



2003.6

2003

Mix

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가

가



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- OPEC
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200 b/d 2010 600 b/d
가



- 가 가 가
- 가 가 가



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- 44% 가 2001 404 Btu (1.9% AAGR) 2020 583 Btu
 - 가 (2.8%)
- (: Btu,)

	1990	2001	2010	2020	1990	2001	2010	2020
	182.8	211.5	240.1	271.1	2,844	3,179	3,572	4,048
EE/FSU	76.3	53.3	65.9	76.7	1,337	856	1,038	1,178
	89.3	139.2	174.7	235.3	1,691	2,487	3,075	4,137
	52.5	85.0	110.1	151.9	1,089	1,640	2,075	2,837
	13.1	20.8	25.0	32.0	231	354	420	534
	9.3	12.4	14.4	18.0	179	230	261	326
/	14.4	20.9	25.2	33.4	192	263	319	440
	348.4	403.9	480.6	583.0	5,872	6,522	7,685	9,372

- 1 가
 - 2001 - 2020 가 1.9% 가 2.1%
 - 가 3.0%, 0.2%, 2.4%
 - 2020 1 48.6%

- - 2000
 - 1



가



Mix

(1)



(2002)

- 10 : 209.1 TOE
- 6 , 4 , LNG 2

	1980	1990	2000	2002
	73.5	87.9	97.2	97.3
1	61.1	53.8	52.0	49.1
	98.8	74.3	76.8	73.4
	29.9	16.3	23.5	20.7

(2)



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- (0.14), (TOE/ \$) 2000 0.42
(0.32)



- 가가 1\$/b
- 12 \$ 가
- 0.10%P , 가 0.15%P

(1)



가

- '80 43.9 TOE 2020 311.8 TOE 7 가
- 가 : '80-00 7.7%, '00-'20 2.4%)

	2001	2006	2011	2015	2020	가 (%)		
						'01-'06	'01-'11	'01-'20
(TOE)	198.3	237.6	269.3	288.2	311.8	3.7	3.1	2.4
(TOE/)	4.19	4.88	5.41	5.72	6.16	3.1	3.6	2.0
(TOE/'95 /GDP)	0.40	0.37	0.33	0.30	0.27	-1.8	-2.1	-2.2
/GDP	-	0.66	0.51	0.39	0.43	(0.66)	(0.59)	(0.52)
GDP ('95)	490.6	643.6	820.7	975.9	1,170.3	5.6	5.3	4.7
()	47.3	48.7	49.8	50.4	50.7	0.6	0.5	0.4

(2)



