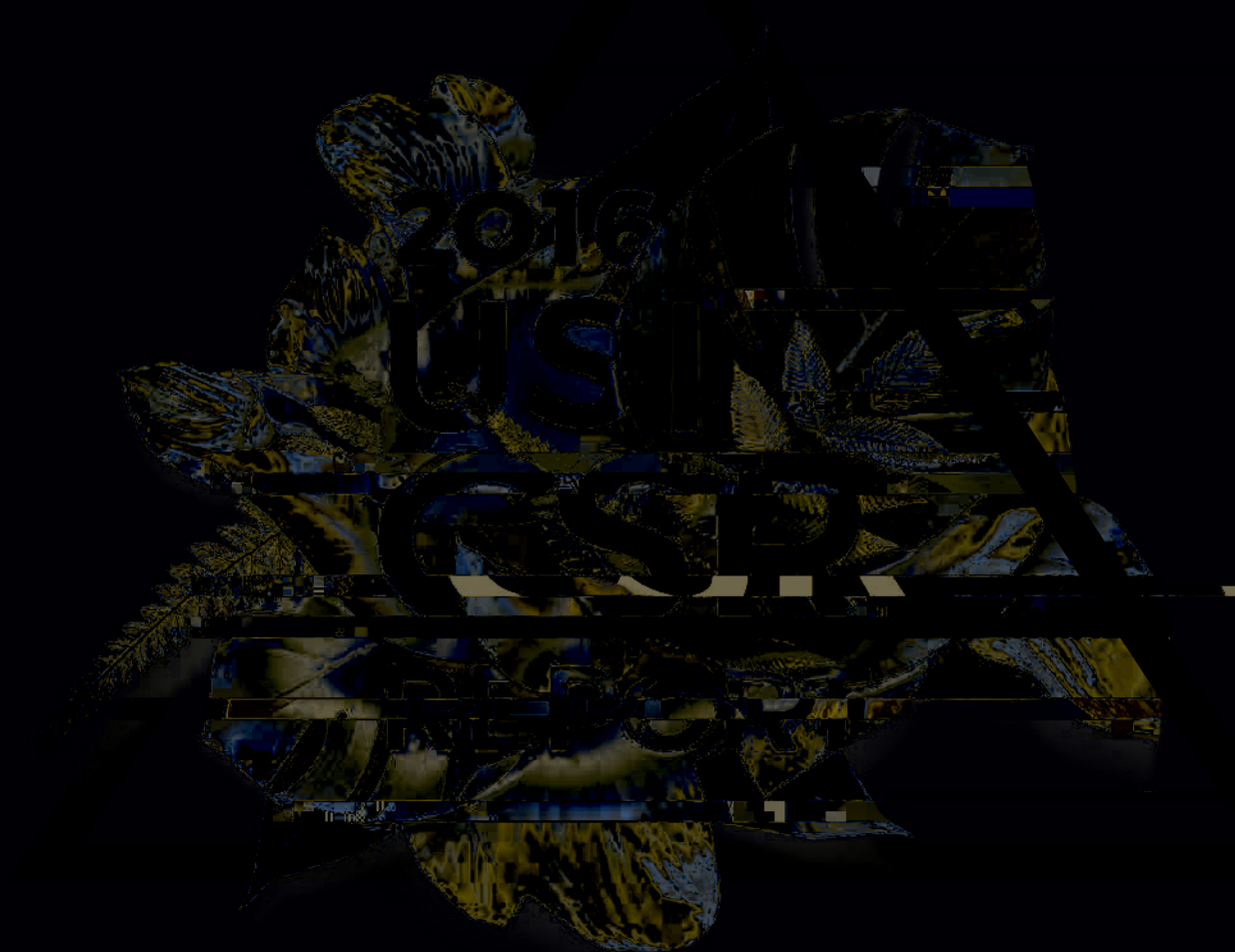




Global Reporting Initiative,

GRI G4
ESG

2010-2012

ESG

2016

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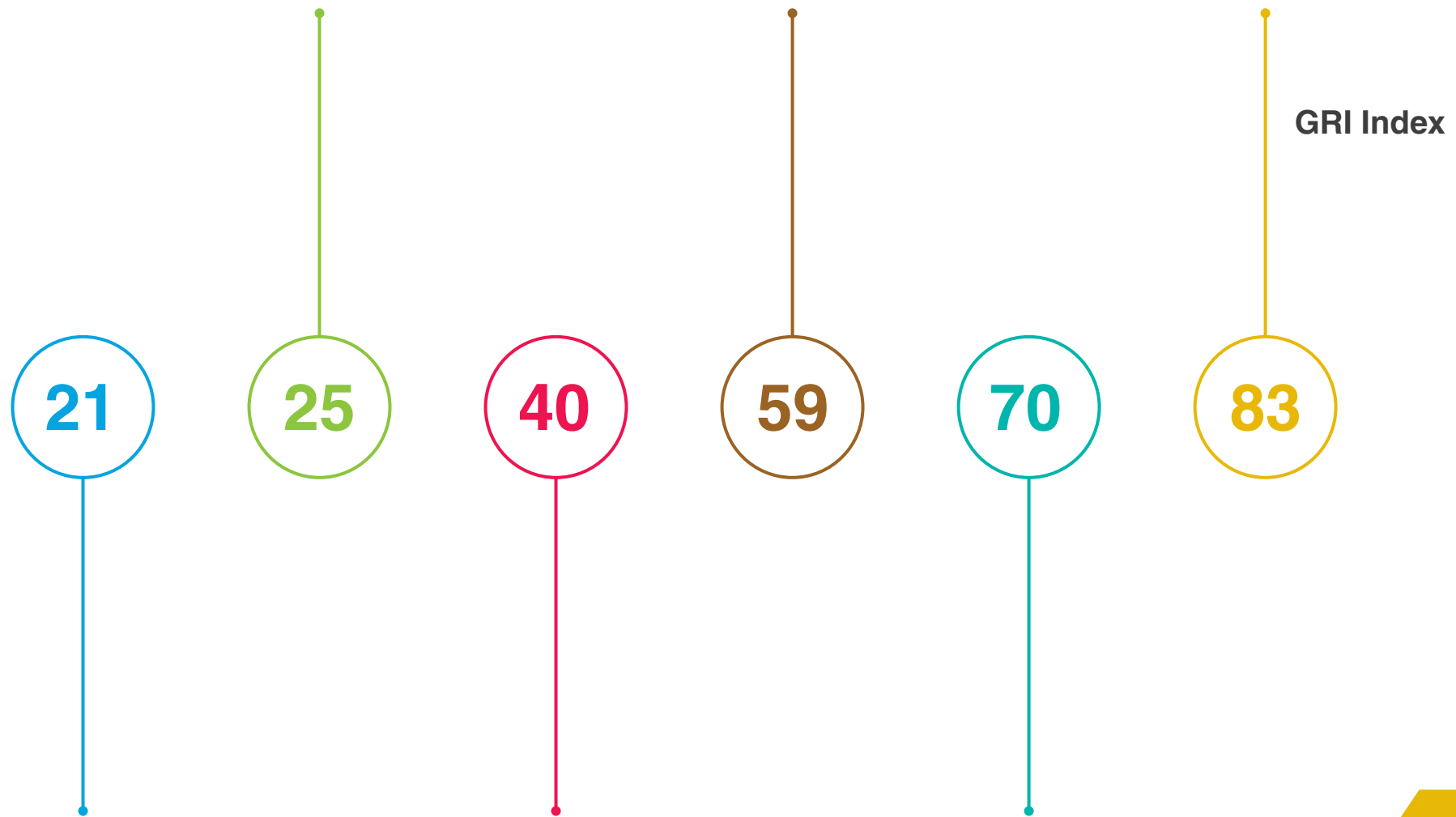
CONTENTS



