



Nuclear Power Reactors in the World



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INTRODUCTION

This is the twenty-sixth edition of Reference Data Series No. 2, *Nuclear Power Reactors in the World*, which is published once per year, to present the most recent reactor data available to the Agency. It contains the following summarized information:

- General information as of the end of 2005 on power reactors operating or under construction, and shut down;
- Performance data on reactors operating in the Agency's Member States, as reported to the IAEA.

The Agency's Power Reactor Information System (PRIS) is a comprehensive data source on nuclear power reactors in the World. It includes specification and performance history data of operating reactors as well as reactors under construction or reactors being decommissioned. PRIS data are collected by the Agency through the designated national correspondents of Member States.

PRIS outputs are available in the annual publications and on the PRIS web site

www.iaea.org/programmes/a2.

Detail outputs are accessible to registered users through on-line applications. Enquiries should be addressed to:

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DEFINITIONS

Performance Factors

$$\text{EAF (\%)} = \frac{(\text{REG} - \text{PEL} - \text{UEL} - \text{XEL})}{\text{REG}} \times 100$$

$$\text{UCF (\%)} = \frac{(\text{REG} - \text{PEL} - \text{UEL})}{\text{REG}} \times 100$$

$$\text{LF (\%)} = \frac{\text{EG}}{\text{REG}} \times 100$$

where

EAF is the energy availability factor, expressed in per cent.

UCF is the unit capability factor, expressed in per cent.

LF is the load factor, expressed in per cent.

REG reference energy generation: is the net electrical energy [MW·h], which would have been supplied when a unit is continuously operated at the reference unit power during the entire reference period.

PEL planned energy loss: is the energy [MW·h] that was not supplied during the period because of planned shutdowns or load reductions due to causes under plant management control. Energy losses are considered planned if they are scheduled at least four weeks in advance.

UEL unplanned energy loss: the energy [MW·h] that was not supplied during the period because of unplanned shutdowns, outage extensions, or

load reductions due to causes under plant management control. Energy losses are considered to be unplanned if they are not scheduled at least four weeks in advance.

XEL external energy loss: the energy [MW·h], that was not supplied due to constraints reducing plant availability and being beyond plant management control.

EG the net electrical energy supplied during the reference period as measured at the unit outlet terminals, i.e. after deducting the electrical energy taken by unit auxiliaries and the losses in transformers that are considered integral parts of the unit.

Construction Start

Date when first major placing of concrete, usually for the base mat of the reactor building, is done.

First Criticality

Date when the reactor is made critical for the first time.

Grid Connection

Date when the plant is first connected to the electrical grid for the supply of power. After this date, the plant is considered to be in operation.

Commercial Operation

Date when the plant is handed over by the contractors to the owner and declared officially to be in commercial operation.

Shutdown

Date when the plant is officially declared to be shut down by the owner and taken out of operation permanently.

Units and Energy Conversion

1 terawatt-hour [TW·h] = 10^6 megawatt-hours [MW·h].

For an average power plant,

1 TW·h = 0.39 megatonnes of coal equivalent (input)
= 0.23 megatonnes of oil equivalent (input).

TABLE 1. NUCLEAR POWER REACTORS IN OPERATION AND UNDER CONSTRUCTION, 31 DEC. 2005

Country	Reactors in Operation		Reactors under Construction		Nuclear Electricity Supplied in 2005		Total Operating Experience to 31 Dec. 2005	
	No of Units	Total MW(e)	No of Units	Total MW(e)	TW(e).h	% of Total	Years	Months
ARGENTINA	2	935	1	692	6.37	6.92	54	7
ARMENIA	1	376			2.50	42.74	38	3
BELGIUM	7	5801			45.34	55.63	205	7
BRAZIL	2	1901			9.85	2.46	29	3
BULGARIA	4	2722	2	1906	17.34	44.10	137	3
CANADA	18	12599			86.83	14.63	534	7
CHINA	9	6572	3	3000	50.33	2.03	56	11
CZECH R.	6	3368			23.25	30.52	86	10
FINLAND	4	2676	1	1600	22.33	32.91	107	4
FRANCE	59	63363			430.90	78.46	1464	2
GERMANY	17	20339			154.61	30.98	683	5
HUNGARY	4	1755			13.02	37.15	82	2
INDIA	15	3040	8	3602	15.73	2.83	252	0
IRAN			1	915			0	0
JAPAN	56	47839	1	866	280.67	29.33	1231	8
KOREA RP	20	16810			139.29	44.67	259	8
LITHNIA	1	1185			10.30	69.59	39	6
MEXICO	2	1310			10.80	5.01	27	11
NETHLNDS	1	449			3.77	3.91	61	0
PAKISTAN	2	425	1	300	2.41	2.80	39	10

TABLE 1. NUCLEAR POWER REACTORS IN OPERATION AND UNDER CONSTRUCTION, 31 DEC. 2005 — continued

Country	Reactors in Operation		Reactors under Construction		Nuclear Electricity Supplied in 2005		Total Operating Experience to 31 Dec. 2005	
	No of Units	Total MW(e)	No of Units	Total MW(e)	TW(e).h	% of Total	Years	Months
ROMANIA	1	655	1	655	5.11	8.58	9	6
RUSSIA	31	21743	4	3775	137.27	15.78	870	4
S.AFRICA	2	1800			12.24	5.52	42	3
SLOVAKIA	6	2442			16.34	56.06	112	6
SLOVENIA	1	656			5.61	42.36	24	3
SPAIN	9	7588			54.70	19.56	237	2
SWEDEN	10	8910			70.00	46.67	332	6
SWITZRLD	5	3220			22.11	32.09	153	10
UK	23	11852			75.17	19.86	1377	8
UKRAINE	15	13107	2	1900	83.29	48.48	308	6
USA	104	99210			780.47	19.33	3079	8
Total	443	369552	27	21811	2626.35	19.28	12086	2

Note: The total includes the following data in Taiwan, China:

- 6 units, 4904 MW(e) in operation; 2 units, 2600 MW(e) under construction;
- 38.4 TW(e).h of nuclear electricity generation, representing 20.25% of the total electricity generated there;
- 146 years 1 month of total operating experience.

The total share is related only to the countries with NPPs in operation.

TABLE 2. REACTOR TYPES AND NET ELECTRICAL POWER, REACTORS CONNECTED TO THE GRID, 31 DEC. 2005

Country	PWR		PWR-WWER		BWR		ABWR		GCR		AGR		PHWR		LWGR		FBR		Total		
	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	
ARGENTINA													2	935					2	935	
ARMENIA			1	376															1	376	
BELGIUM	7	5801																	7	5801	
BRAZIL	2	1901																	2	1901	
BULGARIA			4	2722															4	2722	
CANADA													18	12599					18	12599	
CHINA	7	5272											2	1300					9	6572	
CZECH R.			6	3368															6	3368	
FINLAND			2	976	2	1700													4	2676	
FRANCE	58	63130															1	233	59	63363	
GERMANY	11	13968			6	6371													17	20339	
HUNGARY			4	1755															4	1755	
INDIA					2	300							13	2740					15	3040	
JAPAN	23	18425			28	23909	4	5259										(*)1	246	56	47839
KOREA RP	16	14231											4	2579					20	16810	
LITHNIA															1	1185			1	1185	
MEXICO					2	1310													2	1310	
NETHLNDS	1	449																	1	449	
PAKISTAN	1	300											1	125					2	425	
ROMANIA													1	655					1	655	
RUSSIA			15	10964											15	10219	1	560	31	21743	
S.AFRICA	2	1800																	2	1800	
SLOVAKIA			6	2442															6	2442	

(*) Long term shutdown (Monju).

TABLE 2. REACTOR TYPES AND NET ELECTRICAL POWER, REACTORS CONNECTED TO THE GRID, 31 DEC. 2005 — continued

Country	PWR		PWR-WWER		BWR		ABWR		GCR		AGR		PHWR		LWGR		FBR		Total	
	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)
SLOVENIA	1	656																	1	656
SPAIN	7	6078			2	1510													9	7588
SWEDEN	3	2692			7	6218													10	8910
SWITZRLD	3	1700			2	1520													5	3220
UK	1	1188							8	2284	14	8380							23	11852
UKRAINE			15	13107															15	13107
USA	69	65984			35	33226													104	99210
TOTAL	214	205375	53	35710	90	79168	4	5259	8	2284	14	8380	41	20933	16	11404	3	1039	443	369552

The totals include 6 units (4 BWR and 2 PWR), 4904 MW(e) in Taiwan, China.
 During 2005, 4 reactors, 2752 MW(e) were newly connected to the grid.

TABLE 3. REACTOR TYPES AND NET ELECTRICAL POWER, REACTORS UNDER CONSTRUCTION, 31 DEC. 2005

Country	PWR		PWR-WWER		BWR		ABWR		GCR		AGR		PHWR		LWGR		FBR		Total	
	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)
ARGENTINA													1	692					1	692
BULGARIA			2	1906															2	1906
CHINA	1	1000	2	2000															3	3000
FINLAND	1	1600																	1	1600
INDIA			2	1834									5	1298			1	470	8	3602
IRAN			1	915															1	915
JAPAN	1	866																	1	866
PAKISTAN	1	300																	1	300
ROMANIA													1	655					1	655
RUSSIA			3	2850											1	925			4	3775
UKRAINE			2	1900															2	1900
TOTAL	4	3766	12	11405			(*)2	2600					7	2645	1	925	1	470	27	21811

(*) The totals include 2 ABWR units, 2600 MW(e) in Taiwan, China.
 During 2005, 3 reactors (2900 MW(e)) started construction.

TABLE 4. CONSTRUCTION STARTS DURING 2005

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation
	Code	Name		Net	Gross						
CHINA	CN -12	LINGAO 3	PWR	1000	1087	LDNPC	DFEC	2005-12	2010-7	2010-8	2010-12
FINLAND	FI -5	OLKILUOTO-3	PWR	1600		TVO	Fram ANP	2005-8	—	—	—
PAKISTAN	PK -3	CHASNUPP 2	PWR	300	325	PAEC	CNNC	2005-12	2011-2	2011-4	2011-7

During 2005, 3 reactors (2900 MW(e)) started construction.

TABLE 5. CONNECTIONS TO THE GRID DURING 2005

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation
	Code	Name		Net	Gross						
JAPAN	JP -58	HIGASHI DORI 1 (TOHOKU)	BWR	1067	1100	TOHOKU	TOSHIBA	2000-11	2005-1	2005-3	2005-12
	JP -59	SHIKA-2	ABWR	1304	1358	HOKURIKU	HITACHI	2001-8	2005-5	2005-7	2006-3
KOREA RP	KR -20	ULCHIN-6	PWR	960	1000	KHNP	DHICKOPC	2000-9	2004-12	2005-1	2005-6

During 2005, 4 reactors (3821 MW(e)) were newly connected to the grid.

TABLE 6. SCHEDULED CONNECTIONS TO THE GRID DURING 2006

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation
	Code	Name		Net	Gross						
CHINA	CN -10	TIANWAN 1	WWER	1000	1060	JNPC	ASEA	1999-10	2005-12	2006-4	—
	CN -11	TIANWAN 2	WWER	1000	1060	JNPC	AEE&ZAES	2000-10		2006-11	—
INDIA	IN -23	TARAPUR-3	PHWR	490	540	NPCIL	NPCIL	2000-5	2006-7	2006-9	2007-1
IRAN	IR -1	BUSHEHR-1	WWER	915	1000	AEOI	ASE	1975-5	2006-6	2006-10	2006-12

During 2006, 4 reactors (3405 MW(e)) are expected to achieve grid connection.

TABLE 7. REACTOR YEARS EXPERIENCE, UP TO 31 DEC. 2005

Country	Reactors Connected to the Grid				Shut Down Reactors				Total, Operating and Shut Down				Cumulative Generation TW(e).h Net to end 2005
	No	Capacity MW(e) Net	Experience Years	Months	No	Capacity MW(e) Net	Experience Years	Months	No	Capacity MW(e) Net	Experience Years	Months	
ARGENTINA	2	935	54	7					2	935	54	7	161
ARMENIA	1	376	26	0	1	376	12	3	2	752	38	3	67
BELGIUM	7	5801	180	10	1	11	24	9	8	5835	205	7	1012
BRAZIL	2	1901	29	3					2	1901	29	3	93
BULGARIA	4	2722	81	4	2	816	55	11	6	3538	137	3	313
CANADA	18	12599	393	9	7	3046	140	10	25	15645	534	7	1922
CHINA	9	6572	56	11					9	6572	56	11	265
CZECH R.	6	3368	86	10					6	3368	86	10	273
FINLAND	4	2676	107	4					4	2676	107	4	496
FRANCE	59	63363	1244	11	11	3951	219	3	70	67314	1464	2	7919
GERMANY	17	20339	406	2	19	5944	277	3	36	26283	683	5	3575
HUNGARY	4	1755	82	2					4	1755	82	2	262
INDIA	15	3040	252	0					15	3040	252	0	225
ITALY					4	1423	81	0	4	1423	81	0	
JAPAN	56	47839	1162	0	3	320	69	8	59	48159	1231	8	5798
KAZAKHS.					1	52	25	10	1	52	25	10	
KOREA RP	20	16810	259	8					20	16810	259	8	1534
LITHNIA	1	1185	18	5	1	1185	21	1	2	2370	39	6	165
MEXICO	2	1310	27	11					2	1310	27	11	117
NETHLNDS	1	449	32	6	1	55	28	6	2	504	61	0	115

TABLE 7. REACTOR YEARS EXPERIENCE, UP TO 31 DEC. 2005 — continued

Country	Reactors Connected to the Grid				Shut Down Reactors				Total, Operating and Shut Down				Cumulative Generation TW(e).h Net to end 2005
	No	Capacity MW(e) Net	Experience Years	Months	No	Capacity MW(e) Net	Experience Years	Months	No	Capacity MW(e) Net	Experience Years	Months	
PAKISTAN	2	425	39	10					2	425	39	10	19
ROMANIA	1	655	9	6					1	655	9	6	45
RUSSIA	31	21743	737	2	5	786	133	2	36	22529	870	4	2841
S.AFRICA	2	1800	42	3					2	1800	42	3	227
SLOVAKIA	6	2442	108	4	1	110	4	2	7	2552	112	6	288
SLOVENIA	1	656	24	3					1	656	24	3	105
SPAIN	9	7588	218	11	1	480	18	3	10	8068	237	2	1204
SWEDEN	10	8910	269	6	3	1210	63		13	10120	332	6	1539
SWITZRLD	5	3220	153	10					5	3220	153	10	626
UK	23	11852	634	0	22	2454	743	8	45	14306	1377	8	1681
UKRAINE	15	13107	254	10	4	3500	53	8	19	16607	308	6	1543
USA	104	99210	2721	9	22	8770	357	11	126	107980	3079	8	16266
Total	443	369552	9862	10	109	34489	2330	2	552	404064	12193	0	51470

Note: The total includes the following data in Taiwan, China:

— reactors connected to the grid: 6 units, 4904 MW(e), 146 years 1 month;

— cumulative generation of 774 TW(e).h.

SUMMARY, AS OF 31 DECEMBER 2005:

— Total world operating experience is 12193 years for operating and shutdown reactors;

— Total cumulative generation is 51470.0 TW(e).h, or 20073.3 Megatonnes of coal equivalent, or 11838.1 Megatonnes of oil equivalent.

TABLE 8. REACTOR UNITS AND NET ELECTRICAL POWER, 1970 TO 2006

Country	Number of Units and Net Capacity (MW(e)) Connected to the Grid at 31st Dec. of Each Year																	
	1970		1975		1980		1985		1990		1995		2000		2005		(2006)	
	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)
ARGENTINA			1	335	1	335	2	935	2	935	2	935	2	935	2	935	2	935
ARMENIA					2	752	2	752	1	376	1	376	1	376	1	376	1	376
BELGIUM	1	11	4	1798	4	1798	8	5812	7	5801	7	5801	7	5801	7	5801	7	5801
BRAZIL							1	626	1	626	1	626	2	1901	2	1901	2	1901
BULGARIA			2	816	3	1224	4	1632	5	2585	6	3538	6	3538	4	2722	4	2722
CANADA	2	228	7	2538	10	5326	16	9569	20	13405	21	14398	14	9998	18	12599	18	12599
CHINA											3	2176	3	2176	9	6572	9	6572
CZECH R.							1	412	4	1663	4	1663	5	2588	6	3368	6	3368
FINLAND					4	2676	4	2676	4	2676	4	2676	4	2676	4	2676	4	2676
FRANCE	8	1696	10	2914	22	14556	43	38173	56	55998	56	58573	59	63363	59	63363	59	63363
GERMANY	8	992	12	4232	19	10487	24	18575	21	21976	19	21319	19	21319	17	20339	17	20339
HUNGARY							2	878	4	1755	4	1755	4	1755	4	1755	4	1755
INDIA	2	300	3	390	4	577	6	934	7	1136	10	1742	14	2550	15	3040	16	3530
IRAN																	1	915
ITALY	3	563	3	563	4	1423	3	1273										
JAPAN	5	1272	13	6305	23	14980	33	23636	41	30897	51	39897	53	43495	56	47839	56	47839
KAZAKHS.			1	52	1	52	1	52	1	52	1	52						
KOREA RP					1	556	5	3580	9	7220	11	9120	16	12990	20	16810	20	16810
LITHNIA							1	1185	2	2370	2	2370	2	2370	1	1185	1	1185
MEXICO									1	655	2	1310	2	1310	2	1310	2	1310

TABLE 8. REACTOR UNITS AND NET ELECTRICAL POWER, 1970 TO 2006 — continued

Country	Number of Units and Net Capacity (MW(e)) Connected to the Grid at 31st Dec. of Each Year																	
	1970		1975		1980		1985		1990		1995		2000		2005		(2006)	
	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)	No.	MW(e)
NETHLNDS	1	55	2	504	2	504	2	504	2	504	2	504	1	449	1	449	1	449
PAKISTAN			1	125	1	125	1	125	1	125	1	125	2	425	2	425	2	425
ROMANIA													1	655	1	655	1	655
RUSSIA	5	786	14	4261	20	8557	28	15802	29	18898	30	19848	30	19848	31	21743	31	21743
S.AFRICA							2	1800	2	1800	2	1800	2	1800	2	1800	2	1800
SLOVAKIA			1	110	2	816	4	1632	4	1632	4	1632	6	2442	6	2442	6	2442
SLOVENIA							1	656	1	656	1	656	1	656	1	656	1	656
SPAIN	1	142	3	1068	3	1068	8	6020	9	7588	9	7588	9	7588	9	7588	9	7588
SWEDEN	1	10	5	3366	8	5901	12	10110	12	10110	12	10110	11	9510	10	8910	10	8910
SWITZRLD	1	365	3	1085	4	2055	5	3220	5	3220	5	3220	5	3220	5	3220	5	3220
UK	27	3524	30	4738	33	7134	38	10572	37	12404	35	12968	33	12498	23	11852	23	11852
UKRAINE					3	2031	10	8057	15	12832	15	12857	13	11207	15	13107	15	13107
USA	17	6347	53	37660	68	52826	93	80231	111	102871	109	102297	104	99210	104	99210	104	99210
WORLD	82	16291	168	72860	244	136967	366	254333	420	327670	436	346836	441	356154	443	369552	445	370980

Note: The world total includes the following data in Taiwan, China:

— 1990: 6 units, 4904 MW(e); 1995: 6 units, 4904 MW(e); 2000: 6 units, 4904 MW(e); 2005: 6 units, 4904 MW(e).

Estimates for 2006 based on current expected grid connection dates for reactors under construction as of 31 December 2005.

