

Annex

- Table A1. Regular Budget allocation and utilization of resources in 2021 by Programme and Major Programme (in euros)
- Table A2. Extrabudgetary regular programme fund resource utilization in 2021 by Programme and Major Programme (in euros)
- Table A3(a). Disbursements (actuals) of the Technical Cooperation Fund by technical field and region in 2021
- Table A3(b). Graphical representation of the information in Table A3(a)
- Table A4. Amount of nuclear material under Agency safeguards at the end of 2021 by type of agreement
- Table A5. Number of facilities and material balance areas outside facilities under Agency safeguards during 2021
- Table A6. Conclusion of safeguards agreements, additional protocols and small quantities protocols (status as of 31 December 2021)
- Table A7. Participation in multilateral treaties for which the Director General is the depositary (status as of 31 December 2021)
- Table A8. Member States that have concluded a Revised Supplementary Agreement (RSA) Concerning the Provision of Technical Assistance by the Agency (status as of 31 December 2021)
- Table A9. Acceptance of Amendment to Article VI of the Agency's Statute (status as of 31 December 2021)
- Table A10. Acceptance of Amendment to Article XIV.A of the Agency's Statute (status as of 31 December 2021)
- Table A11. Multilateral treaties negotiated and adopted under the auspices of the Agency and/or for which the Director General is the depositary (status and relevant developments)
- Table A12. Nuclear power reactors in operation and under construction in the world (status as of 31 December 2021)
- Table A13. Member State participation in selected Agency activities in 2021
- Table A14. Integrated Review Service for Radioactive Waste and Spent Fuel Management, Decommissioning and Remediation (ARTEMIS) missions in 2021
- Table A15. Education and Training Appraisal (EduTA) missions in 2021
- Table A16. IAEA-designated International Centres based on Research Reactors (ICERR)
- Table A17. Integrated missions of the Agency's Programme of Action for Cancer Therapy (imPACT) in 2021
- Table A18. Integrated Nuclear Infrastructure Review (INIR) missions in 2021
- Table A19. Integrated Nuclear Infrastructure Review for Research Reactors (INIR-RR) missions in 2021
- Table A20. International Nuclear Management Academy (INMA)
- Table A21. Integrated Safety Assessment of Research Reactors (INSARR) missions in 2021

Table A22.	International Physical Protection Advisory Service (IPPAS) missions in 2021
Table A23.	Integrated Regulatory Review Service (IRRS) missions in 2021
Table A24.	Knowledge Management Assist Visit (KMAV) missions in 2021
Table A25.	Operational Safety Review Team (OSART) missions in 2021
Table A26.	Safety Aspects of Long Term Operation (SALTO) missions in 2021
Table A27.	Safety Culture Continuous Improvement Process (SCCIP) missions in 2021
Table A28.	Site and External Events Design (SEED) missions in 2021
Table A29.	Technical Safety Reviews (TSRs) in 2021
Table A30.	Coordinated research projects initiated in 2021
Table A31.	Coordinated research projects completed in 2021
Table A32.	Publications issued in 2021
Table A33.	Technical cooperation training courses held in 2021
Table A34.	Agency corporate social media accounts
Table A35(a).	Number and types of facilities under Agency safeguards by State during 2021
Table A35(b).	Facilities under Agency safeguards or containing safeguarded material during 2021

Table A1. Regular Budget allocation and utilization of resources in 2021 by Programme and Major Programme (in euros)

Major Programme (MP)/Programme	Original budget	Adjusted budget	Expenditure	Resource utilization	Balances
	US\$/€1	US\$/€0.843			
	a*	b**	c	d = c/b	e = b - c
MP1 — Nuclear Power, Fuel Cycle and Nuclear Science					
Overall management, coordination and common activities	3 360 351	3 282 333	3 344 565	101.9%	(62 232)
Nuclear Power	9 239 624	8 987 895	8 535 574	95.0%	452 321
Nuclear Fuel Cycle and Waste Management	7 914 211	7 711 745	7 691 997	99.7%	19 748
Capacity Building and Nuclear Knowledge for Sustainable Energy Development	10 925 073	10 648 368	10 370 801	97.4%	277 567
Nuclear Science	10 636 040	10 446 970	10 265 623	98.3%	181 347
Total Major Programme 1	42 075 299	41 077 311	40 208 560	97.9%	868 751
MP2 — Nuclear Techniques for Development and Environmental Protection					
Overall management, coordination and common activities	8 413 869	8 312 964	8 651 584	104.1%	(338 620)
Food and Agriculture	12 258 340	12 043 593	12 140 727	100.8%	(97 134)
Human Health	8 989 368	8 787 823	8 759 511	99.7%	28 312
Water Resources	3 813 179	3 748 462	4 091 657	109.2%	(343 195)
Environment	6 799 753	6 666 289	6 511 242	97.7%	155 047
Radioisotope Production and Radiation Technology	2 513 403	2 468 027	1 850 838	75.0%	617 189
Total Major Programme 2	42 787 912	42 027 158	42 005 559	99.9%	21 599
MP3 — Nuclear Safety and Security					
Overall management, coordination and common activities	4 147 204	4 038 093	4 178 164	103.5%	(140 071)
Incident and Emergency Preparedness and Response	4 539 719	4 427 103	4 295 170	97.0%	131 933
Safety of Nuclear Installations	10 874 184	10 552 819	10 031 321	95.1%	521 498
Radiation and Transport Safety	7 787 516	7 570 720	7 652 185	101.1%	(81 465)
Radioactive Waste Management and Environmental Safety	3 927 320	3 822 584	3 867 982	101.2%	(45 398)
Nuclear Security	6 406 666	6 200 369	6 384 313	103.0%	(183 944)
Total Major Programme 3	37 682 609	36 611 688	36 409 135	99.4%	202 553
MP4 — Nuclear Verification					
Overall management, coordination and common activities	14 351 436	14 119 449	14 330 527	101.5%	(211 078)
Safeguards Implementation	133 500 420	130 123 587	129 870 374	99.8%	253 213
Other Verification Activities	3 236 900	3 113 290	3 105 722	99.8%	7 568
Total Major Programme 4	151 088 756	147 356 326	147 306 623	100.0%	49 703
MP5 — Policy, Management and Administration Services					
Policy, Management and Administration Services	82 678 999	81 351 044	81 350 113	100.0%	931
Total Major Programme 5	82 678 999	81 351 044	81 350 113	100.0%	931
MP6 — Management of Technical Cooperation for Development					
Management of Technical Cooperation for Development	26 731 414	26 250 394	25 519 686	97.2%	730 708
Total Major Programme 6	27 159 116	26 530 211	26 529 940	100.0%	271
Total Operational Regular Budget	383 472 691	374 953 738	373 809 930	99.7%	1 143 808
Major Capital Investment Funding Requirements***					
MP1 — Nuclear Power, Fuel Cycle and Nuclear Science	—	—	—	0.0%	—
MP2 — Nuclear Techniques for Development and Environmental Protection	2 066 544	2 063 407	—	0.0%	2 063 407
MP3 — Nuclear Safety and Security	309 982	309 982	6 829	2.2%	303 153
MP4 — Nuclear Verification	1 033 272	1 033 272	—	0.0%	1 033 272
MP5 — Policy, Management and Administration Services	2 789 834	2 789 834	455 622	16.3%	2 334 212
MP6 — Management of Technical Cooperation for Development	—	—	—	0.0%	—
Total Capital Regular Budget	6 199 632	6 196 495	462 451	7.5%	5 734 044
Total Agency Programmes	389 672 323	381 150 233	374 272 381	98.2%	6 877 852
Reimbursable Work for Others	3 179 422	3 179 422	3 280 134	103.2%	(100 712)
Total Regular Budget	392 851 745	384 329 655	377 552 515	98.2%	6 777 140

* General Conference Resolutions GC(63)/RES/5 of September 2020 original budget at US \$1/€1.

** Original Budget revalued at the United Nations operational average rate of exchange of €0.843 to \$1.

*** Additional information about the Major Capital Investment Fund can be found in note 39d of *The Agency's Financial Statements for 2021*.

Table A2. Extrabudgetary regular programme fund resource utilization in 2021 by Programme and Major Programme (in euros)

