



# 자연과 함께 고개과 함께 나무와 함께 고개과 함께



## Contents

GEO	03	24~28
	04~05	29~31
	06	32
	07	33~37
	08~12	38
	13~20	39
	21~23	

# CEO



1992 6  
' ' 1996 5 「 」

「 」 . .

. .

, ,

. . . .

. .

, , 가

. .

. .

, ,

. .

「 」 . .

, ,

. 가

, ,

. .

. .

2001 9

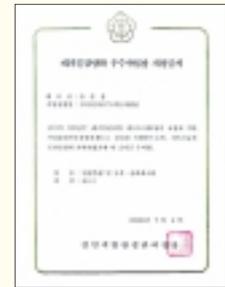
윤종용

1999.09~  
2001.08

50  
50 (2 1,160 )  
1999 9  
가  
National Safety Council  
50  
2000 11 Presidential Special Award



LCD  
LCD 가  
COF(Chip On Flex)  
PCB( )  
PCB PCB PCB 30%,  
ACF(Anisotropic Conductive Film :  
) 20%  
PCB ACF



가 가  
가

(Extended Producer Responsibility)



ML-6060  
1/50  
2001 가



가  
가  
1999  
1985 YMCA

2001  
2001  
13  
(GMIS) LCA



HDD  
2000 6  
가



2000 9  
ISO 14001 & OHSAS 18001  
ISO 14001( ) OHSAS 18001( )  
1999 12 ( )  
OHSAS 18001  
, 2000 11 ISO  
14001 OHSAS 18001  
ISO 14001 OHSAS  
18001

(No Claim Bonus) 1  
가  
5%  
18



1.

2.

3.

4.

5.

6.

(Life cycle)

2001. 9. 1

윤종용

	08
	13
	21
	24   3 (無)
	29



# 경영의 녹색화

Greening of Management

1996 5

가



가

가

1999 ISO 14001 ISO 14001

ISO 14001 8 ISO 14001

OHSAS 18001( ) KOSHA

2000( ) 가 가

1999 9 가

2000 12 60 (2 8,960 )

가



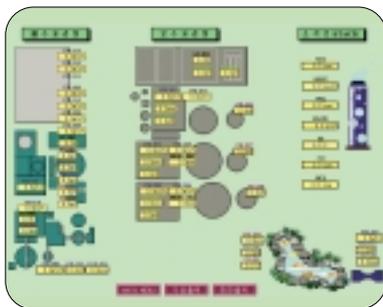
가

ISO14001		
	1996	10
	1996	9
	1996	9
	1996	11
	1996	10
	1999	6

ISO14001			
가			
	SDMA	1999	8
	SEMUK	1999	11
	SIEL	2000	6
	TSEC	2000	9
	SEMEX	2000	11
	TSED	2000	12
	SAS	2000	12
	SEDA	2001	2
	TSE	2001	10 ( )



가



(TMS)

가,

(PSM : Process Safety Management)  
1997

(PSM) 가

가

JIT

JIT(Just In Time)  
SCM(Supply Chain Management)

JIT

TMS System (TMS : Telemetering System)  
1995

(TMS)

TMS

Web System

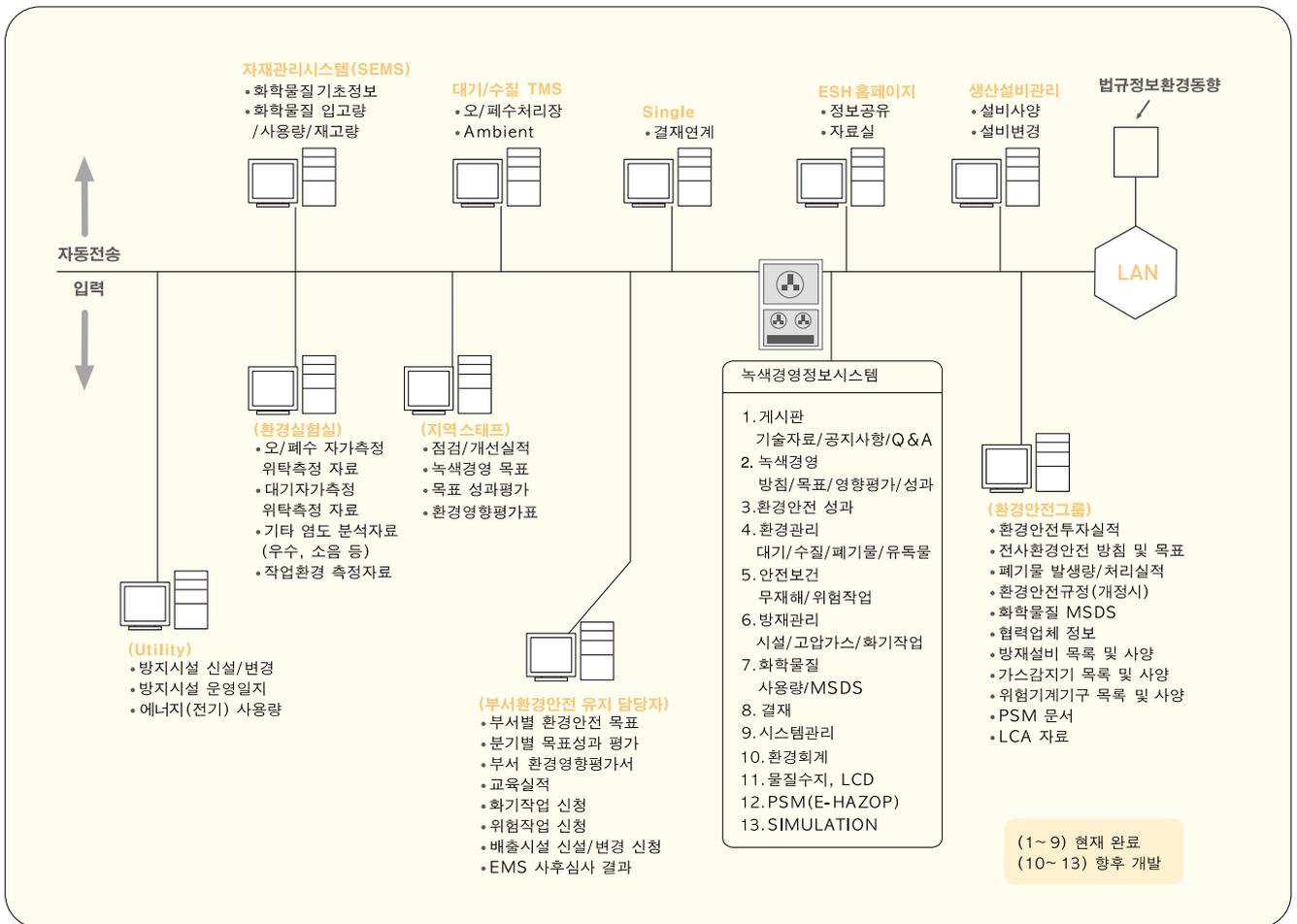
(GMIS : Green Management Information System)  
1998

