



# Nuclear Power Reactors in the World



**IAEA**

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# INTRODUCTION

This is the twenty-seventh 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 2006 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](http://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.

### **Permanent Shutdown**

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

### **Long-term Shutdown**

A unit is considered in the long-term shutdown status, if it has been shut down for an extended period (usually several years) without any firm recovery schedule at the beginning but there is the intention to re-start the unit eventually.

### **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. REACTORS IN OPERATION, LONG-TERM SHUTDOWN AND UNDER CONSTRUCTION, 31 DEC. 2006

Country	Reactors in Operation		Long-term Shut Down Reactors		Reactors under Construction		Nuclear Electricity Supplied in 2006	
	No of Units	Total MW(e)	No of Units	Total MW(e)	No of Units	Total MW(e)	TW(e).h	% of Total
ARGENTINA	2	935			1	692	7.15	6.93
ARMENIA	1	376					2.42	41.95
BELGIUM	7	5824					44.31	54.43
BRAZIL	2	1901					12.98	3.31
BULGARIA	2	1906			2	1906	18.15	43.64
CANADA	18	12610	4	2658			92.43	15.81
CHINA	10	7572			4	3610	51.81	1.93
CZECH R.	6	3523					24.50	31.48
FINLAND	4	2696			1	1600	22.00	27.99
FRANCE	59	63260					429.82	78.07
GERMANY	17	20339					158.71	31.82
HUNGARY	4	1755					12.51	37.70
INDIA	16	3577			7	3112	15.59	2.62
IRAN					1	915		
JAPAN	55	47587	1	246	1	866	291.54	29.97
KOREA RP	20	17454			1	960	141.18	38.64
LITHUANIA	1	1185					7.94	72.30
MEXICO	2	1360					10.40	4.86
NETHERLANDS	1	482					3.27	3.47
PAKISTAN	2	425			1	300	2.55	2.74

TABLE 1. REACTORS IN OPERATION, LONG-TERM SHUTDOWN AND UNDER CONSTRUCTION, 31 DEC. 2006 — continued

Country	Reactors in Operation		Long-term Shut Down Reactors		Reactors under Construction		Nuclear Electricity Supplied in 2006	
	No of Units	Total MW(e)	No of Units	Total MW(e)	No of Units	Total MW(e)	TW(e).h	% of Total
ROMANIA	1	655			1	655	5.18	9.00
RUSSIA	31	21743			5	4525	144.64	15.91
S.AFRICA	2	1800					10.07	4.41
SLOVAKIA	5	2034					16.60	57.16
SLOVENIA	1	666					5.29	40.26
SPAIN	8	7450					57.43	19.82
SWEDEN	10	9097					65.05	47.98
SWITZERLAND	5	3220					26.37	37.41
UK	19	10965					69.39	18.40
UKRAINE	15	13107			2	1900	84.91	47.53
USA	103	99257	1	1065			788.31	19.42
Total	435	369682	6	3879	29	23641	2660.86	18.76

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

— 6 units, 4921 MW(e) in operation; 2 units, 2600 MW(e) under construction;

— 38.32 TW(e).h of nuclear electricity generation, representing 19.49% of the total electricity generated there;

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. 2006

Country	PWR		BWR		GCR		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)
ARGENTINA							2	935					2	935
ARMENIA	1	376											1	376
BELGIUM	7	5824											7	5824
BRAZIL	2	1901											2	1901
BULGARIA	2	1906											2	1906
CANADA							18	12610					18	12610
CHINA	8	6272					2	1300					10	7572
CZECH R.	6	3523											6	3523
FINLAND	2	976	2	1720									4	2696
FRANCE	58	63130									1	130	59	63260
GERMANY	11	13968	6	6371									17	20339
HUNGARY	4	1755											4	1755
INDIA			2	300			14	3277					16	3577
JAPAN	23	18420	32	29167									55	47587
KOREA RP	16	14825					4	2629					20	17454
LITHUANIA									1	1185			1	1185
MEXICO			2	1360									2	1360
NETHERLANDS	1	482											1	482
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	5	2034											5	2034

TABLE 2. REACTOR TYPES AND NET ELECTRICAL POWER, REACTORS CONNECTED TO THE GRID, 31 DEC. 2006 — continued

Country	PWR		BWR		GCR		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)
SLOVENIA	1	666											1	666
SPAIN	6	5940	2	1510									8	7450
SWEDEN	3	2819	7	6278									10	9097
SWITZERLAND	3	1700	2	1520									5	3220
UK	1	1196			18	9769							19	10965
UKRAINE	15	13107											15	13107
USA	69	66668	34	32589									103	99257
TOTAL	264	242332	93	83956	18	9769	42	21531	16	11404	2	690	435	369682

The totals include 6 units, 4921 MW(e) in Taiwan, China.

During 2006, 2 reactors, 1490 MW(e) were newly connected to the grid.

TABLE 3. REACTOR TYPES AND NET ELECTRICAL POWER, REACTORS UNDER CONSTRUCTION, 31 DEC. 2006

Country	PWR		BWR		PHWR		LWGR		FBR		Total	
	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	4	3610									4	3610
FINLAND	1	1600									1	1600
INDIA	2	1834			4	808			1	470	7	3112
IRAN	1	915									1	915
JAPAN	1	866									1	866
KOREA RP	1	960									1	960
PAKISTAN	1	300									1	300
ROMANIA					1	655					1	655
RUSSIA	3	2850					1	925	1	750	5	4525
UKRAINE	2	1900									2	1900
TOTAL	18	16741	(*) 2	2600	6	2155	1	925	2	1220	(*) 29	23641

(\*) The totals include 2 BWR units, 2600 MW(e) in Taiwan, China.

During 2006, 4 reactors (3320 MW(e)) started construction.

TABLE 4. 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						
CHINA	CN -13	LINGAO 4	PWR	1000	1086	LDNPC	DFEC	2006-6	—	—	—
	CN -14	QINSHAN 2-3	PWR	610	650	NPQJVC	CNNC	2006-3	2010-11	2010-12	2011-3
KOREA RP	KR -21	SHIN-KORI-1	PWR	960	1000	KHNP	DHICKOPC	2006-6	2010-7	2010-8	2010-12
RUSSIA	RU -116	BELOYARSKY-4(BN-800)	FBR	750	800	REA		2006-7	—	—	—

During 2006, 4 reactors (3320 MW(e)) started construction.

TABLE 5. 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	PWR	1000	1060	JNPC	ASEA	1999-10	2005-12	2006-5	—
INDIA	IN -23	TARAPUR-3	PHWR	490	540	NPCIL	NPCIL	2000-5	2006-5	2006-6	2006-8

During 2006, 2 reactors (1490 MW(e)) were newly connected to the grid.

TABLE 6. SCHEDULED CONNECTIONS TO THE GRID DURING 2007

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation
	Code	Name		Net	Gross						
CHINA	CN -11	TIANWAN 2	PWR	1000	1060	JNPC	AEE&ZAES	2000-10	2007-10	2007-11	—
INDIA	IN -15	KAIGA-3	PHWR	202	220	NPCIL	NPCIL	2002-3	2007-2	2007-4	2007-6
	IN -16	KAIGA-4	PHWR	202	220	NPCIL	NPCIL	2002-5	2007-6	2007-7	2007-9
	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
IRAN	IR -1	BUSHEHR-1	PWR	915	1000	AEOI	ASE	1975-5	2007-6	2007-11	2008-6
ROMANIA	RO -2	CERNAVODA-2	PHWR	655	706	SNN	AECL	1983-7	2007-4	2007-7	2007-8

During 2007, 7 reactors (3378 MW(e)) are expected to achieve grid connection.



TABLE 7. REACTOR YEARS EXPERIENCE, UP TO 31 DEC. 2006

Country	Reactors Connected to the Grid		Long-term Shut Down Reactors		Permanently Shut Down Reactors		Total, Operating and Shut Down			
	No	Capacity MW(e) Net	No	Capacity MW(e) Net	No	Capacity MW(e) Net	No	Capacity MW(e) Net	Experience Years	Months
ARGENTINA	2	935					2	935	56	7
ARMENIA	1	376			1	376	2	752	32	8
BELGIUM	7	5824			1	11	8	5835	212	7
BRAZIL	2	1901					2	1901	31	3
BULGARIA	2	1906			4	1632	6	3538	141	3
CANADA	18	12610	4	2568	3	478	25	15656	528	1
CHINA	10	7572					10	7572	66	7
CZECH R.	6	3523					6	3523	92	10
FINLAND	4	2696					4	2696	111	4
FRANCE	59	63260			11	3951	70	67211	1523	2
GERMANY	17	20339			19	5944	36	26283	700	5
HUNGARY	4	1755					4	1755	86	2
INDIA	16	3577					16	3577	267	7
ITALY					4	1423	4	1423	81	
JAPAN	55	47587	1	246	3	320	59	48153	1276	8
KAZAKHSTAN					1	52	1	52	25	10
KOREA RP	20	17454					20	17454	279	8
LITHUANIA	1	1185			1	1185	2	2370	40	6
MEXICO	2	1360					2	1360	29	11
NETHERLANDS	1	482			1	55	2	537	62	

TABLE 7. REACTOR YEARS EXPERIENCE, UP TO 31 DEC. 2006 — continued

Country	Reactors Connected to the Grid		Long-term Shut Down Reactors		Permanently Shut Down Reactors		Total, Operating and Shut Down			
	No	Capacity MW(e) Net			No	Capacity MW(e) Net	No	Capacity MW(e) Net	Experience Years	Months
PAKISTAN	2	425					2	425	41	10
ROMANIA	1	655					1	655	10	6
RUSSIA	31	21743			5	786	36	22529	901	4
S.AFRICA	2	1800					2	1800	44	3
SLOVAKIA	5	2034			2	518	7	2552	118	7
SLOVENIA	1	666					1	666	25	3
SPAIN	8	7450			2	621	10	8071	245	6
SWEDEN	10	9097			3	1225	13	10322	342	6
SWITZERLAND	5	3220					5	3220	158	10
UK	19	10965			26	3324	45	14289	1400	8
UKRAINE	15	13107			4	3500	19	16607	323	6
USA	103	99257	1	1065	28	9764	132	110086	3188	2
Total	435	369682	6	3879	119	35165	560	408726	12599	1

Notes:

- The total includes the following data in Taiwan, China:  
— reactors connected to the grid: 6 units, 4921 MW(e), 152 years 1 month.
- Operating experience is counted from grid connection.

TABLE 8. OPERATING REACTORS AND NET ELECTRICAL POWER, 1975 TO 2006

Country	Number of Units and Net Capacity (MW(e)) Connected to the Grid at 31st Dec. of Each Year															
	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)
ARGENTINA	1	319	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	4	1680	4	1670	8	5464	7	5501	7	5631	7	5712	7	5801	7	5824
BRAZIL					1	626	1	626	1	626	2	1901	2	1901	2	1901
BULGARIA	2	811	3	1224	4	1632	5	2585	6	3538	6	3666	4	2722	2	1906
CANADA	7	2531	10	5172	16	9741	20	13993	21	14902	14	9998	18	12584	18	12610
CHINA									3	2188	3	2188	9	6587	10	7572
CZECH R.					1	391	4	1632	4	1782	5	2560	6	3373	6	3523
FINLAND			4	2208	4	2300	4	2310	4	2310	4	2656	4	2676	4	2696
FRANCE	10	2931	22	14388	43	37478	56	55808	56	58573	59	63183	59	63363	59	63260
GERMANY	12	4068	19	10403	24	18190	21	21197	19	20942	19	21177	17	20339	17	20339
HUNGARY					2	825	4	1710	4	1729	4	1729	4	1755	4	1755
INDIA	3	606	4	832	6	1143	7	1314	10	1746	14	2508	15	2993	16	3577
ITALY	3	563	4	1112	3	1273										
JAPAN	13	6258	23	14918	33	23612	41	30867	50	39625	52	43245	55	47593	55	47587
KAZAKHSTAN	1	135	1	135	1	135	1	135	1	50						
KOREA RP			1	564	5	3580	9	7220	11	9115	16	12990	20	16810	20	17454
LITHUANIA					1	1380	2	2760	2	2370	2	2370	1	1185	1	1185
MEXICO							1	640	2	1256	2	1290	2	1360	2	1360
NETHERLANDS	2	498	2	498	2	508	2	539	2	510	1	449	1	450	1	482

TABLE 8. OPERATING REACTORS AND NET ELECTRICAL POWER, 1975 TO 2006 — continued

Country	Number of Units and Net Capacity (MW(e)) Connected to the Grid at 31st Dec. of Each Year															
	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)
PAKISTAN	1	126	1	125	1	137	1	125	1	125	2	425	2	425	2	425
ROMANIA											1	655	1	655	1	655
RUSSIA	14	4301	20	8596	28	15841	29	18898	30	19848	30	19848	31	21743	31	21743
S.AFRICA					2	1840	2	1840	2	1840	2	1840	2	1800	2	1800
SLOVAKIA	1	100	2	780	4	1632	4	1632	4	1632	6	2440	6	2442	5	2034
SLOVENIA					1	632	1	620	1	620	1	676	1	656	1	666
SPAIN	3	1073	3	1073	8	5608	9	7099	9	7097	9	7468	9	7591	8	7450
SWEDEN	5	3186	8	5515	12	9455	12	9919	12	10058	11	9417	10	8916	10	9097
SWITZERLAND	3	1006	4	1940	5	2881	5	2942	5	3056	5	3170	5	3220	5	3220
UK	30	4515	33	6507	38	10151	37	11410	35	12922	33	12498	23	11852	19	10965
UKRAINE			3	2286	10	8324	15	13020	15	13045	13	11195	15	13107	15	13107
USA	54	35991	69	50849	90	74283	108	96188	108	97933	103	96156	103	98145	103	99257
WORLD	169	70580	245	133122	363	245752	416	318386	434	341429	435	349852	441	368239	435	369682

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

— 1980: 2 units 1208 MW(e), 1985: 6 units, 4890 MW(e), 1990: 6 units, 4828 MW(e), 1995, 2000, 2005: 6 units, 4884 MW(e) 2006: 6 units, 4921 MW(e).

Estimates for 2007 based on current expected grid connection dates for reactors under construction as of 31 December 2006.

TABLE 9. REACTORS UNDER CONSTRUCTION, 31 DEC. 2006

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	PWR	953	1000	KOZNPP	ASE	1987-1	—	—	—
	BG -8	BELENE-2	PWR	953	1000	KOZNPP	ASE	1987-3	—	—	—
CHINA	CN -12	LINGAO 3	PWR	1000	1087	LDNPC	DFEC	2005-12	2010-7	2010-8	2010-12
	CN -13	LINGAO 4	PWR	1000	1086	LDNPC	DFEC	2006-6	—	—	—
	CN -14	QINSHAN 2-3	PWR	610	650	NPQJVC	CNNC	2006-3	2010-11	2010-12	2011-3
	CN -11	TIANWAN 2	PWR	1000	1060	JNPC	AEE&ZAES	2000-10	2007-10	2007-11	—
FINLAND	FI -5	OLKILUOTO-3	PWR	1600	1720	TVO	Areva	2005-8	—	—	2010-12
INDIA	IN -15	KAIGA-3	PHWR	202	220	NPCIL	NPCIL	2002-3	2007-2	2007-3	2007-3
	IN -16	KAIGA-4	PHWR	202	220	NPCIL	NPCIL	2002-5	2007-6	2007-7	2007-9
	IN -25	KUDANKULAM-1	PWR	917	1000	NPCIL	MAEP	2002-3	2008-12	2009-1	2009-3
	IN -26	KUDANKULAM-2	PWR	917	1000	NPCIL	MAEP	2002-7	2009-6	2009-7	2009-9
	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
IRAN	IR -1	BUSHEHR-1	PWR	915	1000	AEOI	ASE	1975-5	2007-6	2007-11	2008-6
JAPAN	JP -64	TOMARI-3	PWR	866	912	HEPCO	MHI	2004-11	—	—	2009-12
KOREA RP	KR -21	SHIN-KORI-1	PWR	960	1000	KHNP	DHICKOPC	2006-6	2010-7	2010-8	2010-12
PAKISTAN	PK -3	CHASNUPP 2	PWR	300	325	PAEC	CNNC	2005-12	2011-4	2011-5	2011-8

TABLE 9. REACTORS UNDER CONSTRUCTION, 31 DEC. 2006 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation
	Code	Name		Net	Gross						
ROMANIA	RO -2	CERNAVODA-2	PHWR	655	706	SNN	AECL	1983-7	2007-4	2007-7	2007-8
RUSSIA	RU -114	BALAKOVO-5	PWR	950	1000	REA		1987-4	1999-12	2010-12	—
	RU -116	BELOYARSKY-4(BN-800)	FBR	750	800	REA		2006-7	—	—	—
	RU -37	KALININ-4	PWR	950	1000	REA		1986-8	1999-12	2010-12	—
	RU -120	KURSK-5	LWGR	925	1000	REA	FAEA	1985-12	1999-12	2010-12	—
	RU -62	VOLGODONSK-2	PWR	950	1000	REA	FAEA	1983-5	1999-12	2008-12	—
UKRAINE	UA -51	KHMELNITSKI-3	PWR	950	1000	NNEG		1986-3	—	2015-1	—
	UA -52	KHMELNITSKI-4	PWR	950	1000	NNEG		1987-2	—	2016-1	—

Status as of 31 December 2006, 29 reactors (23641 MW(e)) are under construction, including 2 units (2600 MW(e)) in Taiwan, China.

