

FOREWORD by IAEA Director General Rafael Mariano Grossi

In 2023, as we marked the 70th anniversary of US President Dwight D. Eisenhower's famous 'Atoms for Peace' speech, the International Atomic Energy Agency remained as relevant as ever through its indispensable work in safety, security and safeguards and in expanding access to the lifesaving and life-affirming uses of nuclear science and technology across the globe.

In October, I launched Atoms4Food together with the Director-General of the Food and Agriculture Organization of the United Nations. The initiative looks at the needs of individual Member States and harnesses our experience in using nuclear techniques and technologies to enhance food security and nutrition. At the same time, we continued to implement existing key initiatives such as Rays of Hope, ZODIAC and NUTEC Plastics.

Our efforts to refurbish the unique and critically important facilities and laboratories at Seibersdorf achieved a milestone when, in November, we were able to announce the completion of all major fundraising for ReNuAL2. Just a few weeks before, we had been in Seibersdorf for the opening of the Agency's new Nuclear Security Training and Demonstration Centre, which will assist Member States in tackling nuclear terrorism and crime.

An important part of our work in 2023 was to ensure transparency around the discharge of ALPS-treated water from Fukushima Daiichi NPP. In July, I presented to Prime Minister Fumio Kishida of Japan an Agency report that found the discharge approach to be consistent with international safety standards. The results of the Agency's independent sampling and analysis of the water indicate tritium levels well below Japan's operational limits.

Another key priority was to support Ukraine's nuclear safety and security as the war stretched into its second year. Some 86 Agency missions comprising 187 staff travelled to Ukraine and over €7.5 million worth of equipment was delivered. The Agency maintained an uninterrupted presence at all five nuclear sites in Ukraine and, in May, I presented to the UN Security Council the five principles for protecting nuclear safety and security at Zaporizhzhya NPP.

I am confident that we will look back at 2023 as a milestone in the transition to net zero. At COP28, leaders for the first time backed investment in nuclear as a low-carbon energy source. Key to making this happen is that governments establish the appropriate conditions.

Small modular reactors (SMRs) will play an important role, including in developing countries, but only once they move from development to deployment. In 2023, our Nuclear Harmonization and Standardization Initiative (NHSI), which supports the timely and safe deployment of SMRs, made concrete progress in highlighting approaches to getting this done.

The nuclear sector still has some way to go in terms of gender equality and I am determined that the Agency will be part of the solution. By the end of 2023, the IAEA Marie Skłodowska-Curie Fellowship Programme had 560 fellows and we had launched the Lise Meitner Programme, offering early- and midcareer women in the nuclear sector new opportunities for career advancement. We also progressed towards gender equality in the Secretariat. Gender balance was achieved in senior management while in the Professional and higher categories, 44% of positions were held by women.

In closing, let me touch on the future, where fusion energy no longer seems the far-flung prospect it once was. At the 29th IAEA Fusion Energy Conference, I launched the World Fusion Energy Group, which will bring together key stakeholders on the next leg of the journey from experimentation to demonstration to deployment.

As this report shows, the Agency is maximizing its impact efficiently and sustainably, proving an invaluable asset to its 178 Member States seven decades after it was first envisioned.