(GMIS)

가

가

가 ISO 14001  
PFC(Per Fluoro Compounds),  
(P2 Project-Pollution Prevention)  
가  
가(EPE), (EA)  
21





5%

(S )

S

1991

1999 6

2001 3

Global Standards

가

(NCB : No Claim Bonus)

1

5%

(NCB)

가

18





가
1996 LCA
LCA
1997 LCA
TV, 가 LCA
1998 LCA
PC, DRAM LCA
1999~2001 LCA
가 LCA
가 LCA

### Tool

가(LCA : Life Cycle Assessment)  
 가(LCA) 가

가 1995 ,  
 1997 TV . . . , 1998 PC  
 PC DRAM IC , 1999 , 2000  
 가

가 SPEED(Simplified LCA  
 Program for Effective Eco-Design) 가

(DfA/D/R/S : Design for Assembly/ Disassembly/ Recycling/ Service)  
 DfA/D/R/S 가  
 1995 . TV . , 1996 , 1997  
 , 1998 , 1999  
 . . . , 2000

DfA/D/R/S  
 DfA/D/R/S Tool 3D-CAD  
 (PDM : Product Data Management)  
 LCA  
 , 가  
 DfC(Design for Cost) 가 .

( , )  
 1999 .  
 2000 ML-6060 가  
 1/50 ,  
 가



2001

가

TCO 95, TCO 99

1

, VCR, DVD

EPA Energy Star

Fin SOFT(Split, Oval Fin & Tube)  
30%, 12%

SOFT

Fin

3%

30%

SOFT

가 KT ( )

40%

가 (Variable Voltage Variable Frequency)

가 IPM(Intelligent

Power Module)

25%

( : 37dB,

: 42dB)