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2006

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applcs
	Code	Name		Net	Gross	Thermal								
ARGENTINA	AR -1	ATUCHA-1	PHWR	335	357	1179	NASA	SIEMENS	1968-6	1974-3	1974-6	67.0	72.0	-
	AR -2	EMBALSE	PHWR	600	648	2015	NASA	AECL	1974-4	1983-4	1984-1	84.0	87.0	-
ARMENIA	AM -19	ARMENIA-2	PWR	376	408	1375	JSC	FAEA	1975-7	1980-1	1980-5	58.0	67.0	-
BELGIUM	BE -2	DOEL-1	PWR	392	412	1192	ELECTRAB	ACECOWEN	1969-7	1974-8	1975-2	85.0	89.0	-
	BE -4	DOEL-2	PWR	433	454	1311	ELECTRAB	ACECOWEN	1971-9	1975-8	1975-12	81.0	86.0	-
	BE -5	DOEL-3	PWR	1006	1056	2775	ELECTRAB	FRAMACEC	1975-1	1982-6	1982-10	85.0	88.0	-
	BE -7	DOEL-4	PWR	1008	1041	2988	ELECTRAB	ACECOWEN	1978-12	1985-4	1985-7	83.0	84.0	-
	BE -3	TIHANGE-1	PWR	962	1009	2873	ELECTRAB	ACLF	1970-6	1975-3	1975-10	83.0	89.0	-
	BE -6	TIHANGE-2	PWR	1008	1055	3064	ELECTRAB	FRAMACEC	1976-4	1982-10	1983-6	86.0	88.0	-
	BE -8	TIHANGE-3	PWR	1015	1065	3000	ELECTRAB	ACECOWEN	1978-11	1985-6	1985-9	87.0	89.0	-
	BRAZIL	BR -1	ANGRA-1	PWR	626	657	1876	ELETRONU	WH	1971-5	1982-4	1985-1	41.0	59.0
	BR -2	ANGRA-2	PWR	1275	1350	3764	ELETRONU	KWU	1976-1	2000-7	2001-2	75.0	83.0	-
BULGARIA	BG -5	KOZLODUY-5	PWR	953	1000	3000	KOZNPP	AEE	1980-7	1987-11	1988-12	50.0	64.0	DH
	BG -6	KOZLODUY-6	PWR	953	1000	3000	KOZNPP	AEE	1982-4	1991-8	1993-12	58.0	72.0	DH
CANADA	CA -10	BRUCE-3	PHWR	750	805	2832	BRUCEPOW	NEIP	1972-7	1977-12	1978-2	70.0	73.0	-
	CA -11	BRUCE-4	PHWR	750	805	2832	BRUCEPOW	NEIP	1972-9	1978-12	1979-1	69.0	70.0	-
	CA -18	BRUCE-5	PHWR	795	840	2832	BRUCEPOW	OH/AECL	1978-6	1984-12	1985-3	82.0	83.0	-
	CA -19	BRUCE-6	PHWR	822	891	2690	BRUCEPOW	OH/AECL	1978-1	1984-6	1984-9	79.0	80.0	-
	CA -20	BRUCE-7	PHWR	822	840	2832	BRUCEPOW	OH/AECL	1979-5	1986-2	1986-4	82.0	83.0	-

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. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applies	
	Code	Name		Net	Gross	Thermal									
CANADA	CA -21	BRUCE-8	PHWR	795	840	2690	BRUCEPOW	OH/AECL	1979-8	1987-3	1987-5	80.0	82.0	-	
	CA -22	DARLINGTON-1	PHWR	878	934	2776	OPG	OH/AECL	1982-4	1990-12	1992-11	82.0	83.0	-	
	CA -23	DARLINGTON-2	PHWR	878	934	2776	OPG	OH/AECL	1981-9	1990-1	1990-10	74.0	76.0	-	
	CA -24	DARLINGTON-3	PHWR	878	934	2776	OPG	OH/AECL	1984-9	1992-12	1993-2	83.0	85.0	-	
	CA -25	DARLINGTON-4	PHWR	878	934	2776	OPG	OH/AECL	1985-7	1993-4	1993-6	84.0	85.0	-	
	CA -12	GENTILLY-2	PHWR	635	675	2156	HQ	BBC	1974-4	1982-12	1983-10	78.0	84.0	-	
	CA -4	PICKERING-1	PHWR	515	542	1744	OPG	OH/AECL	1966-6	1971-4	1971-7	61.0	67.0	-	
	CA -7	PICKERING-4	PHWR	515	542	1744	OPG	OH/AECL	1968-5	1973-5	1973-6	66.0	67.0	-	
	CA -13	PICKERING-5	PHWR	516	540	1744	OPG	OH/AECL	1974-11	1982-12	1983-5	73.0	74.0	-	
	CA -14	PICKERING-6	PHWR	516	540	1744	OPG	OH/AECL	1975-10	1983-11	1984-2	76.0	77.0	-	
	CA -15	PICKERING-7	PHWR	516	540	1744	OPG	OH/AECL	1976-3	1984-11	1985-1	78.0	79.0	-	
	CA -16	PICKERING-8	PHWR	516	540	1744	OPG	OH/AECL	1976-9	1986-1	1986-2	75.0	76.0	-	
	CA -17	POINT LEPREAU	PHWR	635	680	2180	NBEPCC	AECL	1975-5	1982-9	1983-2	82.0	83.0	-	
	CHINA	CN -2	GUANGDONG-1	PWR	944	984	2905	GNPJVC	GEC	1987-8	1993-8	1994-2	80.0	85.0	-
		CN -3	GUANGDONG-2	PWR	944	984	2905	GNPJVC	GEC	1988-4	1994-2	1994-5	80.0	83.0	-
		CN -6	LINGAO 1	PWR	938	990	2895	LANPC	FRAM	1997-5	2002-2	2002-5	86.0	87.0	-
		CN -7	LINGAO 2	PWR	938	990	2895	LANPC	FRAM	1997-11	2002-12	2003-1	88.0	88.0	-
CN -1		QINSHAN 1	PWR	288	310	966	QNPC	CNNC	1985-3	1991-12	1994-4	76.0	77.0	-	
CN -4		QINSHAN 2-1	PWR	610	650	1930	NPQJVC	CNNC	1996-6	2002-2	2002-4	77.0	77.0	-	
CN -5		QINSHAN 2-2	PWR	610	650	1930	NPQJVC	CNNC	1997-4	2004-3	2004-5	89.0	88.0	-	
CN -8		QINSHAN 3-1	PHWR	650	700	2064	TQNPC	AECL	1998-6	2002-11	2002-12	87.0	86.0	-	



TABLE 10. REACTORS IN OPERATION, 31 DEC. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applcs
	Code	Name		Net	Gross	Thermal								
CHINA	CN-9	QINSHAN 3-2	PHWR	650	700	2064	TQNPC	AECL	1998-9	2003-6	2003-7	86.0	86.0	-
	CN-10	TIANWAN 1	PWR	1000	1060	3000	JNPC	AEE&ZAES	1999-10	2006-5	—	(1)	(1)	-
CZECH R.	CZ-4	DUKOVANY-1	PWR	412	440	1375	CEZ	SKODA	1979-1	1985-2	1985-5	83.0	83.0	-
	CZ-5	DUKOVANY-2	PWR	412	440	1375	CEZ	SKODA	1979-1	1986-1	1986-3	84.0	83.0	-
	CZ-8	DUKOVANY-3	PWR	427	456	1375	CEZ	SKODA	1979-3	1986-11	1986-12	83.0	83.0	-
	CZ-9	DUKOVANY-4	PWR	412	440	1375	CEZ	SKODA	1979-3	1987-6	1987-7	85.0	84.0	-
	CZ-23	TEMELIN-1	PWR	930	975	3000	CEZ	SKODA	1987-2	2000-12	2002-6	70.0	72.0	DH
	CZ-24	TEMELIN-2	PWR	930	975	3000	CEZ	SKODA	1987-2	2002-12	2003-4	69.0	68.0	DH
FINLAND	FI-1	LOVIISA-1	PWR	488	510	1500	FORTUMPH	AEE	1971-5	1977-2	1977-5	86.0	87.0	-
	FI-2	LOVIISA-2	PWR	488	510	1500	FORTUMPH	AEE	1972-8	1980-11	1981-1	88.0	89.0	-
	FI-3	OLKILUOTO-1	BWR	860	890	2500	TVO	ASEASTAL	1974-2	1978-9	1979-10	91.0	92.0	-
	FI-4	OLKILUOTO-2	BWR	860	890	2500	TVO	ASEASTAL	1975-8	1980-2	1982-7	93.0	94.0	-
FRANCE	FR-54	BELLEVILLE-1	PWR	1310	1363	3817	EDF	FRAM	1980-5	1987-10	1988-6	69.0	77.0	-
	FR-55	BELLEVILLE-2	PWR	1310	1363	3817	EDF	FRAM	1980-8	1988-7	1989-1	70.0	78.0	-
	FR-32	BLAYAIS-1	PWR	910	951	2785	EDF	FRAM	1977-1	1981-6	1981-12	71.0	79.0	-
	FR-33	BLAYAIS-2	PWR	910	951	2785	EDF	FRAM	1977-1	1982-7	1983-2	75.0	82.0	-
	FR-34	BLAYAIS-3	PWR	910	951	2785	EDF	FRAM	1978-4	1983-8	1983-11	75.0	82.0	-
	FR-35	BLAYAIS-4	PWR	910	951	2785	EDF	FRAM	1978-4	1983-5	1983-10	74.0	82.0	-
	FR-13	BUGEY-2	PWR	910	945	2785	EDF	FRAM	1972-11	1978-5	1979-3	66.0	74.0	-
	FR-14	BUGEY-3	PWR	910	945	2785	EDF	FRAM	1973-9	1978-9	1979-3	66.0	76.0	-
	FR-15	BUGEY-4	PWR	880	917	2785	EDF	FRAM	1974-6	1979-3	1979-7	67.0	76.0	-

(1) Performance factors calculated only for period of full commercial operation, and only to 2005.

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. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applies
	Code	Name		Net	Gross	Thermal								
FRANCE	FR -16	BUGEY-5	PWR	880	917	2785	EDF	FRAM	1974-7	1979-7	1980-1	68.0	78.0	-
	FR -50	CATTENOM-1	PWR	1300	1362	3817	EDF	FRAM	1979-10	1986-11	1987-4	67.0	72.0	-
	FR -53	CATTENOM-2	PWR	1300	1362	3817	EDF	FRAM	1980-7	1987-9	1988-2	72.0	79.0	-
	FR -60	CATTENOM-3	PWR	1300	1362	3817	EDF	FRAM	1982-6	1990-7	1991-2	74.0	81.0	-
	FR -65	CATTENOM-4	PWR	1300	1362	3817	EDF	FRAM	1983-9	1991-5	1992-1	78.0	85.0	-
	FR -40	CHINON-B-1	PWR	905	954	2785	EDF	FRAM	1977-3	1982-11	1984-2	74.0	80.0	-
	FR -41	CHINON-B-2	PWR	905	954	2785	EDF	FRAM	1977-3	1983-11	1984-8	73.0	80.0	-
	FR -56	CHINON-B-3	PWR	905	954	2785	EDF	FRAM	1980-10	1986-10	1987-3	73.0	81.0	-
	FR -57	CHINON-B-4	PWR	905	954	2785	EDF	FRAM	1981-2	1987-11	1988-4	74.0	82.0	-
	FR -62	CHOOZ-B-1	PWR	1500	1560	4270	EDF	FRAM	1984-1	1996-8	2000-5	77.0	82.0	-
	FR -70	CHOOZ-B-2	PWR	1500	1560	4270	EDF	FRAM	1985-12	1997-4	2000-9	77.0	84.0	-
	FR -72	CIVAUX-1	PWR	1495	1561	4270	EDF	FRAM	1988-10	1997-12	2002-1	79.0	82.0	-
	FR -73	CIVAUX-2	PWR	1495	1561	4270	EDF	FRAM	1991-4	1999-12	2002-4	78.0	83.0	-
	FR -42	CRUAS-1	PWR	915	956	2785	EDF	FRAM	1978-8	1983-4	1984-4	71.0	82.0	-
	FR -43	CRUAS-2	PWR	915	956	2785	EDF	FRAM	1978-11	1984-9	1985-4	73.0	82.0	-
	FR -44	CRUAS-3	PWR	915	956	2785	EDF	FRAM	1979-4	1984-5	1984-9	72.0	83.0	-
	FR -45	CRUAS-4	PWR	915	956	2785	EDF	FRAM	1979-10	1984-10	1985-2	71.0	81.0	-
	FR -22	DAMPIERRE-1	PWR	890	937	2785	EDF	FRAM	1975-2	1980-3	1980-9	70.0	77.0	-
	FR -29	DAMPIERRE-2	PWR	890	937	2785	EDF	FRAM	1975-4	1980-12	1981-2	68.0	78.0	-
	FR -30	DAMPIERRE-3	PWR	890	937	2785	EDF	FRAM	1975-9	1981-1	1981-5	72.0	79.0	-
	FR -31	DAMPIERRE-4	PWR	890	937	2785	EDF	FRAM	1975-12	1981-8	1981-11	70.0	78.0	-

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applcs
	Code	Name		Net	Gross	Thermal								
FRANCE	FR -11	FESSENHEIM-1	PWR	880	920	2660	EDF	FRAM	1971-9	1977-4	1978-1	67.0	74.0	-
	FR -12	FESSENHEIM-2	PWR	880	920	2660	EDF	FRAM	1972-2	1977-10	1978-4	70.0	77.0	-
	FR -46	FLAMANVILLE-1	PWR	1330	1382	3817	EDF	FRAM	1979-12	1985-12	1986-12	69.0	76.0	-
	FR -47	FLAMANVILLE-2	PWR	1330	1382	3817	EDF	FRAM	1980-5	1986-7	1987-3	70.0	78.0	-
	FR -61	GOLFECH-1	PWR	1310	1363	3817	EDF	FRAM	1982-11	1990-6	1991-2	74.0	84.0	-
	FR -68	GOLFECH-2	PWR	1310	1363	3817	EDF	FRAM	1984-10	1993-6	1994-3	74.0	85.0	-
	FR -20	GRAVELINES-1	PWR	910	951	2785	EDF	FRAM	1975-2	1980-3	1980-11	69.0	77.0	-
	FR -21	GRAVELINES-2	PWR	910	951	2785	EDF	FRAM	1975-3	1980-8	1980-12	73.0	81.0	-
	FR -27	GRAVELINES-3	PWR	910	951	2785	EDF	FRAM	1975-12	1980-12	1981-6	74.0	81.0	-
	FR -28	GRAVELINES-4	PWR	910	951	2785	EDF	FRAM	1976-4	1981-6	1981-10	74.0	80.0	-
	FR -51	GRAVELINES-5	PWR	910	951	2785	EDF	FRAM	1979-10	1984-8	1985-1	74.0	82.0	-
	FR -52	GRAVELINES-6	PWR	910	951	2785	EDF	FRAM	1979-10	1985-8	1985-10	76.0	82.0	-
	FR -58	NOGENT-1	PWR	1310	1363	3817	EDF	FRAM	1981-5	1987-10	1988-2	69.0	77.0	-
	FR -59	NOGENT-2	PWR	1310	1363	3817	EDF	FRAM	1982-1	1988-12	1989-5	74.0	83.0	-
	FR -36	PALUEL-1	PWR	1330	1382	3817	EDF	FRAM	1977-8	1984-6	1985-12	69.0	77.0	-
	FR -37	PALUEL-2	PWR	1330	1382	3817	EDF	FRAM	1978-1	1984-9	1985-12	67.0	75.0	-
	FR -38	PALUEL-3	PWR	1330	1382	3817	EDF	FRAM	1979-2	1985-9	1986-2	69.0	76.0	-
	FR -39	PALUEL-4	PWR	1330	1382	3817	EDF	FRAM	1980-2	1986-4	1986-6	70.0	78.0	-
	FR -63	PENLY-1	PWR	1330	1382	3817	EDF	FRAM	1982-9	1990-5	1990-12	75.0	82.0	-
	FR -64	PENLY-2	PWR	1330	1382	3817	EDF	FRAM	1984-8	1992-2	1992-11	76.0	84.0	-
FR -10	PHENIX	FBR	130	250	591	CEA/EDF	CNCLNEY	1968-11	1973-12	1974-2	44.0	62.0	-	

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applcs	
	Code	Name		Net	Gross	Thermal									
FRANCE	FR -48	ST. ALBAN-1	PWR	1335	1381	3817	EDF	FRAM	1979-1	1985-8	1986-5	67.0	77.0	-	
	FR -49	ST. ALBAN-2	PWR	1335	1381	3817	EDF	FRAM	1979-7	1986-7	1987-3	64.0	76.0	-	
	FR -17	ST. LAURENT-B-1	PWR	915	956	2785	EDF	FRAM	1976-5	1981-1	1983-8	71.0	77.0	-	
	FR -23	ST. LAURENT-B-2	PWR	915	956	2785	EDF	FRAM	1976-7	1981-6	1983-8	70.0	78.0	-	
	FR -18	TRICASTIN-1	PWR	915	955	2785	EDF	FRAM	1974-11	1980-5	1980-12	72.0	79.0	-	
	FR -19	TRICASTIN-2	PWR	915	955	2785	EDF	FRAM	1974-12	1980-8	1980-12	72.0	79.0	-	
	FR -25	TRICASTIN-3	PWR	915	955	2785	EDF	FRAM	1975-4	1981-2	1981-5	75.0	81.0	-	
	FR -26	TRICASTIN-4	PWR	915	955	2785	EDF	FRAM	1975-5	1981-6	1981-11	73.0	81.0	-	
	GERMANY	DE -12	BIBLIS-A (KWB A)	PWR	1167	1225	3517	RWE	KWU	1970-1	1974-8	1975-2	67.0	75.0	-
		DE -18	BIBLIS-B (KWB B)	PWR	1240	1300	3733	RWE	KWU	1972-2	1976-4	1977-1	68.0	80.0	-
DE -32		BROKDORF (KBR)	PWR	1370	1440	3765	EON	KWU	1976-1	1986-10	1986-12	87.0	90.0	-	
DE -13		BRUNSBUETTEL (KKB)	BWR	771	806	2292	KKB	KWU	1970-4	1976-7	1977-2	57.0	69.0	-	
DE -33		EMSLAND (KKE)	PWR	1329	1400	3850	KLE	SIEM,KWU	1982-8	1988-4	1988-6	93.0	93.0	-	
DE -23		GRAFENRHEINFELD (KKG)	PWR	1275	1345	3765	EON	KWU	1975-1	1981-12	1982-6	86.0	87.0	-	
DE -27		GROHNDE (KWG)	PWR	1360	1430	3900	KWG	KWU	1976-6	1984-9	1985-2	90.0	92.0	-	
DE -26		GUNDREMMINGEN-B (GUN-B)	BWR	1284	1344	3840	RWE	KWU	1976-7	1984-3	1984-7	82.0	88.0	-	
DE -28		GUNDREMMINGEN-C (GUN-C)	BWR	1288	1344	3840	KGG	KWU	1976-7	1984-11	1985-1	79.0	87.0	-	
DE -16		ISAR-1 (KKI 1)	BWR	878	912	2575	EON	KWU	1972-5	1977-12	1979-3	78.0	84.0	-	
DE -31		ISAR-2 (KKI 2)	PWR	1400	1475	3950	EON	KWU	1982-9	1988-1	1988-4	88.0	92.0	-	
DE -20		KRUEMMEL (KKK)	BWR	1260	1316	3690	KKK	KWU	1974-4	1983-9	1984-3	76.0	80.0	-	
DE -15		NECKARWESTHEIM-1 (GKN 1)	PWR	785	840	2497	EnKK	KWU	1972-2	1976-6	1976-12	80.0	87.0	-	

