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# IAEA Annual Report 2018

**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 2018.**

# Contents

<i>Member States of the International Atomic Energy Agency</i> .....	iv
<i>The Agency at a Glance</i> .....	v
<i>The Board of Governors</i> .....	vi
<i>The General Conference</i> .....	vii
<i>Notes</i> .....	viii
<i>Abbreviations</i> .....	ix

---

Overview .....	1
----------------	---

## **Nuclear Technology**

Nuclear Power .....	31
Nuclear Fuel Cycle and Waste Management .....	39
Capacity Building and Nuclear Knowledge for Sustainable Energy Development .....	45
Nuclear Science .....	48
Food and Agriculture .....	56
Human Health .....	61
Water Resources .....	64
Environment .....	67
Radioisotope Production and Radiation Technology .....	70

## **Nuclear Safety and Security**

Incident and Emergency Preparedness and Response .....	75
Safety of Nuclear Installations .....	79
Radiation and Transport Safety .....	85
Radioactive Waste Management and Environmental Safety .....	89
Nuclear Security .....	92

## **Nuclear Verification**

Nuclear Verification .....	99
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## **Technical Cooperation**

Management of Technical Cooperation for Development .....	111
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<b>Annex</b> .....	123
<b>Organizational Chart</b> .....	169

# Member States of the International Atomic Energy Agency

(as of 31 December 2018)

AFGHANISTAN	GERMANY	OMAN
ALBANIA	GHANA	PAKISTAN
ALGERIA	GREECE	PALAU
ANGOLA	GRENADA	PANAMA
ANTIGUA AND BARBUDA	GUATEMALA	PAPUA NEW GUINEA
ARGENTINA	GUYANA	PARAGUAY
ARMENIA	HAITI	PERU
AUSTRALIA	HOLY SEE	PHILIPPINES
AUSTRIA	HONDURAS	POLAND
AZERBAIJAN	HUNGARY	PORTUGAL
BAHAMAS	ICELAND	QATAR
BAHRAIN	INDIA	REPUBLIC OF MOLDOVA
BANGLADESH	INDONESIA	ROMANIA
BARBADOS	IRAN, ISLAMIC REPUBLIC OF	RUSSIAN FEDERATION
BELARUS	IRAQ	RWANDA
BELGIUM	IRELAND	SAINT VINCENT AND THE GRENADINES
BELIZE	ISRAEL	SAN MARINO
BENIN	ITALY	SAUDI ARABIA
BOLIVIA, PLURINATIONAL STATE OF	JAMAICA	SENEGAL
BOSNIA AND HERZEGOVINA	JAPAN	SERBIA
BOTSWANA	JORDAN	SEYCHELLES
BRAZIL	KAZAKHSTAN	SIERRA LEONE
BRUNEI DARUSSALAM	KENYA	SINGAPORE
BULGARIA	KOREA, REPUBLIC OF	SLOVAKIA
BURKINA FASO	KUWAIT	SLOVENIA
BURUNDI	KYRGYZSTAN	SOUTH AFRICA
CAMBODIA	LAO PEOPLE'S DEMOCRATIC REPUBLIC	SPAIN
CAMEROON	LATVIA	SRI LANKA
CANADA	LEBANON	SUDAN
CENTRAL AFRICAN REPUBLIC	LESOTHO	SWEDEN
CHAD	LIBERIA	SWITZERLAND
CHILE	LIBYA	SYRIAN ARAB REPUBLIC
CHINA	LIECHTENSTEIN	TAJIKISTAN
COLOMBIA	LITHUANIA	THAILAND
CONGO	LUXEMBOURG	TOGO
COSTA RICA	MADAGASCAR	TRINIDAD AND TOBAGO
CÔTE D'IVOIRE	MALAWI	TUNISIA
CROATIA	MALAYSIA	TURKEY
CUBA	MALI	TURKMENISTAN
CYPRUS	MALTA	UGANDA
CZECH REPUBLIC	MARSHALL ISLANDS	UKRAINE
DEMOCRATIC REPUBLIC OF THE CONGO	MAURITANIA	UNITED ARAB EMIRATES
DENMARK	MAURITIUS	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND
DJIBOUTI	MEXICO	UNITED REPUBLIC OF TANZANIA
DOMINICA	MONACO	UNITED STATES OF AMERICA
DOMINICAN REPUBLIC	MONGOLIA	URUGUAY
ECUADOR	MONTENEGRO	UZBEKISTAN
EGYPT	MOROCCO	VANUATU
EL SALVADOR	MOZAMBIQUE	VENEZUELA, BOLIVARIAN REPUBLIC OF
ERITREA	MYANMAR	VIET NAM
ESTONIA	NAMIBIA	YEMEN
ESWATINI <sup>a</sup>	NEPAL	ZAMBIA
ETHIOPIA	NETHERLANDS	ZIMBABWE
FIJI	NEW ZEALAND	
FINLAND	NICARAGUA	
FRANCE	NIGER	
GABON	NIGERIA	
GEORGIA	NORTH MACEDONIA <sup>b</sup>	
	NORWAY	

