

Ethiopia

IAEA Member State since January 1957

Selected achievements

2023: The nuclear medicine service at Black Lion Hospital becomes operational.

2021: Public radiotherapy services in Ethiopia are enhanced by two additional linear accelerators in Jimma and Haremaya.

2014: The National Veterinary Institute receives ISO 17025 accreditation from the Ethiopian National Accreditation Office and is established as a centre of excellence for transboundary animal disease diagnoses in eastern Africa.



Ethiopia hosted international and national experts from the IAEA, WHO, and IARC to assess the country's cancer care needs and capacity as part of a 2023 imPACT Review. (Photo: Anon/Black Lion Hospital)

National priorities

- Nuclear and radiation safety and security
- Food and agriculture
- Human health and nutrition
- Water and environment
- Energy and industrial applications
- Science and technology

Main areas of IAEA support

- Tsetse fly and trypanosomosis disease control
- Human health
- Industrial applications
- Radiation safety

Project successes

Cancer control

Ethiopia is expanding nuclear medicine and radiotherapy services to six regional university hospitals (Gondar, Jimma, Hawassa, Wolaita Soddo, Harrar, and Mekele) as part of its National Cancer Control Programme. The IAEA provided fellowships for physicians, medical physicists, radiation therapy technologists and oncology nurses in nuclear medicine and radiotherapy. This project enabled seven Masters in Medical Physics, 17 Masters in Nuclear Medicine, and the training of four radiation therapy technologists. All underwent training in Italy and Ghana.

Nuclear safety and security

The Ethiopian Radiation Protection Authority (ERPA) has made significant progress in its control of radiation sources and occupational radiation protection system operations. The IAEA supported the ERPA through training and advisory missions for the management of sealed radioactive sources, and by procuring equipment.

The completion of the first centralized national radioactive waste facility in 2014 significantly enhanced ERPA's capacities to collect, condition, and safely store disused radioactive sources.

Animal production and health

Since 2011, the IAEA, through the Joint FAO/IAEA Division, has increased its support to the National Veterinary Institute (NVI) by training and providing equipment in nuclear and nuclear related serological and molecular diagnostic technologies. This strategic focus aimed to position the NVI as a regional leader in transboundary animal disease diagnoses in Eastern Africa. As a result, the NVI received ISO 17025 accreditation from the Ethiopian National Accreditation Office in 2014, demonstrating its proficiency and status as a front-line diagnostic laboratory.



An animal vaccination programme helps keep Ethiopia's livestock healthy and its food safe. The programme is implemented using nuclear techniques, with the support of the IAEA and in cooperation with the FAO. (Photo: M. Gaspar/IAEA)

Participation in the major initiatives

- NUTEC Plastics
- Rays of Hope
- ZODIAC

Date of imPACT Review(s)

2023, 2010

IAEA support received in the 21st century



Contributions to South-South and triangular cooperation