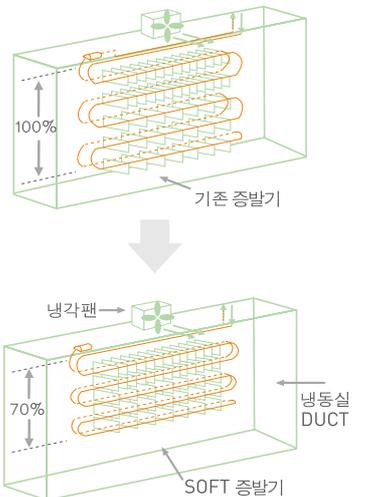


ML-6060

2000



TCO 95, TCO 99

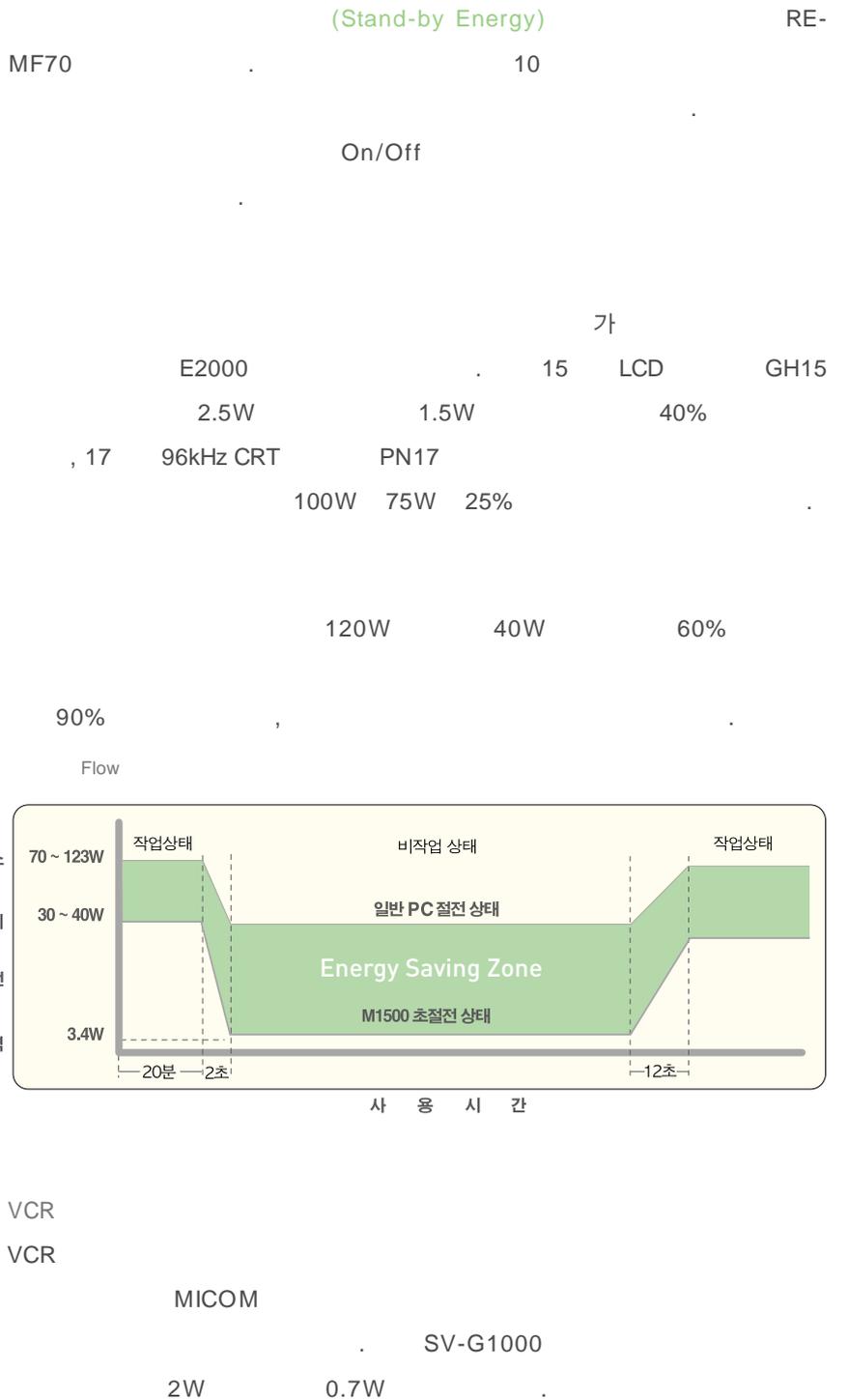




RE-MF70



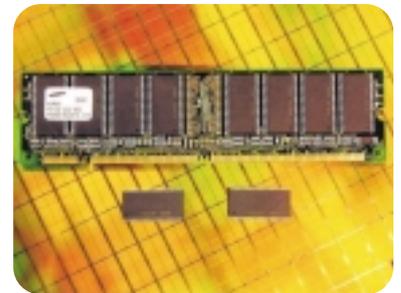
VCR

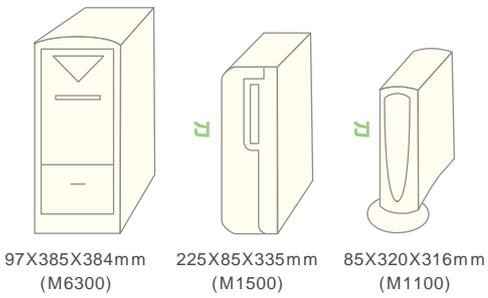


CFCs  
 1996 CFCs HFC-134a  
 , 1997 (R-600a)  
 A  
 HCFC-22 HFC R-  
 407C R-410A . 1994  
 1995 1 , 1997 2 , 1998 3 , 1999 4  
 Field Test , 1998 R-410A  
 10 1  
 KT R-407C  
 2001 3 4 , 2001 R-407C  
 R-410A  
 (Pb) ( , , )  
 128MB SD 256MB  
 가  
 (Solder Paste)  
 가  
 가  
 Halogen free PC Board PC



HFC



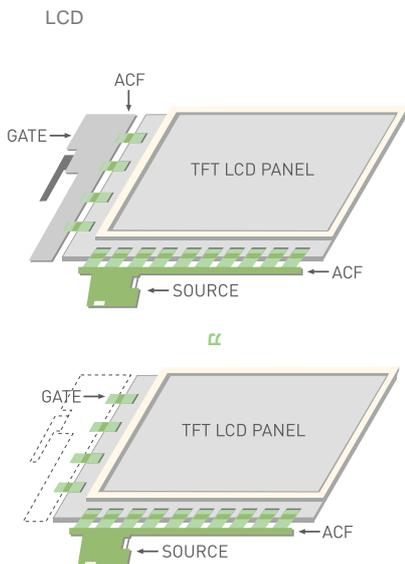


가

. 17    96kHz CRT    PN17  
 29%,    13.7%  
 63%  
 DRAKE    729    390  
 70%    85%

가

30%    Toner Save  
 Power Save Key  
 Power Save    Paper Save



LCD  
 LCD    가  
 , COF(Chip On Flex)  
 PCB ( )    PCB    PCB    PCB    30%,  
 ACF(Anisotropic Conductive Film :    )    20%  
 PCB    ACF

