

2005. 1. 7

SK

1.

가.
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2.

가.
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3.

4.

가.
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1.

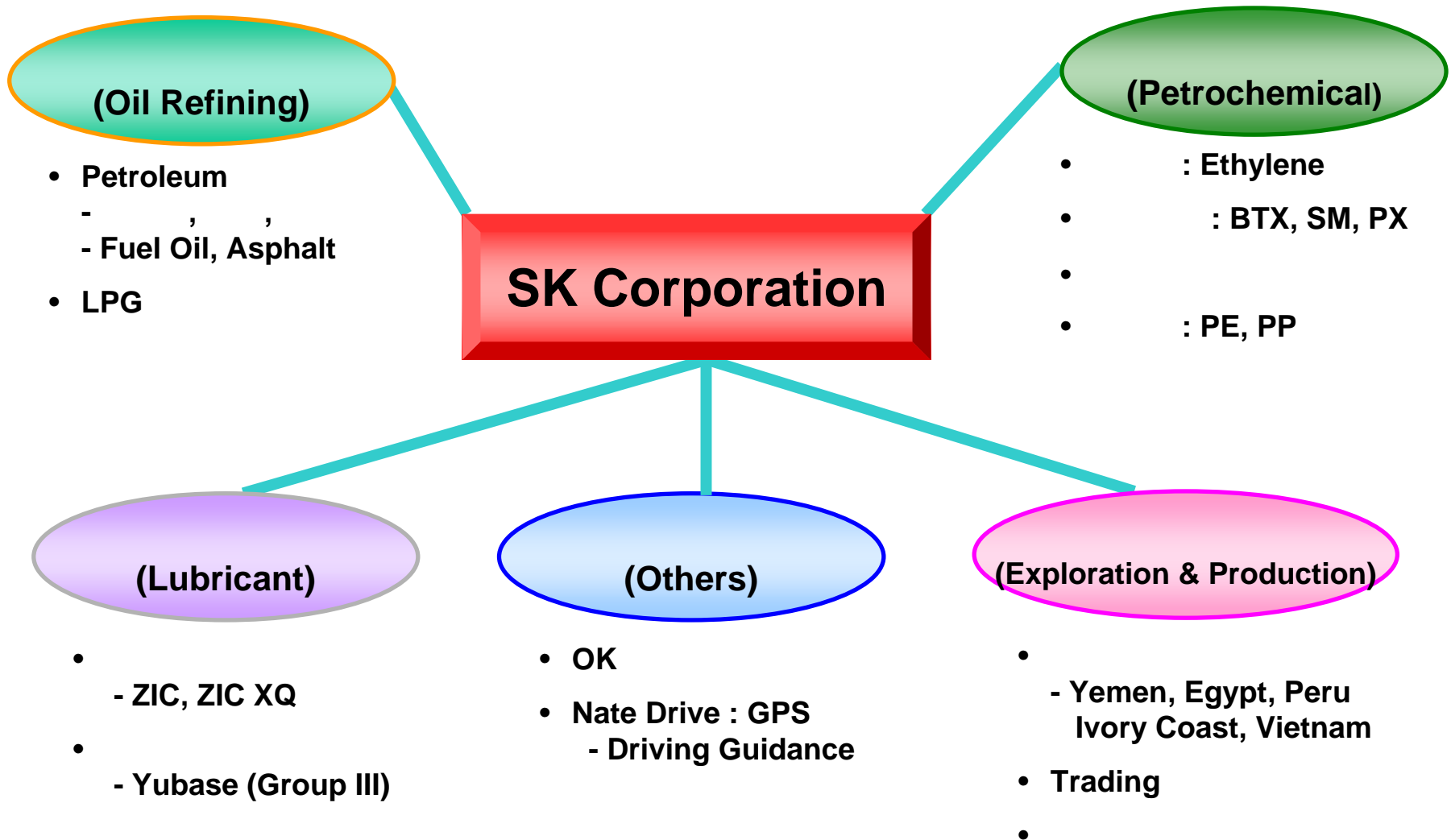
- 1 , 1
- , ,
- (NCSI) 3
(K-BPI) 4
1 , 1