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applcs
	Code	Name		Net	Gross	Thermal								
GERMANY	DE -44	NECKARWESTHEIM-2 (GKN 2)	PWR	1305	1395	3850	EnKK	SIEM,KWU	1982-11	1989-1	1989-4	92.0	93.0	-
	DE -14	PHILIPPSBURG-1 (KKP 1)	BWR	890	926	2575	EnKK	KWU	1970-10	1979-5	1980-3	76.0	82.0	-
	DE -24	PHILIPPSBURG-2 (KKP 2)	PWR	1392	1458	3950	EnKK	KWU	1977-7	1984-12	1985-4	88.0	90.0	-
	DE -17	UNTERWESER (KKU)	PWR	1345	1410	3900	EON	KWU	1972-7	1978-9	1979-9	79.0	84.0	-
HUNGARY	HU -1	PAKS-1	PWR	437	467	1375	PAKS RT.	AEE	1974-8	1982-12	1983-8	86.0	85.0	-
	HU -2	PAKS-2	PWR	441	468	1375	PAKS RT.	AEE	1974-8	1984-9	1984-11	79.0	78.0	DH
	HU -3	PAKS-3	PWR	433	460	1375	PAKS RT.	AEE	1979-10	1986-9	1986-12	87.0	86.0	DH
	HU -4	PAKS-4	PWR	444	471	1375	PAKS RT.	AEE	1979-10	1987-8	1987-11	89.0	87.0	DH
INDIA	IN -13	KAIGA-1	PHWR	202	220	801	NPCIL	NPCIL	1989-9	2000-10	2000-11	75.0	90.0	-
	IN -14	KAIGA-2	PHWR	202	220	801	NPCIL	NPCIL	1989-12	1999-12	2000-3	76.0	88.0	-
	IN -9	KAKRAPAR-1	PHWR	202	220	801	NPCIL	NPCIL	1984-12	1992-11	1993-5	69.0	77.0	-
	IN -10	KAKRAPAR-2	PHWR	202	220	801	NPCIL	NPCIL	1985-4	1995-3	1995-9	80.0	88.0	-
	IN -5	MADRAS-1	PHWR	202	220	801	NPCIL	NPCIL	1971-1	1983-7	1984-1	49.0	58.0	DS
	IN -6	MADRAS-2	PHWR	202	220	801	NPCIL	NPCIL	1972-10	1985-9	1986-3	55.0	62.0	DS
	IN -7	NARORA-1	PHWR	202	220	801	NPCIL	NPCIL	1976-12	1989-7	1991-1	56.0	64.0	-
	IN -8	NARORA-2	PHWR	202	220	801	NPCIL	NPCIL	1977-11	1992-1	1992-7	68.0	76.0	-
	IN -3	RAJASTHAN-1	PHWR	90	100	693	NPCIL	AECL	1965-8	1972-11	1973-12	21.0	28.0	PH
	IN -4	RAJASTHAN-2	PHWR	187	200	693	NPCIL	AECL/DAE	1968-4	1980-11	1981-4	53.0	60.0	PH
	IN -11	RAJASTHAN-3	PHWR	202	220	801	NPCIL	NPCIL	1990-2	2000-3	2000-6	77.0	88.0	PH
	IN -12	RAJASTHAN-4	PHWR	202	220	801	NPCIL	NPCIL	1990-10	2000-11	2000-12	77.0	91.0	PH
	IN -1	TARAPUR-1	BWR	150	160	530	NPCIL	GE	1964-10	1969-4	1969-10	55.0	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. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non-Electrical Applies
	Code	Name		Net	Gross	Thermal								
INDIA	IN -2	TARAPUR-2	BWR	150	160	530	NPCIL	GE	1964-10	1969-5	1969-10	55.0	74.0	-
	IN -23	TARAPUR-3	PHWR	490	540	1730	NPCIL	NPCIL	2000-5	2006-6	2006-8	61.0	79.0	-
	IN -24	TARAPUR-4	PHWR	490	540	1730	NPCIL	NPCIL	2000-3	2005-6	2005-9	47.0	69.0	-
JAPAN	JP -5	FUKUSHIMA-DAIICHI-1	BWR	439	460	1380	TEPCO	GE/GETSC	1967-7	1970-11	1971-3	53.0	56.0	-
	JP -9	FUKUSHIMA-DAIICHI-2	BWR	760	784	2381	TEPCO	GE/T	1969-6	1973-12	1974-7	58.0	59.0	-
	JP -10	FUKUSHIMA-DAIICHI-3	BWR	760	784	2381	TEPCO	TOSHIBA	1970-12	1974-10	1976-3	64.0	64.0	-
	JP -16	FUKUSHIMA-DAIICHI-4	BWR	760	784	2381	TEPCO	HITACHI	1973-2	1978-2	1978-10	69.0	69.0	-
	JP -17	FUKUSHIMA-DAIICHI-5	BWR	760	784	2381	TEPCO	TOSHIBA	1972-5	1977-9	1978-4	70.0	71.0	-
	JP -18	FUKUSHIMA-DAIICHI-6	BWR	1067	1100	3293	TEPCO	GE/T	1973-10	1979-5	1979-10	69.0	70.0	-
	JP -25	FUKUSHIMA-DAINI-1	BWR	1067	1100	3293	TEPCO	TOSHIBA	1976-3	1981-7	1982-4	74.0	75.0	-
	JP -26	FUKUSHIMA-DAINI-2	BWR	1067	1100	3293	TEPCO	HITACHI	1979-5	1983-6	1984-2	73.0	74.0	-
	JP -35	FUKUSHIMA-DAINI-3	BWR	1067	1100	3293	TEPCO	TOSHIBA	1981-3	1984-12	1985-6	64.0	65.0	-
	JP -38	FUKUSHIMA-DAINI-4	BWR	1067	1100	3293	TEPCO	HITACHI	1981-5	1986-12	1987-8	71.0	72.0	-
	JP -12	GENKAI-1	PWR	529	559	1650	KYUSHU	MHI	1971-9	1975-2	1975-10	72.0	72.0	-
	JP -27	GENKAI-2	PWR	529	559	1650	KYUSHU	MHI	1977-2	1980-6	1981-3	82.0	81.0	-
	JP -45	GENKAI-3	PWR	1127	1180	3423	KYUSHU	MHI	1988-6	1993-6	1994-3	86.0	85.0	DS
	JP -46	GENKAI-4	PWR	1127	1180	3423	KYUSHU	MHI	1992-7	1996-11	1997-7	86.0	85.0	DS
	JP -11	HAMAOKA-1	BWR	515	540	1593	CHUBU	TOSHIBA	1971-6	1974-8	1976-3	51.0	51.0	-
	JP -24	HAMAOKA-2	BWR	806	840	2436	CHUBU	TOSHIBA	1974-6	1978-5	1978-11	64.0	64.0	-
	JP -36	HAMAOKA-3	BWR	1056	1100	3293	CHUBU	TOSHIBA	1983-4	1987-1	1987-8	76.0	77.0	-
JP -49	HAMAOKA-4	BWR	1092	1137	3293	CHUBU	TOSHIBA	1989-10	1993-1	1993-9	80.0	81.0	-	

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. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applcs
	Code	Name		Net	Gross	Thermal								
JAPAN	JP -60	HAMAOKA-5	BWR	1325	1380	3926	CHUBU	TOSHIBA	2000-7	2004-4	2005-1	64.0	62.0	-
	JP -58	HIGASHI DORI 1 (TOHOKU)	BWR	1067	1100	3293	TOHOKU	TOSHIBA	2000-11	2005-3	2005-12	99.0	100.0	-
	JP -23	IKATA-1	PWR	538	566	1650	SHIKOKU	MHI	1973-6	1977-2	1977-9	77.0	78.0	DS
	JP -32	IKATA-2	PWR	538	566	1650	SHIKOKU	MHI	1978-2	1981-8	1982-3	81.0	81.0	DS
	JP -47	IKATA-3	PWR	846	890	2660	SHIKOKU	MHI	1986-11	1994-3	1994-12	87.0	85.0	DS
	JP -33	KASHIWAZAKI KARIWA-1	BWR	1067	1100	3293	TEPCO	TOSHIBA	1980-6	1985-2	1985-9	72.0	73.0	-
	JP -39	KASHIWAZAKI KARIWA-2	BWR	1067	1100	3293	TEPCO	TOSHIBA	1985-11	1990-2	1990-9	75.0	76.0	-
	JP -52	KASHIWAZAKI KARIWA-3	BWR	1067	1100	3293	TEPCO	TOSHIBA	1989-3	1992-12	1993-8	73.0	74.0	-
	JP -53	KASHIWAZAKI KARIWA-4	BWR	1067	1100	3293	TEPCO	HITACHI	1990-3	1993-12	1994-8	72.0	73.0	-
	JP -40	KASHIWAZAKI KARIWA-5	BWR	1067	1100	3293	TEPCO	HITACHI	1985-6	1989-9	1990-4	79.0	79.0	-
	JP -55	KASHIWAZAKI KARIWA-6	BWR	1315	1356	3926	TEPCO	TOSHIBA	1992-11	1996-1	1996-11	84.0	84.0	-
	JP -56	KASHIWAZAKI KARIWA-7	BWR	1315	1356	3926	TEPCO	HITACHI	1993-7	1996-12	1997-7	78.0	78.0	-
	JP -4	MIHAMA-1	PWR	320	340	1031	KEPCO	WH	1967-2	1970-8	1970-11	51.0	55.0	-
	JP -6	MIHAMA-2	PWR	470	500	1456	KEPCO	WH	1968-5	1972-4	1972-7	62.0	62.0	-
	JP -14	MIHAMA-3	PWR	780	826	2440	KEPCO	MHI	1972-8	1976-2	1976-12	69.0	69.0	-
	JP -15	OHI-1	PWR	1120	1175	3423	KEPCO	WH	1972-10	1977-12	1979-3	66.0	66.0	DS
	JP -19	OHI-2	PWR	1120	1175	3423	KEPCO	WH	1972-12	1978-10	1979-12	72.0	72.0	DS
	JP -50	OHI-3	PWR	1127	1180	3423	KEPCO	MHI	1987-10	1991-6	1991-12	84.0	83.0	-
	JP -51	OHI-4	PWR	1127	1180	3423	KEPCO	MHI	1988-6	1992-6	1993-2	86.0	85.0	-
	JP -22	ONAGAWA-1	BWR	498	524	1593	TOHOKU	TOSHIBA	1980-7	1983-11	1984-6	70.0	72.0	-
	JP -54	ONAGAWA-2	BWR	796	825	2436	TOHOKU	TOSHIBA	1991-4	1994-12	1995-7	73.0	77.0	-

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. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applies
	Code	Name		Net	Gross	Thermal								
JAPAN	JP -57	ONAGAWA-3	BWR	796	825	2436	TOHOKU	TOSHIBA	1998-1	2001-5	2002-1	73.0	73.0	-
	JP -28	SENDAI-1	PWR	846	890	2660	KYUSHU	MHI	1979-12	1983-9	1984-7	83.0	82.0	-
	JP -37	SENDAI-2	PWR	846	890	2660	KYUSHU	MHI	1981-10	1985-4	1985-11	84.0	83.0	-
	JP -48	SHIKA-1	BWR	505	540	1593	HOKURIKU	HITACHI	1989-7	1993-1	1993-7	79.0	80.0	-
	JP -59	SHIKA-2	BWR	1304	1358	3926	HOKURIKU	HITACHI	2001-8	2005-7	2006-3	34.0	34.0	-
	JP -7	SHIMANE-1	BWR	439	460	1380	CHUGOKU	HITACHI	1970-7	1973-12	1974-3	73.0	73.0	-
	JP -41	SHIMANE-2	BWR	789	820	2436	CHUGOKU	HITACHI	1985-2	1988-7	1989-2	82.0	82.0	-
	JP -8	TAKAHAMA-1	PWR	780	826	2440	KEPCO	WH/MHI	1970-4	1974-3	1974-11	68.0	67.0	-
	JP -13	TAKAHAMA-2	PWR	780	826	2440	KEPCO	MHI	1971-3	1975-1	1975-11	68.0	68.0	-
	JP -29	TAKAHAMA-3	PWR	830	870	2660	KEPCO	MHI	1980-12	1984-5	1985-1	84.0	83.0	DS
	JP -30	TAKAHAMA-4	PWR	830	870	2660	KEPCO	MHI	1981-3	1984-11	1985-6	86.0	84.0	DS
	JP -21	TOKAI-2	BWR	1060	1100	3293	JAPC	GE	1973-10	1978-3	1978-11	73.0	73.0	-
	JP -43	TOMARI-1	PWR	550	579	1650	HEPCO	MHI	1985-7	1988-12	1989-6	86.0	85.0	-
	JP -44	TOMARI-2	PWR	550	579	1650	HEPCO	MHI	1986-5	1990-8	1991-4	84.0	83.0	-
	JP -3	TSURUGA-1	BWR	340	357	1070	JAPC	GE	1966-11	1969-11	1970-3	68.0	72.0	-
	JP -34	TSURUGA-2	PWR	1110	1160	3411	JAPC	MHI	1982-11	1986-6	1987-2	81.0	81.0	-
KOREA RP	KR -1	KORI-1	PWR	573	603	1723	KHNP	WH	1972-8	1977-6	1978-4	75.0	78.0	-
	KR -2	KORI-2	PWR	637	675	1876	KHNP	WH	1977-12	1983-4	1983-7	87.0	85.0	-
	KR -5	KORI-3	PWR	963	1004	2775	KHNP	WH	1979-10	1985-1	1985-9	88.0	84.0	-
	KR -6	KORI-4	PWR	967	1006	2775	KHNP	WH	1980-4	1985-11	1986-4	90.0	86.0	-
	KR -9	ULCHIN-1	PWR	939	985	2775	KHNP	FRAM	1983-1	1988-4	1988-9	85.0	85.0	-

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. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applies	
	Code	Name		Net	Gross	Thermal									
KOREA RP	KR -10	ULCHIN-2	PWR	937	984	2775	KHNP	FRAM	1983-7	1989-4	1989-9	88.0	86.0	-	
	KR -13	ULCHIN-3	PWR	994	1047	2825	KHNP	DHICKOPC	1993-7	1998-1	1998-8	90.0	90.0	-	
	KR -14	ULCHIN-4	PWR	993	1045	2825	KHNP	DHICKOPC	1993-11	1998-12	1999-12	92.0	89.0	-	
	KR -19	ULCHIN-5	PWR	994	1048	2825	KHNP	DHICKOPC	1999-10	2003-12	2004-7	90.0	89.0	-	
	KR -20	ULCHIN-6	PWR	991	1048	2825	KHNP	DHICKOPC	2000-9	2005-1	2005-6	91.0	90.0	-	
	KR -3	WOLSONG-1	PHWR	578	622	2064	KHNP	AECL	1977-10	1982-12	1983-4	86.0	86.0	-	
	KR -4	WOLSONG-2	PHWR	684	730	2061	KHNP	AECL/DHI	1992-9	1997-4	1997-7	94.0	91.0	-	
	KR -15	WOLSONG-3	PHWR	682	729	2061	KHNP	AECL/DHI	1994-3	1998-3	1998-7	94.0	92.0	-	
	KR -16	WOLSONG-4	PHWR	685	730	2061	KHNP	AECL/DHI	1994-7	1999-5	1999-10	97.0	93.0	-	
	KR -7	YONGGWANG-1	PWR	945	985	2775	KHNP	WH	1981-6	1986-3	1986-8	89.0	87.0	-	
	KR -8	YONGGWANG-2	PWR	939	978	2775	KHNP	WH	1981-12	1986-11	1987-6	87.0	85.0	-	
	KR -11	YONGGWANG-3	PWR	985	1039	2825	KHNP	DHICKAEC	1989-12	1994-10	1995-3	91.0	89.0	-	
	KR -12	YONGGWANG-4	PWR	988	1039	2825	KHNP	DHICKAEC	1990-5	1995-7	1996-1	92.0	89.0	-	
	KR -17	YONGGWANG-5	PWR	987	1046	2825	KHNP	DHICKOPC	1997-6	2001-12	2002-5	84.0	82.0	-	
	KR -18	YONGGWANG-6	PWR	993	1050	2825	KHNP	DHICKOPC	1997-11	2002-9	2002-12	86.0	85.0	-	
	LITHUANIA	LT -47	IGNALINA-2	LWGR	1185	1300	4800	INPP	MAEP	1978-1	1987-8	1987-8	60.0	73.0	-
	MEXICO	MX -1	LAGUNA VERDE-1	BWR	680	682	2027	CFE	GE	1976-10	1989-4	1990-7	77.0	82.0	-
		MX -2	LAGUNA VERDE-2	BWR	680	682	2027	CFE	GE	1977-6	1994-11	1995-4	79.0	83.0	-
NETHERLANDS	NL -2	BORSSELE	PWR	482	515	1366	EPZ	KWU/STOR	1969-7	1973-7	1973-10	82.0	87.0	-	
PAKISTAN	PK -2	CHASNUPP 1	PWR	300	325	999	PAEC	CNNC	1993-8	2000-6	2000-9	70.0	72.0	-	