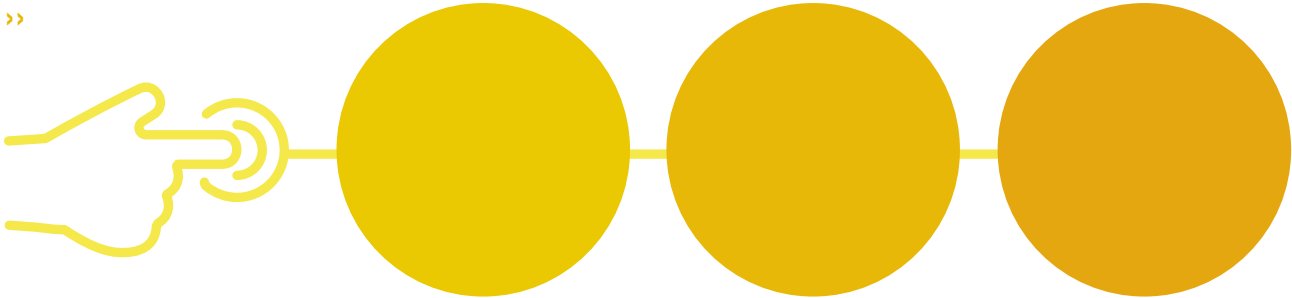
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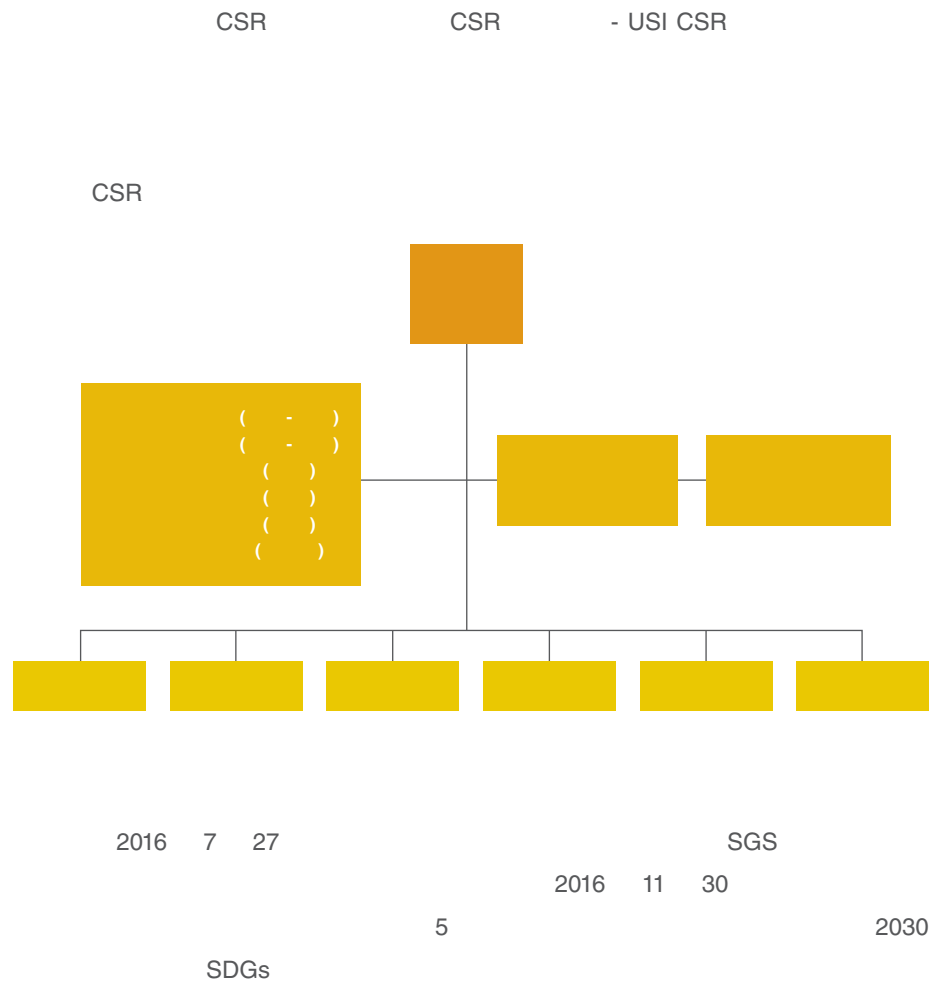
Environmental, Social and Governance, ESG



ESG

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2016



- Micron Micron CPG 2016 Most Valued SSD Partner
- Micron B2B Project Appreciate Award
- Netgear Best NPI Performance-Runner up
- Lenovo Service Excellence
- Sugon
- TOKAI RIKI, Co. Special Process Certification Lead-Free

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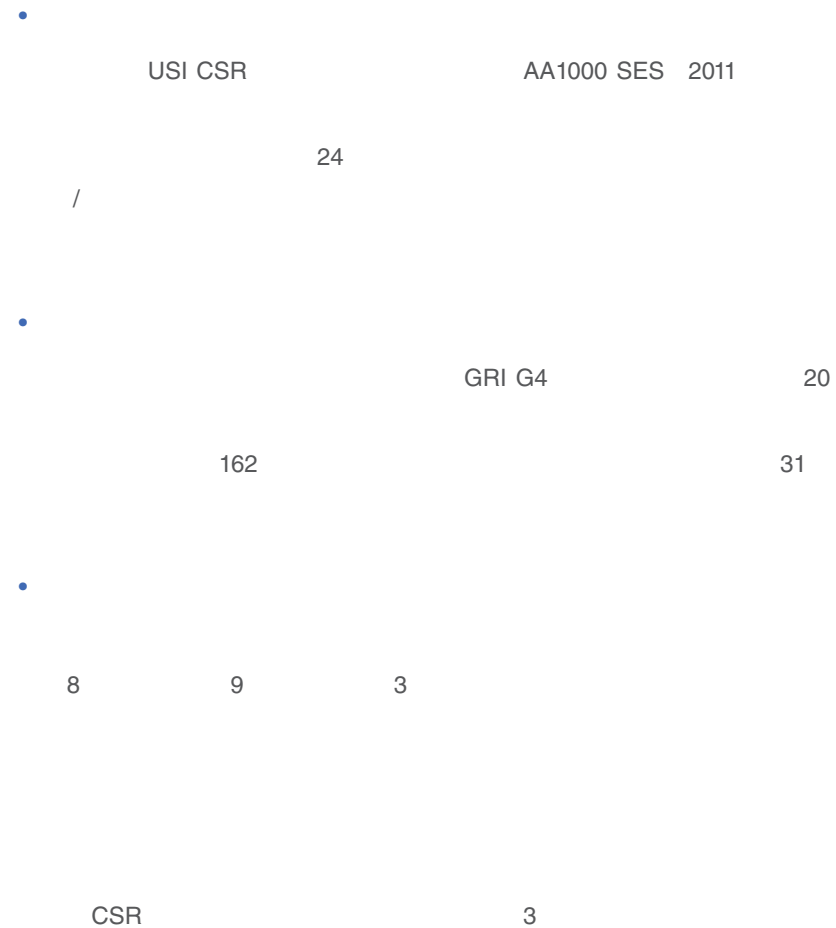
- 2016 100
- 2016 100
- ELI
- BSI
- ISO 14001 2015
- 2016
- 2015
- 2015
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- ISO 14001:2015
- ISO 14064-1
- 2015
- 2016 -

- 2016
- OHSAS 18001:2007
- 2016
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Universal Scientific Industrial Shanghai Co., Ltd.

