

Belarus

IAEA Member State since April 1957

Selected achievements

2023: Unit 2 of the Belarusian Nuclear Power Plant is connected to the national electricity grid.

2021: Unit 1 of the Belarusian Nuclear Power Plant is connected to the national electricity grid.

2018: Belarus produces new radiopharmaceuticals for medical diagnostic procedures.



The IAEA has been providing support to Belarus to ensure the stable operation of its first nuclear power plant.
(Photo: Belarus NPP)

National priorities

- Nuclear and radiation safety
- Emergency preparedness and response
- Spent fuel and radioactive waste management
- Nuclear security
- Management of Chernobyl-affected areas
- Human health
- Nuclear science, technology and research
- Industrial and environmental applications of isotope and radiation technologies
- Nuclear knowledge management

Main areas of IAEA support

- Regulatory authority and operator preparation for nuclear power introduction
- Minimization of Chernobyl accident effects
- Human health

Project successes

Energy planning and nuclear power

For more than 10 years, the IAEA has been providing expertise and capacity building to Belarus to ensure the stable operation of its first nuclear power plant.

This has entailed multiple review missions, including the final Integrated Nuclear Infrastructure Review (INIR) Phase 3 in 2020.

By diversifying Belarus's energy mix and enhancing security, the Belarusian NPP, operational since 2020, significantly reduced reliance on natural gas, contributing to sustainable energy practices and providing electricity to nearly two million homes.

Radiation protection and nuclear safety

When Belarus initiated its nuclear power programme in 2007, the IAEA provided expertise and support to help Gosatomnadzor (the national nuclear regulatory authority) establish regulatory capacities.

This support facilitated the creation of legislation, safety guidelines, and regulations and enabled the licensing process for the Ostrovets Nuclear Power Plant (NPP). IAEA expertise, evaluations and inspections played a pivotal role in this process.

The regulatory framework continues to be enhanced with IAEA support.

Human health

In 2018, Belarus launched the safe and sustainable production of radiopharmaceuticals needed for nuclear medicine. The IAEA supported the training of medical personnel at top European PET centres and by procuring a heavily shielded hot cell with a synthesis module for the Minsk PET-Centre.

These newly developed radiopharmaceuticals have enabled over 600 diagnostic procedures to take place, enhancing cancer detection sensitivity and elevating healthcare capabilities in Belarus.



Belarus has greatly enhanced its healthcare capabilities by launching radiopharmaceutical production with IAEA training and support. (Photo: IAEA)

Participation in the major initiatives

- ZODIAC

Date of imPACT Review(s)

2016

IAEA support received in the 21st century



Contributions to South-South and triangular cooperation