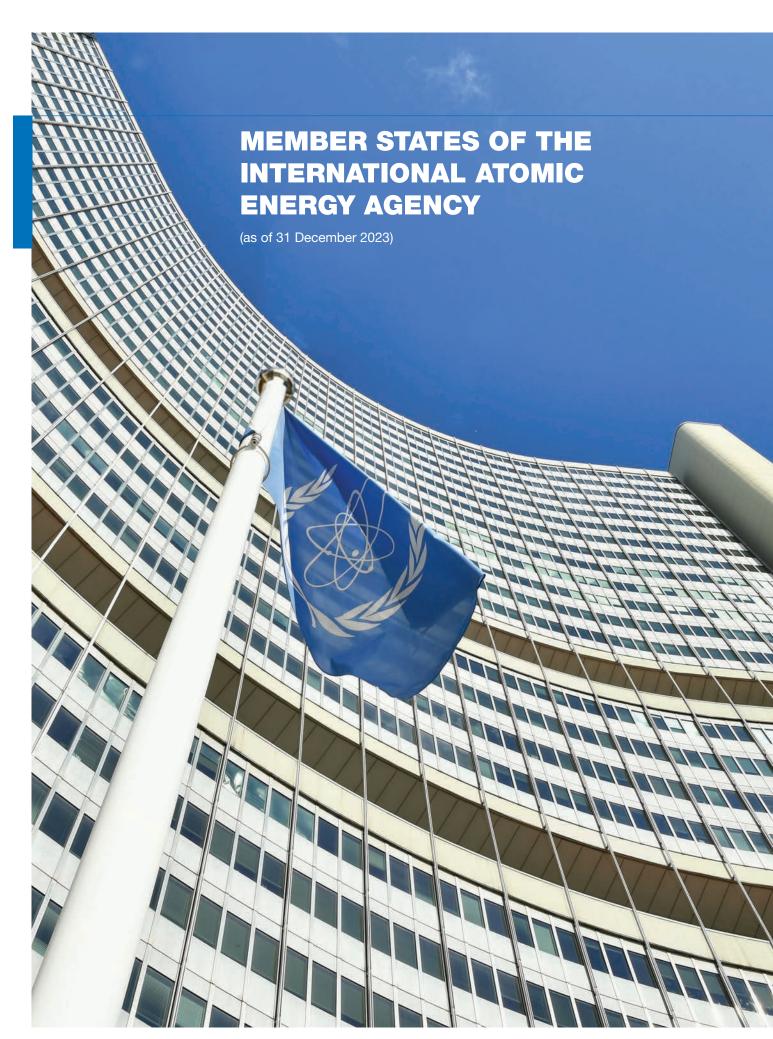
Rafael Mariano Grossi IAEA DIRECTOR GENERAL



IAEA ANNUAL REPORT 2023

Article VI.J of the Agency's Statute requires the Board of Governors to submit "an annual report to the General Conference concerning the affairs of the Agency and any projects approved by the Agency".

This report covers the period 1 January to 31 December 2023.



AFGHANISTAN ALBANIA ALGERIA ANGOLA ANTIGUA AND BARBUDA ARGENTINA ARMENIA AUSTRALIA AUSTRIA AZERBAIJAN BAHAMAS BAHRAIN BANGLADESH BARBADOS BELARUS BELGIUM BELIZE RENIN **BOLIVIA**, **PLURINÁTIONAL** STATE OF **BOSNIA AND HERZEGOVINA BOTSWANA BRAZIL BRUNEI DARUSSALAM BULGARIA BURKINA FASO** BURUNDI

CABO VERDE CAMBODIA CAMEROON CANADA **CENTRAL AFRICAN REPUBLIC** CHAD

CHINA COLOMBIA COMOROS CONGO **COSTA RICA CÔTE D'IVOIRE CROATIA CUBA CYPRUS CZECH REPUBLIC**

CHILE

DEMOCRATIC REPUBLIC OF THE CONGO **DENMARK DJIBOUTI DOMINICA**

DOMINICAN REPUBLIC ECUADOR EGYPT EL SALVADOR ERITREA ESTONIA ESWATINI ETHIOPIA FINLAND FRANCE GABON GAMBIA, THE **GEORGIA GERMANY GHANA GREECE GRENADA GUATEMALA GUINEA GUYANA** HAITI

HUNGARY ICELAND INDIA **INDONESIA** IRAN, ISLAMIC REPUBLIC OF **IRAQ IRELAND ISRAEL ITALY JAMAICA JAPAN JORDAN**

HOLY SEE

HONDURAS

KAZAKHSTAN KENYA KOREA, REPUBLIC OF **KUWAIT KYRGYZSTAN** LAO PEOPLE'S **DEMOCRATIC** REPUBLIC LATVIA LEBANON **LESOTHO LIBERIA LIBYA**

