

Cambodia

IAEA Member State since November 2009

Selected achievements

2022: Cambodia accedes to the Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency as part of its commitment to the peaceful use of nuclear technology.

2018: The Drug Residue Laboratory is established with the support of the IAEA and the Asian Development Bank.



Practical measurements with the portable XRF on bricks of the inner walls of the Lion temple at the Sambor Prei Kuk archaeological site, Cambodia. (Photo: S. Phorn/Ministry of Culture and Fine Arts of Cambodia)

National priorities

- Legislative framework
- Radiation and nuclear safety
- Human health
- Food and agriculture
- Water resource management
- Energy planning
- Waste management
- Industrial applications, including cultural heritage preservation
- Human resource development

Main areas of IAEA support

- Capacity building in radiotherapy
- Sterile insect technique implementation
- Water resource management
- Cultural heritage protection
- National non-destructive testing capability
- Food safety
- Sustainable rice production: soil and water management

Project successes

Radiation safety

Cambodia has improved its radiation safety with IAEA support.

The Department of Nuclear Science and Technology collected data from 80+ facilities, uploading half to the IAEA's Regulatory Authority Information System. Over a thousand participants underwent three training programmes and ten workshops on radiation protection and safety.

The issuance of a Ministerial Circular in 2021 and the drafting of Technical Guidance on Safety and Security for Radiation Source Use were crucial outcomes.

IAEA support established robust regulatory infrastructure, ensuring sustained advancements in Cambodia's radiation safety.

Animal production

The IAEA has supported genetic selection procedures in Cambodia which resulted in superior cattle breeds.

The National Animal Health and Production Research Institute (NAHPRI) expanded artificial insemination services with IAEA assistance.

Storing thousands of semen samples from superior cattle, they successfully inseminated thousands of cows.

Post-IAEA capacity building, NAHPRI staff conducted four training workshops, educating hundreds on cattle artificial insemination.

NAHPRI now provides artificial insemination services directly to farmers, showcasing the sustainable impact of IAEA assistance on Cambodia's livestock sector.

Safety and security

Since 2018, Cambodia's Ministry of Mines and Energy has provided personal monitoring services (TLD) to nearly 200 radiation workers in key national institutions and industrial facilities, advancing the individual monitoring programme for external radiation sources.

This effort aimed to extend programme coverage to national institutions with a specific focus on medical facilities, utilizing the IAEA's procurement of an extra 2000 TLD cards in 2022.

As a result, radiation safety measures were improved, promoting a sustainable method for monitoring and safeguarding the health of workers across different sectors.



An imPACT Review mission conducted in Cambodia in 2023 noted significant achievements in expanding access to cancer treatment. (Photo: I. Veljkovik/IAEA)

Participation in the major initiatives

- Rays of Hope
- ZODIAC

Date of imPACT Review(s)

2023, 2013

IAEA support received in the 21st century



Contributions to South-South and triangular cooperation