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applies
	Code	Name		Net	Gross	Thermal								
PAKISTAN	PK -1	KANUPP	PHWR	125	137	433	PAEC	CGE	1966-8	1971-10	1972-12	26.0	43.0	DS
ROMANIA	RO -1	CERNAVODA-1	PHWR	655	706	2180	SNN	AECL	1982-7	1996-7	1996-12	86.0	87.0	DH
RUSSIA	RU -96	BALAKOVO-1	PWR	950	1000	3000	REA	FAEA	1980-12	1985-12	1986-5	62.0	68.0	DH,PH
	RU -97	BALAKOVO-2	PWR	950	1000	3000	REA	FAEA	1981-8	1987-10	1988-1	61.0	67.0	DH,PH
	RU -98	BALAKOVO-3	PWR	950	1000	3000	REA	FAEA	1982-11	1988-12	1989-4	66.0	73.0	DH,PH
	RU -99	BALAKOVO-4	PWR	950	1000	3200	REA	FAEA	1984-4	1993-4	1993-12	71.0	78.0	DH,PH
	RU -21	BELOYARSKY-3(BN-600)	FBR	560	600	1470	REA	FAEA	1969-1	1980-4	1981-11	74.0	75.0	DH,PH
	RU -141	BILIBINO-1	LWGR	11	12	62	REA	FAEA	1970-1	1974-1	1974-4	58.0	80.0	DH
	RU -142	BILIBINO-2	LWGR	11	12	62	REA	FAEA	1970-1	1974-12	1975-2	57.0	81.0	DH
	RU -143	BILIBINO-3	LWGR	11	12	62	REA	FAEA	1970-1	1975-12	1976-2	59.0	81.0	DH
	RU -144	BILIBINO-4	LWGR	11	12	62	REA	FAEA	1970-1	1976-12	1977-1	58.0	78.0	DH
	RU -30	KALININ-1	PWR	950	1000	3000	REA	FAEA	1977-2	1984-5	1985-6	71.0	71.0	DH,PH
	RU -31	KALININ-2	PWR	950	1000	3000	REA	FAEA	1982-2	1986-12	1987-3	71.0	73.0	DH,PH
	RU -36	KALININ-3	PWR	950	1000	3200	REA	FAEA	1985-10	2004-12	2005-11	77.0	77.0	-
	RU -12	KOLA-1	PWR	411	440	1375	REA	FAEA	1970-5	1973-6	1973-12	65.0	76.0	DH,PH
	RU -13	KOLA-2	PWR	411	440	1375	REA	FAEA	1973-1	1974-12	1975-2	65.0	76.0	DH,PH
	RU -32	KOLA-3	PWR	411	440	1375	REA	FAEA	1977-4	1981-3	1982-12	72.0	82.0	DH,PH
	RU -33	KOLA-4	PWR	411	440	1375	REA	FAEA	1976-8	1984-10	1984-12	71.0	81.0	DH,PH
	RU -17	KURSK-1	LWGR	925	1000	3200	REA	FAEA	1972-6	1976-12	1977-10	57.0	60.0	DH,PH
RU -22	KURSK-2	LWGR	925	1000	3200	REA	FAEA	1973-1	1979-1	1979-8	60.0	63.0	DH,PH	

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. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applcs
	Code	Name		Net	Gross	Thermal								
RUSSIA	RU -38	KURSK-3	LWGR	925	1000	3200	REA	FAEA	1978-4	1983-10	1984-3	71.0	73.0	DH,PH
	RU -39	KURSK-4	LWGR	925	1000	3200	REA	FAEA	1981-5	1985-12	1986-2	75.0	76.0	DH,PH
	RU -15	LENINGRAD-1	LWGR	925	1000	3200	REA	FAEA	1970-3	1973-12	1974-11	68.0	69.0	DH,PH
	RU -16	LENINGRAD-2	LWGR	925	1000	3200	REA	FAEA	1970-6	1975-7	1976-2	68.0	69.0	DH,PH
	RU -34	LENINGRAD-3	LWGR	925	1000	3200	REA	FAEA	1973-12	1979-12	1980-6	69.0	71.0	DH,PH
	RU -35	LENINGRAD-4	LWGR	925	1000	3200	REA	FAEA	1975-2	1981-2	1981-8	71.0	73.0	DH,PH
	RU -9	NOVOVORONEZH-3	PWR	385	417	1375	REA	FAEA	1967-7	1971-12	1972-6	71.0	72.0	DH,PH
	RU -11	NOVOVORONEZH-4	PWR	385	417	1375	REA	FAEA	1967-7	1972-12	1973-3	77.0	79.0	DH,PH
	RU -20	NOVOVORONEZH-5	PWR	950	1000	3000	REA	FAEA	1974-3	1980-5	1981-2	61.0	62.0	DH,PH
	RU -23	SMOLENSK-1	LWGR	925	1000	3200	REA	FAEA	1975-10	1982-12	1983-9	70.0	73.0	DH,PH
	RU -24	SMOLENSK-2	LWGR	925	1000	3200	REA	FAEA	1976-6	1985-5	1985-7	73.0	76.0	DH,PH
	RU -67	SMOLENSK-3	LWGR	925	1000	3200	REA	FAEA	1984-5	1990-1	1990-10	78.0	81.0	DH,PH
	RU -59	VOLGODONSK-1	PWR	950	1000	3200	REA	FAEA	1981-9	2001-3	2001-12	86.0	85.0	-
S.AFRICA	ZA -1	KOEBERG-1	PWR	900	944	2785	ESKOM	FRAM	1976-7	1984-4	1984-7	67.0	75.0	-
	ZA -2	KOEBERG-2	PWR	900	944	2785	ESKOM	FRAM	1976-7	1985-7	1985-11	67.0	76.0	-
SLOVAKIA	SK -3	BOHUNICE-2	PWR	408	440	1375	EBO	AEE	1972-4	1980-3	1981-1	74.0	77.0	-
	SK -13	BOHUNICE-3	PWR	408	440	1375	SE,plc	SKODA	1976-12	1984-8	1985-2	75.0	80.0	DH
	SK -14	BOHUNICE-4	PWR	408	440	1375	SE,plc	SKODA	1976-12	1985-8	1985-12	77.0	82.0	DH
	SK -6	MOCHOVCE-1	PWR	405	440	1375	SE,plc	SKODA	1983-10	1998-7	1998-10	78.0	83.0	-
	SK -7	MOCHOVCE-2	PWR	405	440	1375	SE,plc	SKODA	1983-10	1999-12	2000-4	75.0	83.0	-

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. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applies
	Code	Name		Net	Gross	Thermal								
SLOVENIA	SI -1	KRSKO	PWR	666	730	1994	NEK	WH	1975-3	1981-10	1983-1	80.0	84.0	-
SPAIN	ES -6	ALMARAZ-1	PWR	944	977	2729	CNAT	WH	1973-7	1981-5	1983-9	84.0	86.0	-
	ES -7	ALMARAZ-2	PWR	956	980	2729	CNAT	WH	1973-7	1983-10	1984-7	87.0	87.0	-
	ES -8	ASCO-1	PWR	995	1033	2931	ANAV	WH	1974-5	1983-8	1984-12	84.0	85.0	-
	ES -9	ASCO-2	PWR	997	1027	2910	ANAV	WH	1975-3	1985-10	1986-3	86.0	88.0	-
	ES -10	COFRENTES	BWR	1064	1092	3237	ID	GE	1975-9	1984-10	1985-3	87.0	88.0	-
	ES -2	SANTA MARIA DE GARONA	BWR	446	466	1381	NUCLENOR	GE	1966-5	1971-3	1971-5	76.0	79.0	-
	ES -11	TRILLO-1	PWR	1003	1066	3010	CNAT	KWJ	1979-8	1988-5	1988-8	85.0	86.0	-
	ES -16	VANDELLOS-2	PWR	1045	1087	2941	ANAV	WH	1980-12	1987-12	1988-3	84.0	84.0	-
	SWEDEN	SE -9	FORSMARK-1	BWR	1016	1025	2928	FKA	ABBATOM	1973-6	1980-6	1980-12	80.0	86.0
SE -11		FORSMARK-2	BWR	1000	1038	2928	FKA	ABBATOM	1975-1	1981-1	1981-7	80.0	86.0	-
SE -14		FORSMARK-3	BWR	1190	1212	3300	FKA	ABBATOM	1979-1	1985-3	1985-8	85.0	90.0	-
SE -2		OSKARSHAMN-1	BWR	467	487	1375	OKG	ABBATOM	1966-8	1971-8	1972-2	61.0	64.0	-
SE -3		OSKARSHAMN-2	BWR	602	623	1800	OKG	ABBATOM	1969-9	1974-10	1975-1	75.0	79.0	-
SE -12		OSKARSHAMN-3	BWR	1160	1197	3300	OKG	ABBATOM	1980-5	1985-3	1985-8	83.0	88.0	-
SE -4		RINGHALS-1	BWR	843	860	2500	RAB	ABBATOM	1969-2	1974-10	1976-1	68.0	73.0	-
SE -5		RINGHALS-2	PWR	867	917	2660	RAB	WH	1970-10	1974-8	1975-5	67.0	74.0	-
SE -7		RINGHALS-3	PWR	1045	1095	3000	RAB	WH	1972-9	1980-9	1981-9	71.0	80.0	-
SE -10		RINGHALS-4	PWR	907	960	2775	RAB	WH	1973-11	1982-6	1983-11	76.0	86.0	-
SWITZERLAND	CH -1	BEZNAU-1	PWR	365	380	1130	NOK	WH	1965-9	1969-7	1969-9	82.0	87.0	DH

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. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applies
	Code	Name		Net	Gross	Thermal								
SWITZERLAND	CH -3	BEZNAU-2	PWR	365	380	1130	NOK	WH	1968-1	1971-10	1971-12	87.0	87.0	DH
	CH -4	GOESGEN	PWR	970	1020	2900	KKG	KWU	1973-12	1979-2	1979-11	88.0	89.0	DH
	CH -5	LEIBSTADT	BWR	1165	1220	3138	KKL	GETSCO	1974-1	1984-5	1984-12	80.0	86.0	-
	CH -2	MUEHLEBERG	BWR	355	372	1097	BKW	GETSCO	1967-3	1971-7	1972-11	86.0	87.0	-
UK	GB -18A	DUNGENESS-B1	GCR	545	615	1500	BE	APC	1965-10	1983-4	1985-4	42.0	45.0	-
	GB -18B	DUNGENESS-B2	GCR	545	615	1500	BE	APC	1965-10	1985-12	1989-4	50.0	50.0	-
	GB -19A	HARTLEPOOL-A1	GCR	595	655	1500	BE	NPC	1968-10	1983-8	1989-4	71.0	73.0	-
	GB -19B	HARTLEPOOL-A2	GCR	595	655	1500	BE	NPC	1968-10	1984-10	1989-4	75.0	77.0	-
	GB -20A	HEYSHAM-A1	GCR	585	625	1500	BE	NPC	1970-12	1983-7	1989-4	74.0	76.0	-
	GB -20B	HEYSHAM-A2	GCR	575	625	1500	BE	NPC	1970-12	1984-10	1989-4	71.0	73.0	-
	GB -22A	HEYSHAM-B1	GCR	615	680	1550	BE	NPC	1980-8	1988-7	1989-4	73.0	76.0	-
	GB -22B	HEYSHAM-B2	GCR	615	680	1550	BE	NPC	1980-8	1988-11	1989-4	73.0	76.0	-
	GB -16A	HINKLEY POINT-B1	GCR	620	655	1494	BE	TNPG	1967-9	1976-10	1978-10	77.0	77.0	-
	GB -16B	HINKLEY POINT-B2	GCR	600	655	1494	BE	TNPG	1967-9	1976-2	1976-9	72.0	75.0	-
	GB -17A	HUNTERSTON-B1	GCR	610	644	1496	BE	TNPG	1967-11	1976-2	1976-2	70.0	79.0	-
	GB -17B	HUNTERSTON-B2	GCR	605	644	1496	BE	TNPG	1967-11	1977-3	1977-3	69.0	81.0	-
	GB -11A	OLDBURY-A1	GCR	217	230	730	BNFL	TNPG	1962-5	1967-11	1967-12	77.0	87.0	-
	GB -11B	OLDBURY-A2	GCR	217	230	660	BNFL	TNPG	1962-5	1968-4	1968-9	74.0	72.0	-
	GB -24	SIZEWELL-B	PWR	1196	1250	3425	BE	PPC	1988-7	1995-2	1995-9	83.0	85.0	-
	GB -23A	TORNESS 1	GCR	625	682	1623	BE	NNC	1980-8	1988-5	1988-5	68.0	75.0	-
GB -23B	TORNESS 2	GCR	625	682	1623	BE	NNC	1980-8	1989-2	1989-2	67.0	73.0	-	

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. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applies
	Code	Name		Net	Gross	Thermal								
UK	GB -13A	WYLFA 1	GCR	490	540	1920	BNFL	EE/B&W/T	1963-9	1971-1	1971-11	70.0	85.0	-
	GB -13B	WYLFA 2	GCR	490	540	1920	BNFL	EE/B&W/T	1963-9	1971-7	1972-1	59.0	59.0	-
UKRAINE	UA -40	KHMELNITSKI-1	PWR	950	1000	3000	NNEGC	PAIP	1981-11	1987-12	1988-8	72.0	72.0	DH
	UA -41	KHMELNITSKI-2	PWR	950	1000	3000	NNEGC	PAIP	1985-2	2004-8	2005-12	(1)	(1)	-
	UA -27	ROVNO-1	PWR	381	420	1375	NNEGC	PAIP	1973-8	1980-12	1981-9	80.0	81.0	DH
	UA -28	ROVNO-2	PWR	376	415	1375	NNEGC	PAIP	1973-10	1981-12	1982-7	79.0	81.0	DH
	UA -29	ROVNO-3	PWR	950	1000	3000	NNEGC	PAIP	1980-2	1986-12	1987-5	69.0	73.0	DH
	UA -69	ROVNO-4	PWR	950	1000	3000	NNEGC	PAA	1986-8	2004-10	2006-4	(1)	(1)	-
	UA -44	SOUTH UKRAINE-1	PWR	950	1000	3000	NNEGC	PAA	1977-3	1982-12	1983-10	66.0	66.0	DH
	UA -45	SOUTH UKRAINE-2	PWR	950	1000	3000	NNEGC	PAA	1979-10	1985-1	1985-4	61.0	62.0	DH
	UA -48	SOUTH UKRAINE-3	PWR	950	1000	3000	NNEGC	PAA	1985-2	1989-9	1989-12	72.0	73.0	DH
	UA -54	ZAPOROZHE-1	PWR	950	1000	3000	NNEGC	PAIP	1980-4	1984-12	1985-12	61.0	64.0	DH
	UA -56	ZAPOROZHE-2	PWR	950	1000	3000	NNEGC	PAIP	1981-1	1985-7	1986-2	64.0	68.0	DH
	UA -78	ZAPOROZHE-3	PWR	950	1000	3000	NNEGC	PAIP	1982-4	1986-12	1987-3	66.0	70.0	DH
	UA -79	ZAPOROZHE-4	PWR	950	1000	3000	NNEGC	PAIP	1983-4	1987-12	1988-4	71.0	75.0	DH
	UA -126	ZAPOROZHE-5	PWR	950	1000	3000	NNEGC	PAIP	1985-11	1989-8	1989-10	72.0	74.0	DH
UA -127	ZAPOROZHE-6	PWR	950	1000	3000	NNEGC	PAIP	1986-6	1995-10	1996-9	77.0	80.0	DH	
USA	US -313	ARKANSAS ONE-1	PWR	836	880	2568	ENTGYARK	B&W	1968-12	1974-8	1974-12	73.0	78.0	-
	US -368	ARKANSAS ONE-2	PWR	998	1040	3026	ENTERGY	CE	1968-12	1978-12	1980-3	82.0	82.0	-
	US -334	BEAVER VALLEY-1	PWR	851	923	2689	FENOC	WH	1970-6	1976-6	1976-10	67.0	70.0	-
	US -412	BEAVER VALLEY-2	PWR	851	923	2689	FENOC	WH	1974-5	1987-8	1987-11	81.0	85.0	-

(1) Performance factors calculated only for period of full commercial operation, and only to 2005.