LIECHTENSTEIN LITHUANIA LUXEMBOURG

MADAGASCAR MALAWI MALAYSIA MALI **MALTA** MARSHALL ISLANDS **MAURITANIA MAURITIUS MEXICO** MONACO **MONGOLIA MONTENEGRO MOROCCO MOZAMBIQUE MYANMAR**

NAMIBIA NEPAL NETHERLANDS. KINGDOM OF THE **NEW ZEALAND NICARAGUA NIGER NIGERIA**

NORTH MACEDONIA NORWAY OMAN PAKISTAN PALAU PANAMA PAPUA NEW GUINEA

PERU PHILIPPINES POLAND PORTUGAL QATAR

PARAGUAY

REPUBLIC OF MOLDOVA **ROMANIA**

RUSSIAN FEDERATION RWANDA

SAINT KITTS AND NEVIS

SAINT LUCIA SAINT VINCENT AND THE GRENADINES

SAN MARINO **SAUDI ARABIA SENEGAL SERBIA SEYCHELLES** SIERRA LEONE

SINGAPORE

SLOVAKIA SLOVENIA SOUTH AFRICA SPAIN

SRI LANKA SUDAN **SWEDEN SWITZERLAND** SYRIAN ARAB REPUBLIC TAJIKISTAN **THAILAND** TOGO **TONGA**

TRINIDAD AND TOBAGO **TUNISIA**

TÜRKİYE **TURKMENISTAN UGANDA UKRAINE UNITED ARAB EMIRATES**

UNITED KINGDOM OF **GREAT BRITAIN AND** NORTHERN IRELAND UNITED REPUBLIC OF

TANZANIA

UNITED STATES OF AMERICA URUGUAY UZBEKISTAN VANUATU VENEZUELA.

BOLIVARIAN REPUBLIC

VIET NAM YEMEN **7AMRIA ZIMBABWE**

The Agency's Statute was approved on 23 October 1956 by the Conference on the Statute of the IAEA held at United Nations Headquarters, New York; it entered into force on 29 July 1957. The Headquarters of the Agency are located in Vienna.

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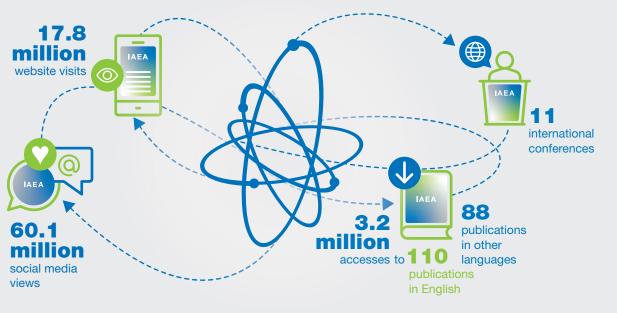
THE AGENCY AT A GLANCE



* At the United Nations average rate of exchange of US \$0.925 to €1.00. The total Regular Budget was €425.79 million at the US \$1.00 to €1.00 rate.







THE BOARD OF GOVERNORS

The Board of Governors oversees the ongoing operations of the Agency. It comprises 35 Member States and generally meets five times a year, or more frequently if required for specific situations.

In the area of nuclear technologies, in the course of 2023 the Board considered the *Nuclear Technology Review 2023*.

In the area of safety and security, the Board discussed the *Nuclear Safety Review 2023* and the *Nuclear Security Review 2023*.

In March 2023, the Board appointed the Director General for a further four-year term of office, from 3 December 2023 to 2 December 2027.