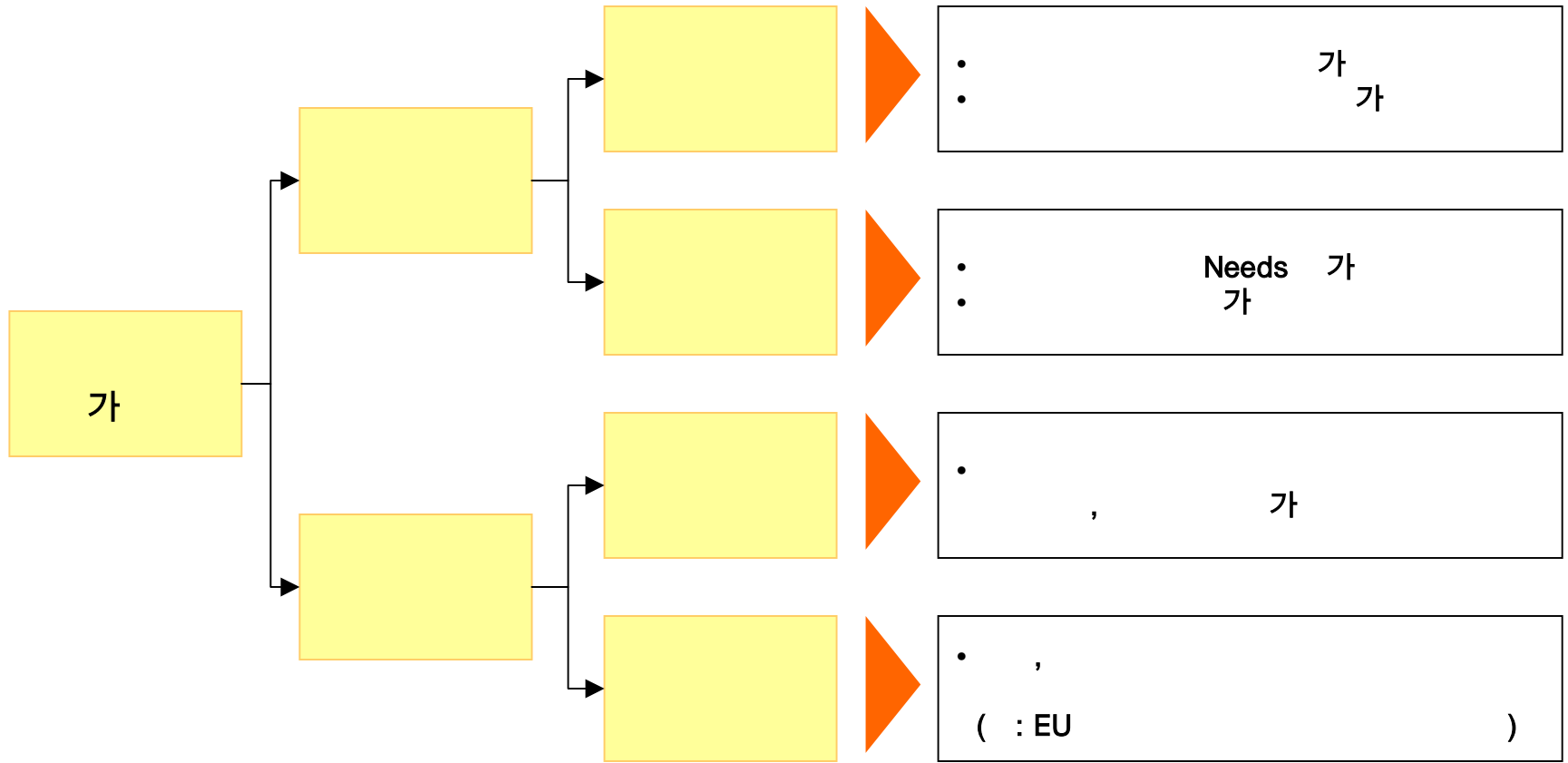
- 1962.10
- : 15 (2003.12)
- : 13 8 (2003.12)
- 가 (가x) : 7 3,600 (Oct 8, 04)



**Petroleum Refining
Global Top 10**
(Fortune Global 2003)



1.



가 가

(TOE/)	111	3	4	36	24	33	212	45	26	325	2	74
(/)	117	2	3	26	18	24	498	31	19	135	1	79
(/TOE)	1.05	0.67	0.75	0.72	0.75	0.73	2.35	0.69	0.73	0.42	0.5	0.85

* : , 2001 ()

