

Safety is the Top Priority of the Akkuyu NPP Project

The Akkuyu NPP construction project is being implemented in strict compliance with international conventions in the field of nuclear energy, including the Convention on Nuclear Safety signed by the Republic of Turkey in 1994.

AKKUYU NUCLEAR JSC acts in accordance with Turkish law and international safety requirements that ensure comprehensive regulation of activities in the field of nuclear energy use, including the standards of the International Atomic Energy Agency (IAEA).

The efficiency of design solutions underlying the safety systems of modern Russian-designed VVER-1200 reactors has been verified by the Stress Test Report submitted to the European Nuclear Safety Regulators Group (ENSREG) based on the recommendations made by the European Commission.

About REIN JSC

Rusatom Energy International, Joint-Stock Company (REIN JSC) runs Rosatom's international projects for Russian-design NPP construction and operation based on equity ownership in project companies.

AKKUYU NUCLEAR JSC (REIN JSC's subsidiary) constructs Akkuyu NPP in the Mersin Province in Turkey. REIN JSC is a majority shareholder of AKKUYU NUCLEAR JSC. Akkuyu NPP is the first nuclear power plant ever to be built in the Republic of Turkey. Akkuyu NPP will have four Russian-design Generation III+ VVER-1200 reactor units with a total installed capacity of 4800 MW. The service life of each power unit is 60 years, with a possibility of extension.

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PROMOTING SUSTAINABLE DEVELOPMENT

Nuclear Power is an Important Component of Sustainable Development

AKKUYU NUCLEAR JSC and REIN JSC fulfil the objectives of Rosatom's international business as the global nuclear industry rallies towards achieving the 17 United Nations Sustainable Development Goals (UN SDGs).

In this regard, we see it as our key task to ensure access to affordable, reliable, sustainable and modern energy for all (Goal 7) – an essential precondition for making progress on all 17 UN SDGs.



Integrated and comprehensive consideration of global sustainable development agenda priorities fosters a comfortable environment for human life and ensures the most careful attitude to the environment and resources as crucial components of the global sustainable strategy.

With all four units commissioned, the Akkuyu NPP operation will prevent an average of **18 million tons*** of CO₂ equivalent emissions in Turkey annually through replacing capacities based on more carbon-intensive sources



* Calculated on the basis of the "Methodology for assessing the effects of nuclear energy from the point of view of sustainable development" of the State Corporation "Rosatom" (2020)

Low-Carbon Energy for Sustainable Growth

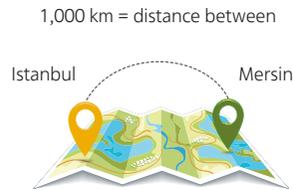
Nuclear power generation produces no direct CO₂ emissions, similar to renewable energy sources (such as wind power).



When in operation, the stable base load provided by Akkuyu NPP improves reliability of power supply for the Turkish industry and economy as a whole, thus enhancing opportunities for sustainable development in the country.

The commissioning of the Akkuyu NPP will provide the country's energy mix with a significant amount of stable electricity – **35 billion kWh** annually, sufficient to provide about **90%** of electricity for a large city like Istanbul.

The total length of the high-voltage lines that will be built as part of the Akkuyu NPP power distribution scheme will exceed **1,000 km**, which means creating the most powerful and branched power distribution system in Turkey.



The National Research Nuclear University MEPhI and the Peter the Great St. Petersburg Polytechnic University (SPbPU) are involved in personnel education for the Akkuyu NPP: Russian universities will graduate at least **600** Turkish young nuclear specialists by 2027.

Contribution to Social and Economic Development

Localization, that is involvement of Turkish companies in the Akkuyu NPP project, creates multiple positive impacts for the economy of the region and Turkey in general. As of the end of 2021, more than 400 Turkish companies are included in the list of project suppliers.

As of the end of 2021, the NPP construction site employs over 13,000 people, about 80% of them are Turkish citizens. Once the Akkuyu NPP is commissioned, its operating personnel will amount to approx. 4,000 people, including over 700 Turkish engineers.

All employees of AKKUYU NUCLEAR JSC, both Russian and Turkish, are offered equitable conditions: a transparent remuneration system and employment benefits.