가

, 가

180g 가 148g 18% AS-410

ML-6060

10%

M5317 LCD NL15MO

가

(Extended Producer

Responsibility)

2000 9 27

가

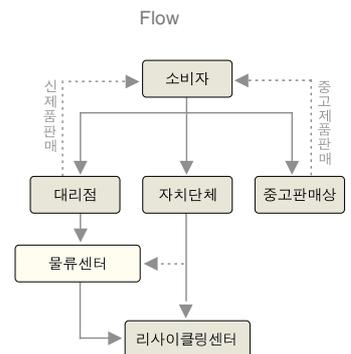
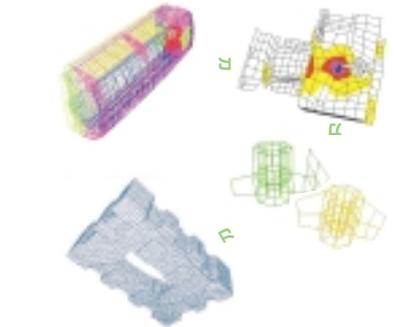
3

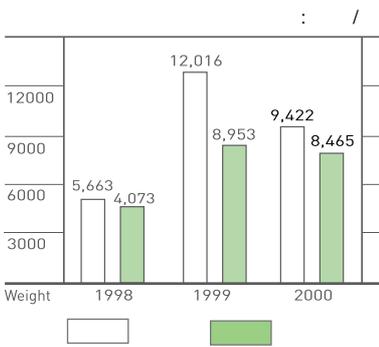
( : /

) ,

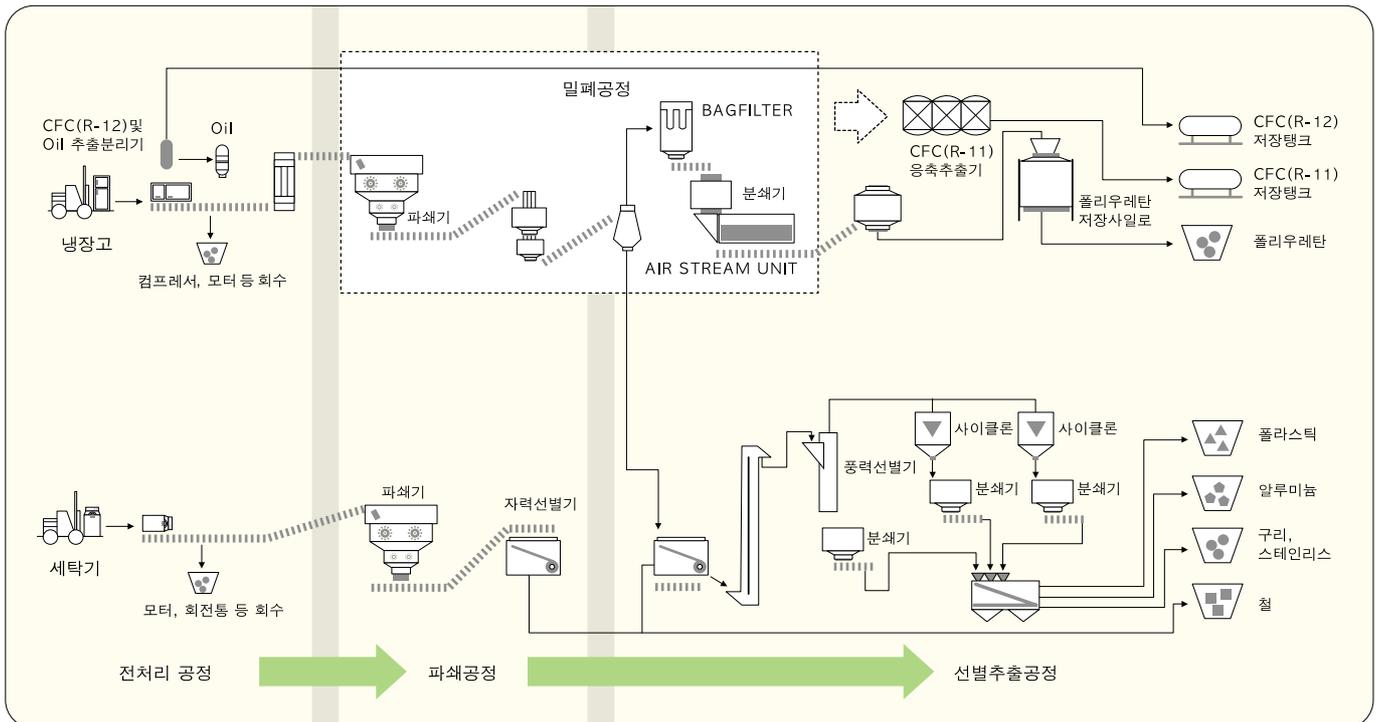
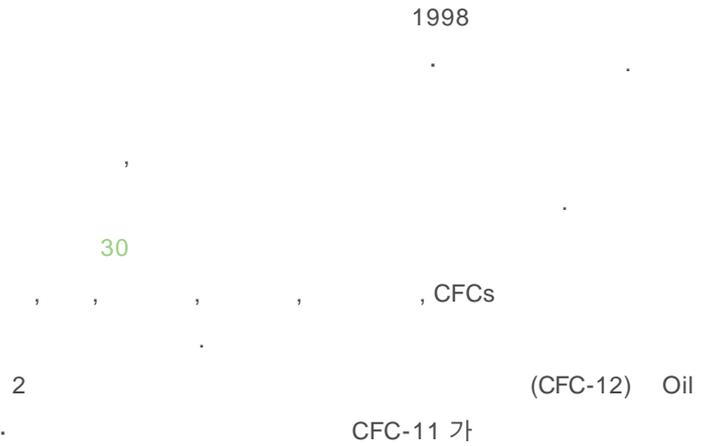
. (http://www.aee.or.kr)

