

**Rosatom:**  
**Stop it Now, Not to be Late**

**April 25<sup>th</sup>, 2023**

Research activities  
and participation in  
international  
organizations

Contracts related to  
operating existing  
nuclear power plants

The activities of many  
scientific research  
organizations that are  
part of the state  
corporation "Rosatom"  
are closely related to  
the Russian military-  
industrial complex.

New cooperation  
agreements and  
MoUs

**Rosatom – not the one company but 360**

# Rosatom research activities and participation in international organizations



## ITER NEWSLINE -

13 FEB, 2023

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### Russian coil delivered

## ALL RING-SHAPED MAGNETS NOW "HOME" AT ITER

Of all the components and systems that Russia contributes to ITER, poloidal field coil #1 (PF1) is the most massive and one of the most complex. Measuring nine metres in diameter and weighing approximately 160 tonnes, it is the smallest of the six ring-shaped magnets that circle the ITER Tokamak and the only one that is not procured by Europe.



PF1 passed the ITER gates at around 4:15 a.m. on Friday 10 February. The long journey had begun on 1 November 2022 when the coil



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International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO)

- **Remove Russia from research projects and do not give access to new technologies (INPRO, ITER)**
- **Remove Russians from the management bodies of the IAEA**  
Mikhail Chudakov is the Deputy Director General and Head of the Department of Nuclear Energy 
- **Add Russian research organizations to the sanctioned companies list**

## Sanctions:

**Research activities and participation in international organizations**

### World enrichment capacity – operational in 2020 and planned

**According to a report from the Russian corporation for the year 2021, "Rosatom" controls:**

- 38% of the global market for uranium enrichment
- 17% of the global market for nuclear fuel, supplying over a dozen reactors in Europe
- 1<sup>st</sup> place in the world for the portfolio of foreign projects for the construction of nuclear power plants.

Operator	Capacity (thousand SWU/yr)		
	2020	2025	2030
CNNC	6300	11,000	17,000
Orano	7500	7500	7500
Rosatom	27,700	26,200	24,800
Urenco	18,600	17,300	16,300
Other	66	375	525
<b>Total</b>	<b>60,166</b>	<b>62,375</b>	<b>66,125</b>

<https://world-nuclear.org/information-library/nuclear-fuel-cycle/conversion-enrichment-and-fabrication/uranium-enrichment.aspx>

# Contracts related to operating existing nuclear power plants

- Sanction Russian companies working in nuclear sector

«Rosatom», «Concern Rosenergoatom», JSC «Ekspluatirushchaya Organizaciya, Zaporozhskaya AES», FSUE «Zaporozhskaya AES», JSC «TVEL», JSC «Rosatom Overseas», JSC «Atomstroyexport», INTERNEXCO GmbH, TENEX, etc.

- Personal sanctions and restrictions on certain structures of Rosatom

A large number of organizations that are part of Rosatom's structure do not directly participate in the operation of existing facilities or in ensuring the production, supply, and disposal cycle of nuclear fuel. However, the absence of these companies on Western sanction lists potentially opens the opportunity to supply of raw materials and electronic components for the Russian defense industry.

- Addition to REPowerEU with a phased plan to reduce dependence on the corporation 'Rosatom' at the EU level.

The 'Nuclear Protocol' to the REPowerEU Action Plan includes: discontinuation of cooperation with 'Rosatom' in existing nuclear power plant construction projects in favor of other suppliers; search for alternative solutions for technical maintenance of facilities, replacement of Russian-made equipment; discontinuation of the supply of uranium raw materials from Russia, which can currently be introduced without significant risk of shortage and price fluctuations; diversification of conversion and enrichment services; replacement of nuclear fuel supplier and services for storage and processing of spent nuclear fuel.

## Sanctions:

# Contracts related to operating existing nuclear power plants

- Rosatom boasts foreign projects portfolio of 34 reactors
- = \$140 billion financial value of orders for the next 10 years

The most ambitious, advanced and dangerous for European energy security project in this list appears to be the construction of the Akkuyu Nuclear Power Plant in Turkey, with a total capacity of 4,800 MW.

The project is being implemented under the BOO (build-own-operate) model, which means that the Russian side will not only carry out the design and construction work of the nuclear power plant, its maintenance, and operation but will also be the owner of the facility itself.

## New cooperation agreements and MoUs

- **Blocking Rosatom projects abroad**

Blocking supplies of Western equipment and technologies to Russia and to facilities under construction or serviced by Russian companies; closing international offices of Rosatom in EU and G7 countries; spreading economic sanctions on critical supplies for nuclear energy, such as specialized carbon fiber; promoting alternatives to Russian nuclear technologies and simultaneously advocating for the abandonment of Russian nuclear power plant construction projects..

- **Blocking cooperation of Western companies with Rosatom on new nuclear projects**

Germany: Siemens Energy; France: Framatome, Assystem; ASEFA, Orano

The joint production of Siemens and Framatome - control and measurement devices, as well as control systems for new nuclear reactors.

Assystems: a partnership with RASU JSC concerning the provision of consulting and engineering support for the design and commissioning of nuclear power plants.

General Electric: production of Arabelle turbines.

**Sanctions:**  
**New cooperation agreements and MoUs**



# Thank you for your attention!

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