TABLE 9. SCHEDULED CONSTRUCTION STARTS DURING 2006

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation
	Code	Name		Net	Gross						
KOREA RP	KR -21	SHIN-KORI-1	PWR		1000	KHNP	DHICKOPC	2006-8	—	—	2010-12

During 2006, 1 reactor (960 MW(e)) is expected to start construction.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non-Electrical Apps
	Code	Name		Net	Gross								
ARGENTINA	AR -1	ATUCHA-1	PHWR	335	357	NASA	SIEMENS	1968-6	1974-3	1974-6	67.0	73.0	-
	AR -2	EMBALSE	PHWR	600	648	NASA	AECL	1974-4	1983-4	1984-1	84.0	87.0	-
ARMENIA	AM -19	ARMENIA-2	WWER	376	408	JSC	FAEA	1975-7	1980-1	1980-5	57.0	66.0	-
BELGIUM	BE -2	DOEL-1	PWR	392	412	ELECTRAB	ACECOWEN	1969-7	1974-8	1975-2	85.0	89.0	-
	BE -4	DOEL-2	PWR	433	454	ELECTRAB	ACECOWEN	1971-9	1975-8	1975-12	80.0	86.0	-
	BE -5	DOEL-3	PWR	1006	1056	ELECTRAB	FRAMACEC	1975-1	1982-6	1982-10	85.0	88.0	-
	BE -7	DOEL-4	PWR	985	1041	ELECTRAB	ACECOWEN	1978-12	1985-4	1985-7	83.0	84.0	-
	BE -3	TIHANGE-1	PWR	962	1009	ELECTRAB	ACLF	1970-6	1975-3	1975-10	82.0	88.0	-
	BE -6	TIHANGE-2	PWR	1008	1055	ELECTRAB	FRAMACEC	1976-4	1982-10	1983-7	87.0	88.0	-
	BE -8	TIHANGE-3	PWR	1015	1065	ELECTRAB	ACECOWEN	1978-11	1985-6	1985-9	87.0	89.0	-
BRAZIL	BR -1	ANGRA-1	PWR	626	657	ELETRONU	WH	1971-5	1982-4	1985-1	40.0	59.0	-
	BR -2	ANGRA-2	PWR	1275	1350	ELETRONU	KWU	1976-1	2000-7	2001-2	72.0	82.0	-
BULGARIA	BG -3	KOZLODUY-3	WWER	408	440	KOZNPP	AEE	1973-10	1980-12	1981-1	66.0	79.0	-
	BG -4	KOZLODUY-4	WWER	408	440	KOZNPP	AEE	1973-10	1982-5	1982-6	68.0	78.0	-
	BG -5	KOZLODUY-5	WWER	953	1000	KOZNPP	AEE	1980-7	1987-11	1988-12	49.0	64.0	-
	BG -6	KOZLODUY-6	WWER	953	1000	KOZNPP	AEE	1982-4	1991-8	1993-12	57.0	71.0	-
CANADA	CA -10	BRUCE-3	PHWR	750	805	BRUCEPOW	NEI.P	1972-7	1977-12	1978-2	69.0	73.0	-
	CA -11	BRUCE-4	PHWR	750	805	BRUCEPOW	NEI.P	1972-9	1978-12	1979-1	68.0	69.0	-
	CA -18	BRUCE-5	PHWR	790	840	BRUCEPOW	OH/AECL	1978-6	1984-12	1985-3	82.0	83.0	-

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps	
	Code	Name		Net	Gross									
CANADA	CA -19	BRUCE-6	PHWR	841	891	BRUCEPOW	OH/AECL	1978-1	1984-6	1984-9	79.0	80.0	-	
	CA -20	BRUCE-7	PHWR	790	840	BRUCEPOW	OH/AECL	1979-5	1986-2	1986-4	82.0	84.0	-	
	CA -21	BRUCE-8	PHWR	790	840	BRUCEPOW	OH/AECL	1979-8	1987-3	1987-5	79.0	81.0	-	
	CA -22	DARLINGTON-1	PHWR	881	935	OPG	OH/AECL	1982-4	1990-12	1992-11	82.0	83.0	-	
	CA -23	DARLINGTON-2	PHWR	881	935	OPG	OH/AECL	1981-9	1990-1	1990-10	73.0	74.0	-	
	CA -24	DARLINGTON-3	PHWR	881	935	OPG	OH/AECL	1984-9	1992-12	1993-2	84.0	85.0	-	
	CA -25	DARLINGTON-4	PHWR	881	935	OPG	OH/AECL	1985-7	1993-4	1993-6	84.0	84.0	-	
	CA -12	GENTILLY-2	PHWR	635	675	HQ	BBC	1974-4	1982-12	1983-10	78.0	83.0	-	
	CA -4	PICKERING-1	PHWR	515	542	OPG	OH/AECL	1966-6	1971-4	1971-7	61.0	67.0	-	
	CA -7	PICKERING-4	PHWR	515	542	OPG	OH/AECL	1968-5	1973-5	1973-6	66.0	67.0	-	
	CA -13	PICKERING-5	PHWR	516	540	OPG	OH/AECL	1974-11	1982-12	1983-5	72.0	73.0	-	
	CA -14	PICKERING-6	PHWR	516	540	OPG	OH/AECL	1975-10	1983-11	1984-2	76.0	76.0	-	
	CA -15	PICKERING-7	PHWR	516	540	OPG	OH/AECL	1976-3	1984-11	1985-1	79.0	80.0	-	
	CA -16	PICKERING-8	PHWR	516	540	OPG	OH/AECL	1976-9	1986-1	1986-2	76.0	76.0	-	
	CA -17	POINT LEPREAU	PHWR	635	680	NBEPCC	AECL	1975-5	1982-9	1983-2	82.0	83.0	-	
	CHINA	CN -2	GUANGDONG-1	PWR	944	984	GNPJVC	GEC	1987-8	1993-8	1994-2	80.0	85.0	-
		CN -3	GUANGDONG-2	PWR	944	984	GNPJVC	GEC	1988-4	1994-2	1994-5	78.0	81.0	-
CN -6		LINGAO 1	PWR	938	990	LANPC	FRAM	1997-5	2002-2	2002-5	85.0	87.0	-	
CN -7		LINGAO 2	PWR	938	990	LANPC	FRAM	1997-11	2002-12	2003-1	83.0	84.0	-	
CN -1		QINSHAN 1	PWR	288	310	QNPC	CNNC	1985-3	1991-12	1994-4	75.0	76.0	-	
CN -4		QINSHAN 2-1	PWR	610	650	NPQJVC	CNNC	1996-6	2002-2	2002-4	83.0	83.0	-	

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
CHINA	CN -5	QINSHAN 2-2	PWR	610	650	NPQJVC	CNNC	1997-4	2004-3	2004-5	89.0	87.0	-
	CN -8	QINSHAN 3-1	PHWR	650	700	TQNPC	AECL	1998-6	2002-11	2002-12	84.0	82.0	-
	CN -9	QINSHAN 3-2	PHWR	650	700	TQNPC	AECL	1998-9	2003-6	2003-7	91.0	93.0	-
CZECH R.	CZ -4	DUKOVANY-1	WWER	412	440	CEZ	SKODA	1979-1	1985-2	1985-5	83.0	82.0	-
	CZ -5	DUKOVANY-2	WWER	412	440	CEZ	SKODA	1979-1	1986-1	1986-3	83.0	83.0	-
	CZ -8	DUKOVANY-3	WWER	427	456	CEZ	SKODA	1979-3	1986-11	1986-12	83.0	83.0	-
	CZ -9	DUKOVANY-4	WWER	412	440	CEZ	SKODA	1979-3	1987-6	1987-7	84.0	83.0	-
	CZ -23	TEMLIN-1	WWER	925	975	CEZ	SKODA	1987-2	2000-12	2002-6	67.0	66.0	DH
	CZ -24	TEMLIN-2	WWER	780	830	CEZ	SKODA	1987-2	2002-12	2003-4	70.0	70.0	DH
FINLAND	FI -1	LOVIISA-1	WWER	488	510	FORTUMPH	AEE	1971-5	1977-2	1977-5	85.0	86.0	-
	FI -2	LOVIISA-2	WWER	488	510	FORTUMPH	AEE	1972-8	1980-11	1981-1	88.0	89.0	-
	FI -3	OLKILUOTO-1	BWR	840	870	TVO	ASEASTAL	1974-2	1978-9	1979-10	91.0	92.0	-
	FI -4	OLKILUOTO-2	BWR	860	890	TVO	ASEASTAL	1975-8	1980-2	1982-7	93.0	94.0	-
FRANCE	FR -54	BELLEVILLE-1	PWR	1310	1363	EDF	FRAM	1980-5	1987-10	1988-6	69.0	77.0	-
	FR -55	BELLEVILLE-2	PWR	1310	1363	EDF	FRAM	1980-8	1988-7	1989-1	70.0	78.0	-
	FR -32	BLAYAIS-1	PWR	910	951	EDF	FRAM	1977-1	1981-6	1981-12	70.0	78.0	-
	FR -33	BLAYAIS-2	PWR	910	951	EDF	FRAM	1977-1	1982-7	1983-2	75.0	82.0	-
	FR -34	BLAYAIS-3	PWR	910	951	EDF	FRAM	1978-4	1983-8	1983-11	75.0	82.0	-
	FR -35	BLAYAIS-4	PWR	910	951	EDF	FRAM	1978-4	1983-5	1983-10	74.0	81.0	-
	FR -13	BUGEY-2	PWR	910	945	EDF	FRAM	1972-11	1978-5	1979-3	65.0	74.0	-
	FR -14	BUGEY-3	PWR	910	945	EDF	FRAM	1973-9	1978-9	1979-3	66.0	76.0	-

The column Non-Electrical Applications indicates the use of the facility to provide: DS desalination, DH district heating, PH process heating.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
FRANCE	FR -15	BUGEY-4	PWR	880	917	EDF	FRAM	1974-6	1979-3	1979-7	66.0	75.0	-
	FR -16	BUGEY-5	PWR	880	917	EDF	FRAM	1974-7	1979-7	1980-1	68.0	77.0	-
	FR -50	CATTENOM-1	PWR	1300	1362	EDF	FRAM	1979-10	1986-11	1987-4	67.0	72.0	-
	FR -53	CATTENOM-2	PWR	1300	1362	EDF	FRAM	1980-7	1987-9	1988-2	71.0	78.0	-
	FR -60	CATTENOM-3	PWR	1300	1362	EDF	FRAM	1982-6	1990-7	1991-2	74.0	81.0	-
	FR -65	CATTENOM-4	PWR	1300	1362	EDF	FRAM	1983-9	1991-5	1992-1	78.0	85.0	-
	FR -40	CHINON-B-1	PWR	905	954	EDF	FRAM	1977-3	1982-11	1984-2	73.0	80.0	-
	FR -41	CHINON-B-2	PWR	905	954	EDF	FRAM	1977-3	1983-11	1984-8	74.0	81.0	-
	FR -56	CHINON-B-3	PWR	905	954	EDF	FRAM	1980-10	1986-10	1987-3	72.0	80.0	-
	FR -57	CHINON-B-4	PWR	905	954	EDF	FRAM	1981-2	1987-11	1988-4	74.0	81.0	-
	FR -62	CHOOZ-B-1	PWR	1500	1560	EDF	FRAM	1984-1	1996-8	2000-5	77.0	83.0	-
	FR -70	CHOOZ-B-2	PWR	1500	1560	EDF	FRAM	1985-12	1997-4	2000-9	78.0	85.0	-
	FR -72	CIVAUX-1	PWR	1495	1561	EDF	FRAM	1988-10	1997-12	2002-1	80.0	82.0	-
	FR -73	CIVAUX-2	PWR	1495	1561	EDF	FRAM	1991-4	1999-12	2002-4	76.0	81.0	-
	FR -42	CRUAS-1	PWR	915	956	EDF	FRAM	1978-8	1983-4	1984-4	71.0	82.0	-
	FR -43	CRUAS-2	PWR	915	956	EDF	FRAM	1978-11	1984-9	1985-4	73.0	81.0	-
	FR -44	CRUAS-3	PWR	915	956	EDF	FRAM	1979-4	1984-5	1984-9	71.0	83.0	-
	FR -45	CRUAS-4	PWR	915	956	EDF	FRAM	1979-10	1984-10	1985-2	72.0	82.0	-
	FR -22	DAMPIERRE-1	PWR	890	937	EDF	FRAM	1975-2	1980-3	1980-9	70.0	76.0	-
	FR -29	DAMPIERRE-2	PWR	890	937	EDF	FRAM	1975-4	1980-12	1981-2	67.0	78.0	-
FR -30	DAMPIERRE-3	PWR	890	937	EDF	FRAM	1975-9	1981-1	1981-5	72.0	78.0	-	

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
FRANCE	FR -31	DAMPIERRE-4	PWR	890	937	EDF	FRAM	1975-12	1981-8	1981-11	70.0	77.0	-
	FR -11	FESSENHEIM-1	PWR	880	920	EDF	FRAM	1971-9	1977-4	1978-1	66.0	73.0	-
	FR -12	FESSENHEIM-2	PWR	880	920	EDF	FRAM	1972-2	1977-10	1978-4	70.0	78.0	-
	FR -46	FLAMANVILLE-1	PWR	1330	1382	EDF	FRAM	1979-12	1985-12	1986-12	69.0	77.0	-
	FR -47	FLAMANVILLE-2	PWR	1330	1382	EDF	FRAM	1980-5	1986-7	1987-3	69.0	77.0	-
	FR -61	GOLFECH-1	PWR	1310	1363	EDF	FRAM	1982-11	1990-6	1991-2	74.0	84.0	-
	FR -68	GOLFECH-2	PWR	1310	1363	EDF	FRAM	1984-10	1993-6	1994-3	74.0	85.0	-
	FR -20	GRAVELINES-1	PWR	910	951	EDF	FRAM	1975-2	1980-3	1980-11	69.0	77.0	-
	FR -21	GRAVELINES-2	PWR	910	951	EDF	FRAM	1975-3	1980-8	1980-12	72.0	81.0	-
	FR -27	GRAVELINES-3	PWR	910	951	EDF	FRAM	1975-12	1980-12	1981-6	73.0	81.0	-
	FR -28	GRAVELINES-4	PWR	910	951	EDF	FRAM	1976-4	1981-6	1981-10	73.0	79.0	-
	FR -51	GRAVELINES-5	PWR	910	951	EDF	FRAM	1979-10	1984-8	1985-1	74.0	82.0	-
	FR -52	GRAVELINES-6	PWR	910	951	EDF	FRAM	1979-10	1985-8	1985-10	76.0	82.0	-
	FR -58	NOGENT-1	PWR	1310	1363	EDF	FRAM	1981-5	1987-10	1988-2	68.0	77.0	-
	FR -59	NOGENT-2	PWR	1310	1363	EDF	FRAM	1982-1	1988-12	1989-5	73.0	83.0	-
	FR -36	PALUEL-1	PWR	1330	1382	EDF	FRAM	1977-8	1984-6	1985-12	70.0	78.0	-
	FR -37	PALUEL-2	PWR	1330	1382	EDF	FRAM	1978-1	1984-9	1985-12	67.0	75.0	-
	FR -38	PALUEL-3	PWR	1330	1382	EDF	FRAM	1979-2	1985-9	1986-2	68.0	75.0	-
	FR -39	PALUEL-4	PWR	1330	1382	EDF	FRAM	1980-2	1986-4	1986-6	70.0	77.0	-
	FR -63	PENLY-1	PWR	1330	1382	EDF	FRAM	1982-9	1990-5	1990-12	74.0	82.0	-
	FR -64	PENLY-2	PWR	1330	1382	EDF	FRAM	1984-8	1992-2	1992-11	75.0	83.0	-

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
FRANCE	FR -10	PHENIX	FBR	233	250	CEA/EDF	CNCLNEY	1968-11	1973-12	1974-2	44.0	62.0	-
	FR -48	ST. ALBAN-1	PWR	1335	1381	EDF	FRAM	1979-1	1985-8	1986-5	66.0	77.0	-
	FR -49	ST. ALBAN-2	PWR	1335	1381	EDF	FRAM	1979-7	1986-7	1987-3	64.0	76.0	-
	FR -17	ST. LAURENT-B-1	PWR	915	956	EDF	FRAM	1976-5	1981-1	1983-8	71.0	76.0	-
	FR -23	ST. LAURENT-B-2	PWR	915	956	EDF	FRAM	1976-7	1981-6	1983-8	69.0	77.0	-
	FR -18	TRICASTIN-1	PWR	915	955	EDF	FRAM	1974-11	1980-5	1980-12	71.0	79.0	-
	FR -19	TRICASTIN-2	PWR	915	955	EDF	FRAM	1974-12	1980-8	1980-12	71.0	79.0	-
	FR -25	TRICASTIN-3	PWR	915	955	EDF	FRAM	1975-4	1981-2	1981-5	75.0	81.0	-
	FR -26	TRICASTIN-4	PWR	915	955	EDF	FRAM	1975-5	1981-6	1981-11	72.0	81.0	-
	GERMANY	DE -12	BIBLIS-A (KWB A)	PWR	1167	1225	RWE	KWU	1970-1	1974-8	1975-2	67.0	75.0
DE -18		BIBLIS-B (KWB B)	PWR	1240	1300	RWE	KWU	1972-2	1976-4	1977-1	68.0	80.0	-
DE -32		BROKDORF (KBR)	PWR	1370	1440	EON	KWU	1976-1	1986-10	1986-12	87.0	89.0	-
DE -13		BRUNSBUETTEL (KKB)	BWR	771	806	HEW	KWU	1970-4	1976-7	1977-2	56.0	69.0	-
DE -33		EMSLAND (KKE)	PWR	1329	1400	RWE	SIEM,KWU	1982-8	1988-4	1988-6	93.0	93.0	-
DE -23		GRAFENRHEINFELD (KKG)	PWR	1275	1345	EON	KWU	1975-1	1981-12	1982-6	86.0	88.0	-
DE -27		GROHNDE (KWG)	PWR	1360	1430	EON	KWU	1976-6	1984-9	1985-2	90.0	92.0	-
DE -26		GUNDREMMINGEN-B (GUN-B)	BWR	1284	1344	RWE	KWU	1976-7	1984-3	1984-7	81.0	88.0	-
DE -28		GUNDREMMINGEN-C (GUN-C)	BWR	1288	1344	EON	KWU	1976-7	1984-11	1985-1	79.0	86.0	-
DE -16		ISAR-1 (KKI 1)	BWR	878	912	EON	KWU	1972-5	1977-12	1979-3	77.0	84.0	-
DE -31		ISAR-2 (KKI 2)	PWR	1400	1475	EON	KWU	1982-9	1988-1	1988-4	88.0	91.0	-
DE -20		KRUEMMEL (KKK)	BWR	1260	1316	HEW	KWU	1974-4	1983-9	1984-3	76.0	80.0	-

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
GERMANY	DE -15	NECKARWESTHEIM-1 (GKN 1)	PWR	785	840	EnBW	KWU	1972-2	1976-6	1976-12	80.0	87.0	-
	DE -44	NECKARWESTHEIM-2 (GKN 2)	PWR	1305	1395	EnBW	SIEM,KWU	1982-11	1989-1	1989-4	92.0	93.0	-
	DE -14	PHILIPPSBURG-1 (KKP 1)	BWR	890	926	EnBW	KWU	1970-10	1979-5	1980-3	76.0	81.0	-
	DE -24	PHILIPPSBURG-2 (KKP 2)	PWR	1392	1458	EnBW	KWU	1977-7	1984-12	1985-4	88.0	90.0	-
	DE -17	UNTERWESER (KKU)	PWR	1345	1410	EON	KWU	1972-7	1978-9	1979-9	79.0	84.0	-
HUNGARY	HU -1	PAKS-1	WWER	437	467	PAKS RT.	AEE	1974-8	1982-12	1983-8	86.0	85.0	-
	HU -2	PAKS-2	WWER	441	468	PAKS RT.	AEE	1974-8	1984-9	1984-11	80.0	79.0	DH
	HU -3	PAKS-3	WWER	433	460	PAKS RT.	AEE	1979-10	1986-9	1986-12	86.0	86.0	DH
	HU -4	PAKS-4	WWER	444	471	PAKS RT.	AEE	1979-10	1987-8	1987-11	89.0	87.0	DH
INDIA	IN -13	KAIGA-1	PHWR	202	220	NPCIL	NPCIL	1989-9	2000-10	2000-11	79.0	88.0	-
	IN -14	KAIGA-2	PHWR	202	220	NPCIL	NPCIL	1989-12	1999-12	2000-3	78.0	86.0	-
	IN -9	KAKRAPAR-1	PHWR	202	220	NPCIL	NPCIL	1984-12	1992-11	1993-5	69.0	76.0	-
	IN -10	KAKRAPAR-2	PHWR	202	220	NPCIL	NPCIL	1985-4	1995-3	1995-9	81.0	87.0	-
	IN -5	MADRAS-1	PHWR	155	170	NPCIL	NPCIL	1971-1	1983-7	1984-1	48.0	56.0	-
	IN -6	MADRAS-2	PHWR	202	220	NPCIL	NPCIL	1972-10	1985-9	1986-3	53.0	61.0	-
	IN -7	NARORA-1	PHWR	202	220	NPCIL	NPCIL	1976-12	1989-7	1991-1	60.0	68.0	-
	IN -8	NARORA-2	PHWR	202	220	NPCIL	NPCIL	1977-11	1992-1	1992-7	68.0	74.0	-
	IN -3	RAJASTHAN-1	PHWR	90	100	NPCIL	AECL	1965-8	1972-11	1973-12	21.0	29.0	PH
	IN -4	RAJASTHAN-2	PHWR	187	200	NPCIL	AECL/DAE	1968-4	1980-11	1981-4	52.0	59.0	PH
	IN -11	RAJASTHAN-3	PHWR	202	220	NPCIL	NPCIL	1990-2	2000-3	2000-6	76.0	86.0	-
	IN -12	RAJASTHAN-4	PHWR	202	220	NPCIL	NPCIL	1990-10	2000-11	2000-12	79.0	90.0	-