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2,175,923,580

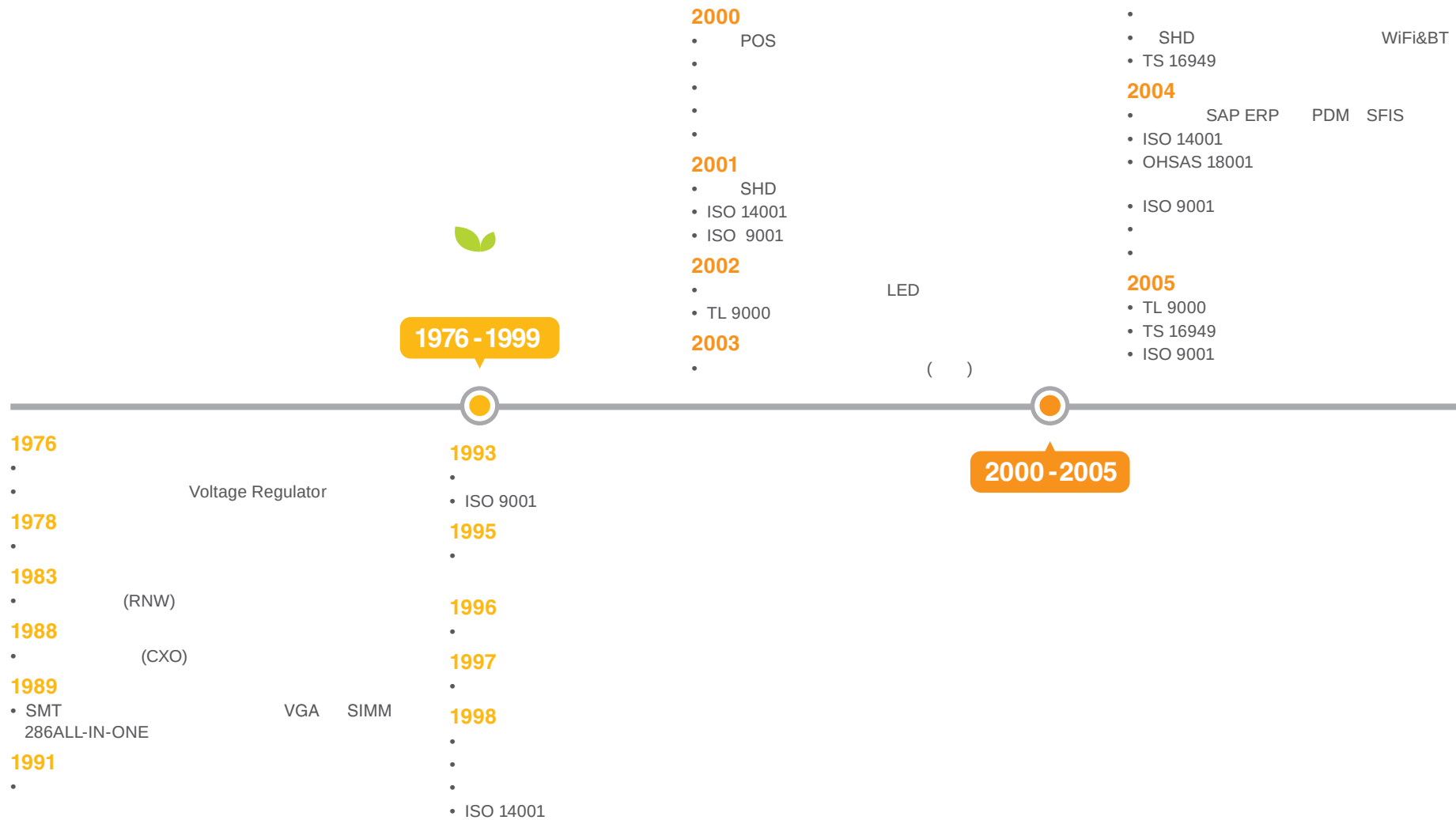
/ 601231 /

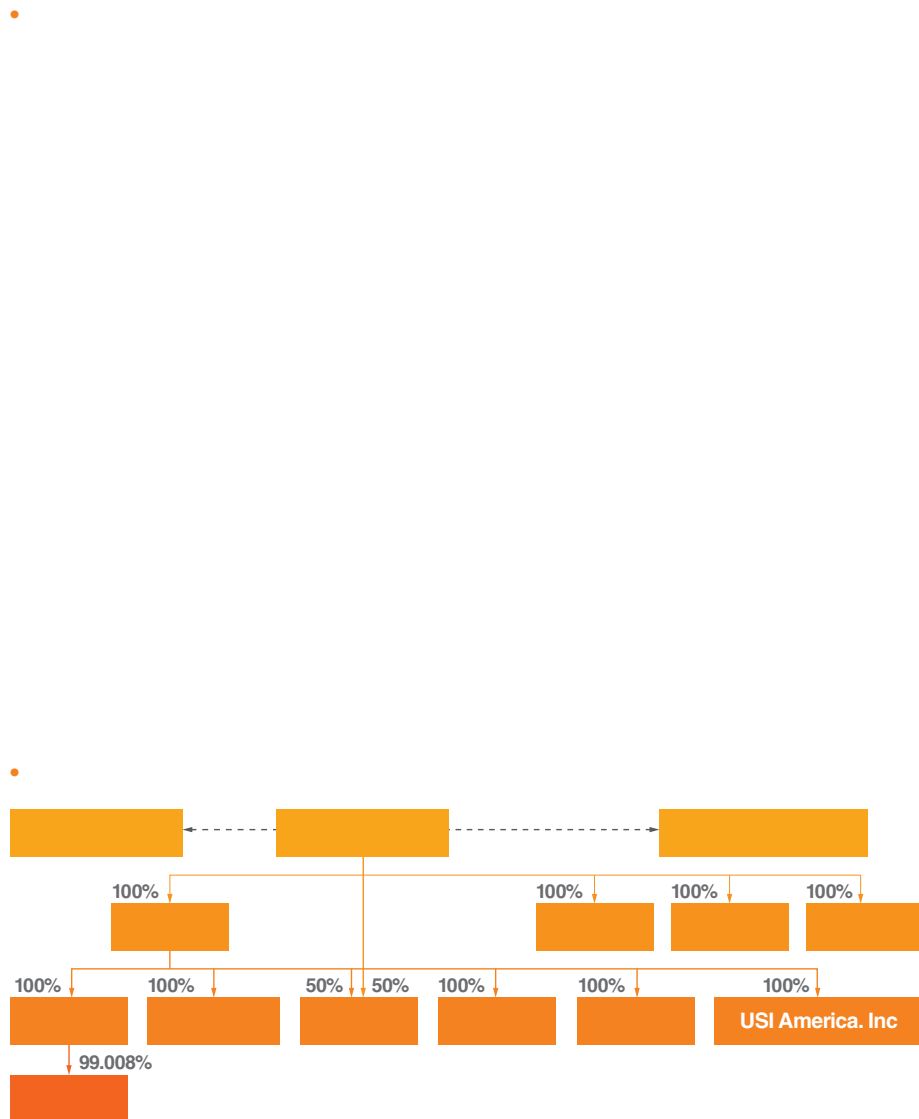
2012 2 20

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15,119 2016 12 31

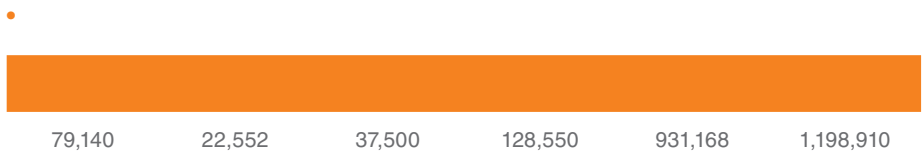
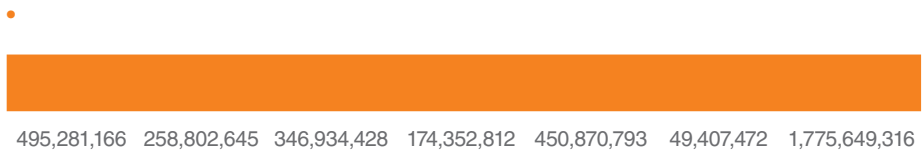
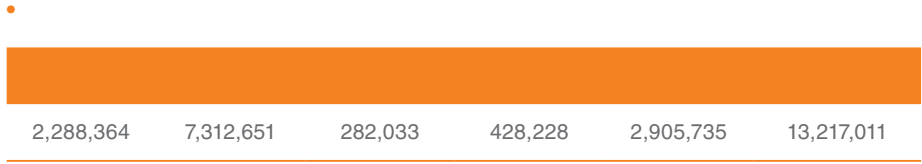
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2016		239.84	2015	12.02%
8.06	2015	5.83%	239.84	
	78.68	75.37		8.84
3.69%		2.18	0.91%	
459,567,895				