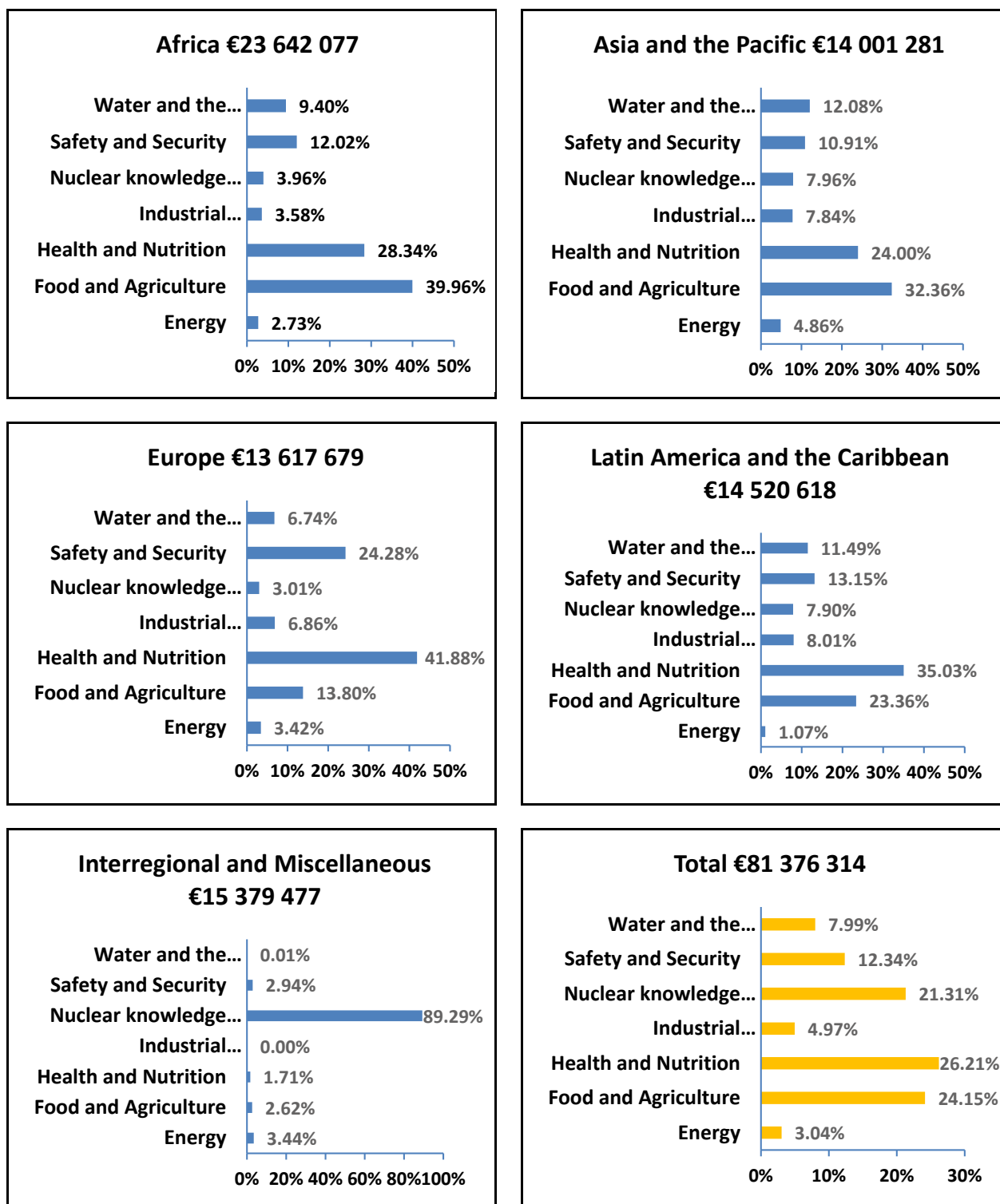
Major Programme (MP)/Programme	2021 net expenditure
MP1 — Nuclear Power, Fuel Cycle and Nuclear Science	
Overall management, coordination and common activities	102 169
Nuclear Power	2 866 813
Nuclear Fuel Cycle and Waste Management	1 796 205
Capacity Building and Nuclear Knowledge for Sustainable Energy Development	2 524 144
Nuclear Science	5 842 721
Total Major Programme 1	13 132 052
MP2 — Nuclear Techniques for Development and Environmental Protection	
Overall management, coordination and common activities	3 515 658
Food and Agriculture	5 403 039
Human Health	381 626
Water Resources	-
Environment	1 221 902
Radioisotope Production and Radiation Technology	267 909
Total Major Programme 2	10 790 134
MP3 — Nuclear Safety and Security	
Overall management, coordination and common activities	2 835 840
Incident and Emergency Preparedness and Response	523 036
Safety of Nuclear Installations	3 403 577
Radiation and Transport Safety	919 496
Radioactive Waste Management and Environmental Safety	805 081
Nuclear Security	25 258 525
Total Major Programme 3	33 745 555
MP4 — Nuclear Verification	
Overall management, coordination and common activities	1 374 422
Safeguards Implementation	17 433 925
Other Verification Activities	4 023 306
Total Major Programme 4	22 831 653
MP5 — Policy, Management and Administration Services	
Policy, Management and Administration Services	3 189 111
Total Major Programme 5	3 189 111
MP6 — Management of Technical Cooperation for Development	
Management of Technical Cooperation for Development	773 359
Total Major Programme 6	773 359
Total extrabudgetary programme funds	84 461 864

Table A3(a). Disbursements (actuals) of the Technical Cooperation Fund by technical field and region in 2021

Summary of all regions (in euros)							
Technical field	Africa	Asia and the Pacific	Europe	Latin America and the Caribbean	Interregional and miscellaneous	PACT ^a	Grand total
Energy	644 410	680 785	465 543	154 715	528 717	0	2 474 170
Food and Agriculture	9 448 542	4 530 949	1 879 711	3 392 045	402 798	0	19 654 046
Health and Nutrition	6 701 112	3 360 030	5 702 978	5 086 695	262 656	215 182	21 328 652
Industrial Applications/ Radiation Technology	846 459	1 097 046	934 324	1 162 733	0	0	4 040 562
Nuclear knowledge development and management	936 836	1 113 858	410 349	1 146 554	13 732 233	0	17 339 831
Safety and Security	2 842 570	1 527 787	3 306 464	1 910 062	451 574	0	10 038 457
Water and the Environment	2 222 146	1 690 824	918 310	1 667 815	1 500	0	6 500 595
Grand Total	23 642 077	14 001 281	13 617 679	14 520 618	15 379 477	215 182	81 376 314

^a PACT: Programme of Action for Cancer Therapy.

Table A3(b). Graphical representation of the information in Table A3(a)



Note: See Table A3(a) for the full titles of the technical fields.

Table A4. Amount of nuclear material under Agency safeguards at the end of 2021 by type of agreement

Nuclear material	Comprehensive safeguards agreement ^a	INFCIRC/66-type agreement	Voluntary offer agreement	Quantity in significant quantities (SQs)
Plutonium ^b contained in irradiated fuel and in fuel elements in reactor cores	151 374	3 479	21 934	176 787
Separated plutonium outside reactor cores	1 257	5	10 892	12 154
High enriched uranium (equal to or greater than 20% U-235)	154	2	0	156
Low enriched uranium (less than 20% U-235)	19 314	403	1 158	20 875
Source material ^c (natural and depleted uranium and thorium)	11 808	1 728	2 590	16 126
U-233	18	0	0	18
Total SQs of nuclear material	183 925	5 617	36 574	226 116

Amount of heavy water under Agency safeguards at the end of 2021 by type of agreement

Non-nuclear material ^d	Comprehensive safeguards agreement	INFCIRC/66-type agreement	Voluntary offer agreement	Quantity in tonnes
Heavy water (tonnes)		418.7		419.4^e

^a Includes nuclear material under Agency safeguards in Taiwan, China; excludes nuclear material in the Democratic People's Republic of Korea.

^b The quantity includes an estimated amount (9 000 SQs) of plutonium in fuel elements loaded into reactor cores and plutonium in other irradiated fuel, which has not yet been reported to the Agency under agreed reporting procedures.

^c This table does not include material within the terms of subparagraphs 34(a) and 34(b) of INFCIRC/153 (Corrected).

^d Non-nuclear material subject to Agency safeguards under INFCIRC/66/Rev.2-type agreements.

^e Includes 0.7 tonnes of heavy water under Agency safeguards in Taiwan, China.

Table A5. Number of facilities and material balance areas outside facilities under Agency safeguards during 2021

Type	Comprehensive safeguards agreement ^a	INFCIRC/66-type agreement ^b	Voluntary offer agreement	Total
Power reactors	246	17	1	264
Research reactors and critical assemblies	143	3	1	147
Conversion plants	17	0	0	17
Fuel fabrication plants	37	3	1	41
Reprocessing plants	10	0	1	11
Enrichment plants	16	0	3	19
Separate storage facilities	136	2	4	142
Other facilities	77	0	0	77
Facility subtotals	682	25	11	718
Material balance areas containing locations outside facilities ^c	615	1	0	616
Total	1297	26	11	1334

^a Covering safeguards agreements pursuant to the Treaty on the Non-Proliferation of Nuclear Weapons and/or the Treaty of Tlatelolco and other comprehensive safeguards agreements; includes facilities in Taiwan, China.

^b Covering facilities in India, Israel and Pakistan.

^c Includes 72 material balance areas in States with amended small quantities protocols.

Table A6. Conclusion of safeguards agreements, additional protocols and small quantities protocols (status as of 31 December 2021)

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Afghanistan	Amended: 28 Jan. 2016	In force: 20 Feb. 1978	257	In force: 19 Jul. 2005
Albania ¹		In force: 25 Mar. 1988	359	In force: 3 Nov. 2010
Algeria		In force: 7 Jan. 1997	531	Signed: 16 Feb. 2018
Andorra	Amended: 24 Apr. 2013	In force: 18 Oct. 2010	808	In force: 19 Dec. 2011
Angola	In force: 28 Apr. 2010	In force: 28 Apr. 2010	800	In force: 28 Apr. 2010
Antigua and Barbuda ²	Amended: 5 Mar. 2012	In force: 9 Sep. 1996	528	In force: 15 Nov. 2013
Argentina ³		In force: 4 Mar. 1994	435	
Armenia		In force: 5 May 1994	455	In force: 28 Jun. 2004
Australia		In force: 10 Jul. 1974	217	In force: 12 Dec. 1997
Austria ⁴		Accession: 31 Jul. 1996	193	In force: 30 Apr. 2004
Azerbaijan		In force: 29 Apr. 1999	580	In force: 29 Nov. 2000
Bahamas ²	Amended: 25 Jul. 2007	In force: 12 Sep. 1997	544	
Bahrain	In force: 10 May 2009	In force: 10 May 2009	767	In force: 20 Jul. 2011
Bangladesh		In force: 11 Jun. 1982	301	In force: 30 Mar. 2001
Barbados ²	X	In force: 14 Aug. 1996	527	
Belarus		In force: 2 Aug. 1995	495	Signed: 15 Nov. 2005
Belgium		In force: 21 Feb. 1977	193	In force: 30 Apr. 2004
Belize ⁵	Amended: 21 Jun. 2021	In force: 21 Jan. 1997	532	
Benin	Amended: 17 Sep. 2019	In force: 17 Sep. 2019	930	In force: 17 Sep. 2019
Bhutan	X	In force: 24 Oct. 1989	371	
Bolivia, Plurinational State of ²	X	In force: 6 Feb. 1995	465	Signed: 18 Sep. 2019
Bosnia and Herzegovina		In force: 4 Apr. 2013	851	In force: 3 Jul. 2013
Botswana		In force: 24 Aug. 2006	694	In force: 24 Aug. 2006
Brazil ⁶		In force: 4 Mar. 1994	435	
Brunei Darussalam	Amended: 2 Sep. 2021	In force: 4 Nov. 1987	365	
Bulgaria ⁷		Accession: 1 May 2009	193	Accession: 1 May 2009
Burkina Faso	Amended: 18 Feb. 2008	In force: 17 Apr. 2003	618	In force: 17 Apr. 2003

