

# Uzbekistan

IAEA Member State since January 1994

## Selected achievements

**2018/2019:** Two new state of the art linear accelerators (LINACs) for use in radiotherapy become operational in Tashkent.

**2017:** The Government of Uzbekistan decides to develop a nuclear power programme.

**2008:** The IAEA starts to support the Institute of Nuclear Physics for the conversion of the WWR-SM research reactor's fuel from high to low enriched uranium, whilst modernising several of its main components and systems.



Over the past decade, the IAEA has helped Uzbekistan to upgrade the infrastructure of four oncology centres in the country, thereby increasing access to radiotherapy and diagnostic imaging for thousands of cancer patients. (Photo: IAEA)

## National priorities

- Radiation safety
- Human health
- Food and agriculture
- Water and the environment
- Radioactive waste management

## Main areas of IAEA support

- Nuclear safety
- Human health
- Nuclear power programme

## Project successes

### Human health

Over the past decade, the IAEA has helped Uzbekistan to upgrade the infrastructure of four oncology centres in the country, thereby increasing access to radiotherapy for thousands of cancer patients.

IAEA support focused on clinical capacity building, commissioning new equipment and conducting multidisciplinary training courses.

These interventions have contributed to the long term improvement of cancer treatment capabilities in Uzbekistan.

### Research reactors

The IAEA supported the transformation of Uzbekistan's WWR-SM research reactor from highly enriched uranium (HEU) to low enriched uranium (LEU) fuel, thereby ensuring the continued functionality of the reactor for isotope production and research.

IAEA support helped to modernize key components of the reactor, build human resource capacities and plan long term operational maintenance.

Additionally, the IAEA supported the decommissioning of Uzbekistan's second research reactor, IIN-3M. This was completed in 2018 and resulted in improved overall nuclear safety and security in the country.

### Environmental radiation monitoring

The IAEA helped Uzbekistan to monitor radioactivity in former uranium mining and production sites.

This involved training laboratory staff in sampling and analytical techniques, procuring a new alpha spectrometer system for measuring low-level alpha-emitting radionuclides and acquiring a portable air sampler for air monitoring.

These enhanced monitoring capabilities have enabled environmental impact assessments, safety verifications and the effective

implementation of remediation programmes to avert potentially negative effects on people and the environment associated with residues from uranium production.

## Participation in the major initiatives

- Rays of Hope
- ZODIAC

## Date of imPACT Review(s)

2022, 2014



IAEA safety review team members and Uzatom experts inspect the meteorological station near the selected nuclear power plant site. (Photo: N. Harman/Jacobs)

## IAEA support received in the 21st century



## Contributions to South-South and triangular cooperation