	2016	2015
1. Total population		
2. Total population aged 15 and over		
3. Total population aged 15 and over, female		
4. Total population aged 15 and over, male		
5. Total population aged 15 and over, female, 15-19		
6. Total population aged 15 and over, female, 20-24		
7. Total population aged 15 and over, female, 25-29		
8. Total population aged 15 and over, female, 30-34		
9. Total population aged 15 and over, female, 35-39		
10. Total population aged 15 and over, female, 40-44		
11. Total population aged 15 and over, female, 45-49		
12. Total population aged 15 and over, female, 50-54		
13. Total population aged 15 and over, female, 55-59		
14. Total population aged 15 and over, female, 60-64		
15. Total population aged 15 and over, female, 65-69		
16. Total population aged 15 and over, female, 70-74		
17. Total population aged 15 and over, female, 75-79		
18. Total population aged 15 and over, female, 80-84		
19. Total population aged 15 and over, female, 85-89		
20. Total population aged 15 and over, female, 90-94		
21. Total population aged 15 and over, female, 95-99		
22. Total population aged 15 and over, female, 100+		
23. Total population aged 15 and over, male, 15-19		
24. Total population aged 15 and over, male, 20-24		
25. Total population aged 15 and over, male, 25-29		
26. Total population aged 15 and over, male, 30-34		
27. Total population aged 15 and over, male, 35-39		
28. Total population aged 15 and over, male, 40-44		
29. Total population aged 15 and over, male, 45-49		
30. Total population aged 15 and over, male, 50-54		
31. Total population aged 15 and over, male, 55-59		
32. Total population aged 15 and over, male, 60-64		
33. Total population aged 15 and over, male, 65-69		
34. Total population aged 15 and over, male, 70-74		
35. Total population aged 15 and over, male, 75-79		
36. Total population aged 15 and over, male, 80-84		
37. Total population aged 15 and over, male, 85-89		
38. Total population aged 15 and over, male, 90-94		
39. Total population aged 15 and over, male, 95-99		
40. Total population aged 15 and over, male, 100+		





EICC

2015

Electronic Industry Citizenship

Coalition, EICC

SRC	SRC(Site Review Committee)	2016	CRC	911.4	
	CRC(Corporate Review Committee)		0.34% Target:0.21%		4.88

	SiP	NIC WiFi module	Golden	NIC WiFi
module	4	SiP EVB	4	
200	2012			q



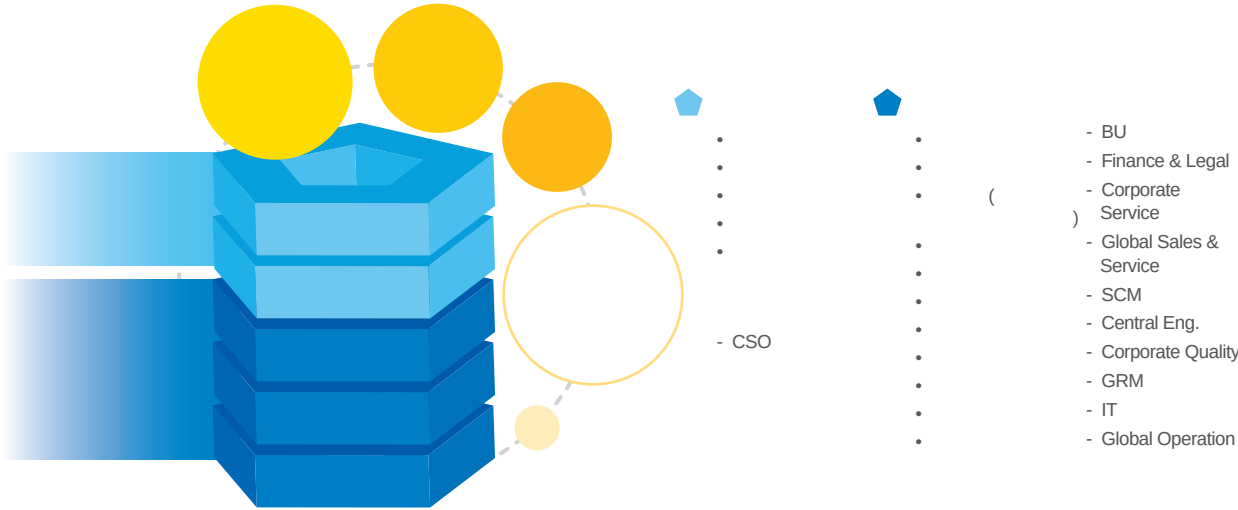
2016

2016

BCM, Business Continuity Management

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2020



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2016



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M	▶ - / ▶ / ▶ / ▶	▶ ▶ ▶ ▶	▶
L	▶ ▶ ▶ ▶ ▶	▶ ▶ ▶ ▶ ▶	▶
	Yes	Partial	No

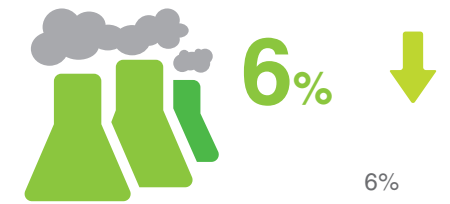


ISO14001 ISO14064-1 ISO 50001

2016



2017



2007

ISO14064-1

2010

	(CO ₂ e /)				
2016	5,758.11	367.56	1,931.57	0.00	142,043.16
2015	5,776.50	349.52	1,899.58	0.00	151,916.97

	(CO ₂ e /)		
	1	2	
2016	8,057.25	142,043.16	150,100.40
2015	8,025.59	151,916.97	159,942.56

1. ISO14064-1

2. 6

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6. 2016

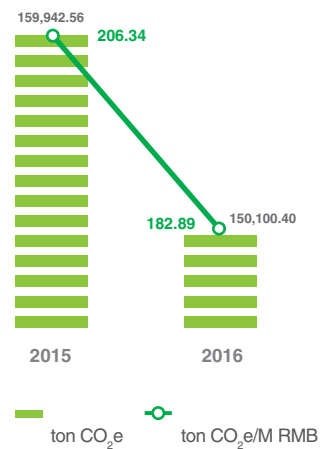
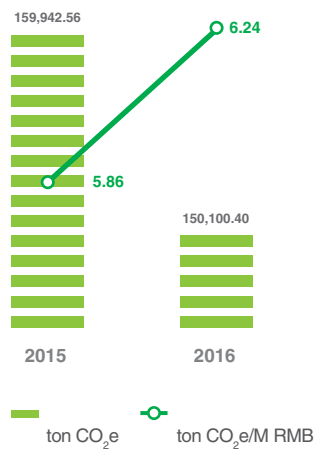
3%

5%

CO₂ CH₄ N₂O HFCs PFCs NF₃ SF₆

(2015)