- 2001 51%, 2011 47%, 2020 45%
- 主宗



- 가 가 가 가 가
- 2001 11%, 2011 12%, 2020 15%



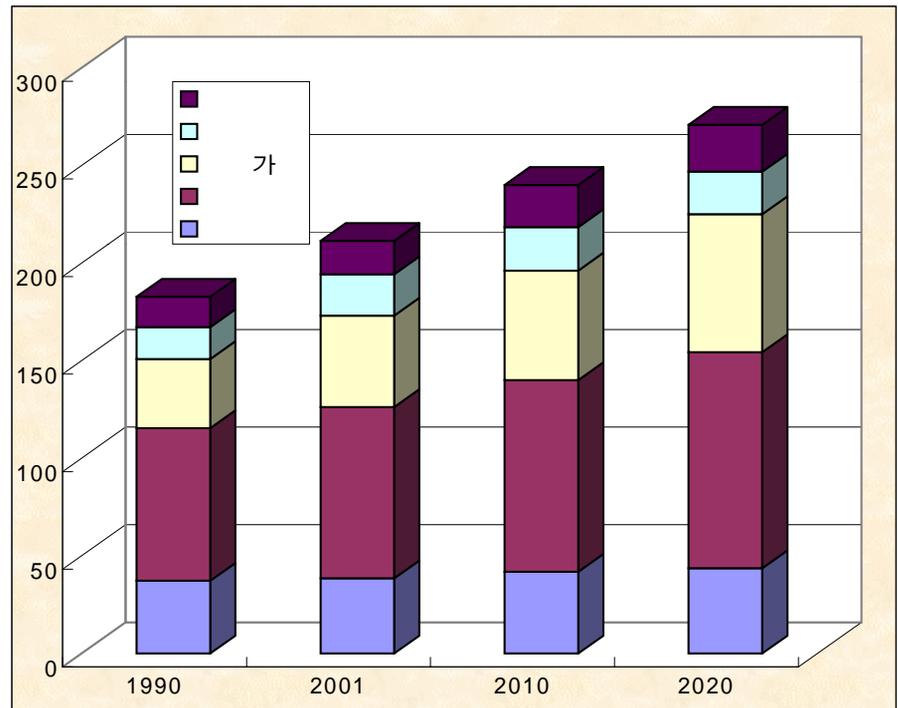
- 가 가

Mix

□ : (') mix 가 가

(: Btu, %)

	1990	2001	2010	2020
	37.3 (20.4)	38.5 (18.2)	41.9 (17.5)	43.7 (16.1)
	78.2 (42.8)	87.8 (41.5)	98.2 (40.9)	110.7 (40.9)
가	35.4 (19.4)	46.8 (22.1)	56.1 (23.4)	70.7 (26.1)
	16.3 (8.9)	21.2 (10.0)	22.3 (9.3)	21.8 (8.0)
	15.6 (8.5)	17.1 (8.1)	21.6 (9.0)	24.0 (8.9)
	182.8 (100.0)	211.5 (100.0)	240.1 (100.0)	271.1 (100.0)

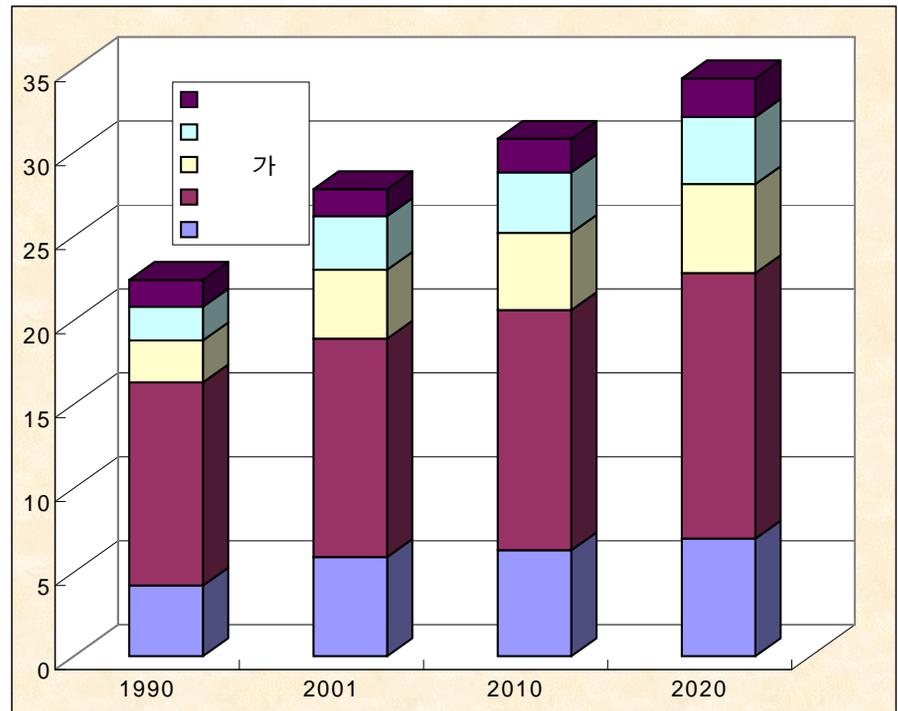


Mix

□ (, ,)

(: Btu,%)

	1990	2001	2010	2020
	4.2 (18.8)	5.9 (21.2)	6.3 (20.5)	7.0 (20.3)
	12.1 (54.0)	13.0 (46.8)	14.3 (46.4)	15.8 (45.9)
가	2.5 (11.2)	4.1 (14.7)	4.6 (14.9)	5.3 (15.4)
	2.0 (8.9)	3.2 (11.5)	3.6 (11.7)	4.0 (11.6)
	1.6 (7.1)	1.6 (5.8)	2.0 (6.5)	2.3 (6.7)
	22.3 (100.0)	27.7 (100.0)	30.8 (100.0)	34.4 (100.0)