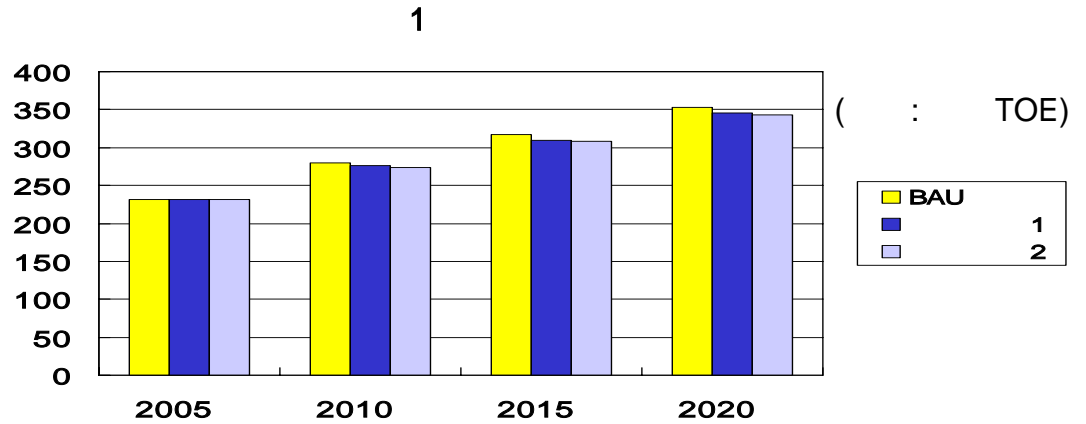
* , 가 ,

☐ 가 가 가 ('99 ~ '02 5.1% 가)
 - 가 (83.4%)
 가

2가

1

- 1 () : 2020 BAU 2.5%
- 2 () : 2020 BAU 2.9%

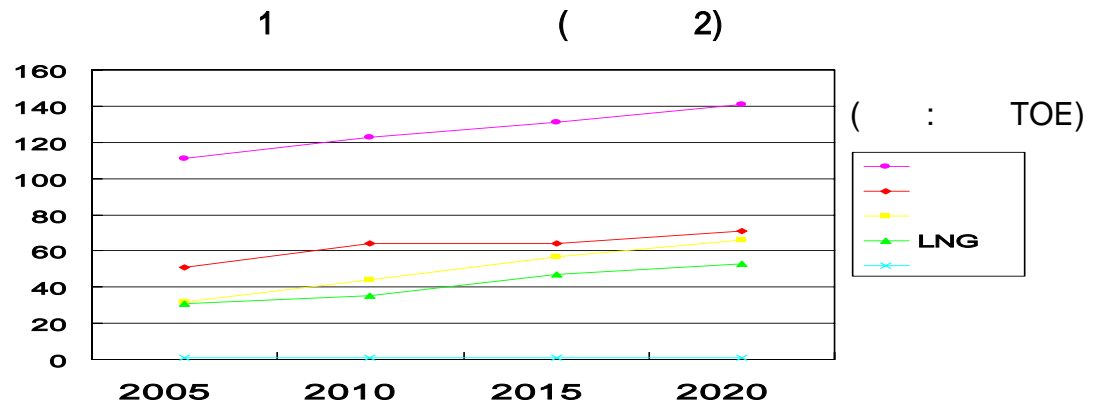


2

1

(BAU 가)

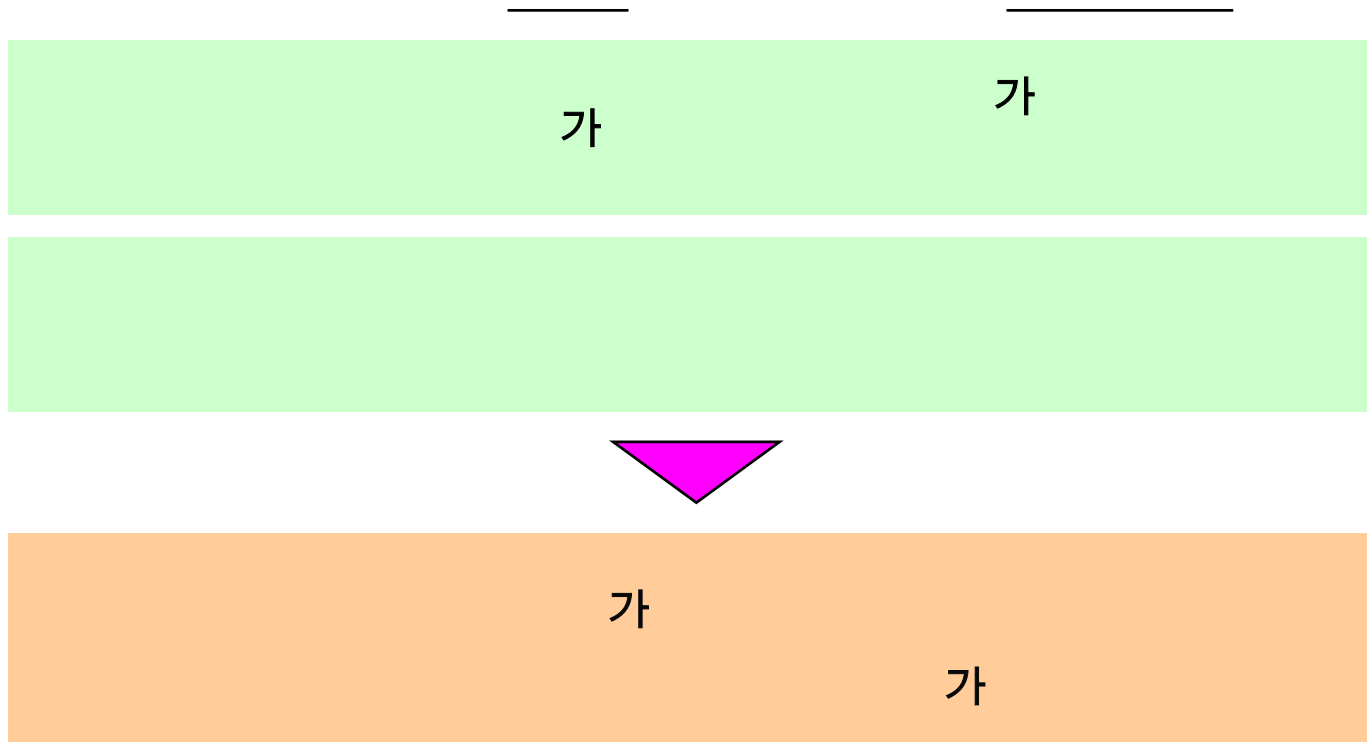
- 가 : 1.8% (2.0)
- 가 : 2.4% (2.7)
- 가 : 4.7% (4.7)
- LNG 가 : 5.1% (5.2)
- 가 : 1.9% (1.9)