27





가





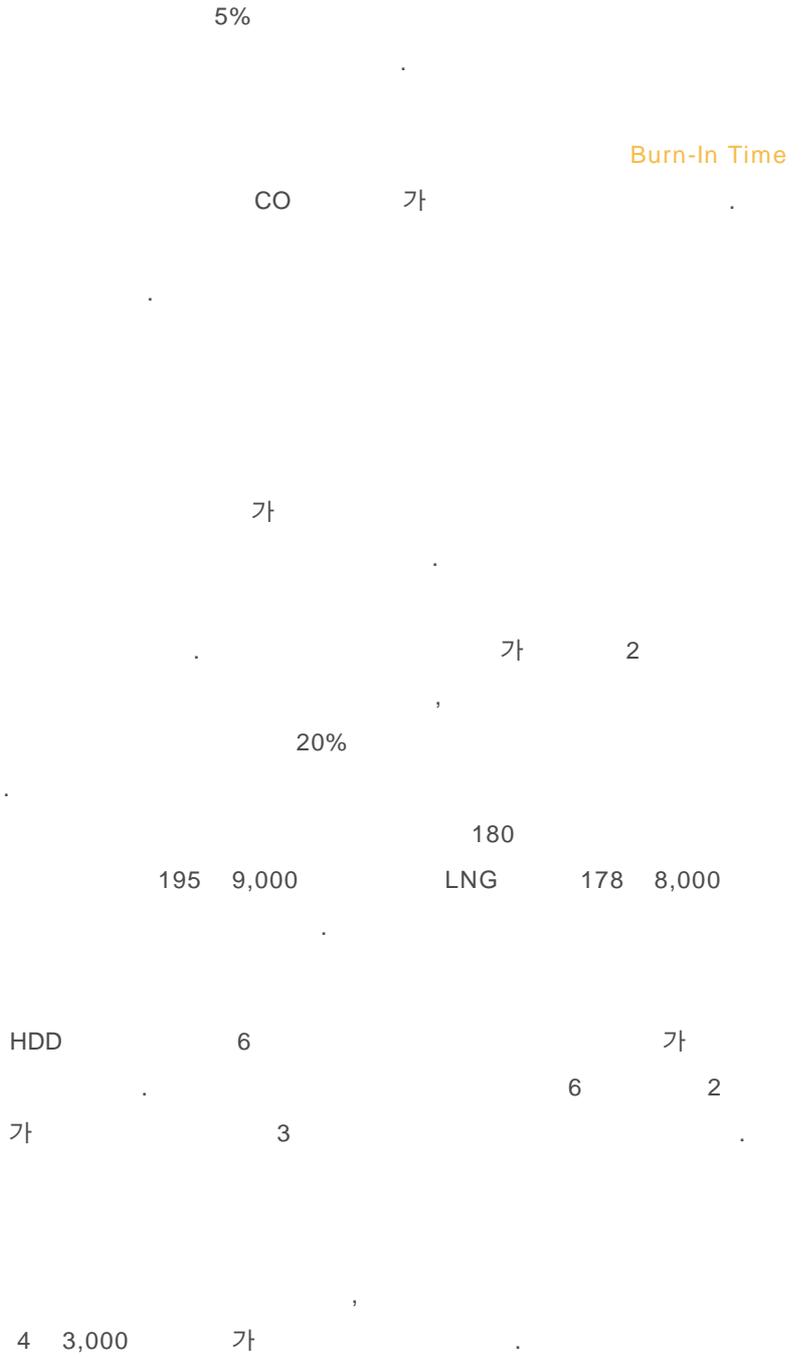
# 공정의 녹색화 Greening of Processes

(Source Control)