The column Non-Electrical Applications indicates the use of the facility to provide: DS desalination, DH district heating, PH process heating.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
INDIA	IN -1	TARAPUR-1	BWR	150	160	NPCIL	GE	1964-10	1969-4	1969-10	54.0	76.0	-
	IN -2	TARAPUR-2	BWR	150	160	NPCIL	GE	1964-10	1969-5	1969-10	54.0	74.0	-
	IN -24	TARAPUR-4	PHWR	490	540	NPCIL	NPCIL	2000-3	2005-6	2005-9	(1)	(1)	-
JAPAN	JP -5	FUKUSHIMA-DAIICHI-1	BWR	439	460	TEPCO	GE/GETSC	1967-7	1970-11	1971-3	52.0	55.0	-
	JP -9	FUKUSHIMA-DAIICHI-2	BWR	760	784	TEPCO	GE/T	1969-6	1973-12	1974-7	59.0	60.0	-
	JP -10	FUKUSHIMA-DAIICHI-3	BWR	760	784	TEPCO	TOSHIBA	1970-12	1974-10	1976-3	63.0	64.0	-
	JP -16	FUKUSHIMA-DAIICHI-4	BWR	760	784	TEPCO	HITACHI	1973-2	1978-2	1978-10	71.0	71.0	-
	JP -17	FUKUSHIMA-DAIICHI-5	BWR	760	784	TEPCO	TOSHIBA	1972-5	1977-9	1978-4	71.0	72.0	-
	JP -18	FUKUSHIMA-DAIICHI-6	BWR	1067	1100	TEPCO	GE/T	1973-10	1979-5	1979-10	69.0	70.0	-
	JP -25	FUKUSHIMA-DAINI-1	BWR	1067	1100	TEPCO	TOSHIBA	1976-3	1981-7	1982-4	75.0	76.0	-
	JP -26	FUKUSHIMA-DAINI-2	BWR	1067	1100	TEPCO	HITACHI	1979-5	1983-6	1984-2	72.0	73.0	-
	JP -35	FUKUSHIMA-DAINI-3	BWR	1067	1100	TEPCO	TOSHIBA	1981-3	1984-12	1985-6	65.0	66.0	-
	JP -38	FUKUSHIMA-DAINI-4	BWR	1067	1100	TEPCO	HITACHI	1981-5	1986-12	1987-8	73.0	74.0	-
	JP -12	GENKAI-1	PWR	529	559	KYUSHU	MHI	1971-9	1975-2	1975-10	72.0	72.0	-
	JP -27	GENKAI-2	PWR	529	559	KYUSHU	MHI	1977-2	1980-6	1981-3	81.0	81.0	-
	JP -45	GENKAI-3	PWR	1127	1180	KYUSHU	MHI	1988-6	1993-6	1994-3	85.0	84.0	DS
	JP -46	GENKAI-4	PWR	1127	1180	KYUSHU	MHI	1992-7	1996-11	1997-7	87.0	86.0	DS
	JP -11	HAMAOKA-1	BWR	515	540	CHUBU	TOSHIBA	1971-6	1974-8	1976-3	54.0	55.0	-
	JP -24	HAMAOKA-2	BWR	806	840	CHUBU	TOSHIBA	1974-6	1978-5	1978-11	68.0	68.0	-
	JP -36	HAMAOKA-3	BWR	1056	1100	CHUBU	TOSHIBA	1983-4	1987-1	1987-8	77.0	78.0	-
	JP -49	HAMAOKA-4	BWR	1092	1137	CHUBU	TOSHIBA	1989-10	1993-1	1993-9	80.0	80.0	-

(1) Performance factors calculated only for period of full commercial operation and only to 2004.

The column Non-Electrical Applications indicates the use of the facility to provide: DS desalination, DH district heating, PH process heating.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
JAPAN	JP -60	HAMAOKA-5	ABWR	1325	1380	CHUBU	TOSHIBA	2000-7	2004-4	2005-1	(1)	(1)	-
	JP -58	HIGASHI DORI 1 (TOHOKU)	BWR	1067	1100	TOHOKU	TOSHIBA	2000-11	2005-3	2005-12	(1)	(1)	-
	JP -23	IKATA-1	PWR	538	566	SHIKOKU	MHI	1973-6	1977-2	1977-9	77.0	77.0	DS
	JP -32	IKATA-2	PWR	538	566	SHIKOKU	MHI	1978-2	1981-8	1982-3	82.0	82.0	DS
	JP -47	IKATA-3	PWR	846	890	SHIKOKU	MHI	1986-11	1994-3	1994-12	87.0	85.0	DS
	JP -33	KASHIWAZAKI KARIWA-1	BWR	1067	1100	TEPCO	TOSHIBA	1980-6	1985-2	1985-9	74.0	75.0	-
	JP -39	KASHIWAZAKI KARIWA-2	BWR	1067	1100	TEPCO	TOSHIBA	1985-11	1990-2	1990-9	74.0	75.0	-
	JP -52	KASHIWAZAKI KARIWA-3	BWR	1067	1100	TEPCO	TOSHIBA	1989-3	1992-12	1993-8	73.0	74.0	-
	JP -53	KASHIWAZAKI KARIWA-4	BWR	1067	1100	TEPCO	HITACHI	1990-3	1993-12	1994-8	76.0	77.0	-
	JP -40	KASHIWAZAKI KARIWA-5	BWR	1067	1100	TEPCO	HITACHI	1985-6	1989-9	1990-4	78.0	79.0	-
	JP -55	KASHIWAZAKI KARIWA-6	ABWR	1315	1356	TEPCO	TOSHIBA	1992-11	1996-1	1996-11	84.0	84.0	-
	JP -56	KASHIWAZAKI KARIWA-7	ABWR	1315	1356	TEPCO	HITACHI	1993-7	1996-12	1997-7	80.0	80.0	-
	JP -4	MIHAMA-1	PWR	320	340	KEPCO	WH	1967-2	1970-8	1970-11	51.0	55.0	-
	JP -6	MIHAMA-2	PWR	470	500	KEPCO	WH	1968-5	1972-4	1972-7	61.0	61.0	-
	JP -14	MIHAMA-3	PWR	780	826	KEPCO	MHI	1972-8	1976-2	1976-12	74.0	74.0	-
	JP -31	MONJU (*)	FBR	246	280	JAEA	T/H/F/M	1986-5	1995-8	—	(2)	(2)	-
	JP -15	OHI-1	PWR	1120	1175	KEPCO	WH	1972-10	1977-12	1979-3	65.0	64.0	DS
	JP -19	OHI-2	PWR	1120	1175	KEPCO	WH	1972-12	1978-10	1979-12	72.0	72.0	DS
	JP -50	OHI-3	PWR	1127	1180	KEPCO	MHI	1987-10	1991-6	1991-12	84.0	84.0	-
	JP -51	OHI-4	PWR	1127	1180	KEPCO	MHI	1988-6	1992-6	1993-2	85.0	84.0	-
	JP -22	ONAGAWA-1	BWR	498	524	TOHOKU	TOSHIBA	1980-7	1983-11	1984-6	75.0	75.0	-

(*) Long term shutdown.

(1) Performance factors calculated only for period of full commercial operation and only to 2004.

(2) No operating experience data are available in IAEA PRIS for this reactor.

The column Non-Electrical Applications indicates the use of the facility to provide: DS desalination, DH district heating, PH process heating.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
JAPAN	JP -54	ONAGAWA-2	BWR	796	825	TOHOKU	TOSHIBA	1991-4	1994-12	1995-7	82.0	82.0	-
	JP -57	ONAGAWA-3	BWR	796	825	TOHOKU	TOSHIBA	1998-1	2001-5	2002-1	88.0	86.0	-
	JP -28	SENDAI-1	PWR	846	890	KYUSHU	MHI	1979-12	1983-9	1984-7	82.0	81.0	-
	JP -37	SENDAI-2	PWR	846	890	KYUSHU	MHI	1981-10	1985-4	1985-11	84.0	83.0	-
	JP -48	SHIKA-1	BWR	505	540	HOKURIKU	HITACHI	1989-7	1993-1	1993-7	79.0	79.0	-
	JP -59	SHIKA-2	ABWR	1304	1358	HOKURIKU	HITACHI	2001-8	2005-7	2006-3	(1)	(1)	-
	JP -7	SHIMANE-1	BWR	439	460	CHUGOKU	HITACHI	1970-7	1973-12	1974-3	73.0	74.0	-
	JP -41	SHIMANE-2	BWR	789	820	CHUGOKU	HITACHI	1985-2	1988-7	1989-2	83.0	83.0	-
	JP -8	TAKAHAMA-1	PWR	780	826	KEPCO	WH/MHI	1970-4	1974-3	1974-11	66.0	66.0	-
	JP -13	TAKAHAMA-2	PWR	780	826	KEPCO	MHI	1971-3	1975-1	1975-11	67.0	67.0	-
	JP -29	TAKAHAMA-3	PWR	830	870	KEPCO	MHI	1980-12	1984-5	1985-1	85.0	84.0	DS
	JP -30	TAKAHAMA-4	PWR	830	870	KEPCO	MHI	1981-3	1984-11	1985-6	85.0	84.0	DS
	JP -21	TOKAI-2	BWR	1060	1100	JAPC	GE	1973-10	1978-3	1978-11	73.0	73.0	-
	JP -43	TOMARI-1	PWR	550	579	HEPCO	MHI	1985-7	1988-12	1989-6	85.0	84.0	-
	JP -44	TOMARI-2	PWR	550	579	HEPCO	MHI	1986-5	1990-8	1991-4	84.0	83.0	-
	JP -3	TSURUGA-1	BWR	341	357	JAPC	GE	1966-11	1969-11	1970-3	66.0	71.0	-
	JP -34	TSURUGA-2	PWR	1115	1160	JAPC	MHI	1982-11	1986-6	1987-2	82.0	83.0	-
KOREA RP	KR -1	KORI-1	PWR	556	587	KHNP	WH	1972-8	1977-6	1978-4	74.0	78.0	-
	KR -2	KORI-2	PWR	605	650	KHNP	WH	1977-12	1983-4	1983-7	86.0	85.0	-
	KR -5	KORI-3	PWR	895	950	KHNP	WH	1979-10	1985-1	1985-9	87.0	84.0	-
	KR -6	KORI-4	PWR	895	950	KHNP	WH	1980-4	1985-11	1986-4	89.0	86.0	-

(1) Performance factors calculated only for period of full commercial operation and only to 2004.

The column Non-Electrical Applications indicates the use of the facility to provide: DS desalination, DH district heating, PH process heating.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps	
	Code	Name		Net	Gross									
KOREA RP	KR -9	ULCHIN-1	PWR	920	950	KHNP	FRAM	1983-1	1988-4	1988-9	84.0	84.0	-	
	KR -10	ULCHIN-2	PWR	920	950	KHNP	FRAM	1983-7	1989-4	1989-9	88.0	86.0	-	
	KR -13	ULCHIN-3	PWR	960	1000	KHNP	DHICKOPC	1993-7	1998-1	1998-8	88.0	90.0	-	
	KR -14	ULCHIN-4	PWR	960	1000	KHNP	DHICKOPC	1993-11	1998-12	1999-12	91.0	89.0	-	
	KR -19	ULCHIN-5	PWR	960	1000	KHNP	DHICKOPC	1999-10	2003-12	2004-7	101.0	97.0	-	
	KR -20	ULCHIN-6	PWR	960	1000	KHNP	DHICKOPC	2000-9	2005-1	2005-6	(1)	(1)	-	
	KR -3	WOLSONG-1	PHWR	629	679	KHNP	AECL	1977-10	1982-12	1983-4	86.0	86.0	-	
	KR -4	WOLSONG-2	PHWR	650	700	KHNP	AECL/DHI	1992-9	1997-4	1997-7	93.0	89.0	-	
	KR -15	WOLSONG-3	PHWR	650	700	KHNP	AECL/DHI	1994-3	1998-3	1998-7	93.0	90.0	-	
	KR -16	WOLSONG-4	PHWR	650	700	KHNP	AECL/DHI	1994-7	1999-5	1999-10	97.0	92.0	-	
	KR -7	YONGGWANG-1	PWR	900	950	KHNP	WH	1981-6	1986-3	1986-8	88.0	86.0	-	
	KR -8	YONGGWANG-2	PWR	900	950	KHNP	WH	1981-12	1986-11	1987-6	86.0	84.0	-	
	KR -11	YONGGWANG-3	PWR	950	1000	KHNP	DHICKAEC	1989-12	1994-10	1995-3	90.0	88.0	-	
	KR -12	YONGGWANG-4	PWR	950	1000	KHNP	DHICKAEC	1990-5	1995-7	1996-1	91.0	88.0	-	
	KR -17	YONGGWANG-5	PWR	950	1000	KHNP	DHICKOPC	1997-6	2001-12	2002-5	79.0	76.0	-	
	KR -18	YONGGWANG-6	PWR	950	1000	KHNP	DHICKOPC	1997-11	2002-9	2002-12	84.0	80.0	-	
	LITHNIA	LT -47	IGNALINA-2	LWGR	1185	1300	INPP	MAEP	1978-1	1987-8	1987-8	59.0	73.0	-
	MEXICO	MX -1	LAGUNA VERDE-1	BWR	655	682	CFE	GE	1976-10	1989-4	1990-7	76.0	80.0	-
MX -2		LAGUNA VERDE-2	BWR	655	682	CFE	GE	1977-6	1994-11	1995-4	77.0	81.0	-	
NETHLNDS	NL -2	BORSSELE	PWR	449	481	EPZ	KWU/STOR	1969-7	1973-7	1973-10	82.0	87.0	-	

(1) Performance factors calculated only for period of full commercial operation and only to 2004.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
PAKISTAN	PK -2	CHASNUPP 1	PWR	300	325	PAEC	CNNC	1993-8	2000-6	2000-9	61.0	63.0	-
	PK -1	KANUPP	PHWR	125	137	PAEC	CGE	1966-8	1971-10	1972-12	27.0	45.0	-
ROMANIA	RO -1	CERNAVODA-1	PHWR	655	706	SNN	AECL	1982-7	1996-7	1996-12	86.0	87.0	-
RUSSIA	RU -96	BALAKOVO-1	WWER	950	1000	REA	FAEA	1980-12	1985-12	1986-5	60.0	67.0	DH
	RU -97	BALAKOVO-2	WWER	950	1000	REA	FAEA	1981-8	1987-10	1988-1	60.0	66.0	DH
	RU -98	BALAKOVO-3	WWER	950	1000	REA	FAEA	1982-11	1988-12	1989-4	64.0	72.0	DH
	RU -99	BALAKOVO-4	WWER	950	1000	REA	FAEA	1984-4	1993-4	1993-12	70.0	78.0	DH
	RU -21	BELOYARSKY-3(BN-600)	FBR	560	600	REA	FAEA	1969-1	1980-4	1981-11	73.0	75.0	DH
	RU -141	BILIBINO-1	LWGR	11	12	REA	FAEA	1970-1	1974-1	1974-4	59.0	80.0	DH
	RU -142	BILIBINO-2	LWGR	11	12	REA	FAEA	1970-1	1974-12	1975-2	58.0	81.0	DH
	RU -143	BILIBINO-3	LWGR	11	12	REA	FAEA	1970-1	1975-12	1976-2	60.0	81.0	DH
	RU -144	BILIBINO-4	LWGR	11	12	REA	FAEA	1970-1	1976-12	1977-1	59.0	78.0	DH
	RU -30	KALININ-1	WWER	950	1000	REA	FAEA	1977-2	1984-5	1985-6	71.0	71.0	DH,PH
	RU -31	KALININ-2	WWER	950	1000	REA	FAEA	1982-2	1986-12	1987-3	71.0	73.0	DH,PH
	RU -36	KALININ-3	WWER	950	1000	REA	FAEA	1985-10	2004-12	2005-11	(1)	(1)	
	RU -12	KOLA-1	WWER	411	440	REA	FAEA	1970-5	1973-6	1973-12	65.0	75.0	DH,PH
	RU -13	KOLA-2	WWER	411	440	REA	FAEA	1973-1	1974-12	1975-2	65.0	75.0	DH,PH
	RU -32	KOLA-3	WWER	411	440	REA	FAEA	1977-4	1981-3	1982-12	72.0	82.0	DH,PH
RU -33	KOLA-4	WWER	411	440	REA	FAEA	1976-8	1984-10	1984-12	71.0	81.0	DH,PH	
RU -17	KURSK-1	LWGR	925	1000	REA	FAEA	1972-6	1976-12	1977-10	57.0	59.0	DH,PH	

(1) Performance factors calculated only for period of full commercial operation and only to 2004.