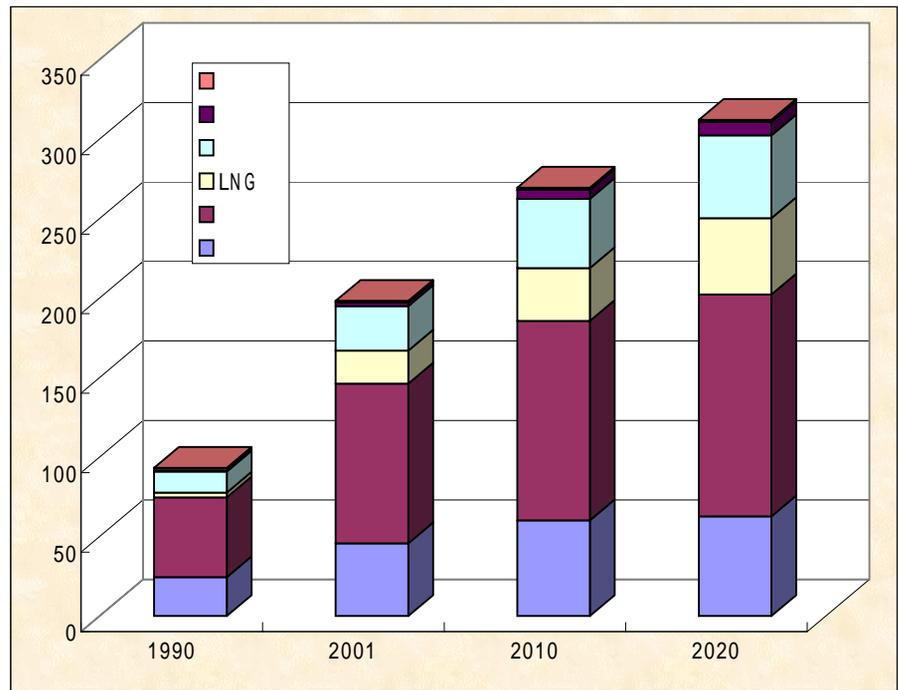
Mix



- 2001 51%, 2011 47%, 2020 45%
-

(: TOE,%)

	1990	2001	2011	2020
	24.4 (26.2)	45.7 (23.1)	60.2 (22.4)	62.6 (20.1)
	50.0 (53.8)	100.4 (50.6)	125.4 (46.5)	139.6 (44.8)
LNG	3.0 (3.2)	20.8 (10.5)	33.2 (12.3)	48.0 (15.4)
	13.2 (14.2)	28.0 (14.1)	43.5 (16.2)	52.0 (16.7)
	0.8 (0.9)	2.3 (1.2)	5.8 (2.2)	8.6 (2.7)
	1.6 (1.7)	1.0 (0.5)	1.2 (0.5)	1.2 (0.4)
	93.2 (100.0)	198.3 (100.0)	269.3 (100.0)	311.8 (100.0)



□ 2002 18 , 29.2%, 38.9%

□ 1) 2015 8 가 2 (5,6

□ , 가

(1)

☐ 1 1.2%

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▪ : 2010 12%

▪ : 1 Solar Roofs Program

▪ : New Sunshine

(2)

□ 가 (BAU 가) , 2011
2.2%

(: TOE,%)

	2001	2006	2011
BAU	2.5 (1.2)	4.0 (1.7)	5.8 (2.2)
	2.5 (1.2)	7.1 (3.0)	13.5 (5.0)
	198.3 (100.0)	230.9 (100.0)	269.3 (100.0)

(1)



가

: 가

Master plan



(stakeholder)



(2)



Mix



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가



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가



- EU

(2011

1

가
5%

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(3)

가

가

□

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□

: KEDO

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□

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가

Mix

- 가?
 - 가
 - 가
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- Mix 再考
 - 가
 - 가가
 - 가가