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. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applics
	Code	Name		Net	Gross	Thermal								
USA	US -456	BRAIDWOOD-1	PWR	1178	1240	3587	EXELON	WH	1975-12	1987-7	1988-7	84.0	86.0	-
	US -457	BRAIDWOOD-2	PWR	1152	1213	3587	EXELON	WH	1975-12	1988-5	1988-10	87.0	89.0	-
	US -260	BROWNS FERRY-2	BWR	1118	1155	3458	TVA	GE	1967-5	1974-8	1975-3	60.0	63.0	-
	US -296	BROWNS FERRY-3	BWR	1114	1190	3458	TVA	GE	1968-7	1976-9	1977-3	50.0	51.0	-
	US -325	BRUNSWICK-1	BWR	938	990	2923	PROGENGC	GE	1970-2	1976-12	1977-3	69.0	72.0	-
	US -324	BRUNSWICK-2	BWR	937	989	2923	PROGENGC	GE	1970-2	1975-4	1975-11	67.0	71.0	-
	US -454	BYRON-1	PWR	1164	1225	3587	EXELON	WH	1975-12	1985-3	1985-9	82.0	86.0	-
	US -455	BYRON-2	PWR	1136	1196	3587	EXELON	WH	1975-12	1987-2	1987-8	87.0	91.0	-
	US -483	CALLAWAY-1	PWR	1190	1236	3565	AMEREN	WH	1976-4	1984-10	1984-12	86.0	88.0	-
	US -317	CALVERT CLIFFS-1	PWR	873	918	2700	CONST	CE	1969-7	1975-1	1975-5	76.0	76.0	-
	US -318	CALVERT CLIFFS-2	PWR	862	911	2700	CONST	CE	1969-7	1976-12	1977-4	79.0	80.0	-
	US -413	CATAWBA-1	PWR	1129	1188	3411	DUKE	WH	1975-8	1985-1	1985-6	81.0	83.0	-
	US -414	CATAWBA-2	PWR	1129	1188	3411	DUKE	WH	1975-8	1986-5	1986-8	82.0	84.0	-
	US -461	CLINTON-1	BWR	1052	1098	3473	AMERGENE	GE	1976-2	1987-4	1987-11	68.0	72.0	-
	US -397	COLUMBIA	BWR	1131	1200	3486	ENERGYNW	GE	1972-2	1984-5	1984-12	70.0	77.0	-
	US -445	COMANCHE PEAK-1	PWR	1150	1189	3458	TXU	WH	1974-12	1990-4	1990-8	83.0	88.0	-
	US -446	COMANCHE PEAK-2	PWR	1150	1189	3458	TXU	WH	1974-12	1993-4	1993-8	85.0	89.0	-
	US -298	COOPER	BWR	760	801	2381	NPPD	GE	1968-6	1974-5	1974-7	69.0	74.0	-
	US -302	CRYSTAL RIVER-3	PWR	838	890	2568	PROGRESS	B&W	1968-9	1977-1	1977-3	69.0	71.0	-
	US -346	DAVIS BESSE-1	PWR	891	925	2772	FENOC	B&W	1971-3	1977-8	1978-7	63.0	66.0	-
US -275	DIABLO CANYON-1	PWR	1122	1136	3338	PGE	WH	1968-4	1984-11	1985-5	84.0	85.0	-	

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applies
	Code	Name		Net	Gross	Thermal								
USA	US -323	DIABLO CANYON-2	PWR	1087	1164	3411	PGE	WH	1970-12	1985-10	1986-3	86.0	88.0	-
	US -315	DONALD COOK-1	PWR	1016	1077	3304	IMPCO	WH	1969-3	1975-2	1975-8	65.0	68.0	-
	US -316	DONALD COOK-2	PWR	1077	1133	3468	IMPCO	WH	1969-3	1978-3	1978-7	62.0	66.0	-
	US -237	DRESDEN-2	BWR	867	913	2527	EXELON	GE	1966-1	1970-4	1970-6	65.0	76.0	-
	US -249	DRESDEN-3	BWR	867	913	2527	EXELON	GE	1966-10	1971-7	1971-11	65.0	72.0	-
	US -331	DUANE ARNOLD-1	BWR	581	614	1912	FPLDUANE	GE	1970-6	1974-5	1975-2	72.0	77.0	-
	US -341	ENRICO FERMI-2	BWR	1111	1154	3430	DETED	GE	1972-9	1986-9	1988-1	73.0	76.0	-
	US -348	FARLEY-1	PWR	851	895	2775	ALP	WH	1972-8	1977-8	1977-12	80.0	82.0	-
	US -364	FARLEY-2	PWR	860	905	2775	ALP	WH	1972-8	1981-5	1981-7	84.0	87.0	-
	US -333	FITZPATRICK	BWR	852	882	2536	ENERGY	GE	1970-5	1975-2	1975-7	72.0	75.0	-
	US -285	FORT CALHOUN-1	PWR	478	512	1500	OPPD	CE	1968-6	1973-8	1973-9	74.0	79.0	-
	US -416	GRAND GULF-1	BWR	1266	1333	3833	ENERGY	GE	1974-9	1984-10	1985-7	86.0	86.0	-
	US -261	H.B. ROBINSON-2	PWR	710	745	2339	PROGRESS	WH	1967-4	1970-9	1971-3	75.0	78.0	-
	US -321	HATCH-1	BWR	876	898	2804	SOUTH	GE	1969-9	1974-11	1975-12	76.0	79.0	-
	US -366	HATCH-2	BWR	883	921	2804	SOUTH	GE	1972-12	1978-9	1979-9	77.0	81.0	-
	US -354	HOPE CREEK-1	BWR	1059	1139	3339	PSEG	GE	1976-3	1986-8	1986-12	81.0	84.0	-
	US -247	INDIAN POINT-2	PWR	1020	1062	3216	ENERGY	WH	1966-10	1973-6	1974-8	68.0	70.0	-
	US -286	INDIAN POINT-3	PWR	1025	1065	3216	ENERGY	WH	1969-8	1976-4	1976-8	63.0	66.0	-
	US -305	KEWAUNEE	PWR	556	581	1772	DOMENGY	WH	1968-8	1974-4	1974-6	81.0	82.0	-
	US -373	LASALLE-1	BWR	1118	1177	3489	EXELON	GE	1973-9	1982-9	1984-1	70.0	73.0	-
	US -374	LASALLE-2	BWR	1120	1179	3489	EXELON	GE	1973-9	1984-4	1984-10	70.0	72.0	-



TABLE 10. REACTORS IN OPERATION, 31 DEC. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applcs
	Code	Name		Net	Gross	Thermal								
USA	US -352	LIMERICK-1	BWR	1134	1194	3458	EXELON	GE	1974-6	1985-4	1986-2	85.0	88.0	-
	US -353	LIMERICK-2	BWR	1134	1194	3458	EXELON	GE	1974-6	1989-9	1990-1	91.0	92.0	-
	US -369	MCGUIRE-1	PWR	1100	1158	3411	DUKE	WH	1973-2	1981-9	1981-12	76.0	80.0	-
	US -370	MCGUIRE-2	PWR	1100	1158	3411	DUKE	WH	1973-2	1983-5	1984-3	81.0	83.0	-
	US -336	MILLSTONE-2	PWR	882	910	2700	DOMIN	CE	1970-12	1975-11	1975-12	62.0	64.0	-
	US -423	MILLSTONE-3	PWR	1155	1253	3411	DOMIN	WH	1974-8	1986-2	1986-4	71.0	73.0	-
	US -263	MONTICELLO	BWR	572	600	1775	NORTHERN	GE	1967-6	1971-3	1971-6	79.0	84.0	-
	US -220	NINE MILE POINT-1	BWR	621	642	1850	NMPNSLLC	GE	1965-4	1969-11	1969-12	67.0	72.0	-
	US -410	NINE MILE POINT-2	BWR	1135	1205	3467	NMPNSLLC	GE	1974-6	1987-8	1988-3	78.0	81.0	-
	US -338	NORTH ANNA-1	PWR	924	973	2893	VEPCO	WH	1971-2	1978-4	1978-6	78.0	81.0	-
	US -339	NORTH ANNA-2	PWR	910	958	2893	VEPCO	WH	1971-2	1980-8	1980-12	82.0	85.0	-
	US -269	OCONEE-1	PWR	846	891	2568	DUKE	B&W	1967-11	1973-5	1973-7	75.0	79.0	-
	US -270	OCONEE-2	PWR	846	891	2568	DUKE	B&W	1967-11	1973-12	1974-9	77.0	80.0	-
	US -287	OCONEE-3	PWR	846	891	2568	DUKE	B&W	1967-11	1974-9	1974-12	77.0	79.0	-
	US -219	OYSTER CREEK	BWR	619	652	1930	AMERGEN	GE	1964-12	1969-9	1969-12	68.0	73.0	-
	US -255	PALISADES	PWR	778	842	2565	CONSENEC	CE	1967-3	1971-12	1971-12	63.0	68.0	-
	US -528	PALO VERDE-1	PWR	1314	1414	3990	AZPSCO	CE	1976-5	1985-6	1986-1	74.0	76.0	-
	US -529	PALO VERDE-2	PWR	1314	1414	3990	AZPSCO	CE	1976-6	1986-5	1986-9	79.0	79.0	-
	US -530	PALO VERDE-3	PWR	1247	1346	3990	AZPSCO	CE	1976-6	1987-11	1988-1	82.0	83.0	-
	US -277	PEACH BOTTOM-2	BWR	1112	1171	3514	EXELON	GE	1968-1	1974-2	1974-7	69.0	72.0	-
	US -278	PEACH BOTTOM-3	BWR	1112	1171	3514	EXELON	GE	1968-1	1974-9	1974-12	70.0	72.0	-

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applies
	Code	Name		Net	Gross	Thermal								
USA	US -440	PERRY-1	BWR	1235	1303	3758	FENOC	GE	1977-5	1986-12	1987-11	77.0	79.0	-
	US -293	PILGRIM-1	BWR	685	711	2028	ENERGY	GE	1968-8	1972-7	1972-12	64.0	68.0	-
	US -266	POINT BEACH-1	PWR	512	543	1540	WEP	WH	1967-7	1970-11	1970-12	77.0	83.0	-
	US -301	POINT BEACH-2	PWR	514	545	1540	WEP	WH	1968-7	1972-8	1972-10	81.0	83.0	-
	US -282	PRAIRIE ISLAND-1	PWR	523	566	1650	NORTHERN	WH	1968-6	1973-12	1973-12	85.0	85.0	-
	US -306	PRAIRIE ISLAND-2	PWR	522	544	1650	NUCMAN	WH	1969-6	1974-12	1974-12	87.0	87.0	-
	US -254	QUAD CITIES-1	BWR	867	913	2957	EXELON	GE	1967-2	1972-4	1973-2	70.0	75.0	-
	US -265	QUAD CITIES-2	BWR	867	913	2511	EXELON	GE	1967-2	1972-5	1973-3	68.0	74.0	-
	US -244	R.E. GINNA	PWR	560	608	1775	CONST	WH	1966-4	1969-12	1970-7	80.0	83.0	-
	US -458	RIVER BEND-1	BWR	966	1036	3091	ENTGS	GE	1977-3	1985-12	1986-6	78.0	81.0	-
	US -272	SALEM-1	PWR	1174	1228	3459	PSEGPOWR	WH	1968-9	1976-12	1977-6	62.0	65.0	-
	US -311	SALEM-2	PWR	1130	1170	3459	PSEGPOWR	WH	1968-9	1981-6	1981-10	63.0	67.0	-
	US -361	SAN ONOFRE-2	PWR	1070	1127	3438	SCE	CE	1974-3	1982-9	1983-8	81.0	80.0	-
	US -362	SAN ONOFRE-3	PWR	1080	1127	3438	SCE	CE	1974-3	1983-9	1984-4	80.0	81.0	-
	US -443	SEABROOK-1	PWR	1244	1296	3587	FPL	WH	1976-7	1990-5	1990-8	84.0	85.0	-
	US -327	SEQUOYAH-1	PWR	1150	1221	3411	TVA	WH	1970-5	1980-7	1981-7	67.0	69.0	-
	US -328	SEQUOYAH-2	PWR	1127	1221	3411	TVA	WH	1970-5	1981-12	1982-6	70.0	73.0	-
	US -400	SHEARON HARRIS-1	PWR	900	960	2900	PROGENGC	WH	1978-1	1987-1	1987-5	85.0	87.0	-
	US -498	SOUTH TEXAS-1	PWR	1280	1354	3853	STP	WH	1975-12	1988-3	1988-8	77.0	78.0	-
	US -499	SOUTH TEXAS-2	PWR	1280	1354	3853	STP	WH	1975-12	1989-4	1989-6	79.0	80.0	-
	US -335	ST. LUCIE-1	PWR	839	883	2700	FPL	CE	1970-7	1976-5	1976-12	81.0	81.0	-

TABLE 10. REACTORS IN OPERATION, 31 DEC. 2006 — continued

Country	Reactor		Type	Capacity MW(e)			Operator	NSSS Supplier	Construction Start	Grid Connection	Commercial Operation	LF % to 2005	UCF % to 2005	Non- Electrical Applcs
	Code	Name		Net	Gross	Thermal								
USA	US -389	ST. LUCIE-2	PWR	839	883	2700	FPL	CE	1977-5	1983-6	1983-8	85.0	86.0	-
	US -280	SURRY-1	PWR	799	848	2546	VEPCO	WH	1968-6	1972-7	1972-12	71.0	73.0	-
	US -281	SURRY-2	PWR	799	848	2546	VEPCO	WH	1968-6	1973-3	1973-5	72.0	74.0	-
	US -387	SUSQUEHANNA-1	BWR	1135	1199	3489	PP&L	GE	1973-11	1982-11	1983-6	81.0	83.0	-
	US -388	SUSQUEHANNA-2	BWR	1140	1204	3489	PP&L	GE	1973-11	1984-7	1985-2	85.0	86.0	-
	US -289	THREE MILE ISLAND-1	PWR	786	837	2568	AMERGENE	B&W	1968-5	1974-6	1974-9	70.0	86.0	-
	US -250	TURKEY POINT-3	PWR	693	729	2300	FPL	WH	1967-4	1972-11	1972-12	71.0	76.0	-
	US -251	TURKEY POINT-4	PWR	693	729	2300	FPL	WH	1967-4	1973-6	1973-9	72.0	76.0	-
	US -271	VERMONT YANKEE	BWR	605	650	1912	ENERGY	GE	1967-12	1972-9	1972-11	81.0	83.0	-
	US -395	VIRGIL C. SUMMER-1	PWR	966	1003	2900	SCEG	WH	1973-3	1982-11	1984-1	80.0	83.0	-
	US -424	VOGTLE-1	PWR	1152	1203	3565	SOUTH	WH	1976-8	1987-3	1987-6	89.0	89.0	-
	US -425	VOGTLE-2	PWR	1149	1202	3565	SOUTH	WH	1976-8	1989-4	1989-5	89.0	90.0	-
	US -382	WATERFORD-3	PWR	1158	1200	3716	ENERGY	CE	1974-11	1985-3	1985-9	85.0	86.0	-
	US -390	WATTS BAR-1	PWR	1121	1202	3459	TVA	WH	1973-1	1996-2	1996-5	88.0	89.0	-
	US -482	WOLF CREEK	PWR	1166	1213	1213	KGECO	WH	1977-5	1985-6	1985-9	85.0	85.0	-

Status as of 31 December 2006, 435 reactors (369682 MW(e)) were connected to the grid, including 6 units (4921 MW(e)) in Taiwan, China:

CHIN SHAN-1, BWR, 604 MW(e);  
 CHIN SHAN-2, BWR, 604 MW(e);  
 KUOSHENG-1, BWR, 985 MW(e);  
 KUOSHENG-2, BWR, 948 MW(e);  
 MAANSHAN-1, PWR, 890 MW(e);  
 MAANSHAN-2, PWR, 890 MW(e).

TABLE 11. LONG-TERM SHUT DOWN REACTORS, 31 DEC. 2006

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation	Shutdown Date
	Code	Name		Net	Gross							
CANADA	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
	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
JAPAN	JP - 31	MONJU	FBR	246	280	JAEA	T/H/F/M	1986-5	1994-4	1995-8	—	1995-12
USA	US - 259	BROWNS FERRY-1	PWR	1065	1152	TVA	OKBM	1967-5	1973-8	1973-10	1974-8	1985-3

Status as of 31 December 2006, 6 reactors (3879 MW(e)) were in long-term shutdown.