The column Non-Electrical Applications indicates the use of the facility to provide: DS desalination, DH district heating, PH process heating.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
RUSSIA	RU -22	KURSK-2	LWGR	925	1000	REA	FAEA	1973-1	1979-1	1979-8	59.0	63.0	DH,PH
	RU -38	KURSK-3	LWGR	925	1000	REA	FAEA	1978-4	1983-10	1984-3	70.0	73.0	DH,PH
	RU -39	KURSK-4	LWGR	925	1000	REA	FAEA	1981-5	1985-12	1986-2	76.0	77.0	DH,PH
	RU -15	LENINGRAD-1	LWGR	925	1000	REA	FAEA	1970-3	1973-12	1974-11	67.0	69.0	DH
	RU -16	LENINGRAD-2	LWGR	925	1000	REA	FAEA	1970-6	1975-7	1976-2	70.0	71.0	DH
	RU -34	LENINGRAD-3	LWGR	925	1000	REA	FAEA	1973-12	1979-12	1980-6	68.0	70.0	DH
	RU -35	LENINGRAD-4	LWGR	925	1000	REA	FAEA	1975-2	1981-2	1981-8	71.0	73.0	DH
	RU -9	NOVOVORONEZH-3	WWER	385	417	REA	FAEA	1967-7	1971-12	1972-6	71.0	72.0	-
	RU -11	NOVOVORONEZH-4	WWER	385	417	REA	FAEA	1967-7	1972-12	1973-3	77.0	79.0	DH,PH
	RU -20	NOVOVORONEZH-5	WWER	950	1000	REA	FAEA	1974-3	1980-5	1981-2	59.0	61.0	DH,PH
	RU -23	SMOLENSK-1	LWGR	925	1000	REA	FAEA	1975-10	1982-12	1983-9	70.0	73.0	DH,PH
	RU -24	SMOLENSK-2	LWGR	925	1000	REA	FAEA	1976-6	1985-5	1985-7	72.0	75.0	DH,PH
	RU -67	SMOLENSK-3	LWGR	925	1000	REA	FAEA	1984-5	1990-1	1990-10	79.0	82.0	DH,PH
	RU -59	VOLGODONSK-1	WWER	950	1000	REA	FAEA	1981-9	2001-3	2001-12	86.0	85.0	-
	S.AFRICA	ZA -1	KOEBERG-1	PWR	900	944	ESKOM	FRAM	1976-7	1984-4	1984-7	67.0	75.0
ZA -2		KOEBERG-2	PWR	900	944	ESKOM	AA	1976-7	1985-7	1985-11	67.0	76.0	-
SLOVAKIA	SK -2	BOHUNICE-1	WWER	408	440	EBO	AEE	1972-4	1978-12	1980-4	71.0	76.0	-
	SK -3	BOHUNICE-2	WWER	408	440	EBO	AEE	1972-4	1980-3	1981-1	74.0	76.0	-
	SK -13	BOHUNICE-3	WWER	408	440	EBO	SKODA	1976-12	1984-8	1985-2	75.0	80.0	DH
	SK -14	BOHUNICE-4	WWER	408	440	EBO	SKODA	1976-12	1985-8	1985-12	77.0	82.0	DH
	SK -6	MOCHOVCE-1	WWER	405	440	EMO	SKODA	1983-10	1998-7	1998-10	77.0	82.0	-

The column Non-Electrical Applications indicates the use of the facility to provide: DS desalination, DH district heating, PH process heating.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps	
	Code	Name		Net	Gross									
SLOVAKIA	SK -7	MOCHOVCE-2	WWER	405	440	EMO	SKODA	1983-10	1999-12	2000-4	74.0	83.0	-	
SLOVENIA	SI -1	KRSKO	PWR	656	707	NEK	WH	1975-3	1981-10	1983-1	80.0	83.0	-	
SPAIN	ES -6	ALMARAZ-1	PWR	944	977	CNAT	WH	1973-7	1981-5	1983-9	84.0	85.0	-	
	ES -7	ALMARAZ-2	PWR	956	980	CNAT	WH	1973-7	1983-10	1984-7	87.0	87.0	-	
	ES -8	ASCO-1	PWR	996	1033	ANAV	WH	1974-5	1983-8	1984-12	83.0	85.0	-	
	ES -9	ASCO-2	PWR	992	1027	ANAV	WH	1975-3	1985-10	1986-3	86.0	88.0	-	
	ES -10	COFRENTES	BWR	1064	1092	ID	GE	1975-9	1984-10	1985-3	86.0	87.0	-	
	ES -1	JOSE CABRERA-1(ZORITA)	PWR	142	150	UFG	WH	1964-6	1968-7	1969-8	68.0	75.0	-	
	ES -2	SANTA MARIA DE GARONA	BWR	446	466	NUCLENOR	GE	1966-5	1971-3	1971-5	75.0	78.0	-	
	ES -11	TRILLO-1	PWR	1003	1066	CNAT	KWU	1979-8	1988-5	1988-8	82.0	87.0	-	
	ES -16	VANDELLOS-2	PWR	1045	1087	ANAV	WH	1980-12	1987-12	1988-3	86.0	87.0	-	
	SWEDEN	SE -9	FORSMARK-1	BWR	1018	1049	FKA	ABBATOM	1973-6	1980-6	1980-12	80.0	86.0	-
		SE -11	FORSMARK-2	BWR	951	989	FKA	ABBATOM	1975-1	1981-1	1981-7	81.0	86.0	-
SE -14		FORSMARK-3	BWR	1190	1232	FKA	ABBATOM	1979-1	1985-3	1985-8	84.0	89.0	-	
SE -2		OSKARSHAMN-1	BWR	467	487	OKG	ASEASTAL	1966-8	1971-8	1972-2	61.0	65.0	-	
SE -3		OSKARSHAMN-2	BWR	602	627	OKG	ABBATOM	1969-9	1974-10	1975-1	75.0	79.0	-	
SE -12		OSKARSHAMN-3	BWR	1160	1194	OKG	ASEASTAL	1980-5	1985-3	1985-8	83.0	87.0	-	
SE -4		RINGHALS-1	BWR	830	860	RAB	ABBATOM	1969-2	1974-10	1976-1	66.0	72.0	-	
SE -5		RINGHALS-2	PWR	867	917	RAB	WH	1970-10	1974-8	1975-5	65.0	73.0	-	
SE -7		RINGHALS-3	PWR	917	960	RAB	WH	1972-9	1980-9	1981-9	71.0	79.0	-	

The column Non-Electrical Applications indicates the use of the facility to provide: DS desalination, DH district heating, PH process heating.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non-Electrical Apps
	Code	Name		Net	Gross								
SWEDEN	SE -10	RINGHALS-4	PWR	908	960	RAB	WH	1973-11	1982-6	1983-11	75.0	86.0	-
SWITZRLD	CH -1	BEZNAU-1	PWR	365	380	NOK	WH	1965-9	1969-7	1969-9	82.0	87.0	DH
	CH -3	BEZNAU-2	PWR	365	380	NOK	WH	1968-1	1971-10	1971-12	86.0	87.0	DH
	CH -4	GOESGEN	PWR	970	1020	KKG	KWU	1973-12	1979-2	1979-11	87.0	88.0	PH
	CH -5	LEIBSTADT	BWR	1165	1220	KKL	GETSCO	1974-1	1984-5	1984-12	85.0	87.0	-
	CH -2	MUEHLEBERG	BWR	355	372	BKW	GETSCO	1967-3	1971-7	1972-11	86.0	87.0	-
UK	GB -9A	DUNGENESS-A1	GCR	225	230	BNFL	TNPG	1960-7	1965-9	1965-10	66.0	83.0	-
	GB -9B	DUNGENESS-A2	GCR	225	230	BNFL	TNPG	1960-7	1965-11	1965-12	84.0	84.0	-
	GB -18A	DUNGENESS-B1	AGR	555	615	BE	APC	1965-10	1985-12	1989-4	43.0	44.0	-
	GB -18B	DUNGENESS-B2	AGR	555	615	BE	APC	1965-10	1983-4	1985-4	46.0	48.0	-
	GB -19A	HARTLEPOOL-A1	AGR	605	655	BE	NPC	1968-10	1983-8	1989-4	73.0	75.0	-
	GB -19B	HARTLEPOOL-A2	AGR	605	655	BE	NPC	1968-10	1984-10	1989-4	76.0	78.0	-
	GB -20A	HEYSHAM-A1	AGR	575	625	BE	NPC	1970-12	1983-7	1989-4	74.0	76.0	-
	GB -20B	HEYSHAM-A2	AGR	575	625	BE	NPC	1970-12	1984-10	1989-4	73.0	75.0	-
	GB -22A	HEYSHAM-B1	AGR	625	680	BE	NPC	1980-8	1988-7	1989-4	73.0	76.0	-
	GB -22B	HEYSHAM-B2	AGR	625	680	BE	NPC	1980-8	1988-11	1989-4	71.0	75.0	-
	GB -16A	HINKLEY POINT-B1	AGR	610	655	BE	TNPG	1967-9	1976-10	1978-10	77.0	77.0	-
	GB -16B	HINKLEY POINT-B2	AGR	610	655	BE	TNPG	1967-9	1976-2	1976-9	72.0	75.0	-
	GB -17A	HUNTERSTON-B1	AGR	595	644	BE	TNPG	1967-11	1976-2	1976-2	70.0	79.0	-
	GB -17B	HUNTERSTON-B2	AGR	595	644	BE	TNPG	1967-11	1977-3	1977-3	68.0	81.0	-

The column Non-Electrical Applications indicates the use of the facility to provide:- DS deslination, DH district heating, PH process heat.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non-Electrical Apps
	Code	Name		Net	Gross								
UK	GB -11A	OLDBURY-A1	GCR	217	230	BNFL	TNPG	1962-5	1967-11	1967-12	78.0	89.0	-
	GB -11B	OLDBURY-A2	GCR	217	230	BNFL	TNPG	1962-5	1968-4	1968-9	88.0	88.0	-
	GB -10A	SIZEWELL-A1	GCR	210	245	BNFL	EE/B&W/T	1961-4	1966-1	1966-3	69.0	83.0	-
	GB -10B	SIZEWELL-A2	GCR	210	245	BNFL	EE/B&W/T	1961-4	1966-4	1966-9	92.0	94.0	-
	GB -24	SIZEWELL-B	PWR	1188	1250	BE	PPC	1988-7	1995-2	1995-9	83.0	85.0	DH
	GB -23A	TORNESS 1	AGR	625	682	BE	NNC	1980-8	1988-5	1988-5	67.0	74.0	DH
	GB -23B	TORNESS 2	AGR	625	682	BE	NNC	1980-8	1989-2	1989-2	66.0	72.0	DH
	GB -13A	WYLFA 1	GCR	490	540	BNFL	EE/B&W/T	1963-9	1971-1	1971-11	72.0	88.0	DH
	GB -13B	WYLFA 2	GCR	490	540	BNFL	EE/B&W/T	1963-9	1971-7	1972-1	75.0	75.0	-
	UKRAINE	UA -40	KHMELNITSKI-1	WWER	950	1000	NNEGC	PAIP	1981-11	1987-12	1988-8	71.0	71.0
UA -41		KHMELNITSKI-2	WWER	950	1000	NNEGC	PAIP	1985-2	2004-8	2005-12	(1)	(1)	
UA -27		ROVNO-1	WWER	381	420	NNEGC	PAIP	1973-8	1980-12	1981-9	81.0	81.0	DH
UA -28		ROVNO-2	WWER	376	415	NNEGC	PAIP	1973-10	1981-12	1982-7	79.0	81.0	DH
UA -29		ROVNO-3	WWER	950	1000	NNEGC	PAIP	1980-2	1986-12	1987-5	69.0	73.0	DH
UA -69		ROVNO-4	WWER	950	1000	NNEGC	PAA	1986-8	2004-10	—	(1)	(1)	
UA -44		SOUTH UKRAINE-1	WWER	950	1000	NNEGC	PAA	1977-3	1982-12	1983-10	66.0	65.0	DH
UA -45		SOUTH UKRAINE-2	WWER	950	1000	NNEGC	PAA	1979-10	1985-1	1985-4	60.0	61.0	DH
UA -48		SOUTH UKRAINE-3	WWER	950	1000	NNEGC	PAA	1985-2	1989-9	1989-12	71.0	72.0	DH
UA -54		ZAPOROZHE-1	WWER	950	1000	NNEGC	PAIP	1980-4	1984-12	1985-12	59.0	62.0	DH
UA -56	ZAPOROZHE-2	WWER	950	1000	NNEGC	PAIP	1981-1	1985-7	1986-2	63.0	66.0	DH	
UA -78	ZAPOROZHE-3	WWER	950	1000	NNEGC	PAIP	1982-4	1986-12	1987-3	66.0	70.0	DH	

(1) Performance factors calculated only for period of full commercial operation and only to 2004.

The column Non-Electrical Applications indicates the use of the facility to provide: DS desalination, DH district heating, PH process heating.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
UKRAINE	UA -79	ZAPOROZHE-4	WWER	950	1000	NNEGC	PAIP	1983-4	1987-12	1988-4	70.0	74.0	DH
	UA -126	ZAPOROZHE-5	WWER	950	1000	NNEGC	PAIP	1985-11	1989-8	1989-10	71.0	73.0	DH
	UA -127	ZAPOROZHE-6	WWER	950	1000	NNEGC	PAIP	1986-6	1995-10	1996-9	77.0	79.0	DH
USA	US -313	ARKANSAS ONE-1	PWR	840	903	ENTERGY	B&W	1968-10	1974-8	1974-12	72.0	77.0	-
	US -368	ARKANSAS ONE-2	PWR	1000	1013	ENTERGY	CE	1971-7	1978-12	1980-3	82.0	81.0	-
	US -334	BEAVER VALLEY-1	PWR	821	923	FENOC	WH	1970-6	1976-6	1976-10	66.0	70.0	-
	US -412	BEAVER VALLEY-2	PWR	831	923	FENOC	WH	1974-5	1987-8	1987-11	80.0	85.0	-
	US -456	BRAIDWOOD-1	PWR	1185	1242	EXELON	WH	1975-8	1987-7	1988-7	83.0	85.0	-
	US -457	BRAIDWOOD-2	PWR	1177	1210	EXELON	WH	1975-8	1988-5	1988-10	86.0	89.0	-
	US -259	BROWNS FERRY-1 (*)	BWR	1065	1152	TVA	GE	1967-5	1973-10	1974-8	18.0	19.0	-
	US -260	BROWNS FERRY-2	BWR	1118	1152	TVA	GE	1967-5	1974-8	1975-3	59.0	62.0	-
	US -296	BROWNS FERRY-3	BWR	1114	1190	TVA	GE	1968-7	1976-9	1977-3	48.0	50.0	-
	US -325	BRUNSWICK-1	BWR	872	895	PROGRESS	GE	1969-9	1976-12	1977-3	68.0	72.0	-
	US -324	BRUNSWICK-2	BWR	811	895	PROGRESS	GE	1969-9	1975-4	1975-11	66.0	70.0	-
	US -454	BYRON-1	PWR	1194	1242	EXELON	WH	1975-4	1985-3	1985-9	81.0	86.0	-
	US -455	BYRON-2	PWR	1162	1210	EXELON	WH	1975-4	1987-2	1987-8	86.0	91.0	-
	US -483	CALLAWAY-1	PWR	1137	1236	AMEREN	WH	1975-9	1984-10	1984-12	86.0	87.0	-
	US -317	CALVERT CLIFFS-1	PWR	845	918	CONST	CE	1968-6	1975-1	1975-5	76.0	75.0	-
	US -318	CALVERT CLIFFS-2	PWR	858	911	CONST	CE	1968-6	1976-12	1977-4	79.0	79.0	-
	US -413	CATAWBA-1	PWR	1129	1205	DUKE	WH	1974-5	1985-1	1985-6	81.0	83.0	-
	US -414	CATAWBA-2	PWR	1129	1205	DUKE	WH	1974-5	1986-5	1986-8	82.0	84.0	-

(*) Long term shutdown.

The column Non-Electrical Applications indicates the use of the facility to provide: DS desalination, DH district heating, PH process heating.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
USA	US -461	CLINTON-1	BWR	1026	1077	EXELON	GE	1975-10	1987-4	1987-11	67.0	70.0	-
	US -397	COLUMBIA	BWR	1108	1200	ENERGYNW	GE	1972-8	1984-5	1984-12	69.0	76.0	-
	US -445	COMANCHE PEAK-1	PWR	1084	1215	TXU	WH	1974-10	1990-4	1990-8	82.0	87.0	-
	US -446	COMANCHE PEAK-2	PWR	1124	1215	TXU	WH	1974-10	1993-4	1993-8	84.0	89.0	-
	US -298	COOPER	BWR	757	801	NPPD	GE	1968-6	1974-5	1974-7	68.0	73.0	-
	US -302	CRYSTAL RIVER-3	PWR	838	890	PROGRESS	B&W	1967-6	1977-1	1977-3	68.0	71.0	-
	US -346	DAVIS BESSE-1	PWR	873	925	FENOC	B&W	1970-9	1977-8	1978-7	62.0	65.0	-
	US -275	DIABLO CANYON-1	PWR	1087	1136	PGE	WH	1968-8	1984-11	1985-5	83.0	84.0	-
	US -323	DIABLO CANYON-2	PWR	1087	1164	PGE	WH	1970-12	1985-10	1986-3	85.0	88.0	-
	US -315	DONALD COOK-1	PWR	1016	1152	IMPSCO	WH	1969-3	1975-2	1975-8	64.0	68.0	-
	US -316	DONALD COOK-2	PWR	1077	1133	IMPSCO	WH	1969-3	1978-3	1978-7	61.0	66.0	-
	US -237	DRESDEN-2	BWR	850	912	EXELON	GE	1966-1	1970-4	1970-6	64.0	75.0	-
	US -249	DRESDEN-3	BWR	850	912	EXELON	GE	1966-10	1971-7	1971-11	64.0	71.0	-
	US -331	DUANE ARNOLD-1	BWR	562	597	NUCMAN	GE	1970-6	1974-5	1975-2	71.0	76.0	-
	US -341	ENRICO FERMI-2	BWR	1111	1154	DETEC	GE	1969-5	1986-9	1988-1	72.0	76.0	-
	US -348	FARLEY-1	PWR	833	888	SOUTH	WH	1970-10	1977-8	1977-12	80.0	82.0	-
	US -364	FARLEY-2	PWR	842	888	SOUTH	WH	1970-10	1981-5	1981-7	83.0	86.0	-
	US -333	FITZPATRICK	BWR	825	882	ENTERGY	GE	1968-9	1975-2	1975-7	71.0	74.0	-
	US -285	FORT CALHOUN-1	PWR	476	562	OPPD	CE	1968-6	1973-8	1974-6	75.0	79.0	-
	US -416	GRAND GULF-1	BWR	1263	1373	ENTERGY	GE	1974-5	1984-10	1985-7	86.0	85.0	-
	US -261	H.B. ROBINSON-2	PWR	710	769	PROGRESS	WH	1967-4	1970-9	1971-3	74.0	77.0	-

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
USA	US -321	HATCH-1	BWR	856	865	SOUTH	GE	1968-9	1974-11	1975-12	76.0	78.0	-
	US -366	HATCH-2	BWR	883	957	SOUTH	GE	1972-2	1978-9	1979-9	77.0	81.0	-
	US -354	HOPE CREEK-1	BWR	1049	1170	PSEG	GE	1976-3	1986-8	1986-12	81.0	84.0	-
	US -247	INDIAN POINT-2	PWR	965	1012	ENTERGY	WH	1966-10	1973-6	1974-8	67.0	69.0	-
	US -286	INDIAN POINT-3	PWR	985	1012	ENTERGY	WH	1968-11	1976-4	1976-8	61.0	65.0	-
	US -305	KEWAUNEE	PWR	539	581	NUCMAN	WH	1968-8	1974-4	1974-6	81.0	82.0	-
	US -373	LASALLE-1	BWR	1146	1170	EXELON	GE	1973-9	1982-9	1984-1	69.0	72.0	-
	US -374	LASALLE-2	BWR	1147	1170	EXELON	GE	1973-10	1984-4	1984-10	69.0	70.0	-
	US -352	LIMERICK-1	BWR	1134	1138	EXELON	GE	1970-4	1985-4	1986-2	84.0	88.0	-
	US -353	LIMERICK-2	BWR	1134	1138	EXELON	GE	1970-4	1989-9	1990-1	90.0	92.0	-
	US -369	MCGUIRE-1	PWR	1100	1220	DUKE	WH	1971-4	1981-9	1981-12	74.0	79.0	-
	US -370	MCGUIRE-2	PWR	1100	1220	DUKE	WH	1971-4	1983-5	1984-3	81.0	83.0	-
	US -336	MILLSTONE-2	PWR	866	910	DOMIN	CE	1969-11	1975-11	1975-12	61.0	64.0	-
	US -423	MILLSTONE-3	PWR	1131	1253	DOMIN	WH	1974-5	1986-2	1986-4	69.0	72.0	-
	US -263	MONTICELLO	BWR	569	600	NUCMAN	GE	1967-6	1971-3	1971-6	78.0	83.0	-
	US -220	NINE MILE POINT-1	BWR	621	642	CONST	GE	1965-4	1969-11	1969-12	67.0	71.0	-
	US -410	NINE MILE POINT-2	BWR	1135	1259	CONST	GE	1975-8	1987-8	1988-3	78.0	80.0	-
	US -338	NORTH ANNA-1	PWR	925	980	DOMIN	WH	1971-2	1978-4	1978-6	77.0	80.0	-
	US -339	NORTH ANNA-2	PWR	917	980	DOMIN	WH	1970-11	1980-8	1980-12	81.0	84.0	-
	US -269	OCONEE-1	PWR	846	887	DUKE	B&W	1967-11	1973-5	1973-7	75.0	79.0	-
	US -270	OCONEE-2	PWR	846	887	DUKE	B&W	1967-11	1973-12	1974-9	77.0	80.0	-