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Burundi	In force: 27 Sep. 2007	In force: 27 Sep. 2007	719	In force: 27 Sep. 2007
<i>Cabo Verde</i>	<i>Amended: 27 Mar. 2006</i>	<i>Signed: 28 Jun. 2005</i>		<i>Signed: 28 Jun. 2005</i>
Cambodia	Amended: 16 Jul. 2014	In force: 17 Dec. 1999	586	In force: 24 Apr. 2015
Cameroon	Amended: 15 Jul. 2019	In force: 17 Dec. 2004	641	In force: 29 Sep. 2016
Canada		In force: 21 Feb. 1972	164	In force: 8 Sep. 2000
Central African Republic	In force: 7 Sep. 2009	In force: 7 Sep. 2009	777	In force: 7 Sep. 2009
Chad	In force: 13 May 2010	In force: 13 May 2010	802	In force: 13 May 2010
Chile ⁸		In force: 5 Apr. 1995	476	In force: 3 Nov. 2003
China		In force: 18 Sep. 1989	369*	In force: 28 Mar. 2002
Colombia ⁸		In force: 22 Dec. 1982	306	In force: 5 Mar. 2009
Comoros	In force: 20 Jan. 2009	In force: 20 Jan. 2009	752	In force: 20 Jan. 2009
Congo	In force: 28 Oct. 2011	In force: 28 Oct. 2011	831	In force: 28 Oct. 2011
Costa Rica ²	Amended: 12 Jan. 2007	In force: 22 Nov. 1979	278	In force: 17 Jun. 2011
Côte d'Ivoire		In force: 8 Sep. 1983	309	In force: 5 May 2016
Croatia ⁹		Accession: 1 Apr. 2017	193	Accession: 1 Apr. 2017
Cuba ²		In force: 3 Jun. 2004	633	In force: 3 Jun. 2004
Cyprus ¹⁰		Accession: 1 May 2008	193	Accession: 1 May 2008
Czech Republic ¹¹		Accession: 1 Oct. 2009	193	Accession: 1 Oct. 2009
Democratic Republic of the Congo		In force: 9 Nov. 1972	183	In force: 9 Apr. 2003
Denmark ¹²		In force: 1 Mar. 1972 In force: 21 Feb. 1977	176 193	In force: 22 Mar. 2013 In force: 30 Apr. 2004
Djibouti	In force: 26 May 2015	In force: 26 May 2015	884	In force: 26 May 2015
Dominica ⁵	X	In force: 3 May 1996	513	
Dominican Republic ²	Amended: 11 Oct. 2006	In force: 11 Oct. 1973	201	In force: 5 May 2010
Democratic People's Republic of Korea		In force: 10 Apr. 1992	403	
Ecuador ²	Amended: 7 Apr. 2006	In force: 10 Mar. 1975	231	In force: 24 Oct. 2001
Egypt		In force: 30 Jun. 1982	302	
El Salvador ²	Amended: 10 Jun. 2011	In force: 22 Apr. 1975	232	In force: 24 May 2004

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
<i>Equatorial Guinea</i>	<i>Approved: 13 Jun. 1986</i>	<i>Approved: 13 Jun. 1986</i>		
Eritrea	In force: 20 Apr. 2021	In force: 20 Apr. 2021	960	In force: 20 Apr. 2021
Estonia ¹³		Accession: 1 Dec. 2005	193	Accession: 1 Dec. 2005
Eswatini	Amended: 23 Jul. 2010	In force: 28 Jul. 1975	227	In force: 8 Sep. 2010
Ethiopia	Amended: 2 Jul. 2019	In force: 2 Dec. 1977	261	In force: 18 Sep. 2019
Fiji	X	In force: 22 Mar. 1973	192	In force: 14 Jul. 2006
Finland ¹⁴		Accession: 1 Oct. 1995	193	In force: 30 Apr. 2004
France	Amended: 25 Feb. 2019	In force: 12 Sep. 1981 In force: 26 Oct. 2007 ¹⁵	290* 718	In force: 30 Apr. 2004
Gabon	Amended: 30 Oct. 2013	In force: 25 Mar. 2010	792	In force: 25 Mar. 2010
Gambia	Amended: 17 Oct. 2011	In force: 8 Aug. 1978	277	In force: 18 Oct. 2011
Georgia		In force: 3 Jun. 2003	617	In force: 3 Jun. 2003
Germany ¹⁶		In force: 21 Feb. 1977	193	In force: 30 Apr. 2004
Ghana		In force: 17 Feb. 1975	226	In force: 11 Jun. 2004
Greece ¹⁷		Accession: 17 Dec. 1981	193	In force: 30 Apr. 2004
Grenada ²	X	In force: 23 Jul. 1996	525	
Guatemala ²	Amended: 26 Apr. 2011	In force: 1 Feb. 1982	299	In force: 28 May 2008
<i>Guinea</i>	<i>Signed: 13 Dec. 2011</i>	<i>Signed: 13 Dec. 2011</i>		<i>Signed: 13 Dec. 2011</i>
<i>Guinea-Bissau</i>	<i>Signed: 21 Jun. 2013</i>	<i>Signed: 21 Jun. 2013</i>		<i>Signed: 21 Jun. 2013</i>
Guyana ²	X	In force: 23 May 1997	543	
Haiti ²	Amended: 22 Jan. 2020	In force: 9 Mar. 2006	681	In force: 9 Mar. 2006
Holy See	Amended: 11 Sep. 2006	In force: 1 Aug. 1972	187	In force: 24 Sep. 1998
Honduras ²	Amended: 20 Sep. 2007	In force: 18 Apr. 1975	235	In force: 17 Nov. 2017
Hungary ¹⁸		Accession: 1 Jul. 2007	193	Accession: 1 Jul. 2007
Iceland	Amended: 15 Mar. 2010	In force: 16 Oct. 1974	215	In force: 12 Sep. 2003
India¹⁹		In force: 30 Sep. 1971	211	
		In force: 17 Nov. 1977	260	
		In force: 27 Sep. 1988	360	
		In force: 11 Oct. 1989	374	
		In force: 1 Mar. 1994	433	
		In force: 11 May 2009	754	In force: 25 Jul. 2014
Indonesia		In force: 14 Jul. 1980	283	In force: 29 Sep. 1999

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Iran, Islamic Republic of ²⁰		In force: 15 May 1974	214	Signed: 18 Dec. 2003
Iraq		In force: 29 Feb. 1972	172	In force: 10 Oct. 2012
Ireland		In force: 21 Feb. 1977	193	In force: 30 Apr. 2004
Israel		In force: 4 Apr. 1975	249/Add.1	
Italy		In force: 21 Feb. 1977	193	In force: 30 Apr. 2004
Jamaica ²		In force: 6 Nov. 1978	265	In force: 19 Mar. 2003
Japan		In force: 2 Dec. 1977	255	In force: 16 Dec. 1999
Jordan		In force: 21 Feb. 1978	258	In force: 28 Jul. 1998
Kazakhstan		In force: 11 Aug. 1995	504	In force: 9 May 2007
Kenya	In force: 18 Sep. 2009	In force: 18 Sep. 2009	778	In force: 18 Sep. 2009
Kiribati	X	In force: 19 Dec. 1990	390	Signed: 9 Nov. 2004
Korea, Republic of		In force: 14 Nov. 1975	236	In force: 19 Feb. 2004
Kuwait	Amended: 26 Jul. 2013	In force: 7 Mar. 2002	607	In force: 2 Jun. 2003
Kyrgyzstan	X	In force: 3 Feb. 2004	629	In force: 10 Nov. 2011
Lao People's Democratic Republic	X	In force: 5 Apr. 2001	599	Signed: 5 Nov. 2014
Latvia ²¹		Accession: 1 Oct. 2008	193	Accession: 1 Oct. 2008
Lebanon	Amended: 5 Sep. 2007	In force: 5 Mar. 1973	191	
Lesotho	Amended: 8 Sep. 2009	In force: 12 Jun. 1973	199	In force: 26 Apr. 2010
Liberia	In force: 10 Dec. 2018	In force: 10 Dec. 2018	927	In force: 10 Dec. 2018
Libya		In force: 8 Jul. 1980	282	In force: 11 Aug. 2006
Liechtenstein		In force: 4 Oct. 1979	275	In force: 25 Nov. 2015
Lithuania ²²		Accession: 1 Jan. 2008	193	Accession: 1 Jan. 2008
Luxembourg		In force: 21 Feb. 1977	193	In force: 30 Apr. 2004
Madagascar	Amended: 29 May 2008	In force: 14 Jun. 1973	200	In force: 18 Sep. 2003
Malawi	Amended: 29 Feb. 2008	In force: 3 Aug. 1992	409	In force: 26 Jul. 2007
Malaysia		In force: 29 Feb. 1972	182	Signed: 22 Nov. 2005
Maldives	Amended: 21 May 2021	In force: 2 Oct. 1977	253	
Mali	Amended: 18 Apr. 2006	In force: 12 Sep. 2002	615	In force: 12 Sep. 2002