2016 150,100.40 CO₂e 2015 9,842.16 CO₂e
 6.24 CO₂e 2015 0.39
 CO₂e 2016 182.89
 CO₂e 2015 23.45 CO₂e



	(GJ)			(GJ)	(GJ)
2016	530.25	4,367.25	101,997.58	624,491.07	731,386.15
2015	701.15	4,096.90	101,996.69	643,076.58	749,871.32

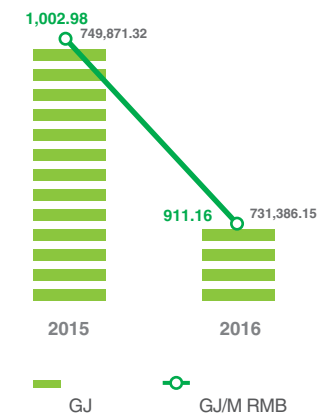
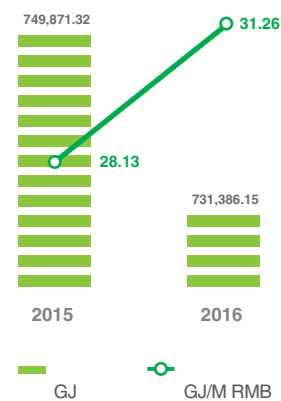
1. ISO14064-1

2.

3.

- 2013 -
 - (2015) 160 -

2016 731,386.15 2015 18,485.17
 2016 2015 3.14
 2016 2015 91.83



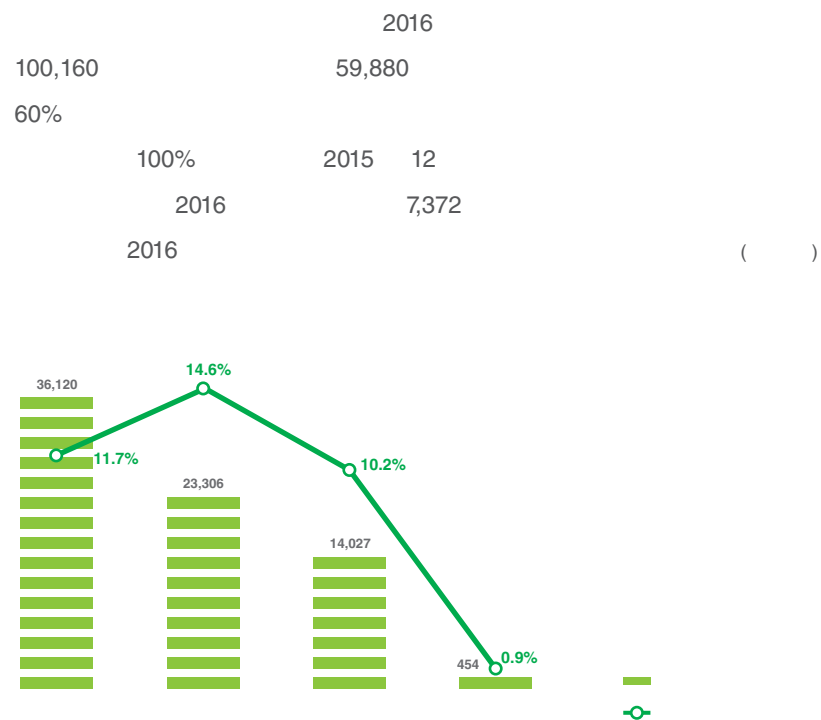
• 2016

			(MWh/year)	(ton CO ₂ e/year)
(A)				
•	2	1200RT	3,559	2,887
• 4	450RT			
•	2		657	589
• 14	YE3		76	68
•	()			
	240RT*2(NO.1&2)	500 RT	840	444
Trane				
•	(KW/RT) 1.21=>0.57			

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2. = ×
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-
- 0.8112 ton CO₂e/MWh
- 2015
- 0.8959 ton CO₂e/MWh
-
- 104
- 0.528 ton CO₂e/MWh

6

2016 717,334



2016

	0.00	32.53	4.07	121.08
	0.00	6.31	0.00	85.15
	0.00	86.98	0.00	32.09
	0.00	0.00	0.00	3.44
	0.00	0.00	1.32	0.00
	6.88	0.00	0.00	16.25

	0.00	522.89	0.00	0.00	24.00
	0.00	238.21	0.00	0.00	39.56
	411.64	2,019.76	0.00	55.27	115.29
	0.00	710.31	0.00	164.61	44.39
	14.85	150.86	27.42	0.00	167.72
	79.24	183.76	0.00	22.24	44.46

GHS

SDS

VOCs

VOCs

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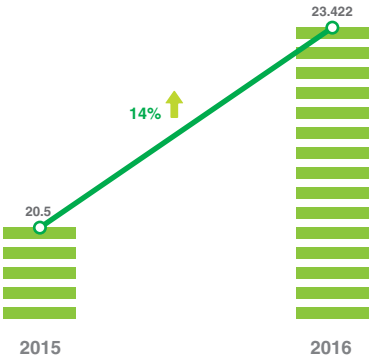
2015

VOCs

10%

2016

14%



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(20.36466)

-

VOCs

2016

VOCs

- 2016

2015

VOCs

2015 VOCs

2015



(VOCs)

13.861

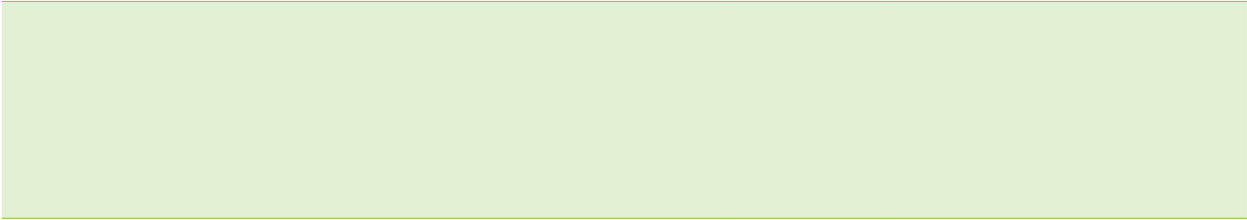
0.4



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USI



2016

2016

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SAR

• RoHS

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RoHS Reduce Reuse Recycle 3R