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. The IAEA's principal objective is "to accelerate and enlarge the contribution of atomic energy to peace, health and prosperity throughout the world".

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<sup>a</sup> The name 'Eswatini' replaces the former name 'Swaziland' as of 29 June 2018.

<sup>b</sup> The name 'North Macedonia' replaces the former name 'The former Yugoslav Republic of Macedonia' as of 15 February 2019.

# The Agency at a Glance

(as of 31 December 2018)

- 170** Member States.
- 85** intergovernmental and non-governmental organizations worldwide invited to observe the Agency's General Conference.
- 62** years of international service.
- 2552** professional and support staff.
- €365.9 million** total Regular Budget for 2018<sup>1</sup>. Extrabudgetary expenditures in 2018 totalled **€84.9 million**.
- €85.7 million** target in 2018 for voluntary contributions to the Agency's Technical Cooperation Fund, supporting projects involving **3640** expert and lecturer assignments, **6739** meeting participants and other project personnel, **3282** participants in **196** regional and interregional training courses and **1816** fellows and scientific visitors.
- 146** countries and territories receiving support through the Agency's technical cooperation programme, including **35** least developed countries.
- 1016** active technical cooperation projects at the end of 2018.
  - 2** liaison offices (in New York and Geneva) and **2** safeguards regional offices (in Tokyo and Toronto).
  - 15** international laboratories (Vienna, Seibersdorf and Monaco) and research centres.
  - 11** multilateral conventions on nuclear safety, security and liability adopted under the Agency's auspices.
  - 4** regional/cooperative agreements relating to nuclear science and technology.
- 136** Revised Supplementary Agreements governing the provision of technical assistance by the Agency.
- 121** active CRPs involving **1626** approved research, technical and doctoral contracts and research agreements. In addition, **71** Research Coordination Meetings were held.
  - 33** active IAEA Collaborating Centres. In 2018, **4** institutions were newly designated as IAEA Collaborating Centres and **2** centres were redesignated as IAEA Collaborating Centres for a period of 4 years.
  - 16** national donors to the voluntary Nuclear Security Fund.
- 182** States in which safeguards agreements were being implemented<sup>2,3</sup> of which **134** States had additional protocols in force, with **2195** safeguards inspections performed in 2018. Safeguards expenditures in 2018 amounted to **€138.64 million** in the operational portion of the Regular Budget and **€18.9 million** in extrabudgetary resources.
  - 20** national safeguards support programmes and **1** multinational support programme (European Commission).
- 600 000** visitors a month to [iaea.org](http://iaea.org), representing a 20% increase since 2017. The Agency's social media audience reached **430 000** followers at the end of 2018, an 8% increase during the year. The Agency launched a multilingual version of its web site in 2018 and now has an on-line presence in Arabic, Chinese, French, Russian and Spanish, in addition to English.
  - 4.2 million** records in the Agency's International Nuclear Information System (INIS) database, with over **568 000** full texts not readily available through commercial channels and **3.2 million** page views in 2018.
  - 1.2 million** documents, technical reports, standards, conference proceedings, journals and books in the IAEA Library and over **8 000** visitors to the Library in 2018.
  - 141** publications, including newsletters, issued in 2018 (in print and electronic formats).