TABLE 12. REACTORS SHUT DOWN, 31 DEC. 2006

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	PWR	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	PWR	408	440	KOZNPP	AEE	1970-4	1974-6	1974-7	1974-10	2002-12
	BG -2	KOZLODUY-2	PWR	408	440	KOZNPP	AEE	1970-4	1975-8	1975-8	1975-11	2002-12
	BG -3	KOZLODUY-3	PWR	408	440	KOZNPP	AEE	1973-10	1980-12	1980-12	1981-1	2006-12
	BG -4	KOZLODUY-4	PWR	408	440	KOZNPP	AEE	1973-10	1982-4	1982-5	1982-6	2006-12
CANADA	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	ROLPHTON NPD	PHWR	22	25	OH	CGE	1958-1	1962-4	1962-6	1962-10	1987-8
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	GAAA	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
	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

TABLE 12. REACTORS SHUT DOWN, 31 DEC. 2006 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation	Shut Down
	Code	Name		Net	Gross							
GERMANY	DE -502	GREIFSWALD-1(KGR 1)	PWR	408	440	EWN	AEE,KAB	1970-3	1973-12	1973-12	1974-7	1990-2
	DE -503	GREIFSWALD-2 (KGR 2)	PWR	408	440	EWN	AEE,KAB	1970-3	1974-12	1974-12	1975-4	1990-2
	DE -504	GREIFSWALD-3 (KGR 3)	PWR	408	440	EWN	AEE,KAB	1972-4	1977-10	1977-10	1978-5	1990-2
	DE -505	GREIFSWALD-4 (KGR 4)	PWR	408	440	EWN	AEE,KAB	1972-4	1979-7	1979-9	1979-11	1990-7
	DE -506	GREIFSWALD-5 (KGR 5)	PWR	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
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

TABLE 12. REACTORS SHUT DOWN, 31 DEC. 2006 — continued

Country	Reactor		Type	Capacity MW(e)		Operator	NSSS Supplier	Construction Start	First Criticality	Grid Connection	Commercial Operation	Shut Down
	Code	Name		Net	Gross							
JAPAN	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
KAZAKHSTAN	KZ -10	BN-350	FBR	52	90	KATEII	MAEC	1964-10	1972-11	1973-7	1973-7	1999-4
LITHUANIA	LT -46	IGNALINA-1	LWGR	1185	1300	INPP	MAEP	1977-5	1983-10	1983-12	1984-5	2004-12
NETHLND	NL -1	DODEWAARD	BWR	55	60	GKN(NL)	RDM	1965-5	1968-6	1968-10	1969-3	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	PWR	197	210	REA	FAEA	1957-7	1963-12	1964-9	1964-12	1988-2
	RU -8	NOVOVORONEZH-2	PWR	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	1977-2
	SK -2	BOHUNICE-1	PWR	408	440	EBO	AEE	1972-4	1978-11	1978-12	1980-4	2006-12
SPAIN	ES -1	JOSE CABRERA-1(ZORITA)	PWR	141	150	UFG	WH	1964-6	1968-6	1968-7	1969-8	2006-4
	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	615	615	BKAB	ABBATOM	1973-1	1977-2	1977-3	1977-7	2005-5
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

TABLE 12. REACTORS SHUT DOWN, 31 DEC. 2006 — 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 -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	1958-1	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 -9A	DUNGENESS-A1	GCR	225	230	BNFL	TNPG	1960-7	1965-6	1965-9	1965-10	2006-12
	GB -9B	DUNGENESS-A2	GCR	225	230	BNFL	TNPG	1960-7	1965-9	1965-11	1965-12	2006-12
	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 -10A	SIZEWELL-A1	GCR	210	245	BNFL	EE/B&W/T	1961-4	1965-6	1966-1	1966-3	2006-12
	GB -10B	SIZEWELL-A2	GCR	210	245	BNFL	EE/B&W/T	1961-4	1965-12	1966-4	1966-9	2006-12
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	GCR	32	41	UKAEA	VARIOUS	1958-11	1962-8	1963-2	1963-3	1981-4	



TABLE 12. REACTORS SHUT DOWN, 31 DEC. 2006 — 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 -12		WINFRITH SGHWR	SGHWR							
UKRAINE	UA -25	CHERNOBYL-1	LWGR	725	800	MTE	FAEA	1970-3	1977-8	1977-9	1978-5	1996-11
	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	1964-4	1964-8	1965-9	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 -18	GE VALLECITOS	BWR	24	24	GE	GE	1956-1	1957-8	1957-10	1957-10	1963-12
	US -213	HADDAM NECK	PWR	560	603	CYAPC	WH	1964-5	1967-7	1967-8	1968-1	1996-12
	US -77	HALLAM	X	75	84	AEC/NPPD	GE	1959-1	1963-1	1963-9	1963-11	1964-9
	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

TABLE 12. REACTORS SHUT DOWN, 31 DEC. 2006 — 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 -D02	PIQUA	X	12	12	CofPiqua	GE	1960-1	1961-1	1963-7	1963-11	1966-1
	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 -146	SAXTON	PWR	3	3	SNEC	GE	1960-1	1967-1	1967-3	1967-3	1972-5
	US -001	SHIPPINGPORT	PWR	60	68	DOE DUQU	WH	1954-1	1957-1	1957-12	1958-5	1982-10
	US -322	SHOREHAM	BWR	820	849	LILCO	GE	1972-11	1985-2	1986-8	—	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
	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 2006, 119 reactors (35165 MW(e)) are permanently shut down.



TABLE 13. ANNUAL CONSTRUCTION STARTS AND CONNECTIONS TO THE GRID, 1955 TO 2006

Year	Construction Starts		Connections to the Grid		Reactors in operation	
	Units	MW(e)	Units	MW(e)	Units	MW(e)
1955	8	352	1	50	1	5
1956	5	577			2	55
1957	13	1747	3	134	5	189
1958	6	434	1	50	6	239
1959	7	906	5	238	11	479
1960	11	910	4	452	15	931
1961	7	1384	1	15	16	946
1962	7	1237	9	893	25	1839
1963	5	1600	9	457	33	2266
1964	9	2694	8	1036	40	3227
1965	9	3144	8	1679	48	4908
1966	14	6878	8	1371	55	6274
1967	23	14788	11	2093	64	8319
1968	32	22955	6	1051	68	9348
1969	15	11551	10	3664	78	13047
1970	34	23410	6	3472	84	16561
1971	13	8056	15	7243	99	23934
1972	29	22485	15	8517	113	32571
1973	29	24286	19	11571	132	43745
1974	27	24380	26	17433	154	61156
1975	32	31020	15	10340	169	70580
1976	33	31360	18	13680	186	84116
1977	19	16691	17	12358	200	96443
1978	14	13030	20	16247	219	111882
1979	25	22230	8	6945	225	117951
1980	20	19355	21	15579	245	133122
1981	15	14204	23	20570	267	153937
1982	14	15726	19	15689	284	168486
1983	9	7597	23	19006	306	187824
1984	7	7095	33	31788	336	218516
1985	13	11066	33	31481	363	245752
1986	6	5196	27	27304	389	270932
1987	8	7737	22	22231	407	293927
1988	5	5881	14	13912	416	305298
1989	6	4053	12	10687	420	312087
1990	4	2459	10	10481	416	318386
1991	2	2291	4	3668	415	321974
1992	3	3126	6	4806	418	325045
1993	4	3602	9	8997	427	333945
1994	2	1367	5	4251	429	336952
1995			4	3328	434	341429
1996	1	610	6	7029	438	347327
1997	5	4466	3	3679	433	347625
1998	3	2096	4	3074	430	344166
1999	4	4594	4	2787	432	347486
2000	6	5363	6	3111	435	349852
2001	1	1304	3	2733	438	352753
2002	5	2440	6	5059	439	357438
2003	1	202	2	1644	437	359889
2004	2	1336	5	4785	438	364807
2005	3	2900	4	3852	441	368239
2006	4	3320	2	1490	435	369682

TABLE 14. 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		2006	
	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	1	80
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	74
ITALY			1	101												
JAPAN	8	46	11	58	10	48	8	50	10	58	3	45	4	47		
KAZAKHSTAN	1	106														
KOREA RP			1	59	4	65	4	63	2	61	5	56	4	54		
LITHUANIA							1	116								
MEXICO							1	151	1	210						
NETHERLANDS	1	49														

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

TABLE 14. 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		2006	
	No.	Months	No.	Months	No.	Months	No.	Months	No.	Months	No.	Months	No.	Months	No.	Months
PAKISTAN	1	63									1	83				
ROMANIA											1	169				
RUSSIA	9	52	6	83	9	76	4	69	1	109			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										
SWITZERLAND	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	22	146	1	223	1	279				
WORLD MEDIAN VALUE	93	61	86	71	131	84	85	93	29	89	23	121	20	59	2	77

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. PERFORMANCE FACTORS BY REACTOR CATEGORY, 2003 to 2005

Reactor Category	Reactors reporting to IAEA PRIS (see note)					
	Number of Units	Availability Factor %	Capability Factor %	Forced Loss Rate %	Operating Factor %	Load Factor %
PHWR 100-599 MWe	21	70.8	75.4	6.3	66.1	72.9
PHWR >= 600MWe	20	85.5	86.3	2.7	85.7	86.8
GCR	22	73.0	73.2	13.8	73.1	79.4
PWR 100-599 MWe	52	82.1	84.1	2.8	81.4	84.8
PWR >= 600 MWe	217	85.1	86.1	2.4	83.6	85.9
BWR 100-599 MWe	16	71.3	72.8	2.9	71.2	73.3
BWR >= 600 MWe	78	77.9	78.3	2.8	76.4	77.7
FBR	2	73.2	74.0	7.0	72.9	78.0
LWGR<600 MWe	4	38.0	77.7	.0	28.1	76.3
LWGR >= 600 MWe	13	71.9	74.2	2.1	71.8	76.6
TOTAL	445	82.2	83.2	2.9	80.9	82.6

Note: 2005 is the latest year for which operating experience data are currently available to the IAEA.

TABLE 16. AVERAGE FULL OUTAGE STATISTICS DURING 2005

Reactor Type	Number of Units In the World	Full Outage Hours per Operating Experience Year	% Planned Outages	% Unplanned Outages	% External Outages
PHWR < 600 MWe	21	2021	71.7	23.1	5.2
PHWR 600 MWe	20	1216	77.4	22.6	
GCR	22	2006	63.4	36.6	
PWR < 600 MWe	52	1358	82.4	15.7	1.9
PWR 600 MWe	216	1187	79.9	18.4	1.7
BWR < 600 MWe	16	2297	58.6	30.8	10.6
BWR 600 MWe	78	1834	73.5	23.2	3.4
FBR	2	1783	100.0		
LWGR < 600 MWe	4	1846	99.9	0.1	
LWGR 600 MWe	12	1846	98.0	1.3	0.7
ALL REACTORS	443	1469	77.7	20.0	2.3

Notes:

- 2005 is the latest year for which outage information is currently available to the IAEA;
- Reactors shut down during 2005 (2 units) are considered.



TABLE 17. CAUSES OF FULL OUTAGES DURING 2005

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 problem/failure	1680	0.5	1742	0.4	77100	70.7	96940	67.8
Refuelling without a maintenance	11986	3.4	12460	2.8				
Inspection, maintenance or repair combined with refuelling	296810	83.2	349553	77.4	6326	5.8	6592	4.6
Inspection, maintenance or repair without refuelling	37420	10.5	66039	14.6	894	0.8	1042	0.7
Testing of plant systems or components	2244	0.6	3015	0.7	223	0.2	547	0.4
Major back-fitting, refurbishment or upgrading activities with refuelling	5153	1.4	15857	3.5				
Nuclear regulatory requirements					578	0.5	699	0.5
Grid failure or grid unavailability					1355	1.2	4140	2.9
Load-following (frequency control, reserve shutdown due to reduced energy demand)					1858	1.7	3026	2.1

TABLE 17. CAUSES OF OUTAGES DURING 2005 — 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	%
Human factor related					2930	2.7	3407	2.4
Governmental requirements or court decisions	2	0.0	6	0.0				
Environmental conditions (flood, storm, lightning, lack of cooling water, cooling water temperature limits etc.)					6107	5.6	8825	6.2
Fire					497	0.5	581	0.4
External restrictions on supply and services.					80	0.1	87	0.1
Fuel management limitation (including high flux tilt, stretch out or coast-down operation)					619	0.6	995	0.7
Other	1475	0.4	3168	0.7	10542	9.7	16015	11.2
TOTAL	356770	100.0	451840	100.0	109109	100.0	142896	100.0

Note: 2005 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 2005 are considered.

TABLE 18. CAUSES OF FULL OUTAGES, 1971 TO 2005

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 problem/failure	16691	0.2	23385	0.2	3014947	72.1	4067961	74.1
Refuelling without a maintenance	23729	0.2	28320	0.2	79707	1.9	103215	1.9
Inspection, maintenance or repair combined with refuelling	8288339	81.4	10398963	76.3	73379	1.8	93613	1.7
Inspection, maintenance or repair without refuelling	1578134	15.5	2725301	20.0	22012	0.5	25087	0.5
Testing of plant systems or components	76087	0.7	97944	0.7	27695	0.7	40793	0.7
Major back-fitting, refurbishment or upgrading activities with refuelling	50020	0.5	81949	0.6	396	0.0	567	0.0
Nuclear regulatory requirements	60896	0.6	147811	1.1	299471	7.2	357610	6.5
Grid failure or grid unavailability	26	0.0	122	0.0	40637	1.0	91480	1.7
Load-following (frequency control, reserve shutdown due to reduced energy demand)	88199	0.9	111466	0.8	513269	12.3	580723	10.6

TABLE 18. CAUSES OF FULL OUTAGES, 1971 TO 2005— 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	%
Human factor related	181	0.0	176	0.0	19955	0.5	24369	0.4
Governmental requirements or court decisions	2	0.0	6	0.0	214	0.0	279	0.0
Environmental conditions (flood, storm, lightning, lack of cooling water, cooling water temperature limits etc.)					13145	0.3	16404	0.3
Fire					2081	0.0	2427	0.0
External restrictions on supply and services					783	0.0	1078	0.0
Fuel management limitation (including high flux tilt, stretch out or coast-down operation)	545	0.0	598	0.0	997	0.0	1572	0.0
Others	3652	0.0	7697	0.1	71141	1.7	85739	1.6
<b>TOTAL</b>	<b>10186501</b>	<b>100.0</b>	<b>13623738</b>	<b>100.0</b>	<b>4179829</b>	<b>100.0</b>	<b>5492917</b>	<b>100.0</b>

Note: 2005 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 2005 are considered.

TABLE 19. COUNTRIES - Abbreviations and Summary

Country Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
AM	ARMENIA	1			1
AR	ARGENTINA	2	1		
BE	BELGIUM	7			1
BG	BULGARIA	2	2		4
BR	BRAZIL	2			
CA	CANADA	18		4	3
CH	SWITZERLAND	5			
CN	CHINA	10	4		
CZ	CZECH REPUBLIC	6			
DE	GERMANY	17			19
ES	SPAIN	8			2
FI	FINLAND	4	1		
FR	FRANCE	59			11
GB	UNITED KINGDOM	19			26
HU	HUNGARY	4			
IN	INDIA	16	7		
IR	IRAN, ISLAMIC REPUBLIC OF		1		
IT	ITALY				4
JP	JAPAN	55	1	1	3
KR	KOREA, REPUBLIC OF	20	1		

TABLE 19. COUNTRIES - Abbreviations and Summary — continued

Country Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
KZ	KAZAKHSTAN				1
LT	LITHUANIA, REPUBLIC OF	1			1
MX	MEXICO	2			
NL	NETHERLANDS	1			1
PK	PAKISTAN	2	1		
RO	ROMANIA	1	1		
RU	RUSSIAN FEDERATION	31		5	5
SE	SWEDEN	10			3
SI	SLOVENIA	1			
SK	SLOVAK REPUBLIC	5			2
UA	UKRAINE	15	2		4
US	UNITED STATES OF AMERICA	103			28
ZA	SOUTH AFRICA	2			
TOTAL		435	29	6	119

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

— 6 units in operation; 2 units under construction.



TABLE 20. REACTOR TYPES - Abbreviations and Summary

Type Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
BWR	Boiling Light-Water-Cooled and Moderated Reactor	93	2	1	21
FBR	Fast Breeder Reactor	2	2	1	6
GCR	Gas-Cooled, Graphite-Moderated Reactor	18			34
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
LWGR	Light-Water-Cooled, Graphite-Moderated Reactor	16	1		8
PHWR	Pressurized Heavy-Water-Moderated and Cooled Reactor	42	6	4	5
PWR	Pressurized Light-Water-Moderated and Cooled Reactor	264	18		33
SGHWR	Steam-Generating Heavy-Water Reactor				1
X	Others				2
TOTAL		435	29	6	119



TABLE 21. OPERATORS - Abbreviations and Summary

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
AEC/NPPD	HALLAM NUCLEAR POWER FACILITY				1
AEOI	ATOMIC ENERGY ORGANIZATION OF IRAN		1		
ALP	ALABAMA POWER CO.	2			
AMERGEN	AMERGEN ENERGY CO.	1			
AMERGENE	AMERGEN ENERGY GENERATING CO.	3			
ANAV	ASOCIACION NUCLEAR ASCO-VANDELLOS A.I.E. (ENDESA/ID)	3			
ANPPJSC	JOINT STOCK COMPANY ARMENIAN NPP	1			1
AVR	ARBEITSGEMEINSCHAFT VERSUCHSREAKTOR GMBH				1
AZPSCO	ARIZONA PUBLIC SERVICE CO.	3			
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 LIMITED	4			22
BRUCEPOW	BRUCE POWER	6		2	
BV GKN	BV GEMEENSCHAPPELIJKE KERNENERGIECENTRALE NEDERLAND (BV GKN)				1
CCNPP	CALVERT CLIFFS NUCLEAR POWER PLANT INC.	3			
CEA/EDF	COMMISSARIAT A L'ENERGIE ATOMIQUE / ELECTRICITE DE FRANCE	1			
CEN/SCK	CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE / STUDIECENTRUM VOOR KERNENERGIE				1
CEZ	CZECH POWER COMPANY , CEZ A.S.	6			
CFE	COMISION FEDERAL DE ELECTRICIDAD	2			

TABLE 21. OPERATORS - Abbreviations and Summary — continued

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
CHUBU	CHUBU ELECTRIC POWER CO.,INC.	5			
CHUGOKU	THE CHUGOKU ELECTRIC POWER CO,INC.	2			
CNAT	CENTRALES NUCLEARES ALMARAZ-TRILLO(ID/UFG/ENDESA/HC/NUCLENOR )	3			
CofPiqua	CITY OF PIQUA GOVERNMENT				1
COGEMA	COMPAGNIE GENERALE DES MATIERES NUCLEAIRES				2
CONSENEC	CONSUMERS ENERGY CO.	1			
CPC	CONSUMERS POWER CO.				1
CVPA	CAROLINAS-VIRGINIA NUCLEAR POWER ASSOC.				1
CYAPC	CONNECTICUT YANKEE ATOMIC POWER CO.				1
DETED	DETROIT EDISON CO.	1			1
DOE DUQU	DEPARTMENT OF ENERGY AND DUQUESNE LIGHT CO.				1
DOE/PRWR	DOE & PUERTO RICO WATER RESOURCES				1
DOMENGY	DOMINION ENERGY KEWAUNEE	1			
DOMIN	DOMINION VIRGINIA POWER	2			1
DPC	DAIRYLAND POWER COOPERATIVE				1
DUKE	DUKE POWER CO.	7			
E.ON	E.ON KERNKRAFT GMBH	5			1
EDF	ELECTRICITE DE FRANCE	58			7
ELECTRAB	ELECTRABEL M. V. NUCLEAIRE PRODUKTIE	7			
ELETRONU	ELETRONUCLEAR SA - ELETRONUCLEAR	2			
EnBW	ENBW KRAFTWERKE AG				1