• 3R

POS-

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• Wall mount

DoE Level-V Level-VI

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75.04% 80.215%

- No load

0.3W 0.1W

• Desktop

DoE Level-V Level-VI

-

87% 88%

- No load

0.5W 0.21W

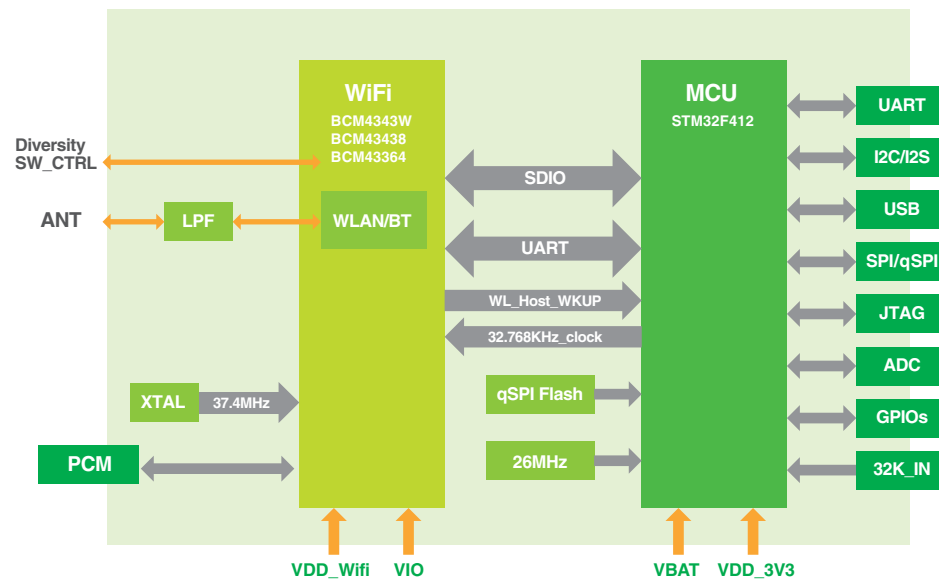
• T

DoE Level 6 0.1W

2016									
•	EU ErP	•	2017	Standby Mode	8W	ErP Lot26 Tier 1	NS	(PWT16)	
		•	2016	4.3524W	8W	ErP Lot26 Tire 1			
		•		USI					
		•				20			PCB
					75%	PCB			
		•		CPU	Virtual	CPU	HDD	CPU/HDD	
		•			Vcore/DDR	20%	90%		
		•				CPU		92%	
		•	BMC/BIOS		Node Manager			USI	
NAS	•	•		87%	DDR4				
		•	SSD	Ultra Low Power	SATA SSD	DEVSLP	<20mW		
		•		<1mW	PCIe Gen3 SSD	L1	sub-states		
		•				/	PWM		
				PFM					

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USI

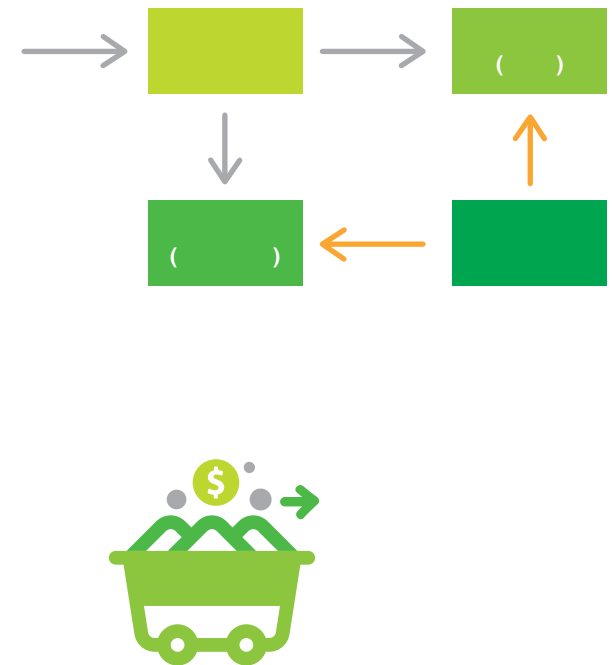


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|-------------|-----------------------|------|
| 1. BCM43364 | IEEE802.11b/g/n | |
| 2. BCM43438 | IEEE802.11b/g/n+BT4.1 | |
| 3. BCM4343W | IEEE802.11b/g/n+BT4.1 | A4WP |

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(MFCA, Material Flow Cost Accounting)

• MFCA



2016

MFCA

0.02% 0.09%

• GPMS EHS

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e-learning

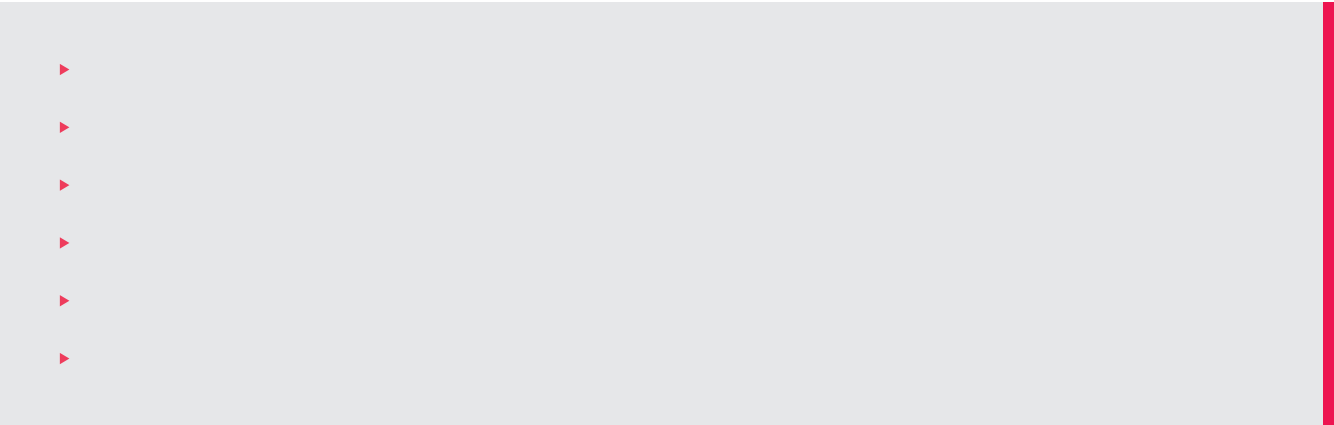
2016

2016



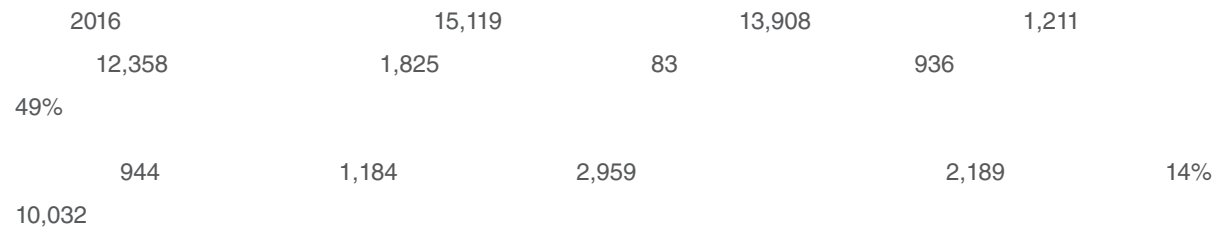


2008 6 EICC

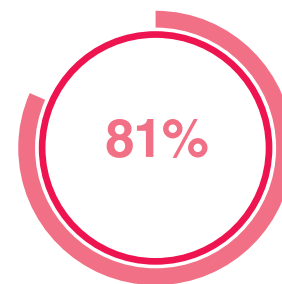
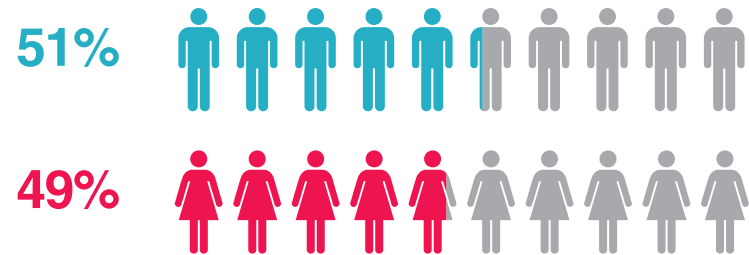