* :

, 2003

1.



■ (1997.2)

- : 2010 1990 10%

9%

- : Co-Generation 100 kℓ

■ : , ,

:

- CO2 '90 '99 30% 가

BP

Target ('98)	<ul style="list-style-type: none"> • '10 '90 GHG 10% : '01 , 90.6 mil ton • '02 New Target : '12 '01
Operation Approach	<ul style="list-style-type: none"> • Flaring • : '99 '00 Group
Production Approach	<ul style="list-style-type: none"> • Climate Friendly Fuel - Gas Solar Energy
Customer Approach	<ul style="list-style-type: none"> • Fuel Efficient Technology Promotion - / Polymer :
Promotion	<ul style="list-style-type: none"> • EU, UK (BP Model) •

Shell I

Target ('98)	<ul style="list-style-type: none"> • '10 - '90 • '90 : 114 MT, '02 • GHG 5% • : '02 : 140 MT, • , 94 mil ton : 46 MT (140-94)
Operation Approach	<ul style="list-style-type: none"> • New Energy Conservation Program : Flaring , • GHG
Production Approach	<ul style="list-style-type: none"> • Natural Gas : Station Open • Lower Emission Fuel
Customer Approach	<ul style="list-style-type: none"> • CO2 -
Promotion	<ul style="list-style-type: none"> •



- CO2 5 ,
-

☐ Learning by Doing Approach

-



- ,
-

☐ Reporting

- CO2 3 Promotion
- ,

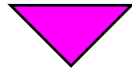
()

- (CO2 가 1)
-
- ,

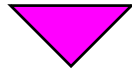
- 가 가
-
- 가 가 ,

* : , 2001

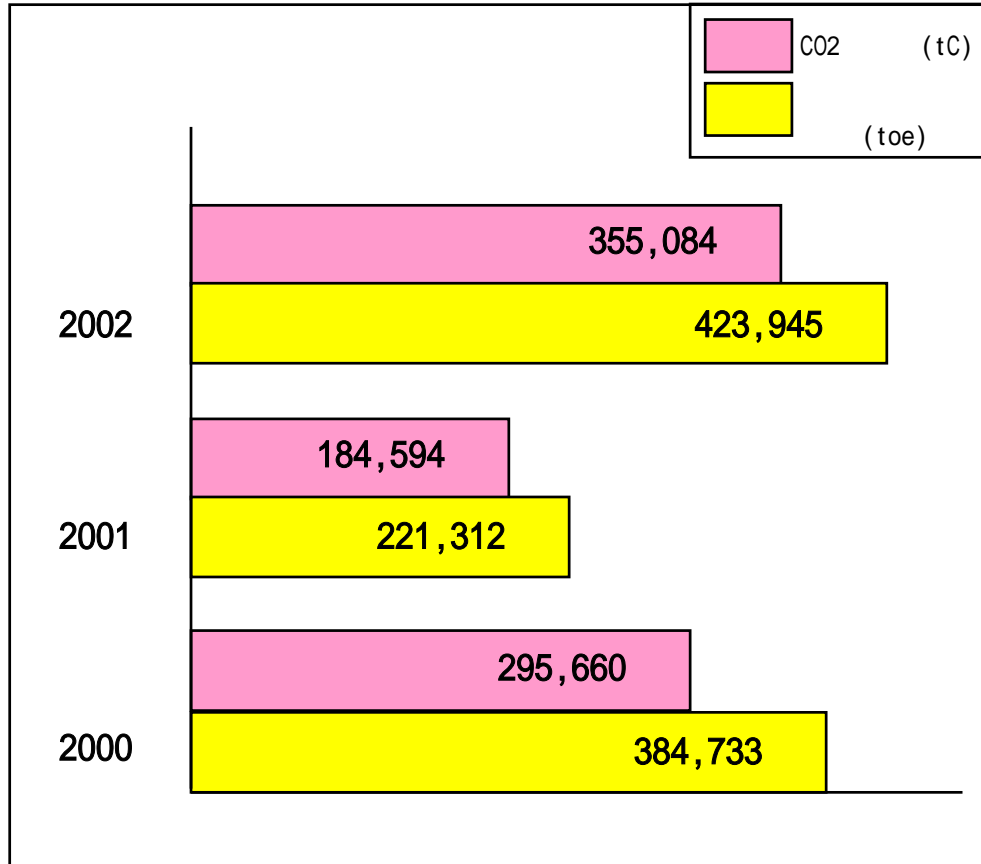
- (5 ,) : 2003. 6
- 1 ~ 7 : 2003. 8 ~ 2004. 5
-
- 가
-