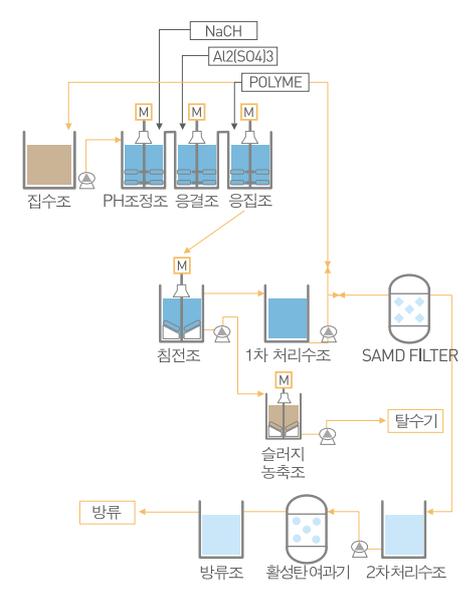
가



가 2 6



$\mu$ BGA 238  
 CMF(Continuous Micro Filter) 8 6,870 가  
 HDD 150 가  
 , 2 · 3  
 · 가 4 4,700  
 9,000 Etcher  
 1  
 POL 가 IPA가  
 가  
 PASS 'N NF3 PFC  
 RPSC-2STEP NF3  
 PFC  
 (WSC) 가 PFC 2010 10%  
 WSC PFC  
 , 2002 8 30 PFC  
 가  
 TFT-LCD 35% ,  
 가  
 11 7,000 ,  
 33





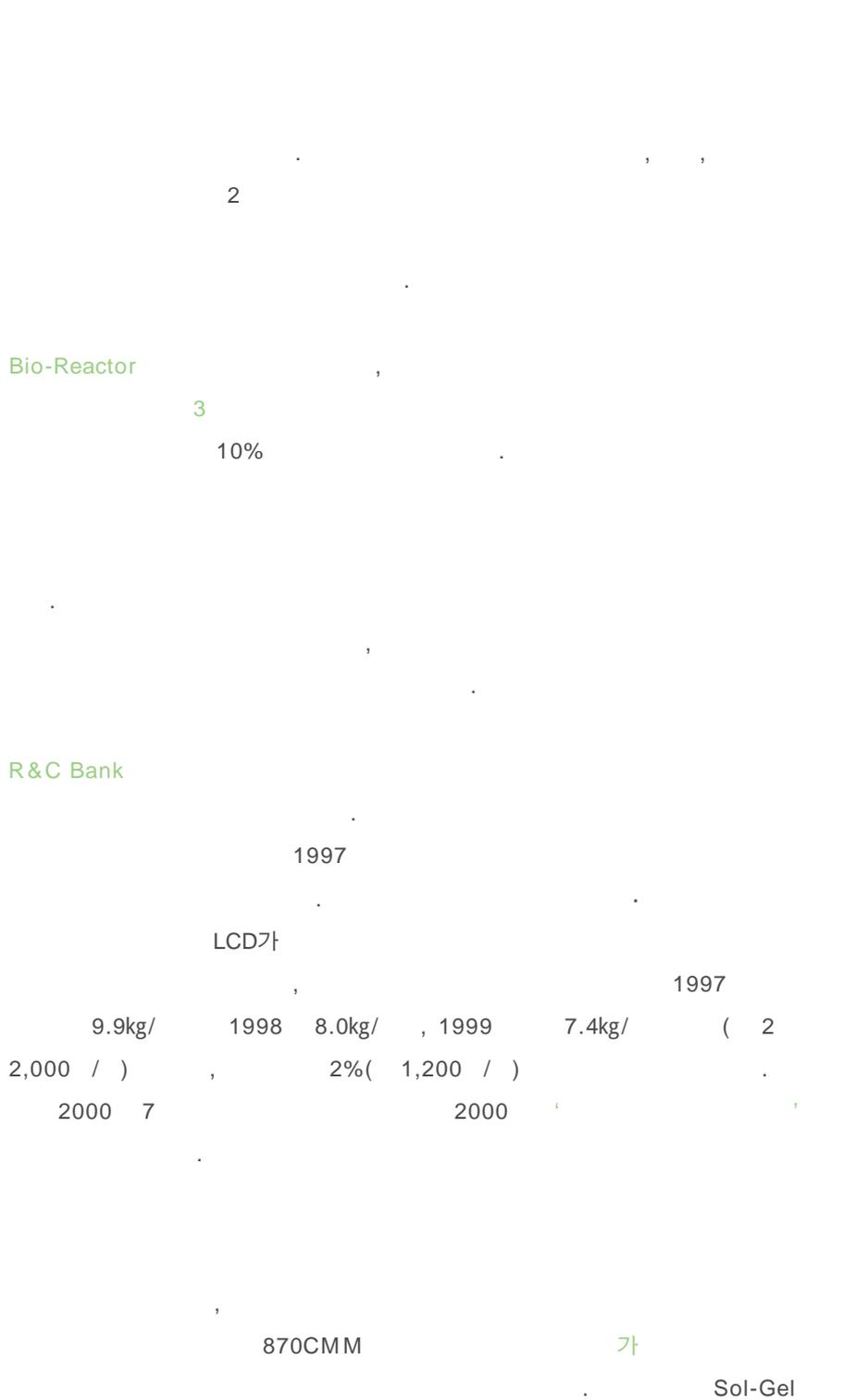
# 사업장의 녹색화

Greening of Workplaces

3無 ( , , )

24

가



3





Tact Time

Calling

CCTV

Emergency

1

2001 5

가

3119

3119 1995 10

가 가

1

3119

HACCP

HACCP( )

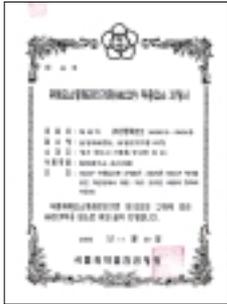
. HACCP

,가 , ,

가



3119



HACCP



가

1995

가

28

24



지역사회의 녹색화 Greening of Communities



1 1 1 가

1 1 1 가

가

1999



가



가

가

1998

10

2

가

BOD

6

3



가



1996 5 ' , . . 가 ,

1999

6 ISO 14001 , 1999

ISO 14001

가 , 가

가 가 .

