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1. \_\_\_\_\_

20 \_\_\_\_\_ , \_\_\_\_\_ , 2

AIDS  
( \_\_\_\_\_ , 2000.10).  
가 가

.(< 1> )

(Inter-disciplinary)

(End-of-pipe treatment)

1992 가 가 . (G-7 )

< 1 >				
	1996	2000	2005	
	4,530	5,430	6,610	4%
	189	364	908	17%
	771	817	1,141	4%
	47	62	86	6~8%

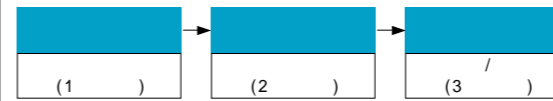


2. \_\_\_\_\_

1  
(Clean technology)  
(Remediation technology) ' 2, 3

가

( [ 1 ] )



[ 1 ]

2.1

(USEPA)  
ORD(Office of Research and  
Development), NRMRL( 가 )  
,가

(Control) (Remediation)  
(Avoidance) 가  
(Measurement & assessment)  
, (3M, Dow  
Chemical )

가 가  
가 가  
CFC  
가  
( 90  
(Moonlight project)

, 1993  
New Sunshine  
. New Sunshine 1993  
2020

EU 1985 EUREKA Project, ACE  
(Action by the Community relating to the  
Environment) Program 가

NETT(Network for  
Environmental Technology Transfer)

, ETIS(Environment  
Technology Innovation Scheme), EMOS  
(Environment Management Options Scheme),  
Euroenviron

1989 가  
(NEPP) , ,

(BMU)  
(UBA) ,  
가, (BMBF)

(80%),  
(DFG) ( )

(Environ-  
mental Technology Center (ETC)) 5

DRECT(Development and  
Demonstration of Resource and Conservation  
Technology)

가 (Environmental  
Technology Verification)

2.2

< 2> 가 2, 3

< 2> 가	
-	( , ) - ( ) (SBR <sup>1)</sup> ) - (Ford 社)
-	( )
-	( )
-	( , Mitigation )
-	( ) (SCR <sup>2)</sup> ,
-	- Hybrid
-	( , , )
-	( 가 )
-	( )
-	가
-	
-	

1) SBR : Sequencing Batch Reactor ( )  
 2) SCR : Selective Catalytic Reduction ( )

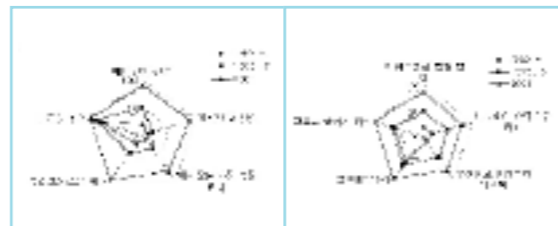
3.

3.1

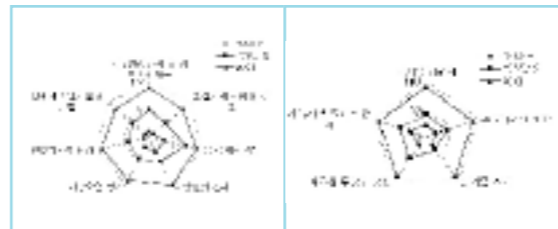
G-7  
 100

, G-7 2001  
 .([ 2] )  
 1995  
 CFC(Chloro Fluoro Carbon)

, G-7



(a) (b)



(c) (d)

[ 2]

3.2

1990

, 1992

(G-7)

(< 3> < 4> ). G-7 2000

4 294  
 594 , 72

가

< 3>				
			( )	
(G-7)	1992~ 2001	3,965	294 (2000)	
	1996~ 1997	9.5	2	
	~1997	280	76	

< 4>				
			( )	
	1995~ 2001	195	5	
	1987~	2,904 (1994)	760 (1994)	
		107 (1998)	36 (1998)	
	1995~	120 (1997)		

3.3

가 BOD

가,  
 PPMs(Process & Production  
 Methods)  
 (LCA, )

2011 4,600 ~ 5,200kg

가 Site  
 assessment

([ 3] ),

(Eco-Technopia

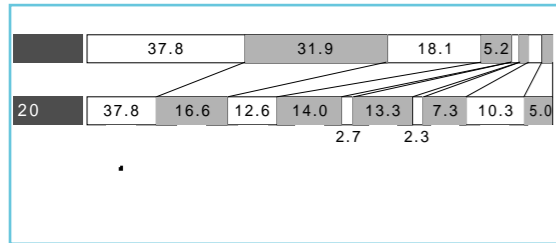
21)' , 2001 2010

(多媒體)

.(<  
 5> )

(KEVA,  
 Korea Environmental Venture Association) 100

가

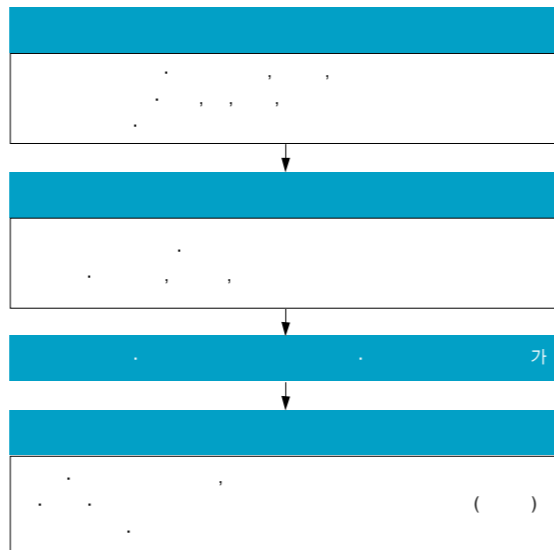


[ 3] 20 (%)

< 5> (Eco-Technopia21)	
	( )
	가
	( 가 )
	( / )
	( 가 )
	( )
	( LCA <sup>1</sup> )
	가
	가

<sup>1</sup>) LCA : Life Cycle Assessment, 가

4. \_\_\_\_\_



[ 4]

([ 4] ) ,

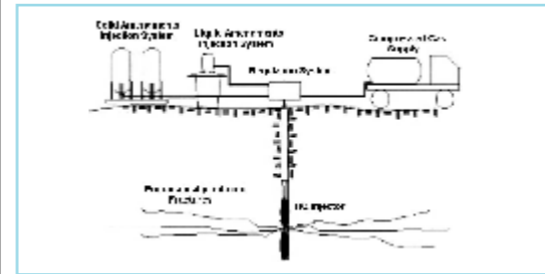


[ 5] Air plasma decomposition torch  
process , Membrane 2

(Thermal, non-thermal plasma), (Electron-beam),  
(Supercritical water oxidation ) [ 5] )

([ 6] )

, 가



[ 6] Pneumatic fracturing accelerates cleanup of hard-to-reach contaminants

5. \_\_\_\_\_

, 가

가

가 (process) ( )

2, 3

(< 6>

< 6>			
			가
			가
			가
			가

), .

1. " " , 2000.
2. " " ; LG , 1997.
3. " " ( ) ; , 1996.
4. , (Eco-technopia 21) , 2000. 9.
5. " " ; , 1998.12.
6. " G-7 2 가 3 " ; , 1998. 6.
7. " " ; , 2000. 7.
8. " " ; , 2000. 3.
9. , 21 , , 2000. 3.
10. " " (Eco-technopia 21) ; , 2000.