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Malta ²³		Accession: 1 Jul. 2007	193	Accession: 1 Jul. 2007
Marshall Islands		In force: 3 May 2005	653	In force: 3 May 2005
Mauritania	Amended: 20 Mar. 2013	In force: 10 Dec. 2009	788	In force: 10 Dec. 2009
Mauritius	Amended: 26 Sep. 2008	In force: 31 Jan. 1973	190	In force: 17 Dec. 2007
Mexico ²⁴		In force: 14 Sep. 1973	197	In force: 4 Mar. 2011
Micronesia, Federated States of	In force: 1 Sep. 2021	In force: 1 Sep. 2021	962	
Monaco	Amended: 27 Nov. 2008	In force: 13 Jun. 1996	524	In force: 30 Sep. 1999
Mongolia	X	In force: 5 Sep. 1972	188	In force: 12 May 2003
Montenegro	In force: 4 Mar. 2011	In force: 4 Mar. 2011	814	In force: 4 Mar. 2011
Morocco		In force: 18 Feb. 1975	228	In force: 21 Apr. 2011
Mozambique	In force: 1 Mar. 2011	In force: 1 Mar. 2011	813	In force: 1 Mar. 2011
Myanmar	X	In force: 20 Apr. 1995	477	Signed: 17 Sep. 2013
Namibia	X	In force: 15 Apr. 1998	551	In force: 20 Feb. 2012
Nauru	X	In force: 13 Apr. 1984	317	
Nepal	X	In force: 22 Jun. 1972	186	
Netherlands	X	In force: 5 Jun. 1975 ¹⁵ In force: 21 Feb. 1977	229 193	In force: 30 Apr. 2004
New Zealand ²⁵	Amended: 24 Feb. 2014	In force: 29 Feb. 1972	185	In force: 24 Sep. 1998
Nicaragua ²	Amended: 12 Jun. 2009	In force: 29 Dec. 1976	246	In force: 18 Feb. 2005
Niger		In force: 16 Feb. 2005	664	In force: 2 May 2007
Nigeria		In force: 29 Feb. 1988	358	In force: 4 Apr. 2007
North Macedonia	Amended: 9 Jul. 2009	In force: 16 Apr. 2002	610	In force: 11 May 2007
Norway		In force: 1 Mar. 1972	177	In force: 16 May 2000
Oman	X	In force: 5 Sep. 2006	691	
Pakistan		In force: 5 Mar. 1962 In force: 17 Jun. 1968 In force: 17 Oct. 1969 In force: 18 Mar. 1976 In force: 2 Mar. 1977 In force: 10 Sep. 1991 In force: 24 Feb. 1993 In force: 22 Feb. 2007 In force: 15 Apr. 2011 In force: 3 May 2017	34 116 135 239 248 393 418 705 816 920	

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Palau	Amended: 15 Mar. 2006	In force: 13 May 2005	650	In force: 13 May 2005
Panama ⁸	Amended: 4 Mar. 2011	In force: 23 Mar. 1984	316	In force: 11 Dec. 2001
Papua New Guinea	Amended: 6 Feb. 2019	In force: 13 Oct. 1983	312	
Paraguay ²	Amended: 17 Jul. 2018	In force: 20 Mar. 1979	279	In force: 15 Sep. 2004
Peru ²		In force: 1 Aug. 1979	273	In force: 23 Jul. 2001
Philippines		In force: 16 Oct. 1974	216	In force: 26 Feb. 2010
Poland ²⁶		Accession: 1 Mar. 2007	193	Accession: 1 Mar. 2007
Portugal ²⁷		Accession: 1 Jul. 1986	193	In force: 30 Apr. 2004
Qatar	In force: 21 Jan. 2009	In force: 21 Jan. 2009	747	
Republic of Moldova	Amended: 1 Sep. 2011	In force: 17 May 2006	690	In force: 1 Jun. 2012
Romania ²⁸		Accession: 1 May 2010	193	Accession: 1 May 2010
Russian Federation		In force: 10 Jun. 1985	327*	In force: 16 Oct. 2007
Rwanda	In force: 17 May 2010	In force: 17 May 2010	801	In force: 17 May 2010
Saint Kitts and Nevis ⁵	Amended: 19 Aug. 2016	In force: 7 May 1996	514	In force: 19 May 2014
Saint Lucia ⁵	Amended: 23 Nov. 2021	In force: 2 Feb. 1990	379	
Saint Vincent and the Grenadines ⁵	X	In force: 8 Jan. 1992	400	
Samoa	X	In force: 22 Jan. 1979	268	
San Marino	Amended: 13 May 2011	In force: 21 Sep. 1998	575	
<i>Sao Tome and Principe</i>	<i>Approved: 21 Nov. 2019</i>	<i>Approved: 21 Nov. 2019</i>		<i>Approved: 21 Nov. 2019</i>
Saudi Arabia	X	In force: 13 Jan. 2009	746	
Senegal	Amended: 6 Jan. 2010	In force: 14 Jan. 1980	276	In force: 24 Jul. 2017
Serbia ²⁹		In force: 28 Dec. 1973	204	In force: 17 Sep. 2018
Seychelles	Amended: 31 Oct. 2006	In force: 19 Jul. 2004	635	In force: 13 Oct. 2004
Sierra Leone	X	In force: 4 Dec. 2009	787	Approved: 9 Jun. 2021
Singapore	Amended: 31 Mar. 2008	In force: 18 Oct. 1977	259	In force: 31 Mar. 2008
Slovakia ³⁰		Accession: 1 Dec. 2005	193	Accession: 1 Dec. 2005
Slovenia ³¹		Accession: 1 Sep. 2006	193	Accession: 1 Sep. 2006
Solomon Islands	X	In force: 17 Jun. 1993	420	

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
<i>Somalia</i>				
South Africa		In force: 16 Sep. 1991	394	In force: 13 Sep. 2002
Spain		Accession: 5 Apr. 1989	193	In force: 30 Apr. 2004
Sri Lanka		In force: 6 Aug. 1984	320	Approved: 12 Sep. 2018
<i>State of Palestine³²</i>	<i>Signed: 14 Jun. 2019</i>	<i>Signed: 14 Jun. 2019</i>		
Sudan	Amended: 19 Feb. 2021	In force: 7 Jan. 1977	245	
Suriname ²	X	In force: 2 Feb. 1979	269	
Sweden ³³		Accession: 1 Jun. 1995	193	In force: 30 Apr. 2004
Switzerland		In force: 6 Sep. 1978	264	In force: 1 Feb. 2005
Syrian Arab Republic		In force: 18 May 1992	407	
Tajikistan		In force: 14 Dec. 2004	639	In force: 14 Dec. 2004
Thailand		In force: 16 May 1974	241	In force: 17 Nov. 2017
<i>Timor-Leste</i>	<i>Signed: 6 Oct. 2009</i>	<i>Signed: 6 Oct. 2009</i>		<i>Signed: 6 Oct. 2009</i>
Togo	Amended: 8 Oct. 2015	In force: 18 Jul. 2012	840	In force: 18 Jul. 2012
Tonga	Amended: 3 Apr. 2018	In force: 18 Nov. 1993	426	
Trinidad and Tobago ²	X	In force: 4 Nov. 1992	414	
Tunisia		In force: 13 Mar. 1990	381	Signed: 24 May 2005
Türkiye		In force: 1 Sep. 1981	295	In force: 17 Jul. 2001
Turkmenistan		In force: 3 Jan. 2006	673	In force: 3 Jan. 2006
Tuvalu	X	In force: 15 Mar. 1991	391	
Uganda	Amended: 24 Jun. 2009	In force: 14 Feb. 2006	674	In force: 14 Feb. 2006
Ukraine		In force: 22 Jan. 1998	550	In force: 24 Jan. 2006
United Arab Emirates		In force: 9 Oct. 2003	622	In force: 20 Dec. 2010
United Kingdom	Signed: 6 Jan. 1993	In force: 14 Dec. 1972 ³⁴ Signed: 6 Jan. 1993 ¹⁵ In force: 31 Dec. 2020 ³⁵	175 951*	In force: 31 Dec. 2020 ³⁵
United Republic of Tanzania	Amended: 10 Jun. 2009	In force: 7 Feb. 2005	643	In force: 7 Feb. 2005
United States of America	Amended: 3 Jul. 2018	In force: 9 Dec. 1980 In force: 6 Apr. 1989 ¹⁵	288* 366	In force: 6 Jan. 2009
Uruguay ²		In force: 17 Sep. 1976	157	In force: 30 Apr. 2004
Uzbekistan		In force: 8 Oct. 1994	508	In force: 21 Dec. 1998

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Vanuatu	In force: 21 May 2013	In force: 21 May 2013	852	In force: 21 May 2013
Venezuela, Bolivarian Republic of ²		In force: 11 Mar. 1982	300	
Viet Nam		In force: 23 Feb. 1990	376	In force: 17 Sep. 2012
Yemen	X	In force: 14 Aug. 2002	614	
Zambia	X	In force: 22 Sep. 1994	456	Signed: 13 May 2009
Zimbabwe	Amended: 31 Aug. 2011	In force: 26 Jun. 1995	483	In force: 21 Sep. 2021

Key

Bold States not party to the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) whose safeguards agreements are of INFCIRC/66-type.

Italics States Parties to the NPT that have not yet brought into force comprehensive safeguards agreements (CSAs) pursuant to Article III of the NPT.

* Voluntary offer safeguards agreement with NPT nuclear-weapon States.

X 'X' in the 'small quantities protocols' column indicates that the State has an operative small quantities protocol (SQP). 'Amended' indicates that the operative SQP is based on the revised SQP standardized text.

NB: This table does not aim at listing all safeguards agreements that the Agency has concluded. Not included are agreements under which the application of safeguards has been suspended upon the entry into force of a CSA. Unless otherwise indicated, the safeguards agreements referred to are CSAs concluded pursuant to the NPT.

^a An entry in this column does not imply the expression of any opinion whatsoever on the part of the Agency concerning the legal status of any country or territory or of its authorities, or concerning the delimitation of its frontiers.

^b Provided that they meet certain eligibility criteria (including that the quantities of nuclear material do not exceed the limits set out in paragraph 37 of INFCIRC/153 (Corrected)), countries have the option to conclude an SQP to their CSAs that holds in abeyance the implementation of most of the detailed provisions set out in Part II of the CSAs as long as eligibility criteria continue to apply. This column contains countries whose CSA with an SQP based on the original standard text has been approved by the Board of Governors and for which, as far as the Secretariat is aware, these eligibility criteria continue to apply. For those States that have accepted the revised standard SQP text (approved by the Board of Governors on 20 September 2005) the current status is reflected.

^c The Agency also applies safeguards for Taiwan, China, under two agreements, which entered into force on 13 October 1969 (reproduced in INFCIRC/133) and 6 December 1971 (reproduced in INFCIRC/158), respectively.

¹ *Sui generis comprehensive safeguards agreement. On 28 November 2002, upon approval by the Board of Governors, an exchange of letters entered into force confirming that the safeguards agreement satisfies the requirement of Article III of the NPT.*

² Safeguards agreement is pursuant to both the Treaty of Tlatelolco and the NPT.

³ Date refers to the safeguards agreement concluded between Argentina, Brazil, ABACC and the Agency. On 18 March 1997, upon approval by the Board of Governors, an exchange of letters entered into force between Argentina and the Agency confirming that the safeguards agreement satisfies the requirements of Article 13 of the Treaty of Tlatelolco and Article III of the NPT to conclude a safeguards agreement with the Agency.