<sup>1</sup> At the United Nations average rate of exchange of US \$1.181 to €1.00. The total Regular Budget was €373.3 million at the US \$1.00 to €1.00 rate.

<sup>2</sup> These States do not include the Democratic People's Republic of Korea, where the Agency did not implement safeguards and, therefore, could not draw any conclusion.

<sup>3</sup> And Taiwan, China.

# 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 2018 the Board considered the *Nuclear Technology Review 2018*.

In the area of safety and security, the Board discussed the *Nuclear Safety Review 2018* and the *Nuclear Security Report 2018*.

As regards verification, the Board considered the *Safeguards Implementation Report for 2017*. It approved two safeguards agreements and three additional protocols. 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 kept under its consideration the issues of 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.

The Board discussed the *Technical Cooperation Report for 2017* and approved financing for the Agency's technical cooperation programme for 2019.

The Board approved the recommendations contained in the *Proposal by the Chair of the Board of Governors on The Agency's Budget Update for 2019*.

## Composition of the Board of Governors (2018–2019)

Chair:

HE Ms. Leena AL HADID  
Ambassador  
Governor from Jordan

Vice-Chairs:

HE Mr. Armen PAPIKYAN  
Ambassador  
Governor from Armenia

HE Mr. Ghislain D'HOOP  
Ambassador  
Governor from Belgium

Argentina  
Armenia  
Australia  
Azerbaijan  
Belgium  
Brazil  
Canada  
Chile  
China  
Ecuador  
Egypt  
France  
Germany

India  
Indonesia  
Italy  
Japan  
Jordan  
Kenya  
Korea, Republic of  
Morocco  
Netherlands  
Niger  
Pakistan  
Portugal  
Russian Federation

Serbia  
South Africa  
Sudan  
Sweden  
Thailand  
United Kingdom of  
Great Britain and  
Northern Ireland  
United States of America  
Uruguay  
Venezuela, Bolivarian  
Republic of

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# The General Conference

The General Conference comprises all Member States of the Agency and meets once a year. At the end of 2018, the Agency's membership was 170.

The Conference adopted resolutions on the Agency's financial statements for 2017 and budget for 2019; 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; and on the application of Agency safeguards in the Middle East. The Conference also adopted decisions on the progress made towards the entry into force of the amendment to Article XIV.A of the Statute of the Agency, approved in 1999; and on the report on the promotion of the efficiency and effectiveness of the Agency's decision making process.

# Notes

- The *IAEA Annual Report 2018* aims to summarize only the significant activities of the Agency during the year in question. The main part of the report, starting on page 29, generally follows the programme structure as given in *The Agency's Programme and Budget 2018–2019* (GC(61)/4). The objectives included in the main part of the report are taken from that document and are to be interpreted consistently with the Agency's Statute and decisions of the Policy-Making Organs.
- The introductory chapter, 'Overview', seeks to provide a thematic analysis of the Agency's activities within the context of notable developments during the year. More detailed information can be found in the latest editions of the Agency's *Nuclear Safety Review*, *Nuclear Security Report*, *Nuclear Technology Review*, *Technical Cooperation Report* and the *Safeguards Statement and Background to the Safeguards Statement*.
- Additional information covering various aspects of the Agency's programme is available, in electronic form only, on [iaea.org](http://iaea.org), along with the *Annual Report*.
- The designations employed and the presentation of material in this document do not imply the expression of any opinion whatsoever on the part of the Secretariat concerning the legal status of any country or territory or of its authorities, or concerning the delimitation of its frontiers.
- The mention of names of specific companies or products (whether or not indicated as registered) does not imply any intention to infringe proprietary rights, nor should it be construed as an endorsement or recommendation on the part of the Agency.
- The term 'non-nuclear-weapon State' is used as in the Final Document of the 1968 Conference of Non-Nuclear-Weapon States (United Nations document A/7277) and in the Treaty on the Non-Proliferation of Nuclear Weapons (NPT). The term 'nuclear-weapon State' is as used in the NPT.
- All the views expressed by Member States are reflected in full in the summary records of the June Board of Governors meetings. On 10 June 2019, the Board of Governors approved the Annual Report for 2018 for transmission to the General Conference.