- Consensus
- 가



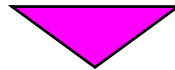
(2005 ~ 2007, 3)



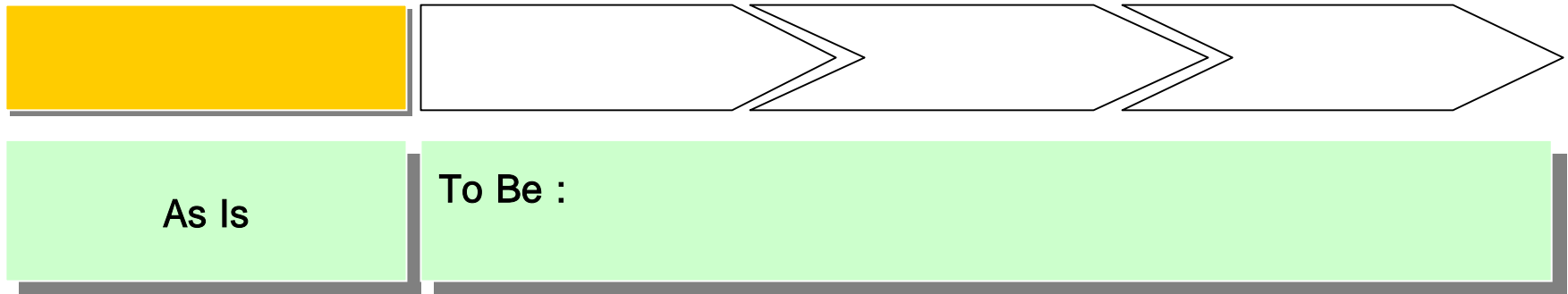
2002	67	118
2001	115	57
2000	69	45

* : , 2004

	▪ 가 가
	▪ (가)
	▪ 가

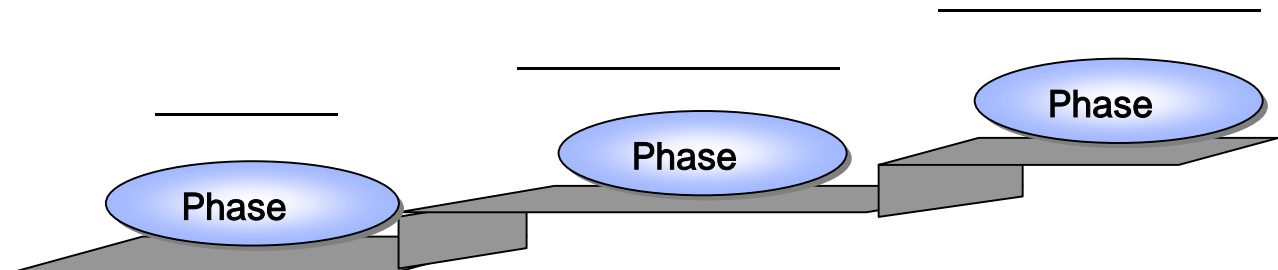


▪	
▪	
-	,
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□ 1999