⁴ The application of safeguards for Austria under the NPT bilateral safeguards agreement (reproduced in INFCIRC/156), in force since 23 July 1972, was suspended on 31 July 1996, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Austria had acceded, entered into force for Austria.

⁵ Date refers to a safeguards agreement pursuant to Article III of the NPT. Upon approval by the Board of Governors, an exchange of letters entered into force (for Saint Lucia on 12 June 1996 and for Belize, Dominica, Saint Kitts and Nevis and Saint Vincent and the Grenadines on 18 March 1997) confirming that the safeguards agreement satisfies the requirement of Article 13 of the Treaty of Tlatelolco.

⁶ Date refers to the safeguards agreement concluded between Argentina, Brazil, ABACC and the Agency. On 10 June 1997, upon approval by the Board of Governors, an exchange of letters entered into force between Brazil and the Agency confirming that the safeguards agreement satisfies the requirement of Article 13 of the Treaty of Tlatelolco. On 20 September 1999, upon approval by the Board of Governors, an exchange of letters entered into force confirming that the safeguards agreement also satisfies the requirement of Article III of the NPT.

- ⁷ The application of safeguards for Bulgaria under the NPT bilateral safeguards agreement (reproduced in INFCIRC/178), in force since 29 February 1972, was suspended on 1 May 2009, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Bulgaria had acceded, entered into force for Bulgaria.
- ⁸ Date refers to a safeguards agreement pursuant to Article 13 of the Treaty of Tlatelolco. Upon approval by the Board of Governors, an exchange of letters entered into force (for Chile on 9 September 1996; for Colombia on 13 June 2001; for Panama on 20 November 2003) confirming that the safeguards agreement satisfies the requirement of Article III of the NPT.
- ⁹ The application of safeguards for Croatia under the NPT bilateral safeguards agreement (reproduced in INFCIRC/463), in force since 19 January 1995, was suspended on 1 April 2017, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Croatia had acceded, entered into force for Croatia.
- ¹⁰ The application of safeguards for Cyprus under the NPT bilateral safeguards agreement (reproduced in INFCIRC/189), in force since 26 January 1973, was suspended on 1 May 2008, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Cyprus had acceded, entered into force for Cyprus.
- ¹¹ The application of safeguards for the Czech Republic under the NPT bilateral safeguards agreement (reproduced in INFCIRC/541), in force since 11 September 1997, was suspended on 1 October 2009, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which the Czech Republic had acceded, entered into force for the Czech Republic.
- ¹² The application of safeguards for Denmark under the NPT bilateral safeguards agreement (reproduced in INFCIRC/176), in force since 1 March 1972, was suspended on 21 February 1977, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193) entered into force for Denmark. Since 21 February 1977, INFCIRC/193 also applies to the Faroe Islands. Upon Greenland's secession from Euratom as of 31 January 1985, INFCIRC/176 re-entered into force for Greenland. The Additional Protocol for Greenland entered into force on 22 March 2013 (reproduced in INFCIRC/176/Add.1).
- ¹³ The application of safeguards for Estonia under the NPT bilateral safeguards agreement (reproduced in INFCIRC/547), in force since 24 November 1997, was suspended on 1 December 2005, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Estonia had acceded, entered into force for Estonia.
- ¹⁴ The application of safeguards for Finland under the NPT bilateral safeguards agreement (reproduced in INFCIRC/155), in force since 9 February 1972, was suspended on 1 October 1995, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Finland had acceded, entered into force for Finland.
- ¹⁵ The safeguards agreement is in connection with Additional Protocol I to the Treaty of Tlatelolco.
- ¹⁶ The NPT safeguards agreement of 7 March 1972 concluded with the German Democratic Republic (reproduced in INFCIRC/181) is no longer in force with effect from 3 October 1990, on which date the German Democratic Republic acceded to the Federal Republic of Germany.
- ¹⁷ The application of safeguards for Greece under the NPT bilateral safeguards agreement (reproduced in INFCIRC/166), in force since 1 March 1972, was suspended on 17 December 1981, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Greece had acceded, entered into force for Greece.
- ¹⁸ The application of safeguards for Hungary under the NPT bilateral safeguards agreement (reproduced in INFCIRC/174), in force since 30 March 1972, was suspended on 1 July 2007, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Hungary had acceded, entered into force for Hungary.
- ¹⁹ The application of safeguards for India under the safeguards agreement between the Agency, Canada and India (reproduced in INFCIRC/211), in force since 30 September 1971, was suspended as of 20 March 2015. The application of safeguards for India under the safeguards agreements between the Agency and India reproduced in the following INFCIRCs was suspended as of 30 June 2016: INFCIRC/260, in force since 17 November 1977; INFCIRC/360, in force since 27 September 1988; INFCIRC/374, in force since 11 October 1989; and INFCIRC/433, in force since 1 March 1994. Items subject to safeguards under the aforementioned safeguards agreements are subject to safeguards under the safeguards agreement between India and the Agency (reproduced in INFCIRC/754), which entered into force on 11 May 2009.
- ²⁰ On 16 January 2016, as notified in its letter to the Director General of 7 January 2016, Iran began to provisionally apply its additional protocol in accordance with Article 17(b) of the Additional Protocol, pending its entry into force. The additional protocol, which was provisionally applied by Iran as of 16 January 2016, has not been applied since 23 February 2021.
- ²¹ The application of safeguards for Latvia under the NPT bilateral safeguards agreement (reproduced in INFCIRC/434), in force since 21 December 1993, was suspended on 1 October 2008, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Latvia had acceded, entered into force for Latvia.
- ²² The application of safeguards for Lithuania under the NPT bilateral safeguards agreement (reproduced in INFCIRC/413), in force since 15 October 1992, was suspended on 1 January 2008, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Lithuania had acceded, entered into force for Lithuania.
- ²³ The application of safeguards for Malta under the NPT bilateral safeguards agreement (reproduced in INFCIRC/387), in force since 13 November 1990, was suspended on 1 July 2007, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Malta had acceded, entered into force for Malta.
- ²⁴ The safeguards agreement was concluded pursuant to both the Treaty of Tlatelolco and the NPT. The application of safeguards under an earlier safeguards agreement pursuant to the Treaty of Tlatelolco, which entered into force on 6 September 1968 (reproduced in INFCIRC/118), was suspended as of 14 September 1973.
- ²⁵ Whereas the NPT safeguards agreement and SQP with New Zealand (reproduced in INFCIRC/185) also apply to Cook Islands and Niue, the additional protocol thereto (reproduced in INFCIRC/185/Add.1) does not apply to those territories. Amendments to the SQP entered into force only for New Zealand on 24 February 2014 (reproduced in INFCIRC/185/Mod.1).

- ²⁶ The application of safeguards for Poland under the NPT bilateral safeguards agreement (reproduced in INFCIRC/179), in force since 11 October 1972, was suspended on 1 March 2007, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Poland had acceded, entered into force for Poland.
- ²⁷ The application of safeguards for Portugal under the NPT bilateral safeguards agreement (reproduced in INFCIRC/272), in force since 14 June 1979, was suspended on 1 July 1986, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Portugal had acceded, entered into force for Portugal.
- ²⁸ The application of safeguards for Romania under the NPT bilateral safeguards agreement (reproduced in INFCIRC/180), in force since 27 October 1972, was suspended on 1 May 2010, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Romania had acceded, entered into force for Romania.
- ²⁹ The NPT safeguards agreement concluded with the Socialist Federal Republic of Yugoslavia (reproduced in INFCIRC/204), which entered into force on 28 December 1973, continues to be applied for Serbia to the extent relevant to the territory of Serbia.
- ³⁰ The application of safeguards for Slovakia under the NPT bilateral safeguards agreement with the Czechoslovak Socialist Republic (reproduced in INFCIRC/173), in force since 3 March 1972, was suspended on 1 December 2005, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Slovakia had acceded, entered into force for Slovakia.
- ³¹ The application of safeguards for Slovenia under the NPT bilateral safeguards agreement (reproduced in INFCIRC/538), in force since 1 August 1997, was suspended on 1 September 2006, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Slovenia had acceded, entered into force for Slovenia.
- ³² The designation employed does not imply the expression of any opinion whatsoever concerning the legal status of any country or territory or of its authorities, or concerning the delimitation of its frontiers.
- ³³ The application of safeguards for Sweden under the NPT bilateral safeguards agreement (reproduced in INFCIRC/234), in force since 14 April 1975, was suspended on 1 June 1995, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (reproduced in INFCIRC/193), to which Sweden had acceded, entered into force for Sweden.
- ³⁴ Date refers to the INFCIRC/66-type safeguards agreement, concluded between the United Kingdom and the Agency, which remains in force.
- ³⁵ The voluntary offer safeguards agreement between the United Kingdom, Euratom and the Agency (reproduced in INFCIRC/263) and the additional protocol thereto (reproduced in INFCIRC/263/Add.1) terminated on 31 December 2020 at 23:00 GMT.

