Offer is based on the state-of-the-art **GENERATION III+ VVER-1200 REACTOR TECHNOLOGY** representing a fusion of the Russian atomic heritage, modern international reliability requirements and the latest post-Fukushima safety standards
- Rosatom's unique expertise in large-scale nuclear projects is backed up by its **70 YEARS' HANDS-ON EXPERIENCE IN ESTABLISHING AND MANAGING THE RUSSIAN NUCLEAR INDUSTRY**
- Rosatom's global outreach makes it possible to efficiently negotiate and implement Russian-designed NPP projects in circa **50 COUNTRIES WORLDWIDE**. Rosatom boasts an international backlog of as many as **36 POWER UNITS OVERSEAS**
- **ROSATOM SUPPORTS ITS CUSTOMERS THROUGHOUT THE CIVIL NUCLEAR PROGRAMME:** from the very introduction of a nuclear option into the energy strategy to decommissioning of the last nuclear facility

START

NUCLEAR INFRASTRUCTURE DEVELOPMENT
preparing the customer country to host a nuclear facility in accordance with the world's best practices, as well as IAEA requirements

PUBLIC ACCEPTANCE
raising public awareness of the benefits, that nuclear energy provides and disseminating positive information about its effects among the population

HUMAN RESOURCES DEVELOPMENT
training the professionals qualified to manage a national nuclear programme and to operate nuclear facilities safely and efficiently

FUEL SUPPLY
uninterrupted fuel supply throughout the NPP operation cycle to ensure continuous power flow in the national grid

ENERGY SOLUTION
design, construction, and commissioning of large-scale NPPs and Small Modular Reactors, both technologies designed to be a reliable source of power

INDUSTRIAL SOLUTION
enabling local suppliers to contribute to the national nuclear programme and giving a boost to the local economy

OPERATION & MAINTENANCE
managing safe operation and cost-effective power generation at NPPs

BACK END
providing eco-friendly solutions for SNF/RW treatment and decommissioning nuclear facilities

ROSATOM

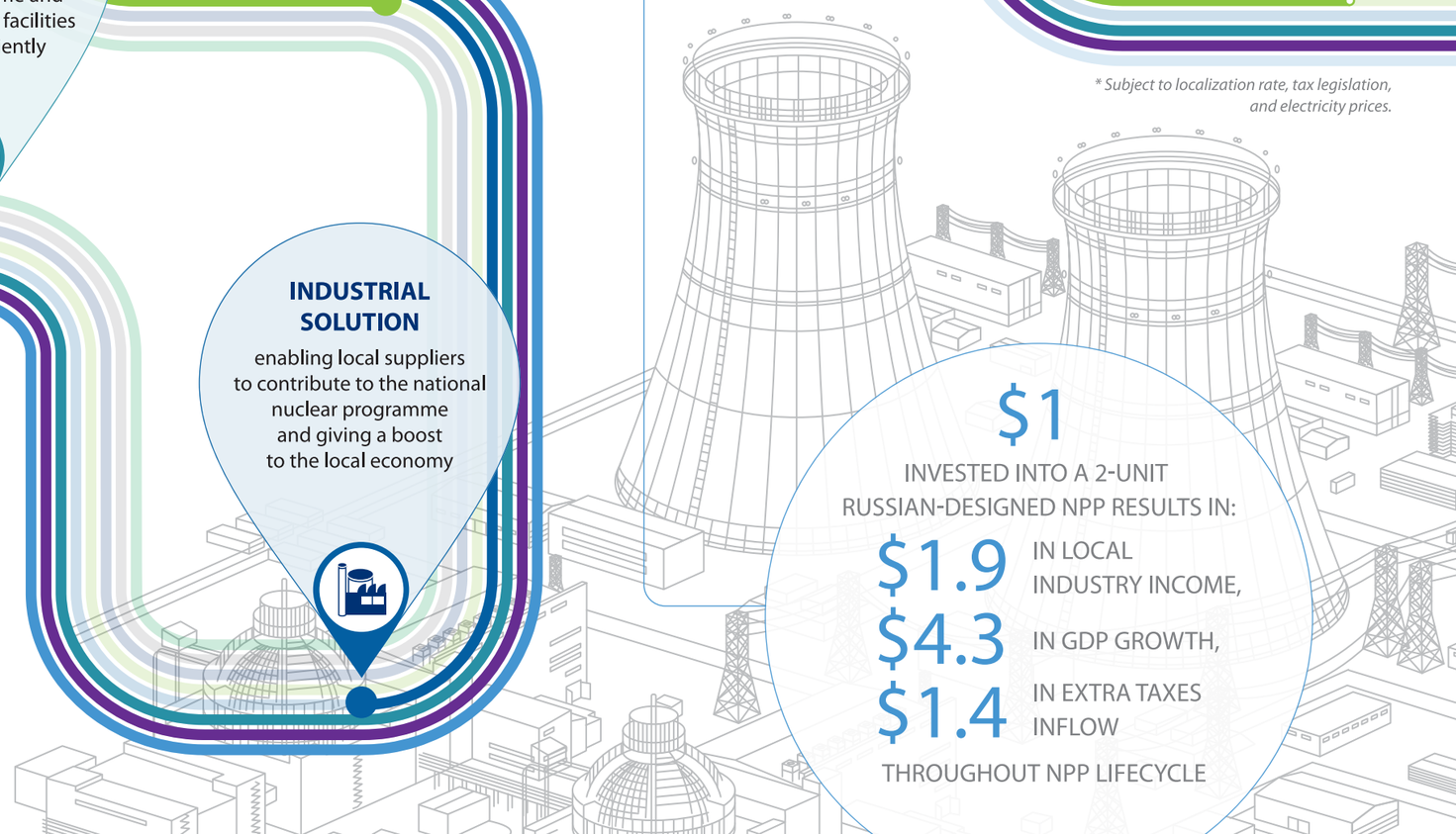
~8000
NEW JOBS ON SITE

~1500
NEW JOBS IN THE NUCLEAR INFRASTRUCTURE

THROUGHOUT 60 YEARS' LIFE CYCLE TWO **VVER-1200** UNITS BOOST GDP BY

$40-60
BILLION*

** Subject to localization rate, tax legislation, and electricity prices.*



$1
INVESTED INTO A 2-UNIT RUSSIAN-DESIGNED NPP RESULTS IN:

$1.9 IN LOCAL INDUSTRY INCOME,
$4.3 IN GDP GROWTH,
$1.4 IN EXTRA TAXES INFLOW
THROUGHOUT NPP LIFECYCLE