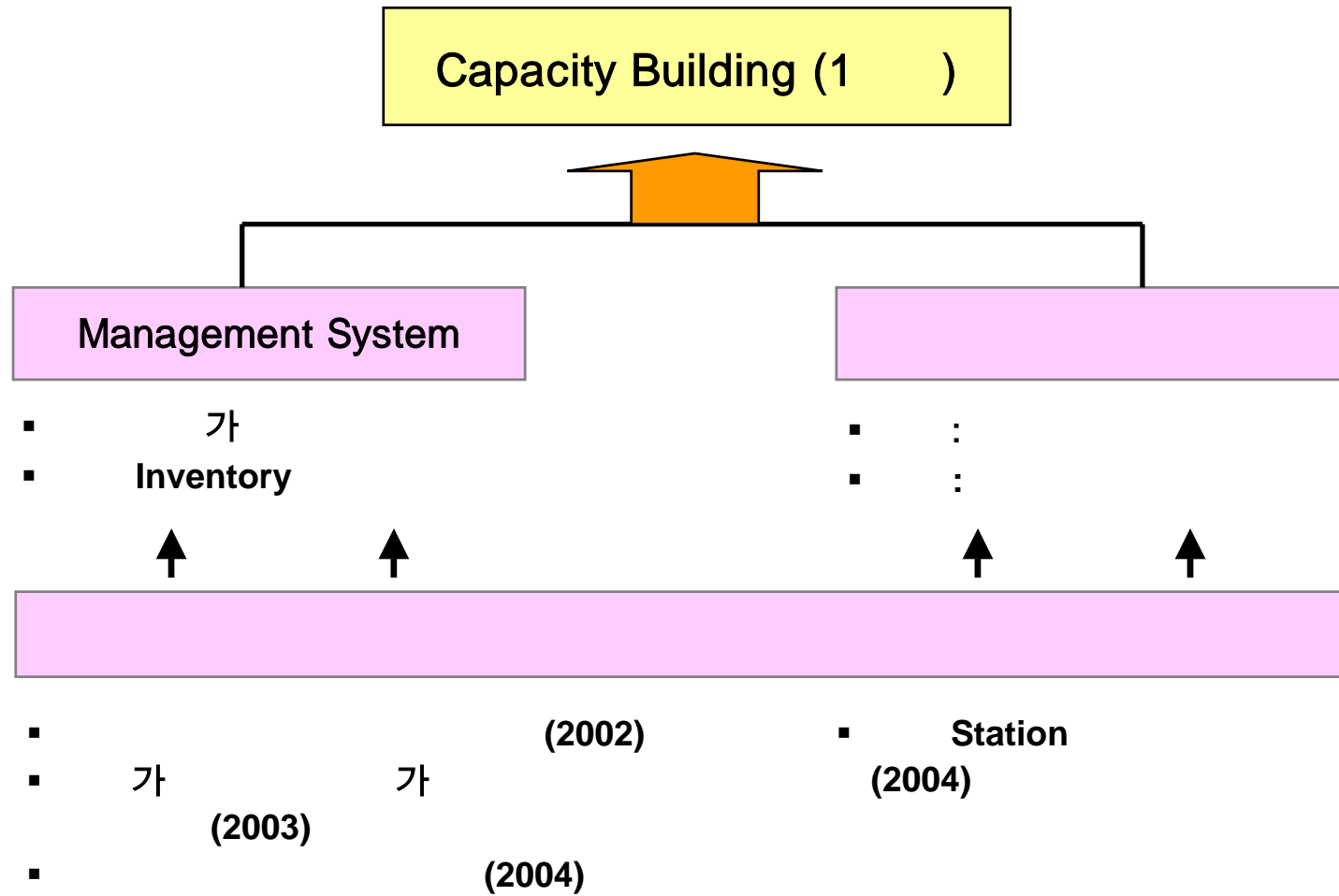
- 2004 1999
3.5%



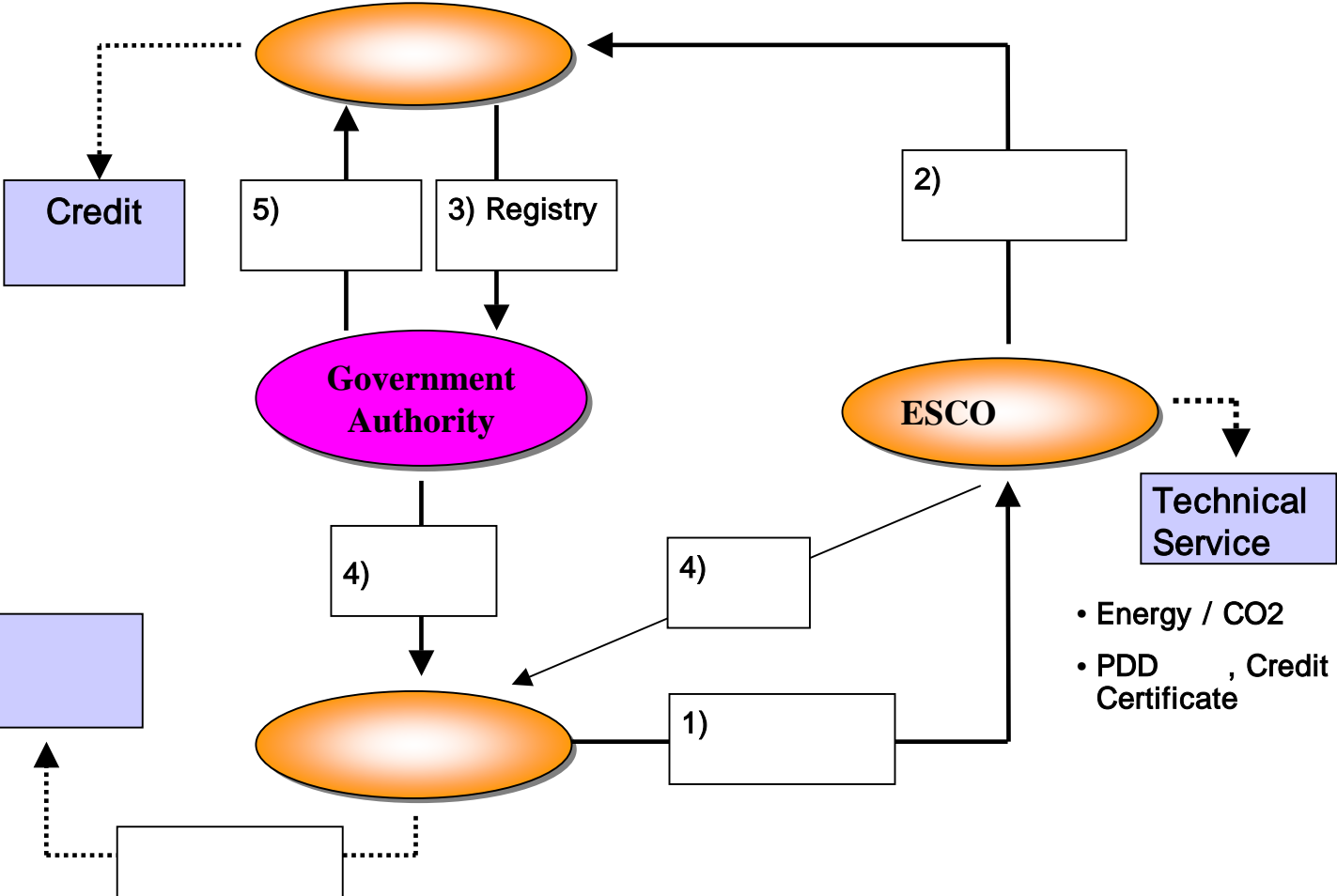
□

□ New Market

-
- Management System
-
-
-

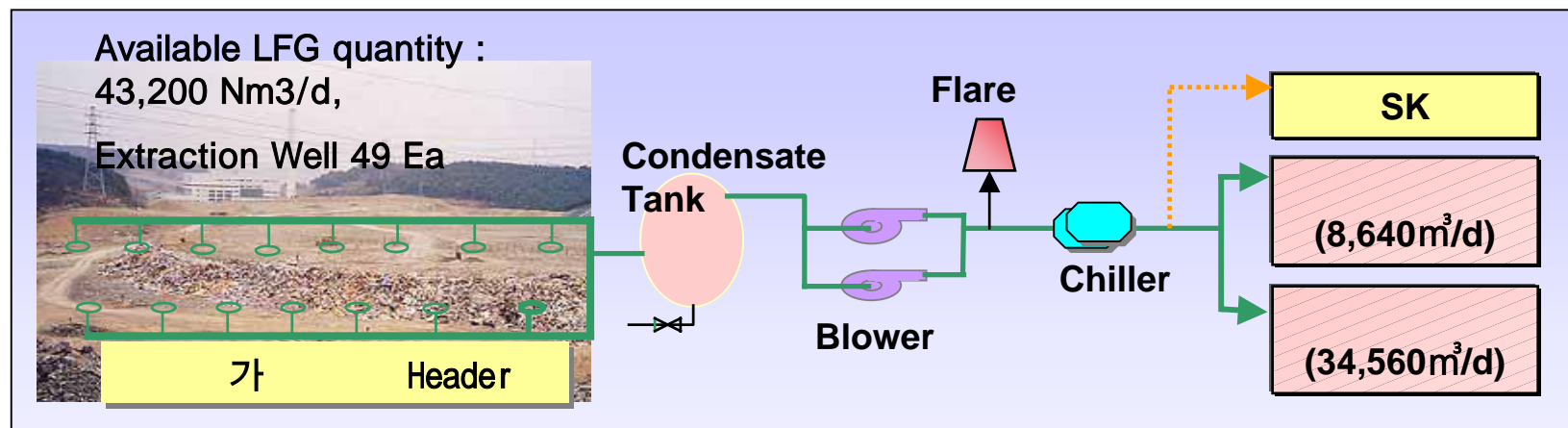


Management System



: LFG

- :
- '94 ~ '14 (20) 市 380
- 가 (CH₄)
 - : 50%, 45%, 5%
 - : :21, CO₂:1