105% 2016 1 16,434 15,985

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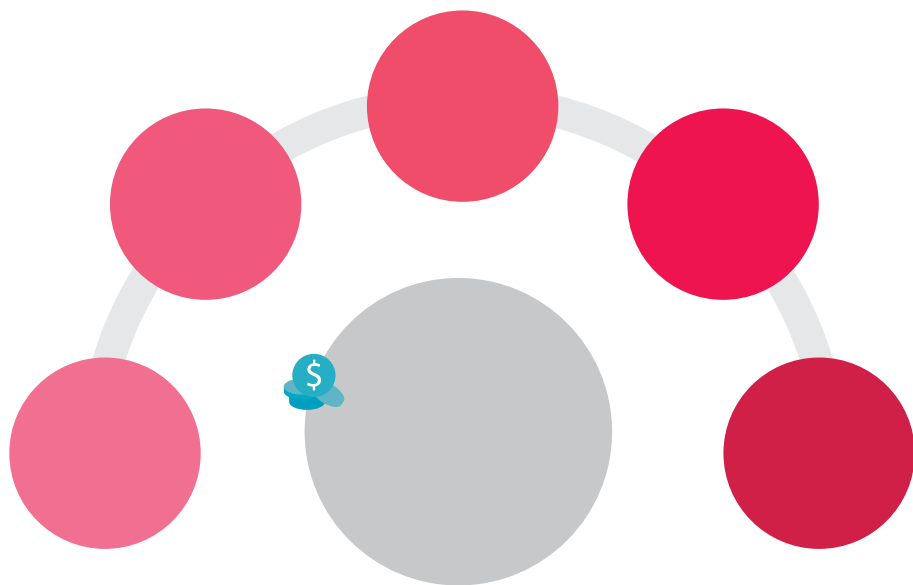
15,119
15,119



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USIU

USIU

2016 360,081
23.8 24.0 23.6

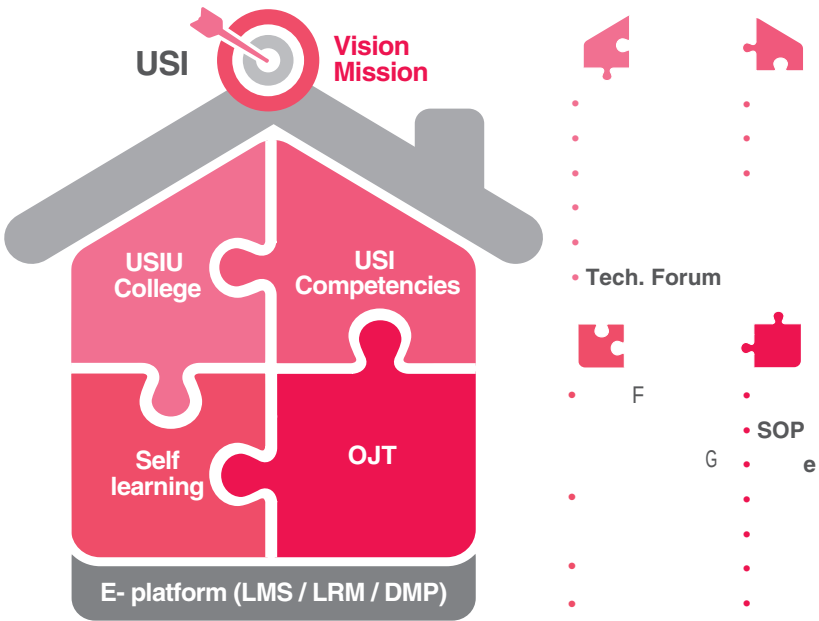


360,081 hours

360,081
23.8

	1,436	89	16.1
	16,609	604	27.5
	3,030	251	12.1
	37,159	2,959	12.6
	18,620	1,184	15.7
	249,545	10,032	24.9
	76,853	5,087	15.1
	167,102	10,258	16.3
	163	89	1.8
	1,447	604	2.4
	643	251	2.6
	8,783	2,959	3.0
	5,107	1,184	4.3
	6,532	10,032	0.7
	16,143	5,087	3.2
	5,261	10,258	0.5
	164	89	1.8
	1,286	604	2.1
	309	251	1.2
	4,386	2,959	1.5
	2,742	1,184	2.3
	2,121	10,032	0.2
	8,887	5,087	1.7
	3,481	10,258	0.3

• USI



Leadership & Management Forum



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USIU

2016

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76	77	63	99	189	9	
49	27	23	40	46	14	

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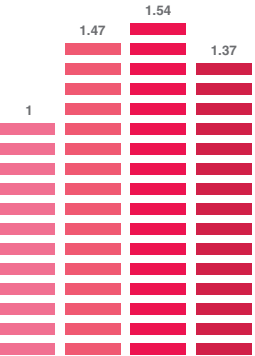
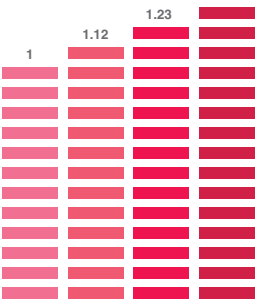
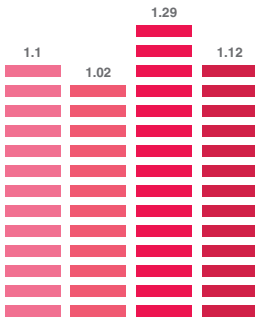
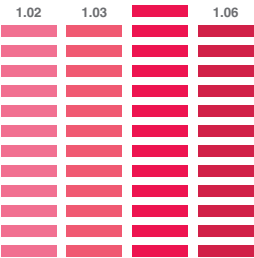
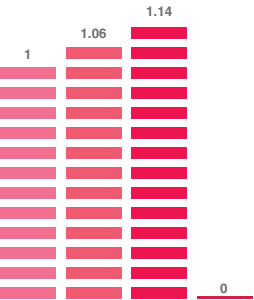
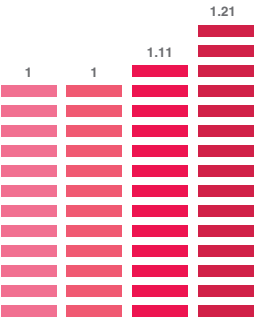
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• 2016

703	685	97.44%
2,366	2,366	100.00%
338	338	100.00%
4,323	0	0.00%
7,730	3,389	43.84%
241	240	99.59%
593	593	100%
846	846	100%
5,709	0	0.00%
7,389	1,679	22.72%
15,119	5,068	33.52%

• 2016

700	682	97.43%
2,189	2,189	100.00%
320	320	100.00%
3,225	3,225	100.00%
6,434	6,416	99.72%
240	239	99.58%
562	562	100.00%
801	801	100.00%
4,696	4,696	100.00%
6,299	6,298	99.98%
12,733	12,714	99.85%

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2016

2017

2017 1

Q&A



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2016
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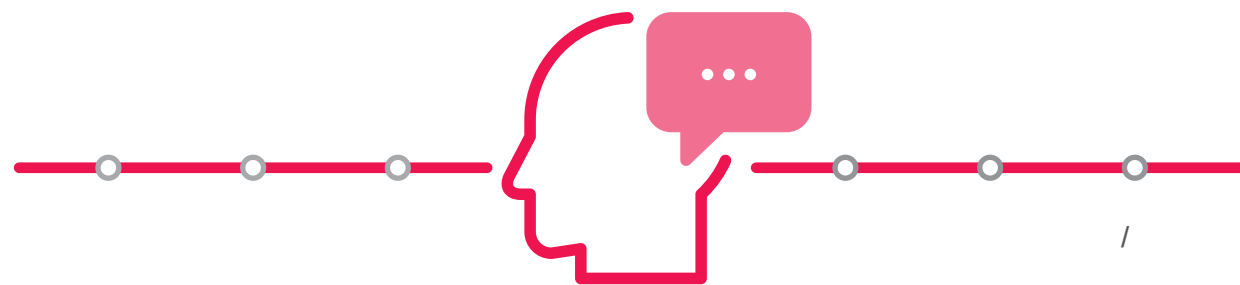
	216	77	293
	2	5	7
	3	2	5
	1	2	3
	0	2	2
	0	2	2
	33%	100%	60%
	-	100%	100%

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3. 20 2016 ÷
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× 100%

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40% 63%



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ODM/EMS

DMS

DMS



TL 9000	2005	2015	2002	2013	-	-
ISO 9001	2004	2015	2001	2011	1993	2005
TS 16949	2007	-	-	2013	2003	2005
IECQ QC080000	2007	2015	2007	2012	2006	2007
ANSI/ESD S20.20	2013	2015	-	-	-	-
ISO 13485	-	-	-	2014	-	-