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
USA	US -287	OCONEE-3	PWR	846	893	DUKE	B&W	1967-11	1974-9	1974-12	76.0	78.0	-
	US -219	OYSTER CREEK	BWR	619	641	EXELON	GE	1964-1	1969-9	1969-12	68.0	73.0	-
	US -255	PALISADES	PWR	767	912	NUCMAN	CE	1967-2	1971-12	1971-12	63.0	67.0	-
	US -528	PALO VERDE-1	PWR	1243	1403	ANPP	CE	1976-5	1985-6	1986-1	75.0	77.0	-
	US -529	PALO VERDE-2	PWR	1335	1403	ANPP	CE	1976-6	1986-5	1986-9	78.0	79.0	-
	US -530	PALO VERDE-3	PWR	1247	1403	ANPP	CE	1976-6	1987-11	1988-1	82.0	83.0	-
	US -277	PEACH BOTTOM-2	BWR	1112	1152	EXELON	GE	1968-1	1974-2	1974-7	68.0	71.0	-
	US -278	PEACH BOTTOM-3	BWR	1112	1152	EXELON	GE	1968-1	1974-9	1974-12	69.0	71.0	-
	US -440	PERRY-1	BWR	1235	1253	FENOC	GE	1974-10	1986-12	1987-11	76.0	78.0	-
	US -293	PILGRIM-1	BWR	685	691	ENTERGY	GE	1968-8	1972-7	1972-12	63.0	67.0	-
	US -266	POINT BEACH-1	PWR	512	524	NUCMAN	WH	1967-7	1970-11	1970-12	77.0	82.0	-
	US -301	POINT BEACH-2	PWR	514	524	NUCMAN	WH	1968-7	1972-8	1972-10	81.0	83.0	-
	US -282	PRAIRIE ISLAND-1	PWR	522	593	NUCMAN	WH	1968-5	1973-12	1973-12	85.0	85.0	-
	US -306	PRAIRIE ISLAND-2	PWR	522	544	NUCMAN	WH	1969-5	1974-12	1974-12	87.0	87.0	-
	US -254	QUAD CITIES-1	BWR	864	912	EXELON	GE	1967-2	1972-4	1973-2	69.0	75.0	-
	US -265	QUAD CITIES-2	BWR	864	912	EXELON	GE	1967-2	1972-5	1973-3	68.0	74.0	-
	US -244	R.E. GINNA	PWR	498	517	CONST	WH	1966-4	1969-12	1970-7	80.0	83.0	-
	US -458	RIVER BEND-1	BWR	978	1036	ENTERGY	GE	1977-3	1985-12	1986-6	78.0	80.0	-
	US -272	SALEM-1	PWR	1111	1170	PSEG	WH	1968-1	1976-12	1977-6	60.0	64.0	-
	US -311	SALEM-2	PWR	1129	1170	PSEG	WH	1968-1	1981-6	1981-10	61.0	66.0	-
	US -361	SAN ONOFRE-2	PWR	1070	1127	SCE	CE	1974-3	1982-9	1983-8	81.0	81.0	-

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
USA	US -362	SAN ONOFRE-3	PWR	1080	1127	SCE	CE	1974-3	1983-9	1984-4	80.0	81.0	-
	US -443	SEABROOK-1	PWR	1159	1242	FPL	WH	1976-7	1990-5	1990-8	84.0	85.0	-
	US -327	SEQUOYAH-1	PWR	1150	1221	TVA	WH	1970-5	1980-7	1981-7	66.0	68.0	-
	US -328	SEQUOYAH-2	PWR	1127	1221	TVA	WH	1970-5	1981-12	1982-6	69.0	72.0	-
	US -400	SHEARON HARRIS-1	PWR	900	951	PROGRESS	WH	1974-1	1987-1	1987-5	85.0	87.0	-
	US -498	SOUTH TEXAS-1	PWR	1280	1354	STP	WH	1975-9	1988-3	1988-8	76.0	78.0	-
	US -499	SOUTH TEXAS-2	PWR	1280	1354	STP	WH	1975-9	1989-4	1989-6	77.0	79.0	-
	US -335	ST. LUCIE-1	PWR	839	850	FPL	CE	1970-7	1976-5	1976-12	80.0	81.0	-
	US -389	ST. LUCIE-2	PWR	839	850	FPL	CE	1976-6	1983-6	1983-8	85.0	86.0	-
	US -280	SURRY-1	PWR	810	848	DOMIN	WH	1968-6	1972-7	1972-12	71.0	73.0	-
	US -281	SURRY-2	PWR	815	848	DOMIN	WH	1968-6	1973-3	1973-5	71.0	73.0	-
	US -387	SUSQUEHANNA-1	BWR	1105	1298	PP&L	GE	1973-11	1982-11	1983-6	80.0	82.0	-
	US -388	SUSQUEHANNA-2	BWR	1140	1298	PP&L	GE	1973-11	1984-7	1985-2	85.0	86.0	-
	US -289	THREE MILE ISLAND-1	PWR	786	837	EXELON	B&W	1968-5	1974-6	1974-9	69.0	85.0	-
	US -250	TURKEY POINT-3	PWR	693	760	FPL	WH	1967-4	1972-11	1972-12	71.0	76.0	-
	US -251	TURKEY POINT-4	PWR	693	760	FPL	WH	1967-4	1973-6	1973-9	72.0	75.0	-
	US -271	VERMONT YANKEE	BWR	506	563	ENTERGY	GE	1967-12	1972-9	1972-11	80.0	83.0	-
	US -395	VIRGIL C. SUMMER-1	PWR	966	1003	SCEG	WH	1973-3	1982-11	1984-1	80.0	83.0	-
	US -424	VOGTLE-1	PWR	1152	1160	SOUTH	WH	1976-8	1987-3	1987-6	89.0	89.0	-
	US -425	VOGTLE-2	PWR	1149	1160	SOUTH	WH	1976-8	1989-4	1989-5	89.0	90.0	-
	US -382	WATERFORD-3	PWR	1089	1200	ENTERGY	CE	1974-11	1985-3	1985-9	85.0	85.0	-

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2004	UCF % to 2004	Non- Electrical Apps
	Code	Name		Net	Gross								
USA	US -390	WATTS BAR-1	PWR	1121	1270	TVA	WH	1972-12	1996-2	1996-5	90.0	91.0	-
	US -482	WOLF CREEK	PWR	1165	1236	WOLF	WH	1977-1	1985-6	1985-9	84.0	85.0	-

Status as of 31 December 2005, 443 reactors (369552 MW(e)) were connected to the grid, including 6 units (4904 MW(e)) in Taiwan, China:

CHIN SHAN-1, BWR, 604 MW(e);
 CHIN SHAN-2, BWR, 604 MW(e);
 KUOSHENG-1, BWR, 948 MW(e);
 KUOSHENG-2, BWR, 948 MW(e);
 MAANSHAN-1, PWR, 910 MW(e);
 MAANSHAN-2, PWR, 910 MW(e).

TABLE 11. REACTORS UNDER CONSTRUCTION, 31 DEC. 2005

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation
	Code	Name		Net	Gross						
ARGENTINA	AR -3	ATUCHA-2	PHWR	692	745	NASA	SIEMENS	1981-7	—	—	—
BULGARIA	BG -7	BELENE-1	WWER	953	1000	KOZNPP	AEE	1987-1	—	—	—
	BG -8	BELENE-2	WWER	953	1000	KOZNPP	AEE	1987-3	—	—	—
CHINA	CN -12	LINGAO 3	PWR	1000	1087	LDNPC	DFEC	2005-12	2010-7	2010-8	2010-12
	CN -10	TIANWAN 1	WWER	1000	1060	JNPC	ASEA	1999-10	2005-12	—	—
	CN -11	TIANWAN 2	WWER	1000	1060	JNPC	AEE&ZAES	2000-10	—	—	—
FINLAND	FI -5	OLKILUOTO-3	PWR	1600		TVO	Fram ANP	2005-8	—	—	—
INDIA	IN -15	KAIGA-3	PHWR	202	220	NPCIL	NPCIL	2002-3	2006-12	2007-1	2007-3
	IN -16	KAIGA-4	PHWR	202	220	NPCIL	NPCIL	2002-5	2007-6	2007-7	2007-9
	IN -25	KUDANKULAM-1	WWER	917	1000	NPCIL	MAEP	2002-3	2007-9	2007-10	2007-12
	IN -26	KUDANKULAM-2	WWER	917	1000	NPCIL	MAEP	2002-7	2008-9	2008-10	2008-12
	IN -29	PFBR	FBR	470	500	BHAVINI		2004-10	—	—	—
	IN -19	RAJASTHAN-5	PHWR	202	220	NPCIL	NPCIL	2002-9	2007-5	2007-6	2007-8
	IN -20	RAJASTHAN-6	PHWR	202	220	NPCIL	NPCIL	2003-1	2007-11	2007-12	2008-2
	IN -23	TARAPUR-3	PHWR	490	540	NPCIL	NPCIL	2000-5	2006-7	2006-9	2007-1
IRAN	IR -1	BUSHEHR-1	WWER	915	1000	AEOI	ASE	1975-5	2006-6	2006-10	2006-12
JAPAN	JP -64	TOMARI-3	PWR	866	912	HEPCO	MHI	2004-11	—	—	2009-12
PAKISTAN	PK -3	CHASNUPP 2	PWR	300	325	PAEC	CNNC	2005-12	2011-2	2011-4	2011-7
ROMANIA	RO -2	CERNAVODA-2	PHWR	655	706	SNN	AECL	1983-7	2006-12	2007-2	2007-6

TABLE 11. REACTORS UNDER CONSTRUCTION, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation
	Code	Name		Net	Gross						
RUSSIA	RU -114	BALAKOVO-5	WWER	950	1000	REA		1987-4	—	2010-12	—
	RU -37	KALININ-4	WWER	950	1000	REA		1986-8	—	2010-12	—
	RU -120	KURSK-5	LWGR	925	1000	REA	FAEA	1985-12	—	2010-12	—
	RU -62	VOLGODONSK-2	WWER	950	1000	REA	FAEA	1983-5	—	2008-12	—
UKRAINE	UA -51	KHMELNITSKI-3	WWER	950	1000	NNEGC		1986-3	—	2015-1	—
	UA -52	KHMELNITSKI-4	WWER	950	1000	NNEGC		1987-2	—	2016-1	—

Status as of 31 December 2005, 27 reactors (21811 MW(e)) are under construction, including 2 units LUNG MEI 1 and LUNG MEI 2 (2600 MW(e)) in Taiwan, China.

TABLE 12. REACTORS SHUT DOWN, 31 DEC. 2005

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation	Shut Down
	Code	Name		Net	Gross							
ARMENIA	AM -18	ARMENIA-1	WWER	376	408	JSC	FAEA	1973-1	1976-12	1976-12	1979-10	1989-2
BELGIUM	BE -1	BR-3	PWR	11	12	CEN/SCK	WH	1957-11	1962-8	1962-10	1962-10	1987-6
BULGARIA	BG -1	KOZLODUY-1	WWER	408	440	KOZNPP	AEE	1970-4	1974-6	1974-7	1974-10	2002-12
	BG -2	KOZLODUY-2	WWER	408	440	KOZNPP	AEE	1970-4	1975-8	1975-8	1975-11	2002-12
CANADA (1)	CA -8	BRUCE-1	PHWR	769	825	BRUCEPOW	OH/AECL	1971-6	1976-12	1977-1	1977-9	1997-10
	CA -9	BRUCE-2	PHWR	769	825	BRUCEPOW	OH/AECL	1970-12	1976-7	1976-9	1977-9	1995-10
	CA -2	DOUGLAS POINT	PHWR	206	218	OPG	AECL	1960-2	1966-11	1967-1	1968-9	1984-5
	CA -3	GENTILLY-1	HWLWR	250	266	HQ	AECL	1966-9	1970-11	1971-4	1972-5	1977-6
	CA -1	NPD	PHWR	22	25	OH	CGE	1958-1	1962-4	1962-6	1962-10	1987-8
	CA -5	PICKERING-2	PHWR	515	542	OPG	OH/AECL	1966-9	1971-9	1971-10	1971-12	1997-12
CA -6	PICKERING-3	PHWR	515	542	OPG	OH/AECL	1967-12	1972-4	1972-5	1972-6	1997-12	
FRANCE	FR -9	BUGEY-1	GCR	540	555	EDF	VARIOUS	1965-12	1972-3	1972-4	1972-7	1994-5
	FR -2	CHINON-A1	GCR	70	80	EDF	LEVIVIER	1957-2	1962-9	1963-6	1964-2	1973-4
	FR -3	CHINON-A2	GCR	210	230	EDF	LEVIVIER	1959-8	1964-8	1965-2	1965-2	1985-6
	FR -4	CHINON-A3	GCR	480	480	EDF	GTM	1961-3	1966-3	1966-8	1966-8	1990-6
	FR -5	CHOOZ-A(ARDENNES)	PWR	310	320	SENA	A/F/W	1962-1	1966-10	1967-4	1967-4	1991-10
	FR -6	EL-4 (MONTS D'ARREE)	HWGCR	70	75	EDF	GAA	1962-7	1966-12	1967-7	1968-6	1985-7
	FR -1B	G-2 (MARCOULE)	GCR	38	43	COGEMA	SACM	1955-3	1958-7	1959-4	1959-4	1980-2
FR -1	G-3 (MARCOULE)	GCR	38	43	COGEMA	SACM	1956-3	1959-6	1960-4	1960-4	1984-6	
FR -7	ST. LAURENT-A1	GCR	480	500	EDF	VARIOUS	1963-10	1969-1	1969-3	1969-6	1990-4	

(1) One reactor in Canada, PICKERING-1 was reconnected to the grid in 2003 and hence has been removed from this table.
In Canada, Bruce 1,2 and Pickering 2,3 might restart in the future.

TABLE 12. REACTORS SHUT DOWN, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation	Shut Down
	Code	Name		Net	Gross							
FRANCE	FR -8	ST. LAURENT-A2	GCR	515	530	EDF	VARIOUS	1966-1	1971-7	1971-8	1971-11	1992-5
	FR -24	SUPER*-PHENIX	FBR	1200	1242	NERSA	ASPALDO	1976-12	1985-9	1986-1	—	1998-12
GERMANY	DE -4	AVR JUELICH (AVR)	HTGR	13	15	AVR	BBK	1961-8	1966-8	1967-12	1969-5	1988-12
	DE -502	GREIFSWALD-1(KGR 1)	WWER	408	440	EWN	AEE,KAB	1970-3	1973-12	1973-12	1974-7	1990-2
	DE -503	GREIFSWALD-2 (KGR 2)	WWER	408	440	EWN	AEE,KAB	1970-3	1974-12	1974-12	1975-4	1990-2
	DE -504	GREIFSWALD-3 (KGR 3)	WWER	408	440	EWN	AEE,KAB	1972-4	1977-10	1977-10	1978-5	1990-2
	DE -505	GREIFSWALD-4 (KGR 4)	WWER	408	440	EWN	AEE,KAB	1972-4	1979-7	1979-9	1979-11	1990-7
	DE -506	GREIFSWALD-5 (KGR 5)	WWER	408	440	EWN	AEE,KAB	1976-12	1989-3	1989-4	1989-11	1989-11
	DE -3	GUNDREMMINGEN-A (KRB A)	BWR	237	250	KGB	AEG,GE	1962-12	1966-8	1966-12	1967-4	1977-1
	DE -7	HDR GROSSWELZHEIM	BWR	23	25	HDR	AEG,KWU	1965-1	1969-10	1969-10	1970-8	1971-4
	DE -8	KNK II	FBR	17	21	KBG	IA	1974-9	1977-10	1978-4	1979-3	1991-8
	DE -6	LINGEN (KWL)	BWR	250	268	KWL	AEG	1964-10	1968-1	1968-7	1968-10	1979-1
	DE -22	MUELHEIM-KAERLICH (KMK)	PWR	1219	1302	RWE	BBR	1975-1	1986-3	1986-3	1987-8	1988-9
	DE -2	MZFR	PHWR	52	57	KBG	SIEMENS	1961-12	1965-9	1966-3	1966-12	1984-5
	DE -11	NIEDERAICHBACH (KKN)	HWGCR	100	106	KKN	SIEM,KWU	1966-6	1972-12	1973-1	1973-1	1974-7
	DE -5	OBRIGHEIM (KWO)	PWR	340	357	EnBW	SIEM,KWU	1965-3	1968-9	1968-10	1969-3	2005-5
	DE -501	RHEINSBERG (KKR)	PWR	62	70	EWN	AEE,KAB	1960-1	1966-3	1966-5	1966-10	1990-6
	DE -10	STADE (KKS)	PWR	640	672	EON	KWU	1967-12	1972-1	1972-1	1972-5	2003-11
	DE -19	THTR-300	HTGR	296	308	HKG	HRB	1971-5	1983-9	1985-11	1987-6	1988-4
	DE -1	VAK KAHL	BWR	15	16	VAK	GE,AEG	1958-7	1960-11	1961-6	1962-2	1985-11
	DE -9	WUERGASSEN (KWW)	BWR	640	670	PE	AEG,KWU	1968-1	1971-10	1971-12	1975-11	1994-8
ITALY	IT -4	CAORSO	BWR	860	882	SOGIN	AMN/GETS	1970-1	1977-12	1978-5	1981-12	1990-7

TABLE 12. REACTORS SHUT DOWN, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation	Shut Down
	Code	Name		Net	Gross							
ITALY	IT -3	ENRICO FERMI (TRINO)	PWR	260	270	SOGIN	WH	1961-7	1964-6	1964-10	1965-1	1990-7
	IT -2	GARIGLIANO	BWR	150	160	SOGIN	GE	1959-11	1963-6	1964-1	1964-6	1982-3
	IT -1	LATINA	GCR	153	160	SOGIN	TNPG	1958-11	1962-12	1963-5	1964-1	1987-12
JAPAN	JP -20	FUGEN ATR	HWLWR	148	165	JAEA	HITACHI	1972-5	1978-3	1978-7	1979-3	2003-3
	JP -1	JPDR	BWR	13	13	JAERI	GE	1960-12	1963-8	1963-10	1965-3	1976-3
	JP -2	TOKAI-1	GCR	159	166	JAPC	GEC	1961-3	1965-5	1965-11	1966-7	1998-3
KAZAKHS.	KZ -10	BN-350	FBR	52	90	KATEII	MPP	1964-10	1972-11	1973-7	1973-7	1999-4
LITHNIA	LT -46	IGNALINA-1	LWGR	1185	1300	INPP	MAEP	1977-5	1983-10	1983-12	1984-5	2004-12
NETHLNDS	NL -1	DODEWAARD	BWR	55	58	GKN(NL)	STORK/H	1965-5	1968-6	1968-10	1969-1	1997-3
RUSSIA	RU -1	APS-1 OBNINSK	LWGR	5	6	REA		1951-1	1954-5	1954-6	1954-6	2002-4
	RU -3	BELOYARSKY-1	LWGR	102	108	REA	FAEA	1958-6	1963-9	1964-4	1964-4	1983-1
	RU -6	BELOYARSKY-2	LWGR	146	160	REA	FAEA	1962-1	1967-10	1967-12	1969-12	1990-1
	RU -4	NOVOVORONEZH-1	WWER	197	210	REA	FAEA	1957-7	1963-12	1964-9	1964-12	1988-2
	RU -8	NOVOVORONEZH-2	WWER	336	365	REA	FAEA	1964-6	1969-12	1969-12	1970-4	1990-8
SLOVAKIA	SK -1	BOHUNICE A1	HWGCR	110	144	EBO	SKODA	1958-8	1972-10	1972-12	1972-12	1977-1
SPAIN	ES -3	VANDELLOS-1	GCR	480	500	HIFRENSA	CEA	1968-6	1972-2	1972-5	1972-8	1990-7
SWEDEN	SE -1	AGESTA	PHWR	10	12	VAB	ABBATOM	1957-12	1963-7	1964-5	1964-5	1974-6
	SE -6	BARSEBACK-1	BWR	600	615	BKAB	ASEASTAL	1971-2	1975-1	1975-5	1975-7	1999-11
	SE -8	BARSEBACK-2	BWR	600	615	BKAB	ABBATOM	1973-1	1977-2	1977-3	1977-7	2005-5