- LNG 가



					CO2 (tonCO2-eq/)
		CO2		CO2	
	(Nm3/)	(tonCO2-eq/)	(Nm3/ , kWh/)	(tonCO2-eq/)	
LFG	2,915,265	122,613	14,284,800	600,802	478,189
LNG			14,284,800	14,156	14,156
			827,847	-400	-400
		122,613		614,557	491,944

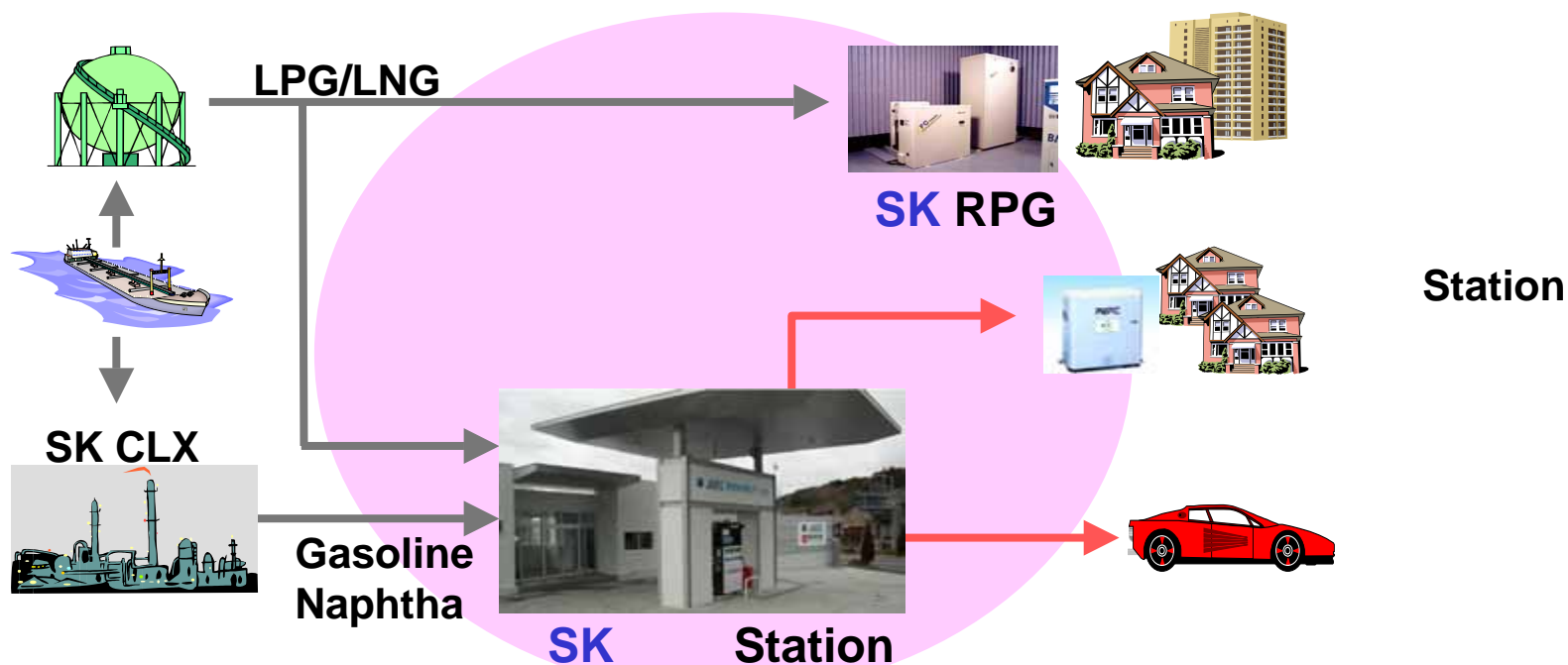
가

- * : LFG () 4,264 kcal/Nm3
- LNG() 10,500 kcal/Nm3
- * : 1.281 tonC/toe
- * LNG Combustion factor: 0.995

/

	:	Station
	가 :	DME (Di Methyl Ether)
	:	
	:	RPG (Residential Power Generator, 가)
	:	CHP (Combined Heater & Power,)
	Hybrid :	Li

Vision



- RPG: Residential Power Generator (가)
- Station:

2010

Station