



THE NUCLEAR NON-PROLIFERATION TREATY: PEACEFUL USES OF NUCLEAR ENERGY, SCIENCE, AND TECHNOLOGY

THE NPT'S PEACEFUL USES PILLAR

Since the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) came into force more than 50 years ago, cooperation on the peaceful uses of nuclear energy, science, and technology (“peaceful uses”) has grown tremendously. Increasingly, Parties to the NPT are successfully making the benefits of peaceful uses accessible to all in a safe and secure manner. Today, thanks to the confidence provided by the NPT, nuclear applications are greatly improving the lives of people all around the world.

PEACEFUL USES OF NUCLEAR TECHNOLOGY ADDRESS MANY GLOBAL CHALLENGES

Peaceful uses help address some of today’s most pressing challenges, including climate change, human health, and sustainable development. The benefits are clear and all NPT Parties must work to ensure continued access to them in a safe and secure manner, and without increasing the risk of nuclear proliferation.

THE UNITED STATES FIRMLY SUPPORTS PEACEFUL USES

- **Promoting peaceful nuclear applications:** Since 2015, the United States has provided more than \$395 million to help the IAEA promote peaceful nuclear applications, including more than \$189 million to the International Atomic Energy Agency’s (IAEA) Technical Cooperation Fund, \$93 million to its Peaceful Uses Initiative (PUI), and more than \$113 million in additional financial and in-kind support for IAEA peaceful uses activities. These contributions have enhanced, and will continue to enhance, the capabilities of more than 170 IAEA Member States to promote human health, water resource management, food security, sustainable development, and clean energy.
- **Making additional commitments:** In November 2020, the United States announced an additional commitment of \$50 million to support the PUI over the next five years, cementing our status as the largest donor to the IAEA. The PUI provides a flexible funding mechanism to support peaceful uses programs, and IAEA projects supported with PUI funding can be found in nearly every region of the world.
 - **Ensuring food security:** In Africa, U.S. contributions of over \$6.9 million in support of the PUI have helped fund laboratories to improve the detection of livestock diseases. In Asia, U.S. contributions of over \$2.3 million have been used to support similar laboratories. In Latin America, U.S. contributions of over \$1.9 million in support of the PUI have helped ensure food

quality and reduced insect threats to agriculture. All dollar figures are based on U.S. extrabudgetary contributions to the IAEA as of June 30, 2022.

- **Advancing human health:** Throughout the world, the PUI has strengthened national capacities to detect and treat cancer, supported education and training in nuclear medicine to improve the treatment of cardiac patients, and enhanced early detection capabilities for infectious animal and zoonotic diseases, including COVID-19. The United States has supported these efforts through the contribution of more than \$16.5 million in PUI funding.
- **Protecting the environment:** U.S. contributions of over \$8.9 million in support of the PUI have funded interregional projects to better understand the effects of climate change, trace pollution and harmful algal blooms in marine waters, and promote global actions against ocean acidification.
- **Advancing nuclear security:** Since 2015, the United States has provided nearly \$135 million in voluntary contributions to the IAEA's Nuclear Security Fund to help ensure the physical protection of nuclear material, and nearly \$5 million to strengthen emergency preparedness and response capabilities of IAEA Member States.
- **Bilateral cooperation:** As of December 2021, the United States has in place 23 agreements pursuant to Section 123 of the U.S. Atomic Energy Act that establish the legal framework for significant civil nuclear cooperation with 49 partners. To support the safe and secure use of peaceful nuclear applications, the United States has over 70 bilateral arrangements for the exchange of technical information and cooperation.
- **Improving accessibility:** Additionally, the United States has completed more than 400 licensing and authorization actions since 2015 to support exports of nuclear material, equipment, and technology, and transfers of assistance to more than 60 countries.
- **Promoting safe, reliable access:** The United States is advancing international efforts to help guarantee safe, secure, and reliable access to nuclear fuel. We have also made available 230 metric tons of low-enriched uranium, down-blended from surplus highly enriched uranium, via our American Assured Fuel Supply, which is now the largest fuel reserve in the world.
- **Sustained Dialogue on Peaceful Uses:** In collaboration with the United Kingdom and with support from other NPT States Parties, the United States has launched a new effort to expand access to the benefits of peaceful uses cooperation. Working with the IAEA, the Sustained Dialogue will promote greater access, understanding, and acceptance of peaceful nuclear technologies, elaborate on how peaceful uses can help meet UN Sustainable Development Goals, and drive new areas of international cooperation in advancing peaceful uses consistent with our NPT obligations.

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