As regards verification, the Board considered the Safeguards Implementation Report for 2022. The Board considered the Director General's reports on verification and monitoring in the Islamic Republic of Iran in light of United Nations Security Council resolution 2231 (2015). The Board also considered the Director General's reports on naval nuclear propulsion: Australia and naval nuclear propulsion: Brazil, respectively. The Board kept under its consideration the implementation of the Treaty on the Non-Proliferation of Nuclear

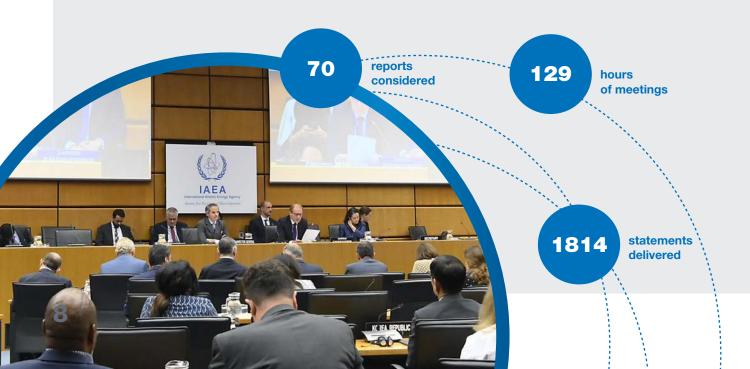
Weapons (NPT) Safeguards Agreement in the Syrian Arab Republic and the application of safeguards in the Democratic People's Republic of Korea and considered the Director General's respective reports thereon. The Board also kept under its consideration the issue of the NPT Safeguards Agreement with the Islamic Republic of Iran and considered the Director General's reports thereon.

The Board considered the Director General's reports on nuclear safety, security and safeguards in Likraine

The Board discussed the *Technical Cooperation Report for 2022* and approved funding for the Agency's technical cooperation programme for 2024.

The Board considered IAEA safeguards in relation to AUKUS; and the restoration of sovereign equality in the Agency.

In June 2023, the Board approved the recommendations contained in the proposal to the Board of Governors by the co-chairs of the Working Group on the Regular Budget and the Technical Cooperation Fund Targets for 2024–2025.





COMPOSITION OF THE BOARD OF GOVERNORS

2023-2024

35

Board members



CHAIR HE Mr Holger Federico MARTINSEN

(Governor from Argentina)



VICE-CHAIRS

HE Ms Emilia KRALEVA

(Governor from Bulgaria)



HE Mr Peter POTMAN

(Governor from the Kingdom of the Netherlands)

Algeria Argentina Armenia

Australia

Bangladesh

Brazil

Bulgaria

Burkina Faso

Canada

China

Costa Rica

Denmark

Ecuador

Finland France

Germany

India

Indonesia

Japan

Kenya

Korea, Republic of

Namibia

Netherlands,

Kingdom of the

Paraguay

Qatar

Russian Federation

Saudi Arabia

Singapore

South Africa

Spain

Türkiye

Ukraine

United Kingdom of Great Britain and Northern Ireland

United States of

America

Uruguay

THE GENERAL CONFERENCE

The General Conference comprises all Member States of the Agency and usually meets once a year, in regular session.

In January 2023, the General Conference convened a special session, at the request of the Board of Governors, for the purpose of approving *The Agency's Draft Budget Update for 2023 (Revised)*, in accordance with Article XIV.A of the Statute. The draft budget update was duly approved.

In its regular session in September 2023, the General Conference approved the appointment of the Director General from 3 December 2023 to 2 December 2027, and adopted resolutions on the Agency's financial statements for 2022; on the Agency's budget for 2024; on nuclear and radiation safety; on nuclear security; on strengthening the Agency's technical cooperation activities; on strengthening the Agency's activities related to nuclear science, technology and applications, comprising non-power nuclear applications,

nuclear power applications and nuclear knowledge management; on strengthening the effectiveness and improving the efficiency of Agency safeguards; on the implementation of the NPT Safeguards Agreement between the Agency and the Democratic People's Republic of Korea; on the application of IAEA safeguards in the Middle East; on the status of Palestine in the IAEA; on restoration of the sovereign equality of Member States in the IAEA; on nuclear safety, security and safeguards in Ukraine; and on staffing of the Secretariat and women in the Secretariat. The Conference also adopted decisions on the progress made towards the entry into force of the amendment to Article XIV.A of the Statute, approved in 1999, and on the progress made towards the entry into force of the amendment to Article VI of the Statute, approved in 1999.





