Yemen

IAEA Member State since October 1994

Selected achievements

2024: Yemen's first Country Programme Framework is signed for the period 2024–2029.

2023: Twenty-one Yemeni medical professionals in nuclear medicine, diagnostics and radiotherapy, successfully build capacity in cancer treatment through IAEA group fellowships.

2019: A programme to breed small ruminant animals is launched in Yemen's highlands.

2016: Highland farmers in Shibam Kawkaban, Bani-Mater and Khulan Affar start cultivating two new barley varieties produced with nuclear techniques. A new wheat variety adopted in the Amran Governorate increases yields and farmer incomes.

National priorities

- Food safety
- Agriculture
- Animal health
- Management of water resources
- Human health

Main areas of IAEA support

- Human health
- Agriculture
- Establishment of biotech laboratories
- Chemical analyses

Project successes

Livestock production

Rearing livestock, particularly small ruminants, provides one of the main sources of food and income to Yemen's rural communities.

A Yemen delegation visits the King Houssain Cancer Center in Amman, Jordan. (Photo: L. Yang/IAEA)

With support from the IAEA, Yemen's Agricultural Research and Extension Authority (AREA) has built and enhanced breeding capacity in the central highland region.

AREA staff improved their skills through fellowships and training in artificial insemination, animal nutrition, and diagnosis of animal diseases.

This support has enabled Yemen to manage its small farms more effectively and to ensure security of a vital source of food and income for rural communities through sustained improvements in livestock management.

Cancer care

Medical staff at the National Oncology Center enhanced their skills with support from the IAEA. Staff at the centre developed expertise in the latest nuclear medicine protocols, diagnostics, breast imaging, radiotherapy, and radiopharmacy through fellowships and hands-on training.

This support has further improved patient care, ensuring the continuity of cancer treatment services and enhancing capabilities for transitioning from 2D to 3D in radiotherapy treatment and for the use of newly introduced therapeutic radiopharmaceuticals, such as Lu-17.

Climate smart agriculture

Agriculture is a major source of employment in Yemen and an increasingly important sector for the country's economy. However, major issues due to soil salinity, droughts, pests and diseases have threatened the sustainability of crop production.

The IAEA has been supporting Yemen's efforts to protect its agricultural sector from challenges such as soil salinity and drought through trainings focusing on mutation breeding and soil and water management.

As a result, farmers in the Amran area have now adopted a new wheat variety which increases yields, and newly developed potato and cabbage crops that require only half the amount of water and fertilizer.

Yemen's growing expertise has not only increased food security and farmer incomes, but it has also led to the establishment of a crop mutation breeding programme which is now being shared with neighbouring countries.

TC project counterparts from Yemen conduct a peer exchange visit to the Jordan Atomic Energy Commission in 2022. (Photo: M. Omari/JAEC)

Participation in the major initiatives

- NUTEC Plastics
- ZODIAC

Date of imPACT Review(s)

2007

IAEA support received in the 21st century

39 national TC projects implemented

469 fellows and scientific visits (99 women)

658 training participants (107 women)

516 meeting participants (66 women)

40 expert missions received (1 woman)

Contributions to South-South and triangular cooperation

38 meeting participants hosted (16 women)

19 expert missions supported