

- 2015

- 1990

1968
 1978 4 1 가
 가 1 2
 가 1
 (turnkey)
 ,가 ,
 3,4
 (non-
 turnkey)
)가
 , /
 가
 가 가
 가
 , 3,4 1,2

95 kW
 1970
 가 , 1983 7
 90%
 1984 7
 1985 3, 4

(CE, GE, S&L)
 (TTA)
 , 3, 4
 95% 1995
 1986 ,
 60% 1995 3 12
 3, 4
 95%
 (OPR1000
 : Optimized Power Reactor 1000)
 3, 4

	가		
	15	98%	98%
	21	95%	95.3%
	7	95%	95%
	2	100%	100%
	30	95.5%	95.5%
	24	87%	87%
	11	98%	98%
	35	90.4%	90.4%
	3	100%	100%
	17	100%	100%
	100	95%	95%

1998 8
 1999 12 3, 4
 . 3, 4
 가
 3, 4
 .
 3, 4 2002 3 12
 5, 6 , 2004 7 2005
 4 5, 6
 3
 63 () 6 55
 . , 30



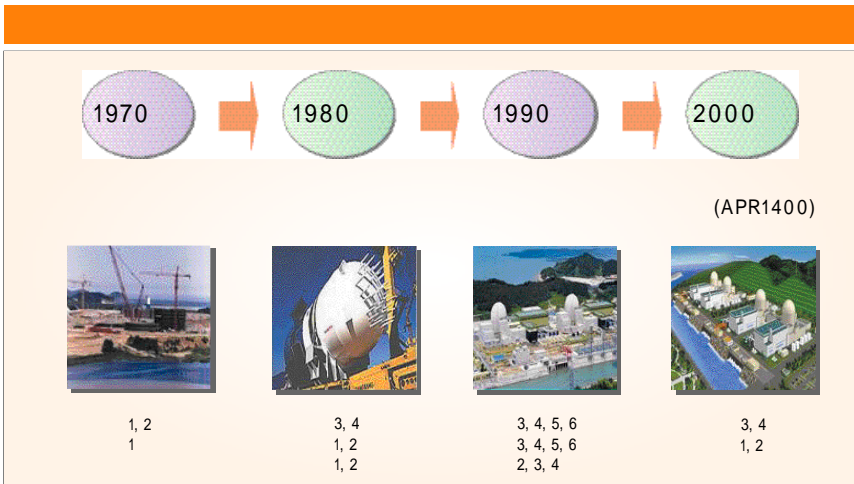
(Improved OPR1000) 2010 12
 2011 12 1, 2
 , 2012 3 2013 1
 1, 2
 APR1400
 3, 4 1990

1, 2 (2008. 6).

10
 가
 CE Sys 80+, AP-
 1000, 1600MW EPR

APR1400 OPR1000

	APR1400(3, 4)	OPR1000(1, 2)
	140 kw	100 kw
	60	40
	0.3g	0.2g
	2.4x10 ⁻⁶ /RY	8.3x10 ⁻⁶ /RY
	가: 1,950 /kw	가: 2,385 /kw
		-
		+



1992
 (KNGR) 가
 (G-7)
 , 12 . .
 2002 5
 가
 10
 .
 APR1400
 , 60 ,
 ,
 2007
 3, 4
 . 2009 1,
 2 2010

1979 TMI, 1986
 1980 가 가
 40
 1980
 1990 (OPR1000)
 1400(APR1400)
 1
 2007 20
 ()

()	가()	가()	가()
	1, 2	1, 2	3, 4
가(/kw)	2,386	2,268	1,945
			1, 2

가

	Summer1, 2	Flamanville#3	Belene#1, 2	Diama#1
가			가	
가(US\$/kW)	4,455	3,176	3,003	3,234
	AP1000	EPR1600	VVER1000	ABWR
	Nucleonics(2008. 5)	Nucleonics(2008. 2)	NOVOSTI(2008. 1)	KISTI(2008. 4)

1 NPCMS 36% 6
 () 가 가 2030
 (paperless)
 1, 2
 Nutech 2015
 2015
 1.4 APR1400 1, 2
 48
 /
 /

#3	#3	#5	#5	#6	#1	#1	#3	#1
63	61	59	58	55	53	52	60	58
1995. 3	1999. 8	2002. 5	2004. 7	2005. 4	(2010. 12)	(2012. 3)	(2013. 9)	(2015. 12)

()

	1	CP1000	60 (2010. 12)
	3	PWR(912MW)	65 (2009. 12)
	Olkiluoto 3	EPR1600	65 77 (2010 11)



()