Table A7. Participation in multilateral treaties for which the Director General is the depositary (status as of 31 December 2021)

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/CPNPM	VC	PVC	CSC	JP
*	Afghanistan						X					
*	Albania	X	X	X	X	X	X	X				
*	Algeria		X	X			X	X				
	Andorra						X					
*	Angola		X		X		X	X				
*	Antigua and Barbuda						X	X				
*	Argentina	X	X	X	X	X	X	X	X	X	X	
*	Armenia		X	X	X	X	X	X	X			
*	Australia	X	X	X	X	X	X	X				
*	Austria		X	X	X	X	X	X				
*	Azerbaijan						X	X				
*	Bahamas						X					
*	Bahrain		X		X		X	X				
*	Bangladesh		X	X	X		X	X				
*	Barbados											
*	Belarus	X	X	X	X	X	X		X	X		
*	Belgium	X	X	X	X	X	X	X				
*	Belize											
*	Benin	X	X	X	X	X	X	X	X	X	X	X
	Bhutan											
*	Bolivia, Plurinational State of	X	X	X	X	X	X	X	X			
*	Bosnia and Herzegovina	X	X	X	X	X	X	X	X	X		
*	Botswana		X	X		X	X	X				
*	Brazil	X	X	X	X	X	X		X			
*	Brunei Darussalam	X										
*	Bulgaria	X	X	X	X	X	X	X	X			X

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/GPPNM	VC	PVC	CSC	JP
*	Burkina Faso		X	X			X	X				
*	Burundi											
	Cabo Verde						X					
*	Cambodia		X		X		X					
*	Cameroon	X	X	X			X	X	X			X
*	Canada	X	X	X	X	X	X	X			X	
*	Central African Republic						X					
*	Chad						X	X				
*	Chile	X	X	X	X	X	X	X	X			X
*	China	X	X	X	X	X	X	X				
*	Colombia	X	X	X			X	X				
*	Comoros						X	X				
*	Congo	X	X		X	X	X					
*	Costa Rica		X	X			X	X				
*	Côte d'Ivoire	X	X	X			X	X				
*	Croatia	X	X	X	X	X	X	X	X			X
*	Cuba	X	X	X	X	X	X	X	X			
*	Cyprus	X	X	X	X	X	X	X				
*	Czech Republic	X	X	X	X	X	X	X	X			X
	Dem. People's Rep. of Korea											
*	Dem. Rep. of the Congo	X					X					
*	Denmark	X	X	X	X	X	X	X				X
*	Djibouti						X	X				
*	Dominica						X					
*	Dominican Republic		X				X	X				
*	Ecuador	X	X	X			X	X				
*	Egypt	X	X	X					X			X
*	El Salvador		X	X			X	X				

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/GPPNM	VC	PVC	CSC	JP
	Equatorial Guinea						X					
*	Eritrea	X	X	X		X	X	X				
*	Estonia	X	X	X	X	X	X	X	X			X
*	Eswatini						X	X				
*	Ethiopia											
*	Fiji						X	X				
*	Finland	X	X	X	X	X	X	X				X
*	France		X	X	X	X	X	X				X
*	Gabon		X	X		X	X	X				
	Gambia											
*	Georgia	X	X	X		X	X	X				
*	Germany	X	X	X	X	X	X	X				X
*	Ghana	X	X	X	X	X	X	X	X	X	X	X
*	Greece	X	X	X	X	X	X	X				X
*	Grenada						X					
*	Guatemala		X	X			X					
	Guinea						X					
	Guinea-Bissau						X					
*	Guyana						X					
*	Haiti											
*	Holy See	X										
*	Honduras						X					
*	Hungary	X	X	X	X	X	X	X	X			X
*	Iceland	X	X	X	X	X	X	X				
*	India	X	X	X	X		X	X			X	
*	Indonesia	X	X	X	X	X	X	X				
*	Iran, Islamic Republic of	X	X	X								
*	Iraq	X	X	X			X					

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/GPPNM	VC	PVC	CSC	JP
*	Ireland	X	X	X	X	X	X	X				
*	Israel		X	X			X	X				
*	Italy	X	X	X	X	X	X	X				X
*	Jamaica	X					X	X				
*	Japan	X	X	X	X	X	X	X			X	
*	Jordan	X	X	X	X	X	X	X	X	X		
*	Kazakhstan	X	X	X	X	X	X	X	X	X		
*	Kenya						X	X				
	Kiribati											
*	Korea, Republic of	X	X	X	X	X	X	X				
*	Kuwait	X	X	X	X		X	X				
*	Kyrgyzstan					X	X	X				
*	Lao People's Dem. Rep.		X	X			X					
*	Latvia	X	X	X	X	X	X	X	X	X		X
*	Lebanon		X	X	X		X		X			
*	Lesotho	X	X	X		X	X	X				
*	Liberia											
*	Libya		X	X	X		X	X				
*	Liechtenstein		X	X			X	X				
*	Lithuania	X	X	X	X	X	X	X	X			X
*	Luxembourg	X	X	X	X	X	X	X				
*	Madagascar		X	X	X	X	X	X				
*	Malawi						X					
*	Malaysia		X	X								
	Maldives											
*	Mali		X	X	X		X	X				
*	Malta				X	X	X	X				
*	Marshall Islands						X	X				

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/GPPNM	VC	PVC	CSC	JP
*	Mauritania		X	X		X	X	X				
*	Mauritius	X	X	X		X			X			
*	Mexico	X	X	X	X	X	X	X	X			
	Micronesia, Federated States of											
*	Monaco		X	X			X	X				
*	Mongolia	X	X	X			X					
*	Montenegro	X	X	X	X	X	X	X	X	X	X	X
*	Morocco	X	X	X	X	X	X	X		X	X	
*	Mozambique	X	X	X			X					
*	Myanmar		X		X		X	X				
*	Namibia		X	X			X	X				
	Nauru						X	X				
*	Nepal											
*	Netherlands	X	X	X	X	X	X	X				X
*	New Zealand	X	X	X			X	X				
*	Nicaragua	X	X	X			X	X				
*	Niger	X	X	X	X	X	X	X	X	X		
*	Nigeria	X	X	X	X	X	X	X	X			
	Niue						X					
*	North Macedonia		X	X	X	X	X	X	X			
*	Norway	X	X	X	X	X	X	X				X
*	Oman	X	X	X	X	X	X					
*	Pakistan	X	X	X	X		X	X				
*	Palau	X					X					
	Palestine						X ^b	X ^b				
*	Panama		X	X			X	X				
*	Papua New Guinea											
*	Paraguay	X	X	X	X	X	X	X				

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/GPPNM	VC	PVC	CSC	JP
*	Peru		X	X	X	X	X	X	X			
*	Philippines	X	X	X			X	X	X			
*	Poland	X	X	X	X	X	X	X	X	X		X
*	Portugal	X	X	X	X	X	X	X				
*	Qatar		X	X	X		X	X				
*	Republic of Moldova	X	X	X	X	X	X	X	X			
*	Romania	X	X	X	X	X	X	X	X	X	X	X
*	Russian Federation	X	X	X	X	X	X	X	X			
*	Rwanda		X	X		X	X	X	X			
	Saint Kitts and Nevis						X	X				
*	Saint Lucia						X	X				
*	Saint Vincent and the Grenadines		X	X					X			X
*	Samoa											
*	San Marino						X	X				
	São Tomé and Príncipe											
*	Saudi Arabia		X	X	X	X	X	X	X	X		
*	Senegal	X	X	X	X	X	X	X	X			
*	Serbia	X	X	X	X	X	X	X	X			
*	Seychelles						X	X				
*	Sierra Leone											
*	Singapore	X	X	X	X		X	X				
*	Slovakia	X	X	X	X	X	X	X	X			X
*	Slovenia	X	X	X	X	X	X	X				X
	Solomon Islands											
	Somalia											
*	South Africa	X	X	X	X	X	X					
	South Sudan											
*	Spain	X	X	X	X	X	X	X				

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/GPPNM	VC	PVC	CSC	JP
*	Sri Lanka		X	X	X							
*	Sudan						X					
	Suriname											
*	Sweden	X	X	X	X	X	X	X				X
*	Switzerland	X	X	X	X	X	X	X				
*	Syrian Arab Republic	X	X	X	X		X	X				
*	Tajikistan	X	X	X		X	X	X				
*	Thailand	X	X	X	X	X	X	X				
	Timor Leste											
*	Togo						X					
	Tonga						X					
*	Trinidad and Tobago						X		X			
*	Tunisia	X	X	X	X		X	X				
*	Türkiye	X	X	X	X		X	X				X
*	Turkmenistan						X	X				
	Tuvalu											
*	Uganda						X					
*	Ukraine	X	X	X	X	X	X	X	X			X
*	United Arab Emirates		X	X	X	X	X	X		X	X	X
*	United Kingdom	X	X	X	X	X	X	X				
*	United Republic of Tanzania		X	X			X					
*	United States of America		X	X	X	X	X	X			X	
*	Uruguay		X	X	X	X	X	X	X			X
*	Uzbekistan					X	X	X				
*	Vanuatu											
*	Venezuela, Bolivarian Republic of		X									
*	Viet Nam	X	X	X	X	X	X	X				
*	Yemen						X					

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/CPPNM	VC	PVC	CSC	JP
*	Zambia						X					
*	Zimbabwe		X	X		X	X					
	Euratom		X	X	X	X	X	X				
	FAO		X	X								
	WHO		X	X								
	WMO		X	X								

P&I	Agreement on the Privileges and Immunities of the IAEA
ENC	Convention on Early Notification of a Nuclear Accident
AC	Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency
CNS	Convention on Nuclear Safety
JC	Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management
CPPNM	Convention on the Physical Protection of Nuclear Material
A/CPPNM	Amendment to the Convention on the Physical Protection of Nuclear Material
VC	Vienna Convention on Civil Liability for Nuclear Damage
PVC	Protocol to Amend the Vienna Convention on Civil Liability for Nuclear Damage
CSC	Convention on Supplementary Compensation for Nuclear Damage
JP	Joint Protocol Relating to the Application of the Vienna Convention and the Paris Convention
*	Agency Member State
X	Party

^a An entry in this column does not imply the expression of any opinion whatsoever on the part of the Agency concerning the legal status of any country or territory or of its authorities, or concerning the delimitation of its frontiers.

^b Acceded as State of Palestine.