registered





Member State representatives

89

from international organizations

153 from NGOs



PRESIDENT OF THE GENERAL CONFERENCE

HE Ms Vilawan Mangklatanakul

Ambassador and Resident Representative of Thailand



side events



14 285

livestream participants



3274 downloads of the GC67 mobile app

ABBREVIATIONS

AEOI	Atomic Energy Organization of Iran	FINAS	Fuel Incident Notification and Analysis System
ALMERA	Analytical Laboratories for the Measurement of Environmental	HFIPS	Hefei Institutes of Physical Science
ALPS	Radioactivity Advanced Liquid Processing	HOPS	Hub for On-line Nuclear Power Plant Part-Task Simulators
AP	System additional protocol	ICTP	Abdus Salam International Centre for Theoretical Physics
ARTEMIS	Integrated Review Service for Radioactive Waste and Spent Fuel Management, Decommissioning and Remediation	imPACT	integrated missions of PACT
		INIR	Integrated Nuclear Infrastructure Review
CNDC	China Nuclear Data Center	INIR-RR	Integrated Nuclear Infrastructure Review for Research Reactors
CNPP	country nuclear power profile IAEA Comprehensive Capacity-	INIS	International Nuclear Information System
COMPASS	Building Initiative for SSACs and SRAs	INL	Idaho National Laboratory
ConvEx	Convention Exercise	INSARR	Integrated Safety Assessment of Research Reactors
СОР	Conference of the Parties to the United Nations Framework Convention on Climate Change	INSServ	International Nuclear Security Advisory Service
CPF	country programme framework	IPPAS	International Physical Protection Advisory Service
CRP	coordinated research project	IRMIS	International Radiation Monitoring
CSA	comprehensive safeguards agreement		Information System
DIRATA	Database on Discharges of Radionuclides to the Atmosphere and Aquatic Environment	IRRS	Integrated Regulatory Review Service
		IRRUR	Integrated Research Reactor Utilization Review
DSRS-TeC	Disused Sealed Radioactive Sources Technical Centre	IRS	Incident Reporting System
EDD	peer review	IRSRR	Incident Reporting System for Research Reactors
EPR	emergency preparedness and response	ISCA	Independent Safety Culture Assessment
EPREV	Emergency Preparedness Review	ISOP	International Network on
Euratom	European Atomic Energy Community	ISOF	Innovation to Support Operating Nuclear Power Plants
FAO	Food and Agriculture Organization of the United Nations	ITU	International Telecommunication Union

LEU	low enriched uranium	RISS	Advisory Mission on Regulatory Infrastructure for Radiation Safety and Nuclear Security
MIT	Massachusetts Institute of Technology		
NHSI	Nuclear Harmonization and Standardization Initiative	SALTO	Safety Aspects of Long Term Operation
NPP	nuclear power plant	SANIS	Simulation and Experimental Analyses Network Information
NPT	Treaty on the Non-Proliferation of Nuclear Weapons	0===	System
NUTEC Plastics	NUclear TEChnology for Controlling Plastic Pollution	SEED	Site and External Events Design
		SMR	small modular reactor
OECD/NEA	Nuclear Energy Agency of the Organisation for Economic Co-operation and Development	SPECT-CT	single photon emission computed tomography–computed tomography
OMARR	Operation and Maintenance Assessment for Research Reactors Occupational Radiation Protection Appraisal Service	SQP	small quantities protocol
		TCF	Technical Cooperation Fund
		TSR	Technical Safety Review
		UNESCO	United Nations Educational, Scientific and Cultural
OSART	Operational Safety Review Team		Organization
PACT	Programme of Action for Cancer Therapy	UNEP	United Nations Environment Programme
PRIS	Power Reactor Information	WHO	World Health Organization
	System	ZODIAC	Zoonotic Disease Integrated Action
PROSPER	Peer Review of Operational Safety Performance Experience		
QUAADRIL	Quality Assurance Audit for Diagnostic Radiology Improvement and Learning		
QUANUM	Quality Assurance in Nuclear Medicine		
QUATRO	Quality Assurance Team for Radiation Oncology		
RANET	Response and Assistance Network		