TABLE 12. REACTORS SHUT DOWN, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation	Shut Down
	Code	Name		Net	Gross							
UK	GB -3A	BERKELEY 1	GCR	138	166	BNFL	TNPG	1957-1	1961-8	1962-6	1962-6	1989-3
	GB -3B	BERKELEY 2	GCR	138	166	BNFL	TNPG	1957-1	1962-3	1962-6	1962-10	1988-10
	GB -4A	BRADWELL 1	GCR	123	146	BNFL	TNPG	1957-1	1961-8	1962-7	1962-7	2002-3
	GB -4B	BRADWELL 2	GCR	123	146	BNFL	TNPG	1957-1	1962-4	1962-7	1962-11	2002-3
	GB -1A	CALDER HALL 1	GCR	50	60	BNFL	UKAEA	1953-8	1956-5	1956-8	1956-10	2003-3
	GB -1B	CALDER HALL 2	GCR	50	60	BNFL	UKAEA	1953-8	1956-12	1957-2	1957-2	2003-3
	GB -1C	CALDER HALL 3	GCR	50	60	BNFL	UKAEA	1955-8	1958-3	1958-3	1958-5	2003-3
	GB -1D	CALDER HALL 4	GCR	50	60	BNFL	UKAEA	1955-8	1958-12	1959-4	1959-4	2003-3
	GB -2A	CHAPELCROSS 1	GCR	50	60	BNFL	UKAEA	1955-10	1958-11	1959-2	1959-3	2004-6
	GB -2B	CHAPELCROSS 2	GCR	50	60	BNFL	UKAEA	1955-10	1959-5	1959-7	1959-8	2004-6
	GB -2C	CHAPELCROSS 3	GCR	50	60	BNFL	UKAEA	1955-10	1959-8	1959-11	1959-12	2004-6
	GB -2D	CHAPELCROSS 4	GCR	50	60	BNFL	UKAEA	1955-10	1959-12	1960-1	1960-3	2004-6
	GB -14	DOUNREAY DFR	FBR	14	15	UKAEA	UKAEA	1955-3	1959-11	1962-10	1962-10	1977-3
	GB -15	DOUNREAY PFR	FBR	234	250	UKAEA	TNPG	1966-1	1974-3	1975-1	1976-7	1994-3
	GB -7A	HINKLEY POINT-A1	GCR	235	267	BNFL	EE/B&W/T	1957-11	1964-5	1965-2	1965-3	2000-5
	GB -7B	HINKLEY POINT-A2	GCR	235	267	BNFL	EE/B&W/T	1957-11	1964-10	1965-3	1965-5	2000-5
	GB -6A	HUNTERSTON-A1	GCR	150	173	BNFL	GEC	1957-10	1963-8	1964-2	1964-2	1990-3
	GB -6B	HUNTERSTON-A2	GCR	150	173	BNFL	GEC	1957-10	1964-3	1964-6	1964-7	1989-12
	GB -8A	TRAWSFYNYDD 1	GCR	195	235	BNFL	APC	1959-7	1964-9	1965-1	1965-3	1991-2
	GB -8B	TRAWSFYNYDD 2	GCR	195	235	BNFL	APC	1959-7	1964-12	1965-2	1965-3	1991-2
GB -5	WINDSCALE AGR	AGR	32	41	UKAEA	VARIOUS	1958-11	1962-8	1963-2	1963-3	1981-4	
GB -12	WINFRITH SGHWR	SGHWR	92	100	UKAEA	ICL/FE	1963-5	1967-9	1967-12	1968-1	1990-9	
UKRAINE	UA -25	CHERNOBYL-1	LWGR	725	800	MTE	FAEA	1970-3	1977-8	1977-9	1978-5	1996-11

TABLE 12. REACTORS SHUT DOWN, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation	Shut Down
	Code	Name		Net	Gross							
UKRAINE	UA -26	CHERNOBYL-2	LWGR	925	1000	MTE	FAEA	1973-2	1978-11	1978-12	1979-5	1991-10
	UA -42	CHERNOBYL-3	LWGR	925	1000	MTE	FAEA	1976-3	1981-6	1981-12	1982-6	2000-12
	UA -43	CHERNOBYL-4	LWGR	925	1000	MTE	FAEA	1979-4	1983-11	1983-12	1984-3	1986-4
USA	US -155	BIG ROCK POINT	BWR	67	71	CPC	GE	1960-5	1962-9	1962-12	1963-3	1997-8
	US -4	BONUS	BWR	17	18	DOE/PRWR	GNEPRWRA	1960-1	1964-1	1964-8	—	1968-6
	US -144	CVTR	PHWR	17	19	CVPA	WH	1960-1	1963-3	1963-12	—	1967-1
	US -10	DRESDEN-1	BWR	197	207	EXELON	GE	1956-5	1959-10	1960-4	1960-7	1978-10
	US -1	ELK RIVER	BWR	22	24	RCPA	AC	1959-1	1962-11	1963-8	1964-7	1968-2
	US -16	ENRICO FERMI-1	FBR	61	65	DETED	UEC	1956-8	1963-8	1966-8	—	1972-11
	US -267	FORT ST. VRAIN	HTGR	330	342	PSCC	GA	1968-9	1974-1	1976-12	1979-7	1989-8
	US -213	HADDAM NECK	PWR	560	587	CYAPC	WH	1964-5	1967-7	1967-8	1968-1	1996-12
	US -133	HUMBOLDT BAY	BWR	63	65	PGE	GE	1960-11	1963-2	1963-4	1963-8	1976-7
	US -3	INDIAN POINT-1	PWR	257	277	ENTERGY	B&W	1956-5	1962-8	1962-9	1962-10	1974-10
	US -409	LACROSSE	BWR	48	55	DPC	AC	1963-3	1967-7	1968-4	1969-11	1987-4
	US -309	MAINE YANKEE	PWR	860	900	MYAPC	CE	1968-10	1972-10	1972-11	1972-12	1997-8
	US -245	MILLSTONE-1	BWR	641	684	DOMIN	GE	1966-5	1970-10	1970-11	1971-3	1998-7
	US -130	PATHFINDER	BWR	59	63	NUCMAN	AC	1959-1	1964-1	1966-7	—	1967-10
	US -171	PEACH BOTTOM-1	HTGR	40	42	EXELON	GA	1962-2	1966-3	1967-1	1967-6	1974-11
	US -312	RANCHO SECO-1	PWR	873	917	SMUD	B&W	1969-4	1974-9	1974-10	1975-4	1989-6
	US -206	SAN ONOFRE-1	PWR	436	456	SCE	WH	1964-5	1967-6	1967-7	1968-1	1992-11
	US -322	SHOREHAM	BWR	820	849	LILCO	GE	1972-11	—	—	—	1989-5
	US -320	THREE MILE ISLAND-2	PWR	880	959	GPU	B&W	1969-11	1978-3	1978-4	1978-12	1979-3
	US -344	TROJAN	PWR	1095	1155	PORTGE	WH	1970-2	1975-12	1975-12	1976-5	1992-11

TABLE 12. REACTORS SHUT DOWN, 31 DEC. 2005 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation	Shut Down
	Code	Name		Net	Gross							
USA	US -29	YANKEE NPS	PWR	167	180	YAEC	WH	1957-11	1960-8	1960-11	1961-7	1991-10
	US -295	ZION-1	PWR	1040	1085	EXELON	WH	1968-12	1973-6	1973-6	1973-12	1998-1
	US -304	ZION-2	PWR	1040	1085	EXELON	WH	1968-12	1973-12	1973-12	1974-9	1998-1

Status as of 31 December 2005, 110 reactors (35309 MW(e)) are permanently shut down.

TABLE 13. ANNUAL CONSTRUCTION STARTS AND CONNECTIONS TO THE GRID, 1955 TO 2005

Year	Construction Starts		Connections to the Grid		Reactors in Operation	
	Units	MW(e)	Units	MW(e)	Units	MW(e)
1955	8	352				
1956	4	553	1	50		
1957	13	1747	1	50		
1958	6	434	1	50		
1959	6	831	5	238		
1960	9	895	4	452		
1961	7	1384	1	15		
1962	7	1237	9	893		
1963	5	1600	7	370		
1964	9	2695	8	1036		
1965	9	3144	8	1679		
1966	15	7312	8	1371		
1967	26	17186	10	2090		
1968	35	25483	6	1052		
1969	15	11621	10	3583		
1970	37	26491	6	3472	81	16290
1971	15	10196	16	7744	96	24011
1972	27	20722	16	9026	111	32972
1973	26	20974	20	12600	130	45502
1974	28	25318	26	17420	152	62523
1975	33	31959	15	10340	167	72863
1976	32	29887	19	14402	184	87189
1977	17	14611	18	13095	198	99713
1978	13	12192	20	16228	217	115784
1979	25	22166	8	6945	223	121599
1980	20	19283	21	15489	243	136978
1981	15	14123	23	20474	265	157436
1982	14	15738	19	15733	283	173026
1983	9	7561	23	18928	305	191846
1984	7	7098	33	31774	335	223253
1985	13	11069	33	31355	365	254232
1986	7	5442	26	26389	390	279681
1987	8	7582	22	22198	408	301645
1988	5	5881	14	13893	417	313675
1989	6	4018	12	10645	423	322045
1990	4	2421	10	10487	419	327555
1991	2	2291	4	3668	417	329413
1992	3	3092	6	4809	420	332176
1993	4	3535	9	9000	429	341176
1994	2	1300	5	4191	431	343973
1995			5	3536	435	346710
1996	1	610	6	7033	439	352468
1997	5	4386	3	3645	435	352840
1998	3	2096	4	2975	434	351712
1999	4	4560	4	2752	436	353812
2000	6	5332	6	3106	439	355548
2001	1	1304	3	2696	442	358244
2002	5	2440	6	4866	444	362233
2003	1	202	2	1610	440	362870
2004	2	1336	5	4785	440	366270
2005	3	2900	4	3821	443	369552

TABLE 14. AVERAGE CONSTRUCTION TIME SPAN

Country	Operating and Shut Down Reactors (Year of Grid Connection)/Average Construction Time															
	1971 to 1975		1976 to 1980		1981 to 1985		1986 to 1990		1991 to 1995		1996 to 2000		2001 to 2005		2005	
	No.	Months	No.	Months	No.	Months	No.	Months	No.	Months	No.	Months	No.	Months	No.	Months
ARGENTINA	1	70			1	19										
ARMENIA			2	52												
BELGIUM	3	56			4	82										
BRAZIL					1	132					1	295				
BULGARIA	2	59	1	87	1	104	1	89	1	113						
CANADA	5	58	4	70	7	93	5	99	2	97						
CHINA									3	75			6	64		
CZECH R.					1	74	3	93			1	167	1	191		
FINLAND			4	70												
FRANCE	3	69	13	65	24	68	15	87	3	96	4	126				
GERMANY	6	56	9	70	7	108	6	104								
HUNGARY					2	112	2	90								
INDIA	1	88	1	152	2	154	1	152	3	129	4	125			1	64
ITALY			1	101												
JAPAN	8	46	11	58	10	48	8	50	10	58	3	45	4	47	2	50
KAZAKHS.	1	106														
KOREA RP			1	59	4	65	4	63	2	61	5	56	4	54	1	53
LITHNIA							1	116								
MEXICO							1	151	1	210						

Note: Construction time is measured from the first pouring of concrete to the connection of the unit to the grid.

TABLE 14. AVERAGE CONSTRUCTION TIME SPAN — continued

Country	Operating and Shut Down Reactors (Year of Grid Connection)/Average Construction Time															
	1971 to 1975		1976 to 1980		1981 to 1985		1986 to 1990		1991 to 1995		1996 to 2000		2001 to 2005		2005	
	No.	Months	No.	Months	No.	Months	No.	Months	No.	Months	No.	Months	No.	Months	No.	Months
NETHLND	1	49														
PAKISTAN	1	63														
ROMANIA																
RUSSIA	9	52	6	83	9	76	4	69	1	109	1	169	2	233		
S.AFRICA					2	101										
SLOVAKIA	1	173	2	89	2	99					2	187				
SLOVENIA					1	80										
SPAIN	2	54			5	114	2	96								
SWEDEN	5	58	3	78	4	78										
SWITZRLD	2	50	1	63	1	125										
UK	3	98	4	106	6	191	4	98	1	80						
UKRAINE			3	84	7	67	6	62	1	113			2	227		
USA	39	67	18	96	25	129	21	155	1	223	1	279				
TOTAL	93	64	86	77	131	95	84	101	29	91	23	121	20	98	4	54

Note: Construction time is measured from the first pouring of concrete to the connection of the unit to the grid.

The totals include the following data in Taiwan, China:

— 1976 to 1980: 2 units, 64 months;

— 1981 to 1985: 4 units, 72 months.

TABLE 15. CUMULATIVE PERFORMANCE FACTORS BY REACTOR CATEGORY UP TO 2004

Reactor Category	Reactors in the World			Reactors reporting to IAEA PRIS (see note)				
	Number of Units	Net Capacity MW(e)	Years of Commercial Experience	Number of Units	Net Capacity MW(e)	Cumulative Load Factor %	Cumulative Availability Factor %	Years of Commercial Operation
PHWR 100-599 MWe	20	5804	367.5	20	5804	65.4	67.0	354.1
PHWR >= 600MWe	20	14639	294.7	20	14639	80.7	80.9	283.2
AGR	14	8380	272.9	14	8380	69.1	70.8	270.8
GCR 100-599 MWe	8	2284	294.5	8	2284	71.9	75.2	116.0
PWR 100-599 MWe	24	10937	687.1	24	10937	78.7	79.4	685.1
PWR >= 600 MWe	192	195546	3719.7	192	195546	76.1	78.9	3703.4
WWER 100-599 MWe	27	11199	583.9	27	11199	77.0	78.2	571.2
WWER >=600 MWe	23	21856	339.2	23	21856	65.4	66.9	339.2
BWR 100-599 MWe	14	5942	424.2	14	5942	69.9	71.8	423.2
BWR >= 600 MWe	78	76114	1743.4	78	76114	72.8	75.1	1702.1
FBR	2	793	53.1	2	793	64.3	66.5	39.1
LWGR<600 MWe	4	44	117.3	4	44	63.3	70.2	117.3
LWGR >= 600 MWe	12	11360	271.0	12	11360	68.0	68.6	271.0
TOTAL	438	364173	9168.5	438	364173	74.3	76.6	8875.7

Note: 2004 is the latest year for which operating experience data are currently available to the IAEA. Reactors permanently shut down during or before 2004 are not considered.

TABLE 16. AVERAGE FULL OUTAGE STATISTICS DURING 2004

Reactor Type	Number of Units		Full Outage Hours per Operating Experience Year	% Planned Outages	% Unplanned Outages
	In the World	Reporting Outage to IAEA PRIS			
PHWR 100-599 MWe	20	19	2051	64.5	35.5
PHWR >= 600MWe	20	20	1100	66.5	33.5
AGR	14	11	2500	35.3	64.7
GCR 100-599 MWe	8	8	2146	77.1	22.9
PWR 100-599 MWe	24	23	1241	78.7	21.3
PWR >= 600 MWe	192	183	1165	73.8	26.2
WWER 100-599 MWe	27	27	1398	77.8	22.2
WWER >= 600 MWe	21	21	1629	86.1	13.9
BWR 100-599 MWe	14	13	2121	34.5	65.5
BWR >= 600 MWe	78	73	1719	65.4	34.6
FBR	2	1	1599	99.4	0.6
LWGR < 600 MWe	4	4	1838	96.2	3.8
LWGR >= 600 MWe	12	12	2536	98.5	1.5
ALL REACTORS	436	415			

Note: 2004 is the latest year for which outage information is currently available to the IAEA.
Reactors shut down during 2004 are not considered.

TABLE 17. CAUSES OF FULL OUTAGES DURING 2004

Outage Cause	Planned Full Outages				Unplanned Full Outages			
	Energy Loss		Time Loss		Energy Loss		Time Loss	
	GW(e).h	%	Hours	%	GW(e).h	%	Hours	%
Plant equipment failure					84376	65.0	107695	67.1
Refuelling without a maintenance	3566	1.1	3861	1.0				
Inspection, maintenance or repair combined with refuelling	265590	81.7	299950	77.7				
Inspection, maintenance or repair without refuelling	29786	9.2	47392	12.3				
Testing of plant systems or components	3392	1.0	6773	1.8	420	0.3	533	0.3
Major back-fitting, refurbishment or upgrading activities with refuelling	13047	4.0	17343	4.5				
Nuclear regulatory requirements	9659	3.0	10708	2.8	686	0.5	2773	1.7
Grid failure or grid unavailability					956	0.7	1536	1.0
Load-following (frequency control, reserve shutdown due to reduced energy demand)					2639	2.0	2941	1.8
Human factor related					4143	3.2	4689	2.9
Governmental requirements or court decisions					6	0.0	4	0.0
Environmental conditions (flood, storm, lightning, lack of cooling water, cooling water temperature limits etc.)					1900	1.5	1929	1.2
Fire					102	0.1	144	0.1

TABLE 17. CAUSES OF FULL OUTAGES DURING 2004 — continued

Outage Cause	Planned Full Outages				Unplanned Full Outages			
	Energy Loss		Time Loss		Energy Loss		Time Loss	
	GW(e).h	%	Hours	%	GW(e).h	%	Hours	%
Fuel management limitation (including high flux tilt, stretch out or coast-down operation)					228	0.2	260	0.2
Fuel management limitation (including high flux tilt, stretch out or coast-down operation)					240	0.2	402	0.3
Other	24		20		34015	26.0	3706	23.4
TOTAL	325064	100.0	386047	100.0	129711	100.0	160512	100.0

Note: 2004 is the latest year for which outage information is currently available to the IAEA.
Only reactors which have achieved full commercial operation in or before 2004 are considered.

TABLE 18. CAUSES OF FULL OUTAGES, 1971 TO 2004

Outage Cause	Planned Full Outages				Unplanned Full Outages			
	Energy Loss		Time Loss		Energy Loss		Time Loss	
	GW(e).h	%	Hours	%	GW(e).h	%	Hours	%
Plant equipment failure	14703	0.1	21131	0.2	2981537	70.9	4022968	73.4
Refuelling without a maintenance	11306	0.1	15074	0.1	85088	2.0	114313	2.1
Inspection, maintenance or repair combined with refuelling	7946548	80.1	9844155	75.3	67308	1.6	83102	1.5
Inspection, maintenance or repair without refuelling	1579775	15.9	2666055	20.4	20133	0.5	22151	0.4
Testing of plant systems or components	74982	0.8	96252	0.7	28098	0.7	41538	0.8
Major back-fitting, refurbishment or upgrading activities with refuelling	40961	0.4	58124	0.4	396	0.0	567	0.0
Nuclear regulatory requirements	82080	0.8	169846	1.3	294406	7.0	348930	6.4
Grid failure or grid unavailability	26	0.0	41	0.0	39072	0.9	81255	1.5
Load-following (frequency control, reserve shutdown due to reduced energy demand)	171974	1.7	189695	1.5	601769	14.3	667207	12.2
Human factor related	181	0.0	176	0.0	16816	0.4	20575	0.4
Governmental requirements or court decisions					214	0.0	279	0.0
Environmental conditions (flood, storm, lightning, lack of cooling water, cooling water temperature limits etc.)					6767	0.2	6711	0.1
Fire					1583	0.0	1846	0.0

TABLE 18. CAUSES OF FULL OUTAGES, 1971 TO 2004 — continued

Outage Cause	Planned Full Outages				Unplanned Full Outages			
	Energy Loss		Time Loss		Energy Loss		Time Loss	
	GW(e).h	%	Hours	%	GW(e).h	%	Hours	%
Fuel management limitation (including high flux tilt, stretch out or coast-down operation)					703	0.0	991	0.0
Fuel management limitation (including high flux tilt, stretch out or coast-down operation)	545	0.0	598	0.0	376	0.0	509	0.0
Others	155	0.0	161	0.0	59844	1.4	68348	1.2
TOTAL	9923236	100.0	13061308	100.0	4204110	100.0	5481290	100.0

Note: 2004 is the latest year for which outage information is currently available to the IAEA.
Only reactors which have achieved full commercial operation in or before 2004 are considered.

TABLE 19. COUNTRIES - Abbreviations and Summary

Country Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
AM	ARMENIA	1		1		
AR	ARGENTINA	2	1			
AT	AUSTRIA					1
BE	BELGIUM	7		1		
BG	BULGARIA	4	2	2		
BR	BRAZIL	2				
CA	CANADA	18		7		
CH	SWITZERLAND	5				
CN	CHINA	9	3			
CU	CUBA				2	
CZ	CZECH REPUBLIC	6			2	
DE	GERMANY	17		19		6
ES	SPAIN	9		1		5
FI	FINLAND	4	1			
FR	FRANCE	59		11		
GB	UNITED KINGDOM	23		22		
HU	HUNGARY	4				
IN	INDIA	15	8			
IR	IRAN, ISLAMIC REPUBLIC OF		1			
IT	ITALY			4	3	
JP	JAPAN	56	1	3		
KP	DEM. P.R. KOREA				1	

Only reactors for which construction had commenced are counted for cancellations and suspensions.