TABLE 21. OPERATORS - Abbreviations and Summary — continued

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
ENERGYNW	ENERGY NORTHWEST	1			
EnKK	ENBW KERNKRAFT GMBH(SITZ IN OBRIGHEIM)	4			
ENERGY	ENTERGY NUCLEAR	8			1
ENTGS	ENTERGY GULF STATES INC.	1			
ENTGYARK	ENTERGY ARKANSAS, INC.	1			
EPZ	N.V. ELEKTRICITEITS-PRODUKTIEMAATSCHAPPIJ ZUID-NEDERLAND	1			
ESKOM	ESKOM	2			
EWN	ENERGIEWERKE NORD GMBH				6
EXELON	EXELON GENERATION	14			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			
FPLDUANE	FPL ENERGY DUANE ARNOLD	1			
GE	GENERAL ELECTRIC				1
GNPJVC	GUANDONG NUCLEAR POWER JOINT VENTURE COMPANY LIMITED(GNPJVC)	2			
GPU	GENERAL PUBLIC UTILITIES				1
HDR	HEISSDAMPFREAKTOR-BETRIEBSGESELLSCHAFT MBH.				1
HEPCO	HOKKAIDO ELECTRIC POWER CO.,INC.	2	1		
HIFRENSA	HISPANO-FRANCESA DE ENERGIA NUCLEAR, S.A.				1
HKG	HOCHTEMPERATUR-KERNKRAFTWERK GMBH				1

TABLE 21. OPERATORS - Abbreviations and Summary — continued

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
HOKURIKU	HOKURIKU ELECTRIC POWER CO.	2			
HQ	HYDRO QUEBEC	1			1
ID	IBERDROLA, S.A.	1			
IMPCO	INDIANA MICHIGAN POWER CO.	2			
INPP	IGNALINA NUCLEAR POWER PLANT	1			1
JAEA	JAPAN ATOMIC ENERGY AGENCY			1	2
JAPCO	JAPAN ATOMIC POWER CO.	3			1
JAVYS	JADROVA VYRADOVACIA SPOLOCNOST/NUCLEAR DECOMMISSIONING COMPANY, PLC./	1			2
JNPC	JIANGSU NUCLEAR POWER CORPORATION	1	1		
KBG	KERNKRAFTWERK-BETRIEBSGESELLSCHAFT MBH				2
KEPCO	KANSAI ELECTRIC POWER CO.	11			
KGB	KERNKRAFTWERKE GUNDREMMINGEN BETRIEBSGESELLSCHAFT MBH				1
KGECO	KANSAS GAS ANE ELECTRIC CO.	1			
KGG	KERNKRAFTWERK GUNDREMMINGEN GMBH	2			1
KHNP	KOREA HYDRO AND NUCLEAR POWER CO.	20	1		
KKB	KERNKRAFTWERK BRUNSBÜTTEL GMBH	1			
KKG	KERNKRAFTWERK GOESGEN-DAENIKEN AG	1			
KKK	KERNKRAFTWERK KRÜMMEL GMBH & CO. OHG	1			
KKL	KERNKRAFTWERK LEIBSTADT	1			
KKN	KERNKRAFTWERK NIEDERAICHBACH GMBH				1
KLE	KERNKRAFTWERKE LIPPE-EMS GMBH	1			

TABLE 21. OPERATORS - Abbreviations and Summary — continued

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
KOZNPP	KOZLODUY NPP-PLC	2	2		4
KWVG	GEMEINSCHAFTSKERNKRAFTWERK GROHNDE GMBH & CO. OHG	1			
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.		2		
LIPA	LONG ISLAND POWER AUTHORITY				1
MAEC-KAZ	MAEC-KAZATOMPROM, LIMITED LIABILITY COMPANY				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		
NBEP	NEW BRUNSWICK ELECTRIC POWER COMMISSION	1			
NEK	NUKLEARNA ELEKTRARNA KRSKO	1			
NERSA	CENTRALE NUCLEAIRE EUROPEENE A NEUTRONS RAPIDES S.A.				1
NMPNSLLC	NINE MILE POINT NUCLEAR STATION, LLC	2			
NNEG	NATIONAL NUCLEAR ENERGY GENERATING COMPANY <ENERGOATOM>	15	2		
NOK	NORDOSTSCHWEIZERISCHE KRAFTWERKE	2			
NORTHERN	NORTHERN STATES POWER CO.	2			
NPCIL	NUCLEAR POWER CORPORATION OF INDIA LTD.	16	6		
NPPD	NEBRASKA PUBLIC POWER DISTRICT	1			
NPQJVC	NUCLEAR POWER PLANT QINSHAN JOINT VENTURE COMPANY LTD.	2	1		

TABLE 21. OPERATORS - Abbreviations and Summary — continued

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
NUCLENOR	NUCLENOR, S.A.	1			
NUCMAN	NUCLEAR MANAGEMENT CO.	1			1
OH	ONTARIO HYDRO				1
OKG	OKG AKTIEBOLAG	3			
OPG	ONTARIO POWER GENERATION	10		2	1
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
PORTGE	PORTLAND GENERAL ELECTRIC CO.				1
PP&L	PENNSYLVANIA POWER & LIGHT CO.	2			
PROGENGC	PROGRESS ENERGY CAROLINAS, INC.	3			
PROGRESS	PROGRESS ENERGY CORPORATION	2			
PSCC	PUBLIC SERVICE CO. OF COLORADO				1
PSEG	PUBLIC SERVICE ELECTRIC & GAS CO.	1			
PSEGPOWER	PSEG POWER, INC.	2			
QNPC	QINSHAN NUCLEAR POWER COMPANY	1			
RAB	RINGHALS AB	4			
RCPA	RURAL COOPERATIVE POWER ASSOC.				1
REA	ROSENERGOATOM, CONSORTIUM	31	5		5

TABLE 21. OPERATORS - Abbreviations and Summary — continued

Operator Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
RWE	RWE POWER AG	2			
SCE	SOUTHERN CALIFORNIA EDISON	2			1
SCEG	SOUTH CAROLINA ELECTRIC & GAS CO.	1			
SE,plc	SLOVENSKÉ ELEKTRÁRNE, A.S.	4			
SENA	SOCIETE D'ENERGIE NUCLEAIRE FRANCO-BELGE DES ARDENNES				1
SHIKOKU	SHIKOKU ELECTRIC POWER CO.,INC	3			
SMUD	SACRAMENTO MUNICIPAL UTILITY DISTRICT				1
SNEC	SAXTON NUCLEAR EXPERIMENTAL REACTOR CORPORATION				1
SNN	SOCIETATEA NATIONALA NUCLEARELECTRICA S.A.	1	1		
SOGIN	SOCIETA GESTIONE IMPANTI NUCLEARI				4
SOUTH	SOUTHERN NUCLEAR OPERATING CO.	4			
STP	STP NUCLEAR OPERATING CO.	2			
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	5		1	1
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





TABLE 22. NSSS SUPPLIERS - Abbreviations and Summary

NSSS Supplier Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
A/F/W	ASSOCIATION ACEC.FRAMATOME ET WESTINGHOUSE.				1
ABBATOM	ABBATOM (FORMERLY ASEA-ATOM)	7			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	9			5
AEE&ZAES	FOREIGN ECONOMIC PUBLIC LIMITED CO. ATOMENERGOEXPORT, RUSSIA&RUSSIA PRODUCTION	1	1		
AEG	ASSOCIATION ZARUBEZHATOMENERGOSTROY 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
APC	ATOMIC POWER CONSTRUCTION LTD.	2			2
AREVA	AREVA, 27-29, RUE LE PELETIER, 75433 PARIS CEDEX 09URL: WWW.AREVA.COM		1		
ASE	ATOMSTROYEXPORT		3		
ASEASTAL	ASEA-ATOM / STAL-LAVAL	2			1
ASPALDO	ASPALDO				1

TABLE 22. NSSS SUPPLIERS - Abbreviations and Summary — continued

NSSS Supplier Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
AtEE	ATOMENERGOEXPORT				6
B&W	BABCOCK & WILCOX CO.	7			3
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
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 - NEYRPIE	1			
CNNC	CHINA NATIONAL NUCLEAR CORPORATION	4	2		
DFEC	DONGFANG ELECTRIC CORPORATION		2		
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	1		
EE/B&W/T	THE ENGLISH ELECTRIC CO. LTD / BABCOCK & WILCOX CO. / TAYLOR WOODROW CONSTRUCTION LTD.	2			4
FAEA	FEDERAL ATOMIC ENERGY AGENCY	32	2		9
FRAM	FRAMATOME	64			
FRAMACEC	FRAMACECO ( FRAMATOME-ACEC-COCKERILL )	2			
GA	GENERAL ATOMIC CORP.				2

TABLE 22. NSSS SUPPLIERS - Abbreviations and Summary — continued

NSSS Supplier Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
GAAA	GROUPEMENT ATOMIQUE ALSACIENNE ATLANTIQUE				1
GE	GENERAL ELECTRIC CO.	46	2	1	11
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
KWU	SIEMENS KRAFTWERK UNION AG	18			1
LEVIVIER	LEVIVIER				2
MAEC	MAEC-KAZATOMPROMMANGISHLAK ATOMIC ENERGY COMPLEX				1
MAEP	MINATOMENERGOPROM, MINISTRY OF NUCLEAR POWER AND INDUSTRY	1	2		1
MHI	MITSUBISHI HEAVY INDUSTRIES LTD.	18	1		
NEI.P	NEI PARSONS	2			
NNC	NATIONAL NUCLEAR CORPORATION	2			
NPC	NUCLEAR POWER CO. LTD.	6			

TABLE 22. NSSS SUPPLIERS - Abbreviations and Summary — continued

NSSS Supplier Code	Full Name	Number of Reactors, as of 31 Dec. 2006			
		Operational	Construction	LT Shut Down	Shut Down
NPCIL	NUCLEAR POWER CORPORATION OF INDIA LTD.VIKRAM SARABHAI BHAVAN, ANUSHAKTI NAGAR, MUMBAI - 400 094.	12	4		
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			
RDM	ROTTERDAMSE DROOGDOK MAATSCHAPPIJ (RDM) IN ROTTERDAM (NL)				1
S/KWU	SIEMENS/KRAFTWERK UNION AG	1			
SACM	SOCIETE ALSACIENNE DE CONSTRUCTIONS MECANIQUES				2
SIEM,KWU	SIEMENS AG, KRAFTWERK UNION AG	2			2
SIEMENS	SIEMENS AG, POWER GENERATION,91058 ERLANGEN, GERMANY,WWW.POWERGENERATION.SIEMENS.COM	1	1		1
SKODA	SKODA CONCERN NUCLEAR POWER PLANT WORKS	10			1
T/H/F/M	TOSHIBA / HITACHI / FUJI ELECTRIC HOLDINGS / MITSUBISHI HEAVY INDUSTRIES			1	
TNPG	THE NUCLEAR POWER GROUP LTD.	6			8
TOSHIBA	TOSHIBA CORPORATION	17			
UEC	UNITED ENGINEERS AND CONTRACTORS				1
UKAEA	UNITED KINGDOM ATOMIC ENERGY AUTHORITY				9
VARIOUS	VARIOUS				4
WH	WESTINGHOUSE ELECTRIC CORPORATION AND SIEMENS	72			11
WH/MHI	WESTINGHOUSE ELECTRIC CORPORATION / MITSUBISHI HEAVY INDUSTRIES LTD.	1			
not specified			6		1
TOTAL		435	29	6	119

TABLE 23. REACTORS IN DECOMMISSIONING PROCESS OR DECOMMISSIONED, 31 Dec.2006

Country	Reactor		Shut down	Shutdown reason	Decom. Strategy	Current decom. Phase	Current Fuel managemt phase	Decom. Licensee	License terminate
	Code	Name							
ARMENIA	AM -18	ARMENIA-1	1989-2	Others	Other			ANPPJSC	
BELGIUM	BE -1	BR-3	1987-6	2, 5	lmdte.dism.	4, 9	4	CEN/SCK	
BULGARIA	BG -1	KOZLODUY-1	2002-12	Others	Dd+SE	5	6		
	BG -2	KOZLODUY-2	2002-12	Others	Dd+SE	5	6		
FRANCE	FR -9	BUGEY-1	1994-5	1, 2	lmdte.dism.	6		EDF	2020
	FR -2	CHINON-A1	1973-4	1, 2	lmdte.dism.			EDF	
	FR -3	CHINON-A2	1985-6	1, 2	lmdte.dism.	1		EDF	2025
	FR -4	CHINON-A3	1990-6	1, 2	lmdte.dism.			EDF	
	FR -5	CHOOZ-A(ARDENNES)	1991-10	Others	lmdte.dism.	4, 9		SENA	2019
	FR -6	EL-4 (MONTS D'ARREE)	1985-7	1, 2	lmdte.dism.	6, 9		EDF	2015
	FR -7	ST. LAURENT-A1	1990-4	1, 2	lmdte.dism.			EDF	2027
	FR -8	ST. LAURENT-A2	1992-5	1, 2	lmdte.dism.			EDF	2025
	FR -24	SUPER*-PHENIX	1998-12	Others	lmdte.dism.	6	3, 6	NERSA	
GERMANY	DE -4	AVR JUELICH (AVR)	1988-12	1	lmdte.dism.				
	DE -502	GREIFSWALD-1(KGR 1)	1990-2	5	lmdte.dism.			EWN	
	DE -10	STADE (KKS)	2003-11	2	lmdte.dism.	3, 4, 6			2014
	DE -9	WUERGASSEN (KWW)	1994-8	2	lmdte.dism.	3, 4			
ITALY	IT -4	CAORSO	1990-7	7, Others	lmdte.dism.	6	3, 7	SOGIN	2016
	IT -2	GARIGLIANO	1982-3	3, 4, Others	lmdte.dism.	6		SOGIN	2015
	IT -3	ENRICO FERMI (TRINO)	1990-7	7, Others	lmdte.dism.	6	3, 7	SOGIN	2014

TABLE 23. REACTORS IN DECOMMISSIONING PROCESS OR DECOMMISSIONED, 31 Dec.2006 — continued

Country	Reactor		Shut down	Shutdown reason	Decom. Strategy	Current decom. Phase	Current Fuel managemt phase	Decom. Licensee	License terminate
	Code	Name							
ITALY	IT -1	LATINA	1987-12	7, Others	Imdte.dism.	6		SOGIN	2020
JAPAN	JP -1	JPDR	1976-3	Others	Imdte.dism.	3, 6, 7		JAERI	2002
	JP -2	TOKAI-1	1998-3	2	Dd+PD+SE			JAPCO	2018
	JP -20	FUGEN ATR	2003-3	2	Dd+SE			MINATOM	
KAZAKHSTAN	KZ -10	BN-350	1999-4	2, 5	Dd+PD+SE	1, 5, 6	3, 6	MAEC-KAZ	
LITHUANIA	LT -46	IGNALINA-1	2004-12	Others	Imdte.dism.	2	1, 2	INPP	2105
NETHERLANDS	NL -1	DODEWAARD	1997-3	2, Others	Dd+SE	7		BV GKN	2050
SLOVAKIA	SK -1	BOHUNICE A1	1977-2	4	Dd+PD+SE	3, 4, 5, 6		JAVYS	
SPAIN	ES -1	JOSE CABRERA-1(ZORITA)	2006-4	Others	Imdte.dism.	2, 3, 4		UFG	
SWEDEN	SE -1	AGESTA	1974-6	2, 3	Dd+SE	7		VAB	
	SE -6	BARSEBACK-1	1999-11	7	Dd+SE			VAB	
	SE -8	BARSEBACK-2	2005-5	Others	Other			BKAB	
USA	US -155	BIG ROCK POINT	1997-8	2	Imdte.dism.	3, 5	2 3	CPC	2005
	US -014	BONUS	1968-6	5, 6	in situ disp.			DOE/PRWR	
	US -144	CVTR	1967-1	7	Dd+SE			CVPA	
	US -10	DRESDEN-1	1978-10	6	Dd+SE			EXELON	
	US -011	ELK RIVER	1968-2	1	Imdte.dism.			RCPA	
US -16	ENRICO FERMI-1	1972-11	4	Dd+SE	DETED				
US -267	FORT ST. VRAIN	1989-8	1	Imdte.dism.	PSCC				

TABLE 23. REACTORS IN DECOMMISSIONING PROCESS OR DECOMMISSIONED, 31 Dec.2006 — continued

Country	Reactor		Shut down	Shutdown reason	Decom. Strategy	Current decom. Phase	Current Fuel managemt phase	Decom. Licensee	License terminate
	Code	Name							
USA	US -267	FORT ST. VRAIN	1989-8	1	Imdte.dism.			PSCC	
	US -018	GE VALLECITOS	1963-12	1	Dd+SE			GE&PGEC	
	US -213	HADDAM NECK	1996-12	6	Imdte.dism.	4, 5, 6	2, 3	CYAPC	
	US -077	HALLAM	1964-9	5	Dd+SE			AEC&NPPD	1971
	US -133	HUMBOLDT BAY	1976-7	5	Dd+PD+SE	3, 4, 6	7	PGE	2005
	US -013	INDIAN POINT-1	1974-10	5	Dd+PD+SE			ENTERGY	
	US -409	LACROSSE	1987-4	2	Dd+PD+SE	6	3, 6	DPC	
	US -309	MAINE YANKEE	1997-8	6	Imdte.dism.	4, 11		MYAPC	
	US -245	MILLSTONE-1	1998-7	6	Dd+PD+SE		3, 6, 7	DOMIN	
	US -130	PATHFINDER	1967-10	1	Dd+SE			NUCMAN	2004
	US -171	PEACH BOTTOM-1	1974-11	1	Dd+SE	1	2	EXELON	
	US -012	PIQUA	1966-1	1	in situ disp.	11		CofPiqua	
	US -312	RANCHO SECO-1	1989-6	5, 6	Dd+PD+SE			SMUD	2008
	US -206	SAN ONOFRE-1	1992-11	Others	Dd+PD+SE	4, 9	2, 3	SCE	
	US -146	SAXTON	1972-5	Others	Imdte.dism.			GPUNC	2003
	US -001	SHIPPINGPORT	1982-10	3	Imdte.dism.			DOE DUQU	1989
	US -322	SHOREHAM	1989-5	7, Others	Imdte.dism.			LIPA	1995
	US -320	THREE MILE ISLAND-2	1979-3	4	Dd+SE	11	4	GPU	
	US -344	TROJAN	1992-11	6	Dd+PD+SE	11	3	PORTGE	2011
	US -029	YANKEE NPS	1991-10	5, 7	Imdte.dism.	4, 6		YAEC	
US -295	ZION-1	1998-1	5, 6	Dd+PD+SE	1		CommonEd		
US -304	ZION-2	1998-1	5, 6	Dd+PD+SE	1		COMMED	2000	