Table A8. Member States that have concluded a Revised Supplementary Agreement (RSA) Concerning the Provision of Technical Assistance by the Agency (status as of 31 December 2021)^a

Afghanistan	Georgia	Oman
Albania	Ghana	Pakistan
Algeria	Greece	Palau
Angola	Guatemala	Panama
Antigua and Barbuda	Guyana	Paraguay
Argentina	Haiti	Peru
Armenia	Honduras	Philippines
Azerbaijan	Hungary	Poland
Bahrain	Iceland	Portugal
Bangladesh	Indonesia	Qatar
Belarus	Iran, Islamic Republic of	Republic of Moldova
Belize	Iraq	Romania
Benin	Ireland	Rwanda
Bolivia, Plurinational State of	Israel	Saint Lucia
Bosnia and Herzegovina	Jamaica	Saint Vincent and the Grenadines
Botswana	Jordan	Saudi Arabia
Brazil	Kazakhstan	Senegal
Brunei Darussalam	Kenya	Serbia
Bulgaria	Korea, Republic of	Seychelles
Burkina Faso	Kuwait	Sierra Leone
Burundi	Kyrgyzstan	Singapore
Cambodia	Lao People's Democratic Republic	Slovakia
Cameroon	Latvia	Slovenia
Central African Republic	Lebanon	South Africa
Chad	Lesotho	Spain
Chile	Liberia	Sri Lanka
China	Libya	Sudan
Colombia	Lithuania	Syrian Arab Republic
Congo	Madagascar	Tajikistan
Costa Rica	Malawi	Thailand
Côte d'Ivoire	Malaysia	Togo
Croatia	Mali	Trinidad and Tobago
Cuba	Malta	Tunisia
Cyprus	Marshall Islands	Türkiye
Czech Republic	Mauritania	Turkmenistan
Democratic Republic of the Congo	Mauritius	Uganda
Djibouti	Mexico	Ukraine
Dominica	Mongolia	United Arab Emirates
Dominican Republic	Montenegro	United Republic of Tanzania
Ecuador	Morocco	Uruguay
Egypt	Mozambique	Uzbekistan
El Salvador	Myanmar	Vanuatu
Eritrea	Namibia	Venezuela, Bolivarian Republic of
Estonia	Nepal	Viet Nam
Eswatini	Nicaragua	Zambia
Ethiopia	Niger	Zimbabwe
Fiji	Nigeria	
Gabon	North Macedonia	

^a In 2021, Brunei Darussalam concluded an RSA with the Agency. By the end of the year, there were 142 States party to an RSA.

**Table A9. Acceptance of Amendment to Article VI of the Agency's Statute
(status as of 31 December 2021)^a**

Afghanistan	Greece	Norway
Albania	Holy See	Pakistan
Algeria	Hungary	Panama
Argentina	Iceland	Peru
Austria	Ireland	Poland
Belarus	Israel	Portugal
Bosnia and Herzegovina	Italy	Republic of Moldova
Brazil	Japan	Romania
Bulgaria	Kazakhstan	San Marino
Canada	Korea, Republic of	Slovakia
Colombia	Latvia	Slovenia
Croatia	Libya	South Africa
Cyprus	Liechtenstein	Spain
Czech Republic	Lithuania	Sweden
Denmark	Luxembourg	Switzerland
El Salvador	Malta	Tunisia
Estonia	Mexico	Türkiye
Ethiopia	Monaco	Ukraine
Finland	Morocco	United Kingdom
France	Myanmar	Uruguay
Germany	Netherlands	

^a In 2021, no State accepted the Amendment to Article VI of the Agency's Statute. By the end of the year, there were 62 States.

**Table A10. Acceptance of Amendment to Article XIV.A of the Agency's Statute
(status as of 31 December 2021)^a**

Albania	Greece	Norway
Algeria	Holy See	Pakistan
Argentina	Hungary	Peru
Australia	Iceland	Poland
Austria	Iran, Islamic Republic of	Portugal
Belarus	Ireland	Republic of Moldova
Bosnia and Herzegovina	Italy	Romania
Brazil	Japan	San Marino
Bulgaria	Kazakhstan	Seychelles
Canada	Kenya	Slovakia
Colombia	Korea, Republic of	Slovenia
Croatia	Latvia	South Africa
Cyprus	Liechtenstein	Spain
Czech Republic	Lithuania	Sweden
Denmark	Luxembourg	Switzerland
Ecuador	Malta	Syrian Arab Republic
Estonia	Mexico	Tunisia
Finland	Monaco	Türkiye
France	Myanmar	Ukraine
Germany	Netherlands	United Kingdom

^a In 2021, no State accepted the Amendment to Article XIV.A of the Agency's Statute. By the end of the year, there were 60 States.

Table A11. Multilateral treaties negotiated and adopted under the auspices of the Agency and/or for which the Director General is the depositary (status and relevant developments)

Agreement on the Privileges and Immunities of the IAEA (reproduced in INFCIRC/9/Rev.2). In 2021, the status remained unchanged with 91 Parties.

Convention on Early Notification of a Nuclear Accident (reproduced in INFCIRC/335). Entered into force on 27 October 1986. In 2021, there were 4 new Parties to the Convention. By the end of the year, there were 131 Parties.

Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency (reproduced in INFCIRC/336). Entered into force on 26 February 1987. In 2021, there were 2 new Parties to the Convention. By the end of the year, there were 124 Parties.

Convention on Nuclear Safety (reproduced in INFCIRC/449). Entered into force on 24 October 1996. In 2021, there were 2 new Parties to the Convention. By the end of the year, there were 91 Parties.

Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management (reproduced in INFCIRC/546). Entered into force on 18 June 2001. In 2021, there were 3 new Parties and 1 new Contracting State to the Convention. By the end of the year, there were 86 Parties and 1 Contracting State.

Convention on the Physical Protection of Nuclear Material (reproduced in INFCIRC/274/Rev.1). Entered into force on 8 February 1987. In 2021, there were 2 new Parties to the Convention. By the end of the year, there were 164 Parties.

Amendment to the Convention on the Physical Protection of Nuclear Material. Entered into force on 8 May 2016. In 2021, there were 2 new Parties to the Amendment. By the end of the year, there were 127 Parties.

Vienna Convention on Civil Liability for Nuclear Damage (reproduced in INFCIRC/500). Entered into force on 12 November 1977. In 2021, the status of the Convention remained unchanged with 43 Parties.

Optional Protocol Concerning the Compulsory Settlement of Disputes (reproduced in INFCIRC/500/Add.3). Entered into force on 13 May 1999. In 2021, the status of the Protocol remained unchanged with 2 Parties.

Protocol to Amend the Vienna Convention on Civil Liability for Nuclear Damage (reproduced in INFCIRC/566). Entered into force on 4 October 2003. In 2021, the status of the Protocol remained unchanged with 15 Parties.

Convention on Supplementary Compensation for Nuclear Damage (reproduced in INFCIRC/567). Entered into force on 15 April 2015. In 2021, the status of the Convention remained unchanged with 11 Parties.

Joint Protocol Relating to the Application of the Vienna Convention and the Paris Convention (reproduced in INFCIRC/402). Entered into force on 27 April 1992. In 2021, the status of the Protocol remained unchanged with 31 Parties.

Regional Co-operative Agreement for Research, Development and Training Related to Nuclear Science and Technology (RCA), 2017 (reproduced in INFCIRC/919). Entered into force on 11 June 2017. In 2021, the status of the Agreement remained unchanged with 19 Parties.

African Regional Co-operative Agreement for Research, Development and Training Related to Nuclear Science and Technology (AFRA) (reproduced in INFCIRC/935). Entered into force on 4 April 2020. In 2021, there were 2 new Parties to the Agreement. By the end of the year, there were 13 Parties.

Agreement to further extend the Co-operation Agreement for the Promotion of Nuclear Science and Technology in Latin America and the Caribbean (ARCAL) (Second Extension) (reproduced in INFCIRC/582/Add. 5). Entered into force on 5 September 2020. In 2021, there were 5 new Parties to the Agreement. By the end of the year, there were 20 Parties.

Co-operative Agreement for Arab States in Asia for Research, Development and Training Related to Nuclear Science and Technology (the 2017 ARASIA) (reproduced in INFCIRC/929). Entered into force on 28 July 2020. In 2021, there was 1 new Party to the Agreement. By the end of the year, there were 6 Parties.

Agreement on the Establishment of the ITER International Fusion Energy Organization for the Joint Implementation of the ITER Project (reproduced in INFCIRC/702). Entered into force on 24 October 2007. In 2021, the status of the Agreement remained unchanged with 7 Parties.

Agreement on the Privileges and Immunities of the ITER International Fusion Energy Organization for the Joint Implementation of the ITER Project (reproduced in INFCIRC/703). Entered into force on 24 October 2007. In 2021, the status of the Agreement remained unchanged with 6 Parties.

**Table A12. Nuclear power reactors in operation and under construction in the world
(status as of 31 December 2021)^a**

Country	Reactors in operation		Reactors under construction		Nuclear electricity supplied in 2021		Total operating experience through 2021	
	No. of units	Total MW(e)	No. of units	Total MW(e)	TW-h	% of total	Years	Months
Argentina	3	1 641	1	25	10.2	7.2	94	2
Armenia	1	448			1.9	25.3	47	8
Bangladesh			2	2 160	NA	NA		
Belarus	1	1 110	1	1 110	5.4	14.1	1	2
Belgium	7	5 942			48.0	50.8	317	7
Brazil	2	1 884	1	1 340	13.9	2.4	61	3
Bulgaria	2	2 006			15.8	34.6	171	3
Canada	19	13 624			86.8	14.3	807	6
China	53	50 034	16	15 967	383.2	5.0	470	0
Czech Republic	6	3 934			29.0	36.6	182	10
Finland	4	2 794	1	1 600	22.6	32.8	171	4
France	56	61 370	1	1 630	363.4	69.0	2 393	0
Germany	3	4 055			65.4	11.9	830	11
Hungary	4	1 916			15.1	46.8	146	2
India	22	6 795	8	6 028	39.8	3.2	554	9
Iran, Islamic Republic of	1	915	1	974	3.2	1.0	10	4
Japan	33	31 679	2	2 653	61.3	7.2	1 965	6
Korea, Republic of	24	23 091	4	5 360	150.5	28.0	620	2
Mexico	2	1 552			11.6	5.3	59	11
Netherlands	1	482			3.6	3.1	77	0
Pakistan	5	2 242	1	1 014	15.8	10.6	92	11
Romania	2	1 300			10.4	18.5	39	11
Russian Federation	37	27 727	4	3 759	208.4	20.0	1 410	7
Slovakia	4	1 868	2	880	14.6	52.3	180	7
Slovenia	1	688			5.4	36.9	40	3

Country	Reactors in operation		Reactors under construction		Nuclear electricity supplied in 2021		Total operating experience through 2021	
	No. of units	Total MW(e)	No. of units	Total MW(e)	TW-h	% of total	Years	Months
South Africa	2	1 854			12.2	6.0	74	3
Spain	7	7 121			54.2	20.8	357	1
Sweden	6	6 882			51.4	30.8	480	0
Switzerland	4	2 960			18.6	28.8	232	11
Türkiye			3	3 342	NA	NA	NA	NA
Ukraine	15	13 107	2	2 070	81.1	55.0	548	6
United Arab Emirates	2	2 762	2	2 690	10.1	1.3	1	9
United Kingdom	12	7 343	2	3 260	41.8	18.8	1 648	6
United States of America	93	95 523	2	2 234	771.6	19.6	4 694	4
Total^{b, c}	437	389 508	56	58 096	2 653.1	NA	19 170	9

Note: NA — Not applicable.