TABLE 19. COUNTRIES - Abbreviations and Summary — continued

Country Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
KR	KOREA, REPUBLIC OF	20				
KZ	KAZAKHSTAN			1		
LT	LITHUANIA, REPUBLIC OF	1		1		1
MX	MEXICO	2				
NL	NETHERLANDS	1		1		
PH	PHILIPPINES				1	
PK	PAKISTAN	2	1			
PL	POLAND				1	1
RO	ROMANIA	1	1			3
RU	RUSSIAN FEDERATION	31	4	5	5	8
SE	SWEDEN	10		3		
SI	SLOVENIA	1				
SK	SLOVAK REPUBLIC	6		1	2	
UA	UKRAINE	15	2	4	1	3
US	UNITED STATES OF AMERICA	104		23	4	37
ZA	SOUTH AFRICA	2				
TOTAL		443	27	110	25	62

Only reactors for which construction had commenced are counted for cancellations and suspensions.

Note: The total includes the following data in Taiwan, China:

— 6 units in operation; 2 units in operation.

TABLE 20. REACTOR TYPES - Abbreviations and Summary

Type Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
ABWR	Advanced Boiling Light-Water-Cooled and Moderated Reactor	4	2			
AGR	Advanced Gas-Cooled, Graphite-Moderated Reactor	14		1		
BWR	Boiling Light-Water-Cooled and Moderated Reactor	90		20	2	18
FBR	Fast Breeder Reactor	3	1	6	2	1
GCR	Gas-Cooled, Graphite-Moderated Reactor	8		29		
HTGR	High-Temperature Gas-Cooled, Graphite-Moderated Reactor			4		
HWGCR	Heavy-Water-Moderated, Gas-Cooled Reactor			3		
HWLWR	Heavy-Water-Moderated, Boiling Light-Water-Cooled Reactor			2	1	
LWGR	Light-Water-Cooled, Graphite-Moderated Reactor	16	1	8		5
PHWR	Pressurized Heavy-Water-Moderated and Cooled Reactor	41	7	9	3	
PWR	Pressurized Light-Water-Moderated and Cooled Reactor	214	4	17	6	27
PWR-WWER	Water Cooled Water Moderated Power Reactor	53	12	10	11	11
SGHWR	Steam-Generating Heavy-Water Reactor			1		
TOTAL		443	27	110	25	62

Only reactors for which construction had commenced are counted for cancellations and suspensions.

TABLE 21. OPERATORS - Abbreviations and Summary

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
AEOI	ATOMIC ENERGY ORGANIZATION OF IRAN		1			
AMEREN	AMEREN	1				
ANAV	ASOCIACION NUCLEAR ASCO-VANDELLOS A.I.E. (ENDESA/ID)	3				
ANPP	ARIZONA NUCLEAR POWER PROJECT	3				
AVR	ARBEITSGEMEINSCHAFT VERSUCHSREAKTOR GMBH			1		
BE	BRITISH ENERGY	15				
BHAVINI	BHARATIYA NABHIKIYA VIDYUT NIGAM LIMITED		1			
BKAB	BARSEBECK KRAFT AB			2		
BKW	BKW ENERGIE AG	1				
BNFL	BRITISH NUCLEAR FUELS PLC	8		18		
BRUCEPOW	BRUCE POWER	6		2		
CEA/EDF	COMMISSARIAT A L'ENERGIE ATOMIQUE / ELECTRICITE DE FRANCE	1				
CEI	CLEVELAND ELECTRIC ILLUMINATING CO.					1
CEN/SCK	CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE / STUDIECENTRUM VOOR KERNENERGIE			1		
CEZ	CZECH POWER COMPANY , CEZ A.S.	6			2	
CFE	COMISION FEDERAL DE ELECTRICIDAD	2				
CG&E	CINCINNATI GAS & ELECTRIC CO.					1
CHUBU	CHUBU ELECTRIC POWER CO.,INC.	5				
CHUGOKU	CHUGOKU ELECTRIC POWER CO.	2				
CNAT	CENTRALES NUCLEARES ALMARAZ-TRILLO(ID/UFG/ENDESA/HC/NUCLENOR)	3				
COGEMA	COMPAGNIE GENERALE DES MATIERES NUCLEAIRES			2		
CONST	CONSTELLATION NUCLEAR GROUP	5				

Only reactors for which construction had commenced are counted for cancellations and suspensions.

TABLE 21. OPERATORS - Abbreviations and Summary — continued

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
CPC	CONSUMERS POWER CO.			1		2
CPL	CAROLINA POWER & LIGHT CO.					3
CVPA	CAROLINAS-VIRGINIA NUCLEAR POWER ASSOC.			1		
CYAPC	CONNECTICUT YANKEE ATOMIC POWER CO.			1		
DETED	DETROIT EDISON CO.	1		1		
DOE/PRWR	DOE & PUERTO RICO WATER RESOURCES			1		
DOMIN	DOMINION VIRGINIA POWER	6		1		
DPC	DAIRYLAND POWER COOPERATIVE			1		
DPRK	DPRK - TONGHAE NPP				1	
DUKE	DUKE POWER CO.	7				3
EBO	ELECTROSTATION BOHUNICE	4		1		
EDF	ELECTRICITE DE FRANCE	58		7		
EJZ	NUCLEAR POWER PLANT ZARNOWIEC				1	1
ELECTRAB	ELECTRABEL M. V. NUCLEAIRE PRODUKTIE	7				
ELETRONU	ELETRONUCLEAR SA - ELETRONUCLEAR	2				
EMO	ELECTROSTATION MOCHOVCE	2			2	
EnBW	ENBW KRAFTWERK AG	4		1		
ENEL	ENEL - SOCIETA PER AZIONI				2	
ENELENEA	ENEL SOCIETA PER AZIONI/ENTE PER LE NUOVE TECNOLOGIE, L'ENERGIA E L'AMBIENTE				1	
ENERGYNW	ENERGY NORTHWEST	1				
ENTERGY	ENTERGY NUCLEAR	10		1		
EON	EON KERNKRAFT GES.M.B.H	7		1		
EPZ	N.V. ELEKTRICITEITS-PRODUKTIEMAATSCHAPPIJ ZUID-NEDERLAND	1				

Only reactors for which construction had commenced are counted for cancellations and suspensions.

TABLE 21. OPERATORS - Abbreviations and Summary — continued

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
ESKOM	ESKOM	2				
EWN	ENERGIEWERKE NORD GMBH			6		5
EXELON	EXELON NUCLEAR CO.	17		4		
FENOC	FIRST ENERGY NUCLEAR OPERATING CO.	4				
FKA	FORSMARK KRAFTGRUPP AB	3				
FORTUMPH	FORTUM POWER AND HEAT OY (FORMER IVO)	2				
FPL	FLORIDA POWER & LIGHT CO.	5				1
GKN(NL)	GEMEENSCHAPPELIJKE KERNENERGIECENTRALE NEDERLAND (GKN)			1		
GKT	GEMEINSCHAFTSKERNKRAFTWERK TULLNERFELD					1
GNPJVC	GUANDONG NUCLEAR POWER JOINT VENTURE COMPANY LIMITED(GNPJVC)	2				
GPU	GENERAL PUBLIC UTILITIES			1		
GSU	GULF STATES UTILITIES CO.					1
HDR	HEISSDAMPFREAKTOR-BETRIEBSGESELLSCHAFT MBH.			1		
HEPCO	HOKKAIDO ELECTRIC POWER CO.,INC.	2	1			
HEW	HAMBURGISCHE ELEKTRIZITAETSWERKE	2				
HIFRENSA	HISPANO-FRANCESA DE ENERGIA NUCLEAR, S.A.			1		
HKG	HOCHTEMPERATUR-KERNKRAFTWERK GMBH			1		
HOKURIKU	HOKURIKU ELECTRIC POWER CO.	2				
HQ	HYDRO QUEBEC	1		1		
ID	IBERDROLA, S.A.	1				3
ID/CSE	IBERDROLA, S.A./COMPANIA SEVILLANA DE ELECTRICIDAD, S.A.					2
IMPCCO	INDIANA MICHIGAN POWER CO.	2				
INPP	IGNALINA NUCLEAR POWER PLANT	1		1		1

Only reactors for which construction had commenced are counted for cancellations and suspensions.

TABLE 21. OPERATORS - Abbreviations and Summary — continued

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
IPC	ILLINOIS POWER CO.					1
JAEA	JAPAN ATOMIC ENERGY AGENCY	1		1		
JAERI	JAPAN ATOMIC ENERGY RESEARCH INSTITUTE			1		
JAPC	JAPAN ATOMIC POWER CO.	3		1		
JCPL	JERSEY CENTRAL POWER & LIGHT CO.					1
JNPC	JIANGSU NUCLEAR POWER CORPORATION		2			
JSC	JOINT STOCK COMPANY ARMENIAN NPP	1		1		
KATEII	NATIONAL CORPORATION FOR ATOMIC ENERGY AND INDUSTRY			1		
KBG	KERNKRAFTWERK-BETRIEBSGESELLSCHAFT MBH			2		
KEPCO	KANSAI ELECTRIC POWER CO.	11				
KGB	KERNKRAFTWERKE GUNDREMMINGEN BETRIEBSGESELLSCHAFT MBH			1		
KHNP	KOREA HYDRO AND NUCLEAR POWER CO.	20				
KKG	KERNKRAFTWERK GOESGEN-DAENIKEN AG	1				
KKL	KERNKRAFTWERK LEIBSTADT	1				
KKN	KERNKRAFTWERK NIEDERAICHBACH GMBH			1		
KOZNPP	KOZLODUY NPP-PLC	4	2	2		
KWL	KERNKRAFTWERK LINGEN GMBH				1	
KYUSHU	KYUSHU ELECTRIC POWER CO.,INC.	6				
LANPC	LINGAO NUCLEAR POWER COMPANY LTD.	2				
LDNPC	LINGDONG NUCLEAR POWER COMPANY LTD.		1			
LILCO	LONG ISLAND LIGHTING CO.			1		
MINBAS	MINISTERIO DE LA INDUSTRIA BASICA				2	
MINENERG	MINENERGO SSSR - THE USSR MINISTRY OF POWER AND ELECTRIFICATION				1	3

Only reactors for which construction had commenced are counted for cancellations and suspensions.

TABLE 21. OPERATORS - Abbreviations and Summary — continued

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
MP&L	MISSISSIPPI POWER & LIGHT CO.					1
MTE	MINTOPENERGO OF UKRAINE - MINISTRY OF FUEL AND ENERGY OF UKRAINE			4		
MYAPC	MAINE YANKEE ATOMIC POWER CO.			1		
NASA	NUCLEOELECTRICA ARGENTINA S.A.	2	1			
NBEPCC	NEW BRUNSWICK ELECTRIC POWER COMMISSION	1				
NEK	NUKLEARNA ELEKTRARNA KRŠKO	1				
NERSA	CENTRALE NUCLEAIRE EUROPEENE A NEUTRONS RAPIDES S.A.			1		
NIPS	NORTH INDIANA PUBLIC SERVICES CO.					1
NNEGC	NATIONAL NUCLEAR ENERGY GENERATING COMPANY <ENERGOATOM>	15	2			
NOK	NORDOSTSCHWEIZERISCHE KRAFTWERKE	2				
NPCIL	NUCLEAR POWER CORPORATION OF INDIA LTD.	15	7			
NPPD	NEBRASKA PUBLIC POWER DISTRICT	1				
NPQJVC	NUCLEAR POWER PLANT QINSHAN JOINT VENTURE COMPANY LTD.	2				
NUCLENOR	NUCLENOR, S.A.	1				
NUCMAN	NUCLEAR MANAGEMENT CO.	8			1	
OH	ONTARIO HYDRO				1	
OKG	OKG AKTIEBOLAG	3				
OPG	ONTARIO POWER GENERATION	10			3	
OPPD	OMAHA PUBLIC POWER DISTRICT	1				
PAEC	PAKISTAN ATOMIC ENERGY COMMISSION	2	1			
PAKS RT.	PAKS NUCLEAR POWER PLANT LTD	4				
PE	PREUSSENELEKTRA KERNKRAFT GMBH&CO KG				1	
PGE	PACIFIC GAS & ELECTRIC CO.	2			1	

Only reactors for which construction had commenced are counted for cancellations and suspensions.

TABLE 21. OPERATORS - Abbreviations and Summary — continued

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
PORTGE	PORTLAND GENERAL ELECTRIC CO.			1		
PP&L	PENNSYLVANIA POWER & LIGHT CO.	2				
PROGRESS	PROGRESS ENERGY CORPORATION	5				
PSCC	PUBLIC SERVICE CO. OF COLORADO			1		
PSCO	PUBLIC SERVICES CO. OF OKLAHOMA					2
PSEG	PUBLIC SERVICE ELECTRIC & GAS CO.					1
PSI	PUBLIC SERVICE OF INDIANA	3				2
QNPC	QINSHAN NUCLEAR POWER COMPANY	1				
RAB	RINGHALS AB	4				
RCPA	RURAL COOPERATIVE POWER ASSOC.			1		
REA	ROSENERGOATOM, CONSORTIUM	31	4	5	5	8
RPNPC	PHILIPPINE NATIONAL POWER CORPORATION				1	
RWE	RWE ENERGIE AG	4		1		
SBK	SCHNELL-BRUETER-KERNKRAFTWERKSGESELLSCHAFT MBH					1
SCE	SOUTHERN CALIFORNIA EDISON	2		1		
SCEG	SOUTH CAROLINA ELECTRIC & GAS CO.	1				
SENA	SOCIETE D'ENERGIE NUCLEAIRE FRANCO-BELGE DES ARDENNES			1		
SHIKOKU	SHIKOKU ELECTRIC POWER CO.,INC	3				
SMUD	SACRAMENTO MUNICIPAL UTILITY DISTRICT			1		
SNN	SOCIETATEA NATIONALA NUCLEARELECTRICA S.A.	1	1			3
SOGIN	SOCIETA GESTIONE IMPANTI NUCLEARI			4		
SOUTH	SOUTHERN NUCLEAR OPERATING CO.	6				
STP	STP NUCLEAR OPERATING CO.	2				

Only reactors for which construction had commenced are counted for cancellations and suspensions.

TABLE 21. OPERATORS - Abbreviations and Summary — continued

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
TEPCO	TOKYO ELECTRIC POWER CO.,INC.	17				
TOHOKU	TOHOKU ELECTRIC POWER CO.,INC	4				
TPC	TAI POWER CO.	6	2			
TQNPC	THE THIRD QINSHAN JOINTED VENTURE COMPANY LTDA.	2				
TVA	TENNESSEE VALLEY AUTHORITY	6			3	8
TVO	TEOLLISUUDEN VOIMA OY	2	1			
TXU	TXU ELECTRIC CO.	2				
UFG	UNION FENOSA GENERATION S.A.	1				
UKAEA	UNITED KINGDOM ATOMIC ENERGY AUTHORITY			4		
UNION	UNION ELECTRIC CO.					1
VAB	VATTENFALL AB (FORMER SSPB)			1		
VAK	VERSUCHSATOMKRAFTWERK KAHL GMBH			1		
VEPCO	VIRGINIA ELECTRIC POWER CO.					4
WOLF	WOLF CREEK NUCLEAR OPERATION CORP.	1				
WPPSS	WASHINGTON PUBLIC POWER SUPPLY SYSTEM				1	3
YAEC	YANKEE ATOMIC ELECTRIC CO.			1		
TOTAL		443	27	110	25	62

Only reactors for which construction had commenced are counted for cancellations and suspensions.

TABLE 22. NSSS SUPPLIERS - Abbreviations and Summary

NSSS Supplier Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
A/F/W	ASSOCIATION ACEC,FRAMATOME ET WESTINGHOUSE.			1		
AA	ALSTHOM ATLANTIQUE	1				
ABBATOM	ABBATOM (FORMERLY ASEA-ATOM)	5		2		
AC	ALLIS CHALMERS			3		
ACECOWEN	ACECOWEN (ACEC-COCKERILL-WESTINGHOUSE)	4				
ACLF	(ACECOWEN - CREUSOT LOIRE - FRAMATOME)	1				
AECL	ATOMIC ENERGY OF CANADA LTD.	7	1	2		
AECL/DAE	ATOMIC ENERGY OF CANADA LTDA AND DEPARTMENT OF ATOMIC ENERGY(INDIA)	1				
AECL/DHI	ATOMIC ENERGY OF CANADA LTD./DOOSAN HEAVY INDUSTRY & CONSTRUCTION	3				
AEE	ATOMENERGOEXPORT	12	2	2	2	
AEE&ZAES	FOREIGN ECONOMIC PUBLIC LIMITED CO. ATOMENERGOEXPORT, RUSSIA&RUSSIA PRODUCTION		1			
	ASSOCIATION ZARUBEZHATOMENERGOSTROY					
AEE,KAB	ATOMENERGOEXPORT, KRAFTWERKSANLAGENBAU AG			6		5
AEG	ALLGEMEINE ELEKTRICITAETS-GESELLSCHAFT			1		
AEG,GE	ALLGEMEINE ELECTRICITAETS-GESELLSCHAFT, GENERAL ELECTRIC COMPANY (US)			1		
AEG,KWU	ALLGEMEINE ELEKTRICITAETS GESELLSCHAFT, KRAFTWERK UNION AG			2		
AMN/GETS	ANSALDO MECCANICO NUCLEARE SPA / GENERAL ELECTRIC TECHNICAL SERVICES CO			1	2	
ANSALDO	ANSALDO SPA				1	
APC	ATOMIC POWER CONSTRUCTION LTD.	2		2		
ASE	ATOMSTROYEXPORT		1			
ASEA			1			
ASEASTAL	ASEA-ATOM / STAL-LAVAL	4		1		

Only reactors for which construction had commenced are counted for cancellations and suspensions.

TABLE 22. NSSS SUPPLIERS - Abbreviations and Summary — continued

NSSS Supplier Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
ASPALDO	ASPALDO			1		
B&W	BABCOCK & WILCOX CO.	7		3		5
BBC	BROWN BOVERI ET CIE	1				
BBK	BROWN BOVERI-KRUPP REAKTORBAU GMBH			1		
BBR	BROWN BOVERI REAKTOR GMBH			1		
CE	COMBUSTION ENGINEERING CO.	14		1		8
CEA	COMMISSARIAT A L'ENERGIE ATOMIQUE			1		
CGE	CANADIAN GENERAL ELECTRIC	1		1		
CNCLNEY	CNIM-CONSTRUCTIONS NAVALES ET INDUSTRIELLES DE MEDITERRANEE CL - CREUSOT LOIRE , NEY - NEYRPIC	1				
CNNC	CHINA NATIONAL NUCLEAR CORPORATION	4	1			
DFEC	DONGFANG ELECTRIC CORPORATION		1			
DHICKAEC	DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO.LTD./KOREA ATOMICENERGY RESEARCH INSTITUTE/COMBUSTIONENGINEERING	2				
DHICKOPC	DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO.LTD./KOREA POWER ENGINEERING COMPANY/COMBUSTIONENGINEERING	6				
DOOSAN						1
EE/B&W/T	THE ENGLISH ELECTRIC CO. LTD / BABCOCK & WILCOX CO. / TAYLOR WOODROW CONSTRUCTION LTD.	4		2		
FAEA	FEDERAL ATOMIC ENERGY AGENCY	32	2	9		
FECNE	FABRICA ECHIPAMENTE CENTRALE NUCLEAROELECTRICE BUCURESTI					3
FRAM	FRAMATOME	63				
Fram ANP	FRAMATOME ANP		1			
FRAMACEC	FRAMACECO (FRAMATOME-ACEC-COCKERILL)	2				

Only reactors for which construction had commenced are counted for cancellations and suspensions.