## DEFINITIONS FOR THE TABLE 23

Shutdown reason	Description
1	The technology or process became obsolete
2	The process was no longer profitable
3	There were changes in licensing requirements
4	After an operating incident.
5	Other technological reasons
6	Other economical reasons
7	Public acceptance reasons
Other	Other shutdown reasons

Fuel Management	Description
1	Transfer to at reactor facility
2	Transfer to away from reactor facility
3	Storage in an on-site facility
4	Storage in an off-site facility
5	Shipment to a reprocessing plant
6	Under water storage
7	Dry storage
8	Encapsulation

Decommissioning strategy	Description
Imdte.dism.	Immediate dismantling and removal of all radioactive materials
Dd+SE	Deferred dismantling, placing all radiological areas into safe enclosure
Dd+PD+SE	Deferred dismantling with partial dismantling and remaining radiological areas in safe enclosure
In situ disp.	In situ disposal, involving encapsulation of radioactive materials and restriction of access
Other	Other decommissioning strategy

Current decommissioning phase	Description
1	Drawing up the Final Decommissioning Plan
2	Reactor core defuelling
3	Waste conditioning on site (Only for Decommissioning waste)
4	Waste shipment off site (Only for Decommissioning waste)
5	Safe enclosure preparation
6	Partial dismantling
7	Active safe enclosure period
8	Passive safe enclosure period
9	Final dismantling
10	Final survey
11	Licence terminated (Legal act at the end of the Decommissioning process)



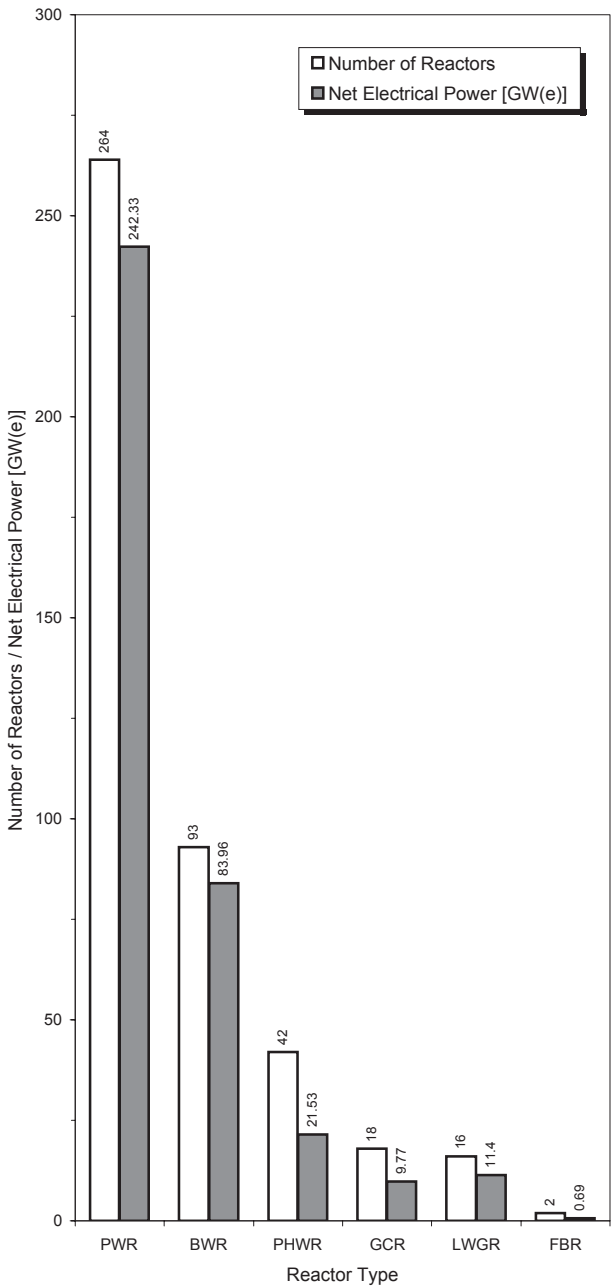


Figure 1. Nuclear reactors by type and net electrical power (as of 31 Dec. 2006)

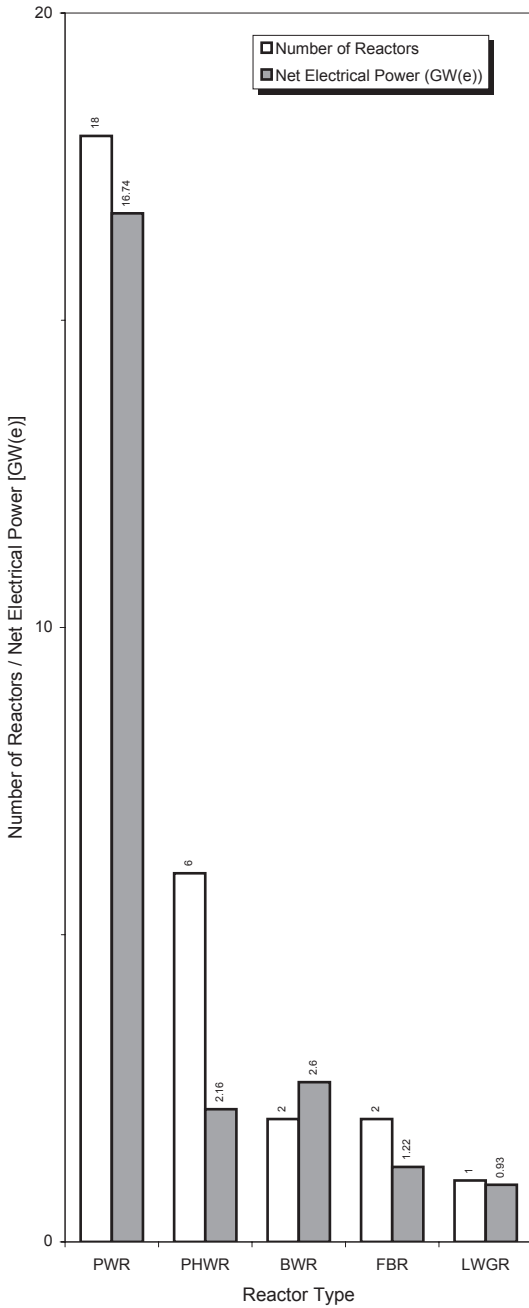


Figure 2. Reactors under construction by type and net electrical power (as of 31 Dec. 2006)

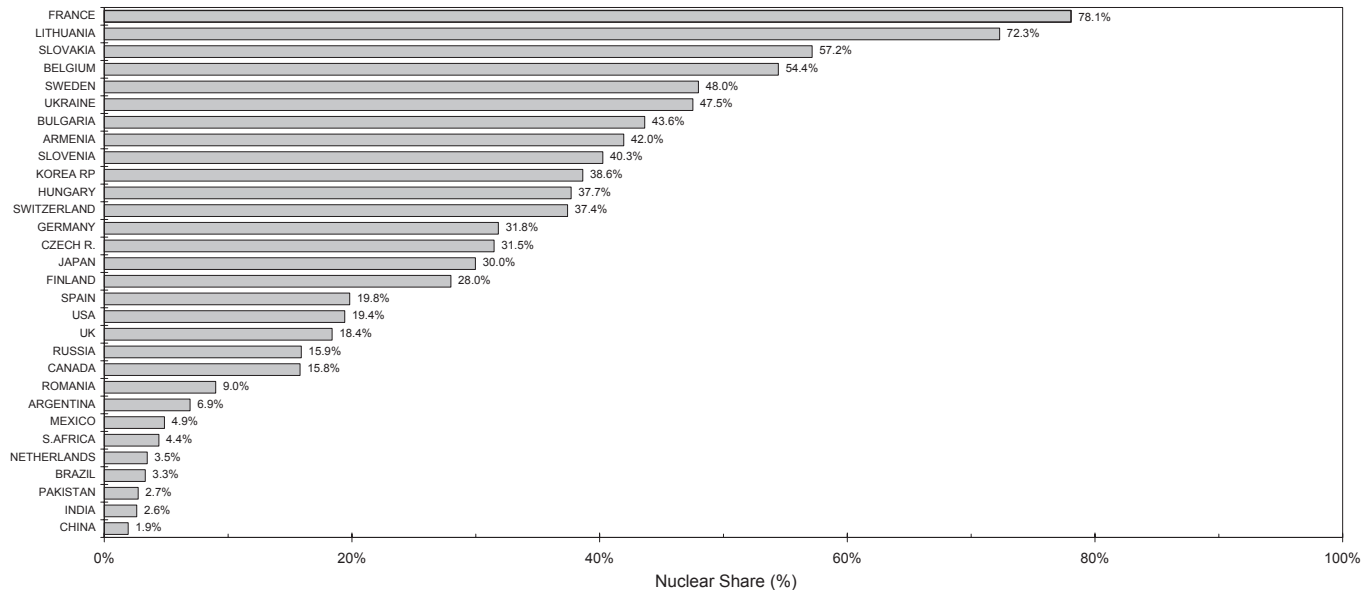


Figure 3. Nuclear share of electricity generation (as of 31 Dec. 2006)

Note: The nuclear share of electricity supplied in Taiwan, China was 19.5% of the total.

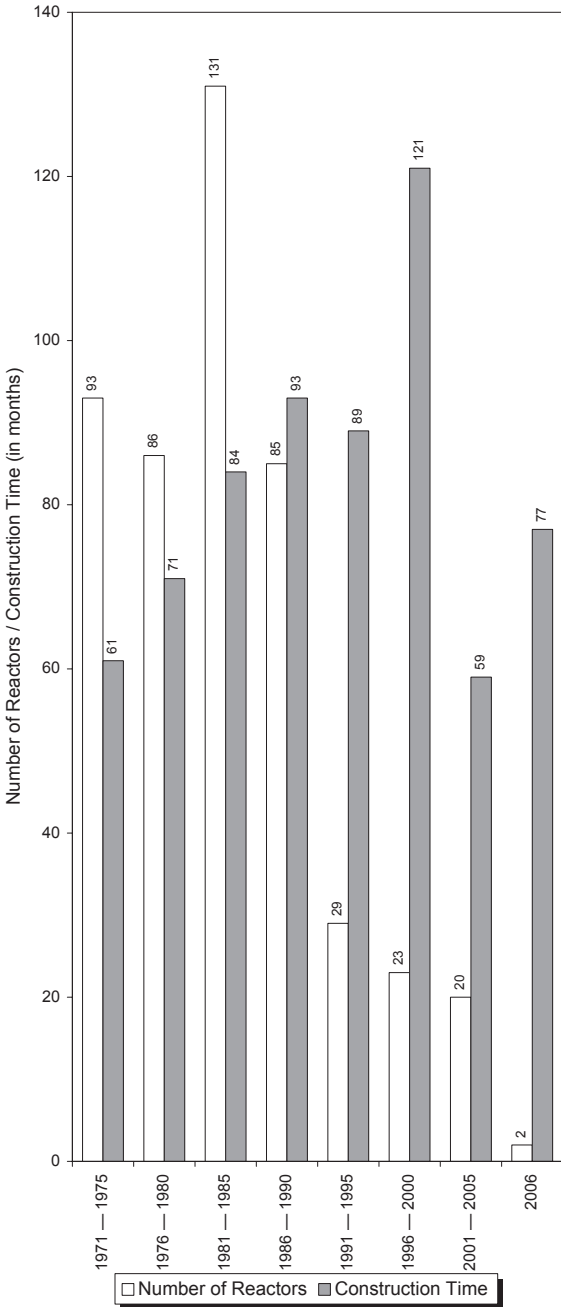


Figure 4. Worldwide median construction time span (as of 31 Dec. 2006)

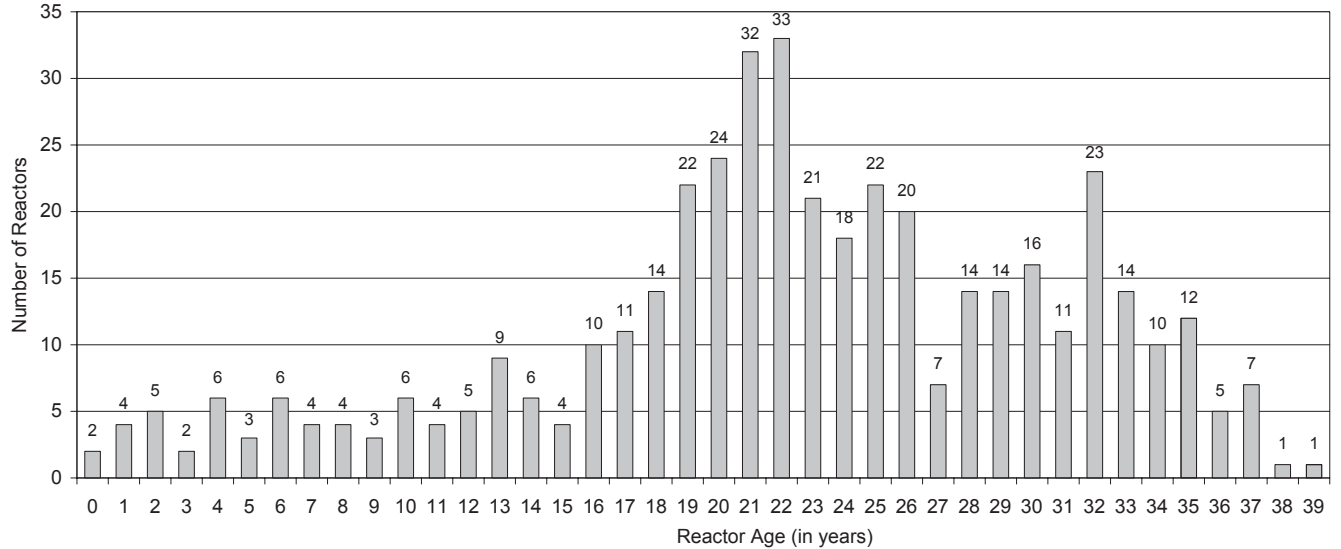


Figure 5. Number of reactors in operation by age (as of 31 Dec. 2006)

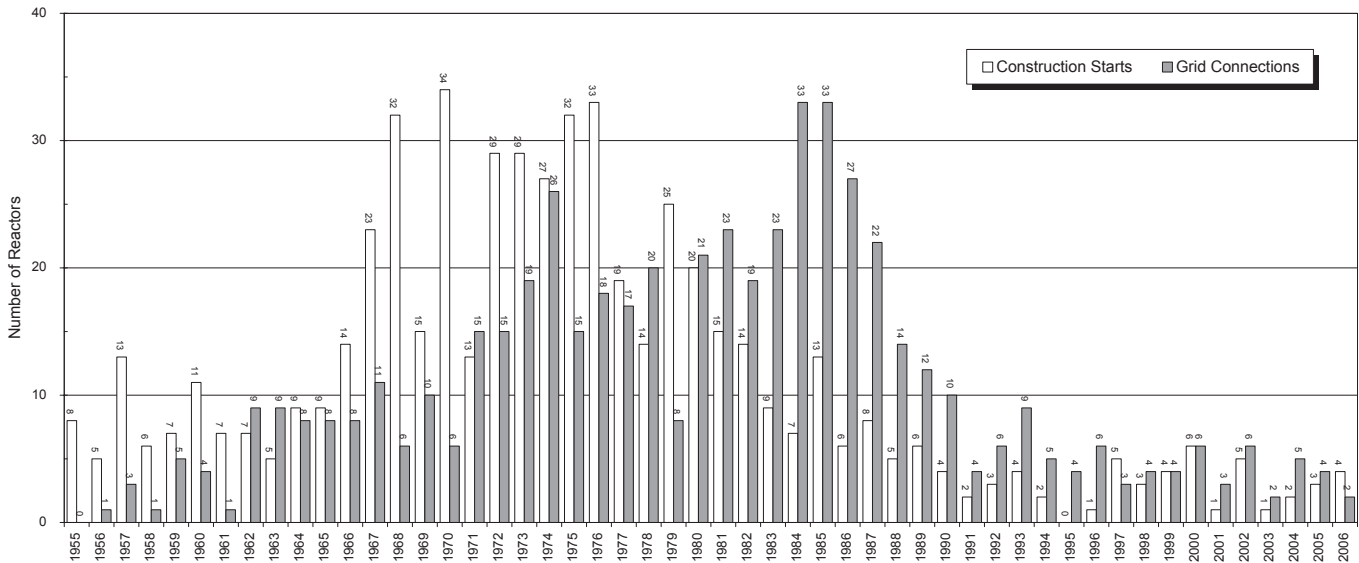


Figure 6. Annual construction starts and connections to the grid (1955 — 2006)

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