^a Source: Agency's Power Reactor Information System (PRIS) (www.iaea.org/pris) as of 31 May 2022.

^b The total figures include the following data from Taiwan, China: 3 units, 2 859 MW(e) in operation and 26.8 TWh of electricity supplied, accounting for 10.8% of total electricity mix.

^c The total operating experience also includes shutdown plants in Italy (80 years, 8 months), Kazakhstan (25 years, 10 months) and Lithuania (43 years, 6 months), and shutdown and operational plants in Taiwan, China (236 years, 8 months).

Table A13. Member State participation in selected Agency activities in 2021

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States		
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services
Afghanistan					
Albania	2			2	
Algeria	8				
Angola	1			2	
Antigua and Barbuda					
Argentina	46	1	2		
Armenia	2			2	
Australia	39	1	3		
Austria	10		4		
Azerbaijan	3				
Bahamas	1			2	
Bahrain					
Bangladesh	16			16	
Barbados				1	
Belarus	6		1	21	
Belgium	20		2		
Belize					
Benin	1				
Bolivia, Plurinational State of	1			10	
Bosnia and Herzegovina	2		3	8	1
Botswana	1				
Brazil	55	3	4		
Brunei Darussalam					
Bulgaria	6		2	13	
Burkina Faso	8	1			1

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States		
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services
Burundi					
Cambodia					
Cameroon	7			2	
Canada	39	1	3		
Central African Republic					1
Chad	1				
Chile	13		1		
China	95	5	3	14	
Colombia	5			1	
Congo					
Costa Rica	10	1	1		
Côte d'Ivoire	1				
Croatia	14		2	14	2
Cuba	14		3		
Cyprus			1	3	
Czech Republic	9		1		
Dem. Rep. of the Congo	1				
Denmark	3		1		
Djibouti					
Dominica					
Dominican Republic					
Ecuador	7		1		
Egypt	22	2	1		
El Salvador				10	
Eritrea					1
Estonia	4		1		

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States		
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services
Eswatini					
Ethiopia	10		1	3	
Fiji					
Finland	13		1		
France	58	4	5		
Gabon					
Georgia				3	
Germany	42		4		4
Ghana	16			2	
Greece	18		6		1
Grenada					
Guatemala	3			8	
Guyana				1	
Haiti					
Holy See					
Honduras					1
Hungary	21	2	3	14	1
Iceland			1		
India	71	1	3	43	
Indonesia	31	2	1	15	
Iran, Islamic Republic of	18		3		
Iraq			1		1
Ireland	3		1		
Israel	10		2	16	
Italy	37	3	8		
Jamaica	6		1		

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States		
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services
Japan	38	3	5		
Jordan	4		1	3	
Kazakhstan	1		1	6	
Kenya	16		1	7	1
Korea, Republic of	31	2	2		
Kuwait	6	1	1	3	
Kyrgyzstan	2				1
Lao People's Dem. Rep.					
Latvia			1		
Lebanon	6		1	10	
Lesotho					
Liberia					
Libya					
Liechtenstein					
Lithuania	8		3	8	
Luxembourg	1		1		
Madagascar	4		1		
Malawi	1				
Malaysia	25	1	1	22	
Mali	1				
Malta					
Marshall Islands					
Mauritania				3	
Mauritius	4				
Mexico	32	2	3	45	
Monaco					
Mongolia	3		1	3	

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States		
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services
Montenegro	2		1	3	
Morocco	23	2	1	21	
Mozambique					
Myanmar	4		1		
Namibia	4				3
Nepal	1				
Netherlands	11	1	4		1
New Zealand	6		1		
Nicaragua	1			1	
Niger				1	
Nigeria	5		1	6	2
North Macedonia	6		1	3	1
Norway	4	1	2		
Oman				5	
Pakistan	39	1	1		
Palau					
Panama			1		
Papua New Guinea	1				
Paraguay					
Peru	8	1	1		
Philippines	16		1	50	
Poland	26	1	6		3
Portugal	10	1	1		
Qatar	1		1	3	
Republic of Moldova				1	
Romania	19		4	49	
Russian Federation	54	1	4	56	

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States		
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services
Rwanda					
Saint Lucia					
Saint Vincent and the Grenadines					
San Marino					
Saudi Arabia	5		1	11	
Senegal	5				
Serbia	13		5	19	1
Seychelles					
Sierra Leone					
Singapore	9		3		
Slovakia	8	1	3		2
Slovenia	12		1	3	
South Africa	32	1	3		
Spain	45	2	2		
Sri Lanka	10		1	12	
Sudan	8				
Sweden	12		2		
Switzerland	9	2	3		
Syrian Arab Republic	6		1		
Tajikistan			1		
Thailand	26	1	2	25	
Togo				1	
Trinidad and Tobago	1			4	
Tunisia	21		1	17	
Türkiye	21		2	31	
Turkmenistan					

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States		
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services
Uganda	8			3	
Ukraine	23		1	19	
United Arab Emirates	2	1	3	3	
United Kingdom	42	2	6		2
United Republic of Tanzania	5			5	1
United States of America	110	1	7		
Uruguay	5		1	11	
Uzbekistan			1		
Vanuatu					
Venezuela, Bolivarian Republic of			2	16	
Viet Nam	22		3	23	
Yemen					
Zambia	9		1		
Zimbabwe	5				

^a ALMERA: Analytical Laboratories for the Measurement of Environmental Radioactivity.

Table A14. Integrated Review Service for Radioactive Waste and Spent Fuel Management, Decommissioning and Remediation (ARTEMIS) missions in 2021

Type	Country
ARTEMIS	Ireland
ARTEMIS	Japan

Table A15. Education and Training Appraisal (EduTA) missions in 2021

Type	Country
EduTA	Nigeria

Table A16. IAEA-designated International Centres based on Research Reactors (ICERR)

Organization/Research Centre	Country	Year of designation/ redesignation
Institute for Nuclear Research Pitesti	Romania	2020
Korea Atomic Energy Research Institute	Republic of Korea	2019
Nuclear Research Centre SCK CEN	Belgium	2017
Idaho and Oak Ridge National Laboratories of the US Department of Energy	United States of America	2017
Research Institute of Atomic Reactors	Russian Federation	2016
French Alternative Energies and Atomic Energy Commission, in partnership with the Institute for Radiological Protection and Nuclear Safety	France	2015 / 2020

Table A17. Integrated missions of the Agency's Programme of Action for Cancer Therapy (imPACT) in 2021

Type	Country
imPACT	Democratic Republic of Congo
imPACT	Iraq
imPACT	Nepal
imPACT	Uruguay

Table A18. Integrated Nuclear Infrastructure Review (INIR) missions in 2021

Type	Country
INIR Phase 1	Uganda
INIR Phase 1 Follow-up	Kenya
INIR Phase 2	Uzbekistan

Table A19. Integrated Nuclear Infrastructure Review for Research Reactors (INIR-RR) missions in 2021

Type	Country
INIR-RR	Thailand

Table A20. International Nuclear Management Academy (INMA)

Type	Organization/Research Centre	Country	Year of Mission
INMA	Sofia University "St. Kliment Ohridski"	Bulgaria	2021
INMA	University of West Bohemia	Czech Republic	2021

Table A21. Integrated Safety Assessment of Research Reactors (INSARR) missions in 2021

Type	Country
INSARR	Netherlands

Table A22. International Physical Protection Advisory Service (IPPAS) missions in 2021

Type	Country
IPPAS	Belarus
IPPAS	Burkina Faso
IPPAS	Czech Republic
IPPAS	Niger
IPPAS	Senegal
IPPAS	Türkiye

Table A23. Integrated Regulatory Review Service (IRRS) missions in 2021

Type	Country
IRRS	Denmark
IRRS	Switzerland
IRRS follow-up	Belarus
IRRS follow-up	Cameroon

Table A24. Knowledge Management Assist Visit (KMAV) missions in 2021

Type	Organization/nuclear power plant	Country
KMAV Level 1	Institute of Radiation Protection and Dosimetry	Brazil
KMAV Level 3	Budapest University of Technology and Economics	Hungary
KMAV Level 2 and 3	Nuclear Energy Agency of Indonesia and other national organizations involved with developing the national nuclear programme	Indonesia
KMAV Level 1	Jordan Atomic Energy Commission, Energy and Minerals Regulatory Commission, Jordan Uranium Mining Company, Jordan Research and Training Reactor	Jordan
KMAV Level 1	Laguna Verde NPP and National Institute for Nuclear Research	Mexico
KMAV Level 1	Nuclear Power General Directorate, Nuclear and Radiological Regulatory Authority, Sudan Atomic Energy Commission and Sudanese Thermal Power Generating Co. Ltd.	Sudan
KMAV Level 1	State Committee on Industrial Safety, Uzatom Agency, Academy of Science INP, State Committee on Ecology and Environment Protection, Ministry of Health, Ministry of Emergency Situations	Uzbekistan

Table A25. Operational Safety Review Team (OSART) missions in 2021

Type	Country
OSART	France
OSART	France
OSART	Russian Federation
OSART follow-up	Belarus
OSART follow-up	France
OSART follow-up	Russian Federation
OSART follow-up	Slovakia

Table A26. Safety Aspects of Long Term Operation (SALTO) missions in 2021

Type	Country
SALTO	Bulgaria
SALTO	Slovenia
SALTO	Spain
SALTO follow-up	Argentina
SALTO follow-up	Armenia
SALTO follow-up	Sweden

Table A27. Safety Culture Continuous Improvement Process (SCCIP) missions in 2021

Type	Country
SCCIP	Mexico

Table A28. Site and External Events Design (SEED) missions in 2021

Type	Country
SEED	Hungary
SEED	Kenya
SEED	Uzbekistan
SEED follow-up	Kenya
SEED follow-up	Türkiye

Table A29. Technical Safety Reviews (TSRs) in 2021

Type	Country
Probabilistic Safety Assessment	Hungary