가(EPE) ,

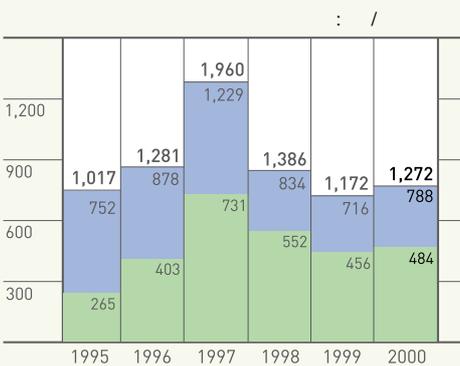
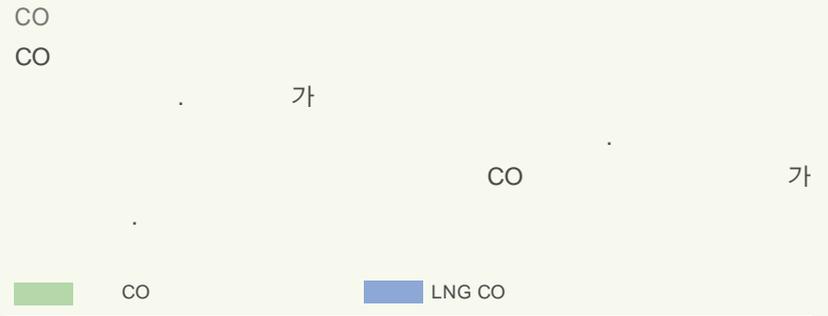
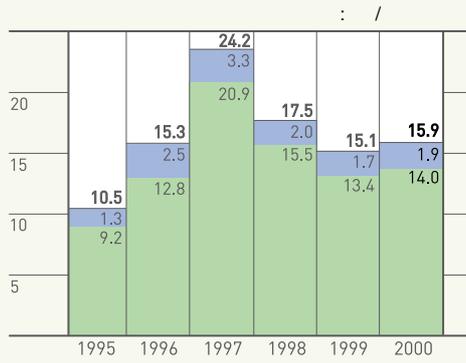
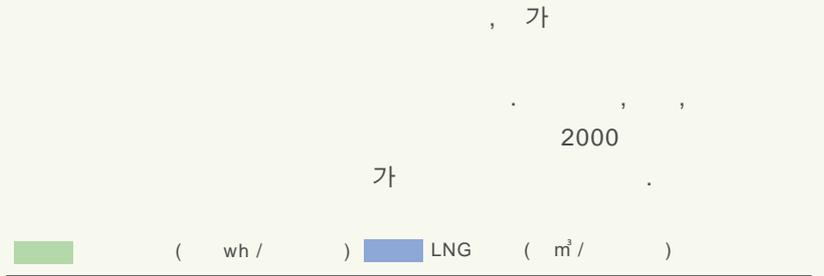
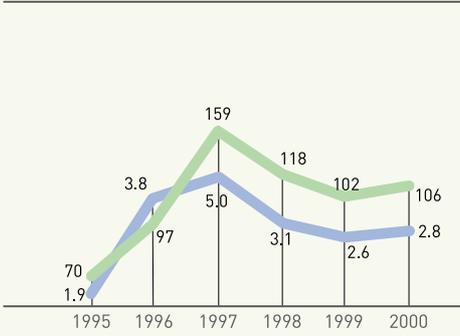
가(LCA)