TABLE 22. NSSS SUPPLIERS - Abbreviations and Summary — continued

NSSS Supplier Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
GA	GENERAL ATOMIC CORP.			2		
GAAA	GROUPEMENT ATOMIQUE ALSACIENNE ATLANTIQUE			1		
GE	GENERAL ELECTRIC CO.	47	2	7		17
GE.AEG	GENERAL ELECTRIC COMPANY (US), ALLGEMEINE ELEKTRICITAETS- GESELLSCHAFT			1		
GE/GETSC	GENERAL ELECTRIC CO. / GENERAL ELECTRIC TECHNICAL SERVICES CO.	1				
GE/T	GENERAL ELECTRIC CO. / TOSHIBA CORPORATION	2				
GEC	GENERAL ELECTRIC COMPANY (UK)	2		3		
GETSCO	GENERAL ELECTRIC TECHNICAL SERVICES CO.	2				
GNEPRWRA	GENERAL NUCLEAR ENGINEERING & PUERTO RICO WATER RESOURCES AUTHORITY (US)			1		
GTM	GRANDS TRAVAUX DE MARSEILLE			1		
HITACHI	HITACHI LTD.	10		1		
HRB	HOCHTEMPERATUR-REAKTORBAU GMBH			1		
IA	INTERATOM INTERNATIONALE ATOMREAKTORBAU GMBH			1		
ICL/FE	INTERNATIONAL COMBUSTION LTD. / FAIREY ENGINEERING LTD.			1		
INB	INTERNATIONALE NARIUM-BRUTREAKTOR-BAU GMBH					1
KWU	SIEMENS KRAFTWERK UNION AG	18		1		1
KWU/STOR	KRAFTWERK UNION AG / STORK	1				
LEVIVIER	LEVIVIER			2		
MAEP	MINATOMENERGOPROM, MINISTRY OF NUCLEAR POWER AND INDUSTRY	1	2	1		1
MEGADEX	ELECTRICAL ENGINEERING COMPANY FOR POWER GENERATION, DISTRIBUTION AND TRANSMISSION				1	1
MHI	MITSUBISHI HEAVY INDUSTRIES LTD.	18	1			
MPP	MANGISHLAK POWER PLANT			1		
NEI.P	NEI PARSONS	2				

Only reactors for which construction had commenced are counted for cancellations and suspensions.

TABLE 22. NSSS SUPPLIERS - Abbreviations and Summary — continued

NSSS Supplier Code	Full Name	Number of Reactors, as of 31 Dec. 2005				
		Operational	Construction	Shut Down	Suspended	Cancelled
NNC	NATIONAL NUCLEAR CORPORATION	2				
NPC	NUCLEAR POWER CO. LTD.	6				
NPCIL	NUCLEAR POWER CORPORATION OF INDIA LTD.	11	5			
OH/AECL	ONTARIO HYDRO / ATOMIC ENERGY OF CANADA LTD.	14		4		
PAA	PRODUCTION AMALGAMATION 'ATOMMASH', VOLGODONSK	4				
PAIP	PRODUCTION AMALGAMATION IZHORSKY PLANT ATOMMASH,VOLGODONSK,RUSSIA	11				
PPC	PWR POWER PROJECTS	1				
SACM	SOCIETE ALSACIENNE DE CONSTRUCTIONS MECANIQUES			2		
SIEM,KWU	SIEMENS AG, KRAFTWERK UNION AG	2		2		
SIEMENS	SIEMENS AG	1	1	1		
SKODA	SKODA CONCERN NUCLEAR POWER PLANT WORKS	10		1		4
STORK/H	STORK - HOLEC			1		
T/H/F/M	TOSHIBA / HITACHI / FUJI ELECTRIC HOLDINGS / MITSUBISHI HEAVY INDUSTRIES	1				
TNPG	THE NUCLEAR POWER GROUP LTD.	8		6		
TOSHIBA	TOSHIBA CORPORATION	17				
UEC	UNITED ENGINEERS AND CONTRACTORS			1		
UKAEA	UNITED KINGDOM ATOMIC ENERGY AUTHORITY			9		
VARIOUS	VARIOUS			4		
WH	WESTINGHOUSE ELECTRIC CORPORATION	73		9		
WH/MHI	WESTINGHOUSE ELECTRIC CORPORATION / MITSUBISHI HEAVY INDUSTRIES LTD.	1				
OTHER			5	1	8	23
TOTAL		443	27	110	25	62

Only reactors for which construction had commenced are counted for cancellations and suspensions.

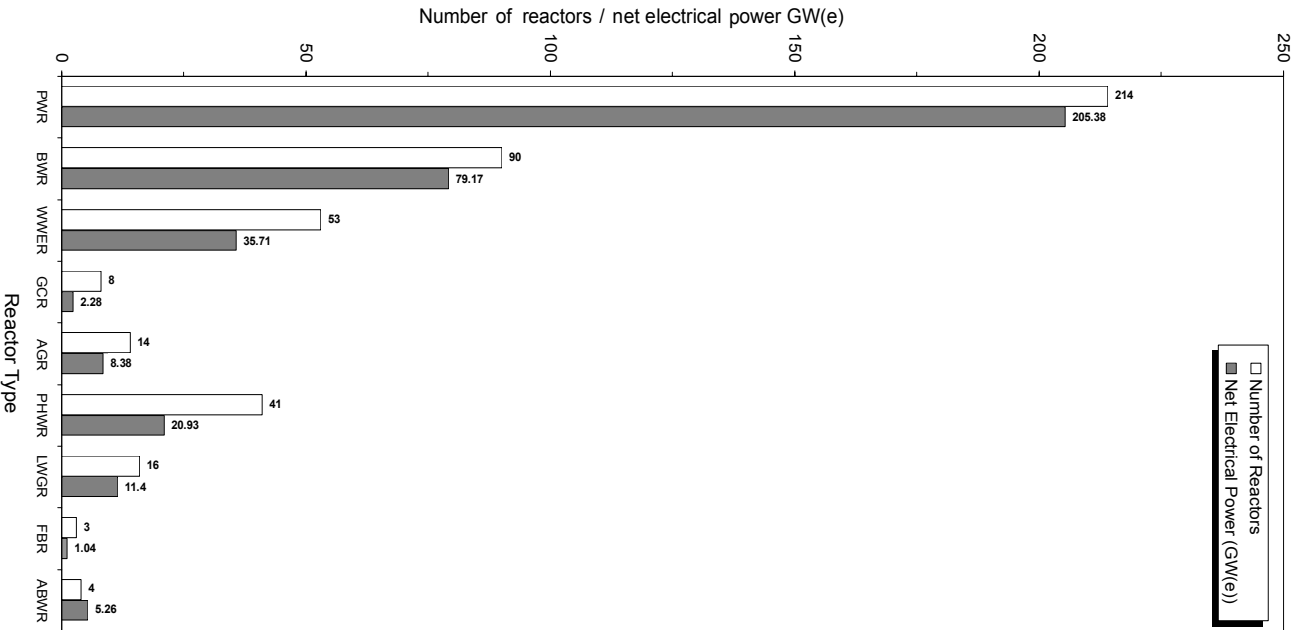


Figure 1. Nuclear reactors by type and net electrical power (as of 31 Dec. 2005)

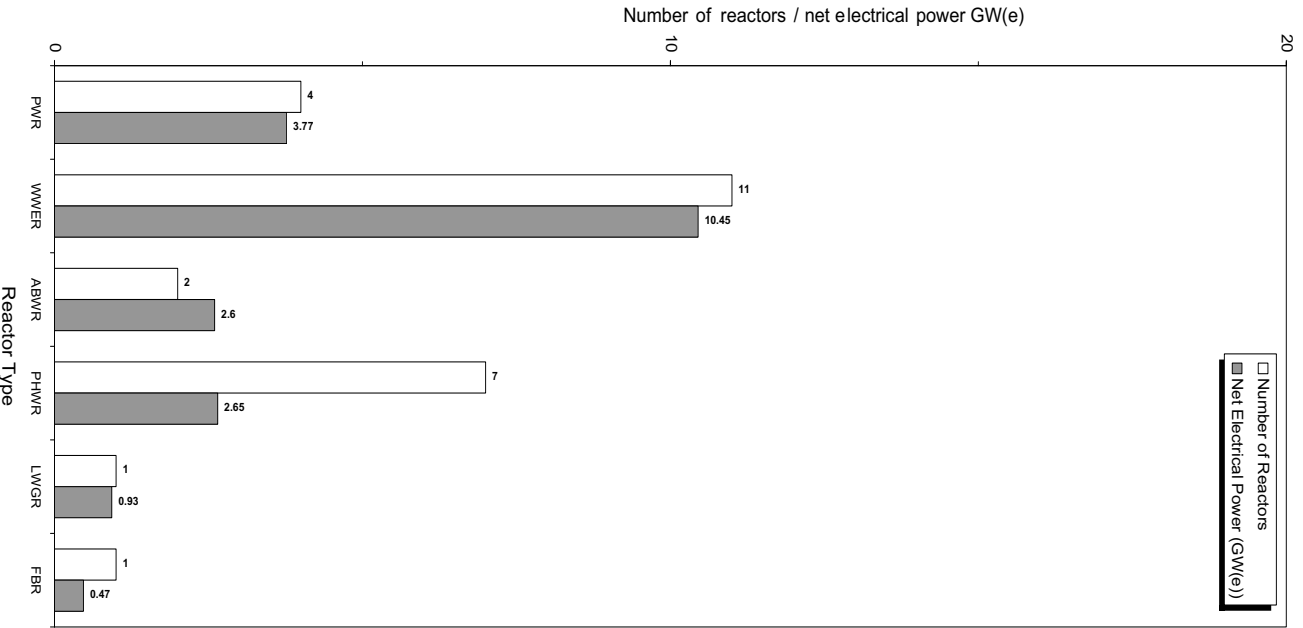


Figure 2. Reactors under construction by type and net electrical power (as of 31 Dec. 2005)

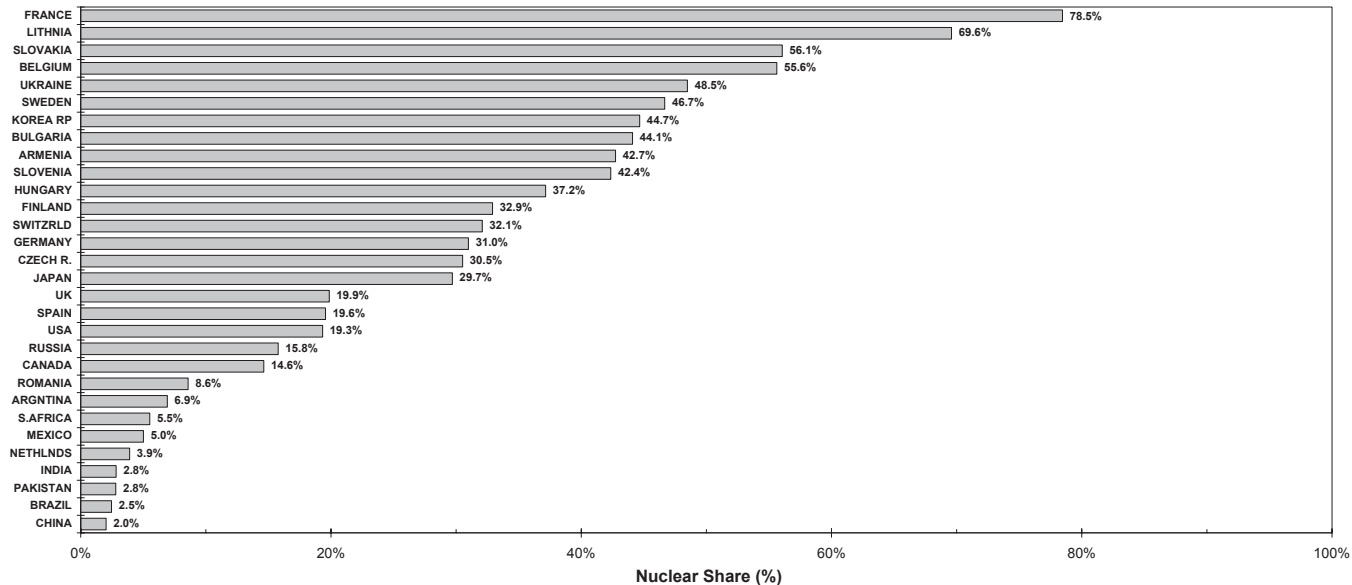


Figure 3. Nuclear Share of Electricity Generation (as of 31 Dec. 2005)

Note: The nuclear share of electricity supplied in Taiwan, China was 20.3% of the total.

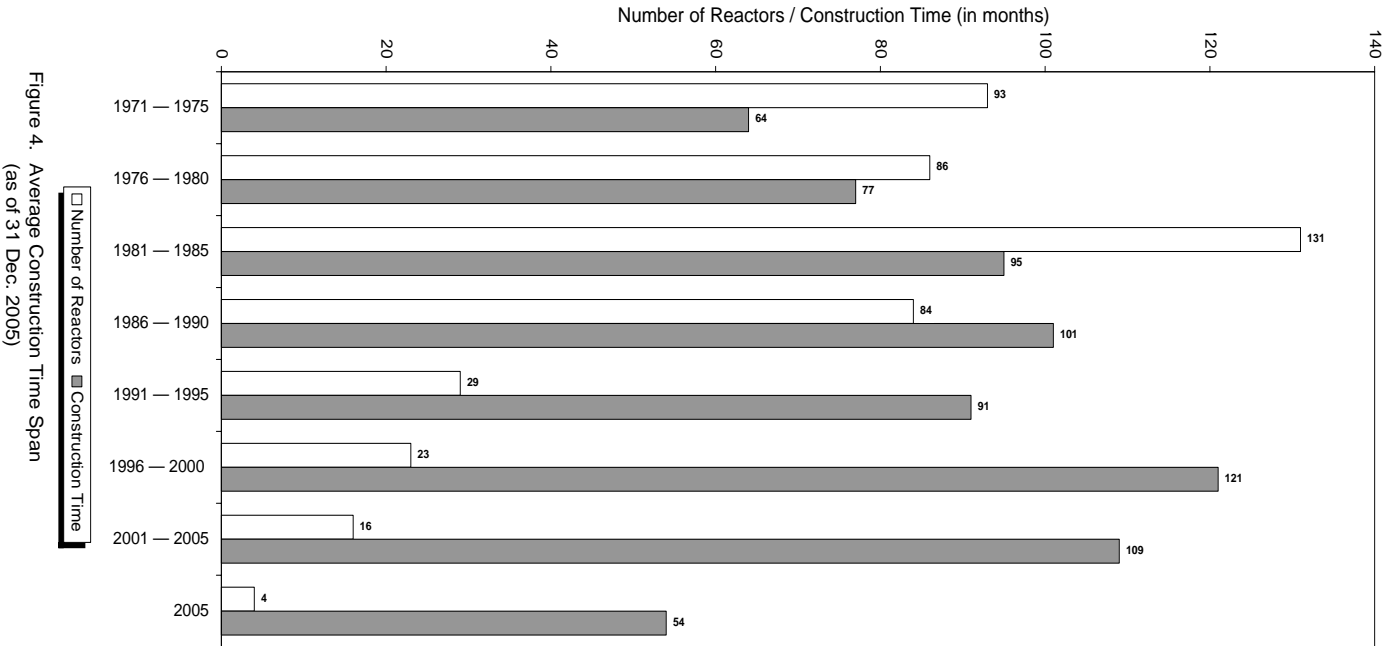


Figure 4. Average Construction Time Span
(as of 31 Dec. 2005)

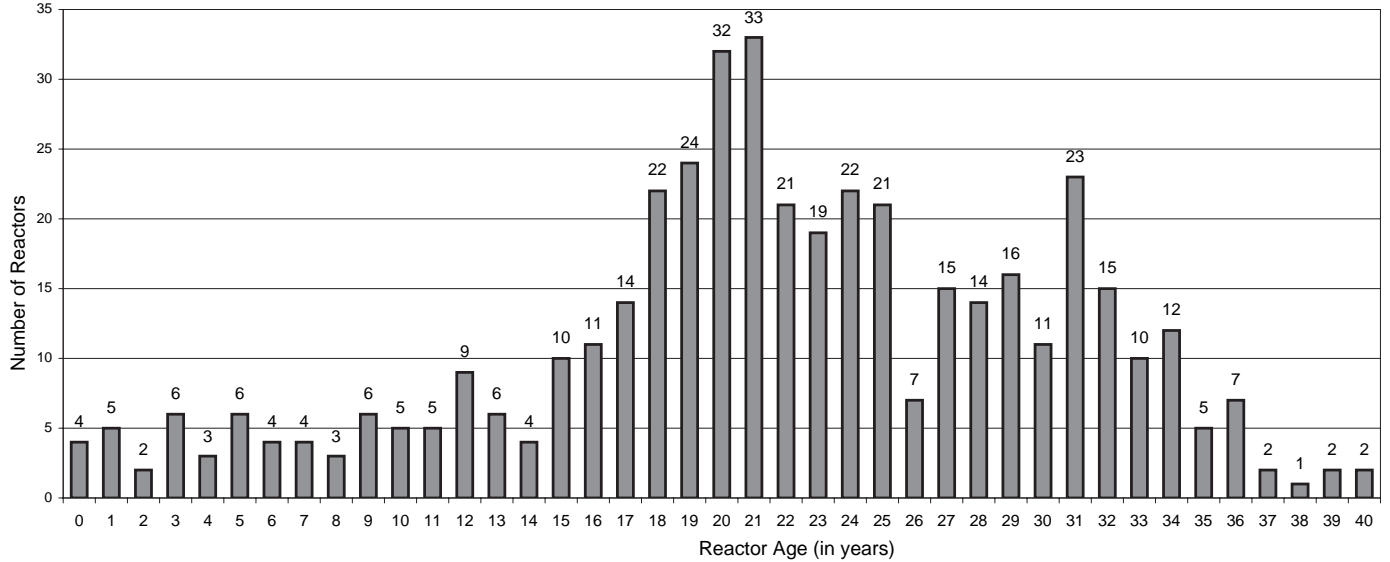


Figure 5. Number of Reactors in Operation By Age (as of 31 Dec. 2005)

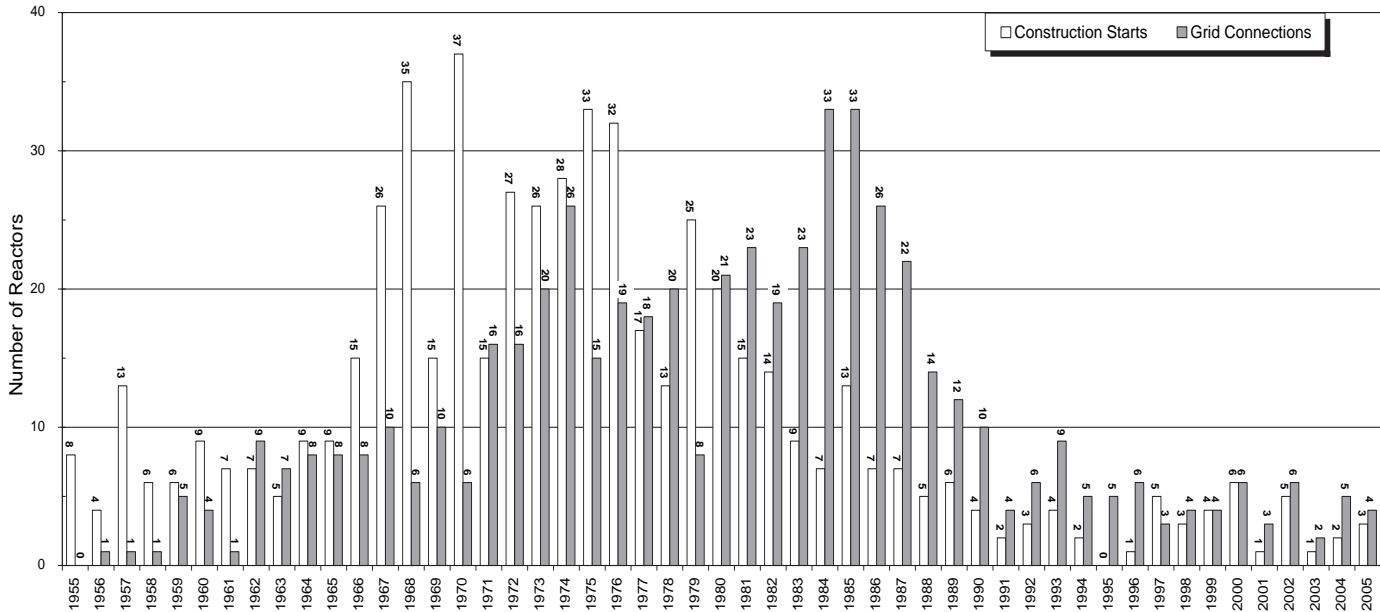


Figure 6. Annual Construction Starts and Connections to the Grid (1955–2005)

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