# Abbreviations

AFRA	African Regional Co-operative Agreement for Research, Development and Training Related to Nuclear Science and Technology
AMRAS	Advisory Missions on Regulatory Infrastructure for Radiation Safety
AP	additional protocol
ARASIA	Co-operative Agreement for Arab States in Asia for Research, Development and Training related to Nuclear Science and Technology
ARCAL	Co-operation Agreement for the Promotion of Nuclear Science and Technology in Latin America and the Caribbean
ARTEMIS	Integrated Review Service for Radioactive Waste and Spent Fuel Management Decommissioning and Remediation
CLP4NET	Cyber Learning Platform for Network Education and Training
CNIP	Country Nuclear Infrastructure Profile
CNPP	Country Nuclear Power Profile
CNS	Convention on Nuclear Safety
CPF	Country Programme Framework
CPPNM	Convention on the Physical Protection of Nuclear Material
CRP	coordinated research project
CSA	comprehensive safeguards agreement
DSRS	disused sealed radioactive source
EduTA	Education and Training Appraisal
EPR	emergency preparedness and response
EPREV	Emergency Preparedness Review
EPRIMS	Emergency Preparedness and Response Information Management System
Euratom	European Atomic Energy Community
FAO	Food and Agriculture Organization of the United Nations
GNSSN	Global Nuclear Safety and Security Network
HEU	high enriched uranium
IACRNE	Inter-Agency Committee on Radiological and Nuclear Emergencies
ICTP	Abdus Salam International Centre for Theoretical Physics
INIR	Integrated Nuclear Infrastructure Review
INIR-RR	Integrated Nuclear Infrastructure Review for Research Reactors
INIS	International Nuclear Information System
INLEX	International Expert Group on Nuclear Liability
INPRO	International Project on Innovative Nuclear Reactors and Fuel Cycles
INSARR	Integrated Safety Assessment of Research Reactors
INSSP	Integrated Nuclear Security Support Plan
IPPAS	International Physical Protection Advisory Service
IRMIS	International Radiation Monitoring Information System

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IRRS	Integrated Regulatory Review Service
ISCA	Independent Safety Culture Assessment
ITDB	Incident and Trafficking Database (IAEA)
IWP	Integrated Work Plan
JCPOA	Joint Comprehensive Plan of Action
LEU	low enriched uranium
MESSAGE	Model for Energy Supply Strategy Alternatives and their General Environmental Impacts
NES	nuclear energy system
NPCs	National Participation Costs
NPT	Treaty on the Non-Proliferation of Nuclear Weapons
OA-ICC	Ocean Acidification International Coordination Centre
OECD	Organisation for Economic Co-operation and Development
OECD/NEA	OECD Nuclear Energy Agency
OMARR	Operation and Maintenance Assessment for Research Reactors
ORPAS	Occupational Radiation Protection Appraisal Service
OSART	Operational Safety Review Team
PACT	Programme of Action for Cancer Therapy (IAEA)
RAIS	Regulatory Authority Information System
RANET	Response and Assistance Network (IAEA)
RASIMS	Radiation Safety Information Management System
RCA	Regional Co-operative Agreement for Research, Development and Training Related to Nuclear Science and Technology
ReNuAL	Renovation of the Nuclear Applications Laboratories
RSA	Revised Supplementary Agreement Concerning the Provision of Technical Assistance by the IAEA
SALTO	Safety Aspects of Long Term Operation
SDG	Sustainable Development Goal
SEED	Site and External Events Design
SIT	sterile insect technique
SMR	small and medium sized or modular reactor
SQP	small quantities protocol
TCF	Technical Cooperation Fund
TSR	Technical Safety Review
UNDAF	United Nations Development Assistance Framework
UNEP	United Nations Environment Programme
USIE	Unified System for Information Exchange in Incidents and Emergencies
VETLAB Network	Veterinary Diagnostic Laboratory Network
WAMP	Water Management Program
WHO	World Health Organization