21 가

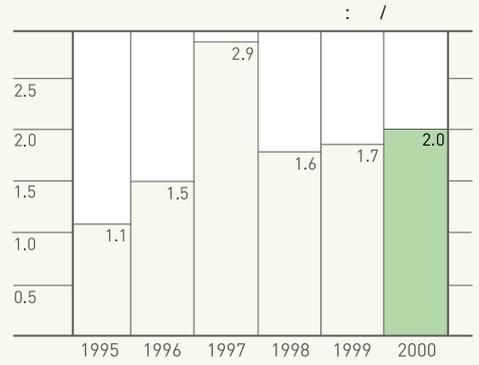


# 녹색경영 성과 관리지표

Indicators of Performance



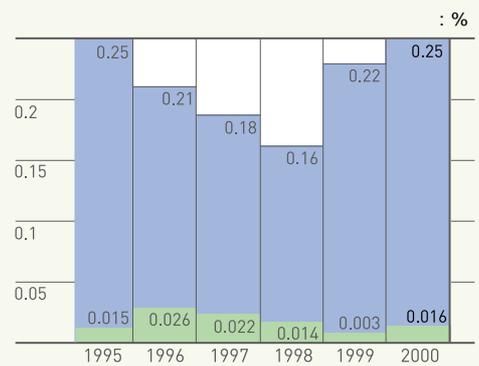
1999 가 2000 가



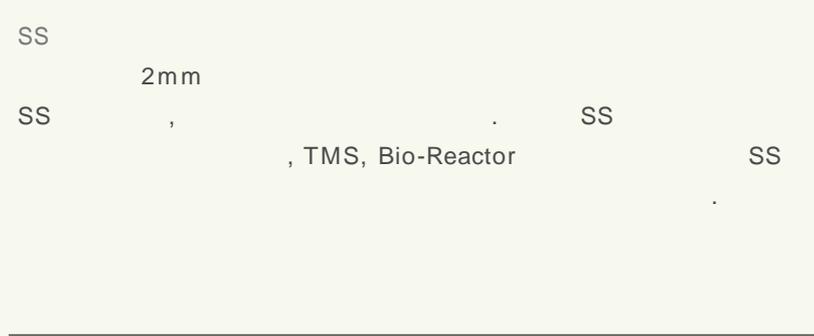
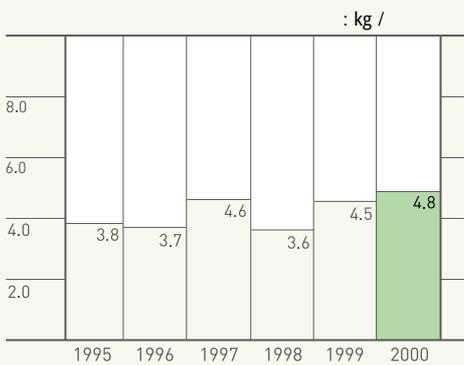
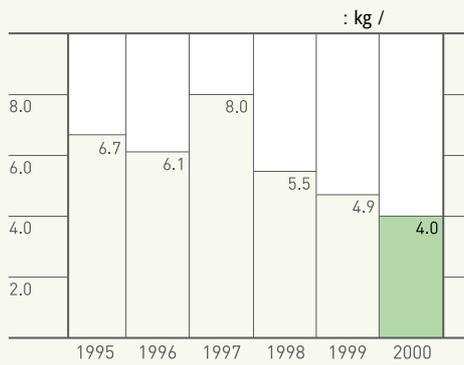
Bank 가 R&C 가



2000 12 , 24 60

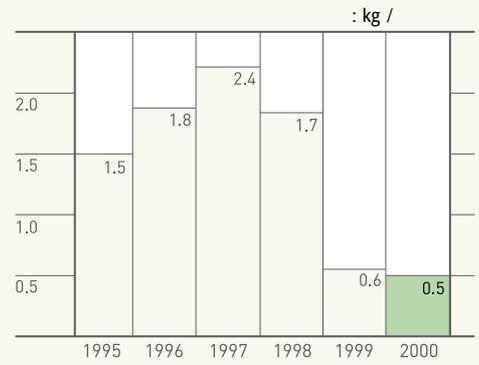


Indicators of Performance



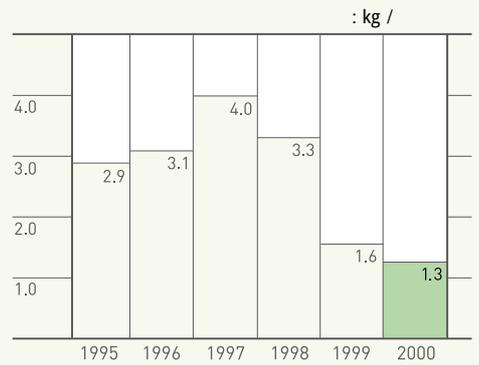
SOx

SOx  
LNG  
SOx



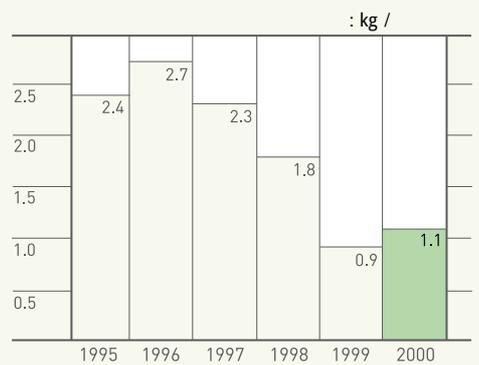
NOx  
NOx

NOx  
NOx  
가



Dust  
Dust

가  
Dust  
Dust  
Dust  
Dust



## 인증 및 수상

1999. 6 ( , )	2000. 7	1999. 11 ( )	1999. 11 KOSHA 2000 ( )
1999. 11 KOSHA 2000 ( )	2000. 10	2000. 6 ISO 14001 OHSAS 18001(BS8800/Safety Cert)	1999. 11 ( )
2000. 6	2000. 11 NSC AWARD (Presidential Special Award)	2000. 11 TPM	2000. 10 ( )
2000. 11 ISO 14001 & OHSAS 18001	1999. 12 ISO 14001 OHSAS 18001(BS8800/Safety Cert)	2001. 1 5 (960 )	2000. 11 ( )
2001. 7	2000. 4 UNEP	2000. 6	
	2000. 5	( , )	
1999. 12 ISO 14001 OHSAS 18001(BS8800/Safety Cert)	2000. 12	2000. 6 KOSHA 2000 ( )	