98.5%

e-RMA

SAP

e-RMA

RMA

e-Return Material Authorization

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FA Analysis

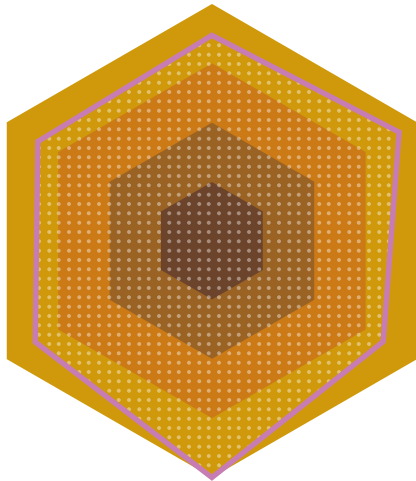
2020 87%

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• 2016

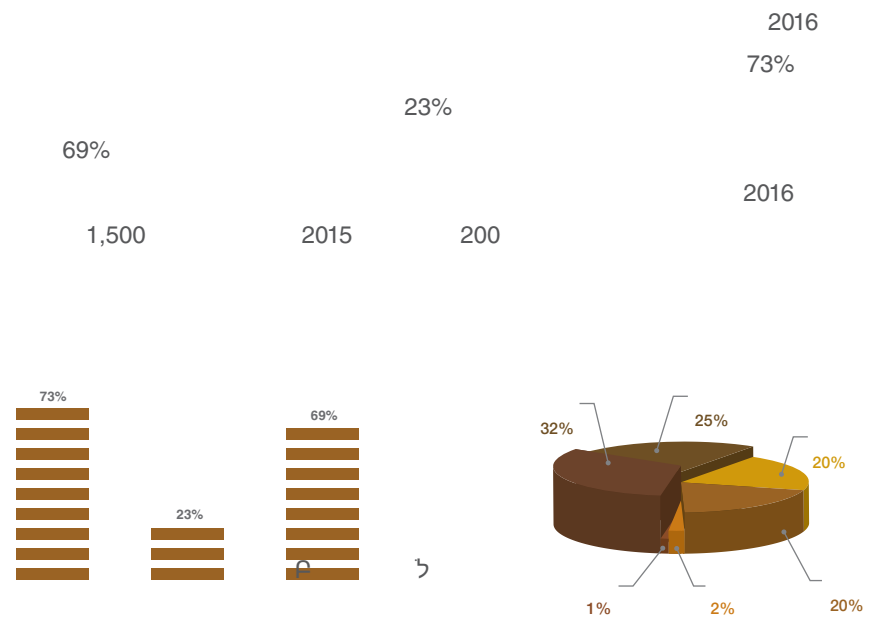
Micron	Micron CPG 2016 Most Valued SSD Partner
Micron	B2B Project Appreciate Award
Netgear	Best NPI Performance-Runner up
Lenovo	Service Excellence
Sugon	
TOKAI RIKA, Co.	Special Process Certification (Lead-Free)





ErP

UL, TUV, CCC



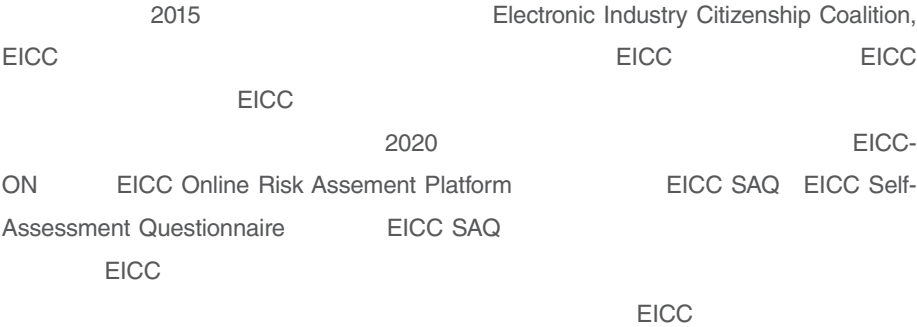
• 2016

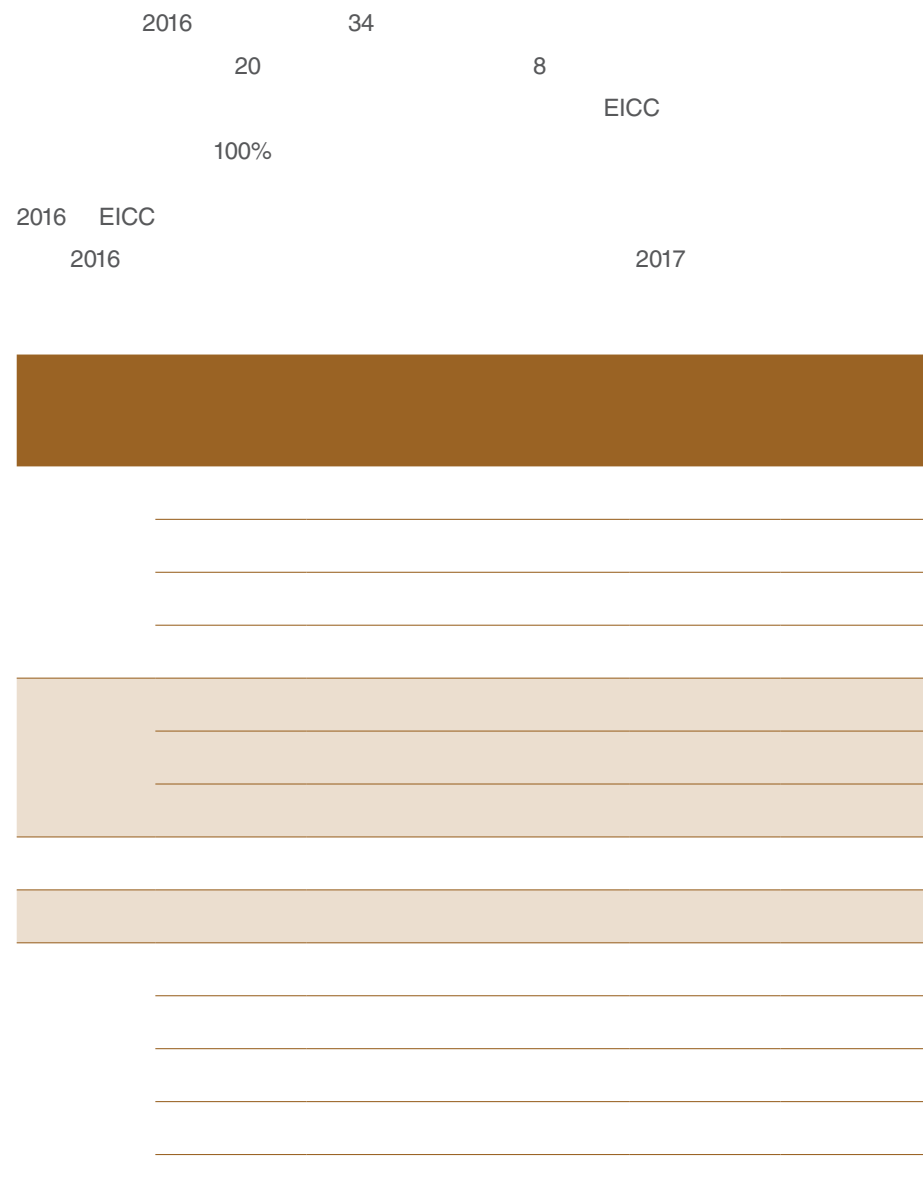
504	104	880	679	457	183
42%	6%	18%	10%	21%	3%

Vendor Rating

QC080000

EICC





QBR Quarterly Business Review

WEEE RoHS REACH CMRT



2015

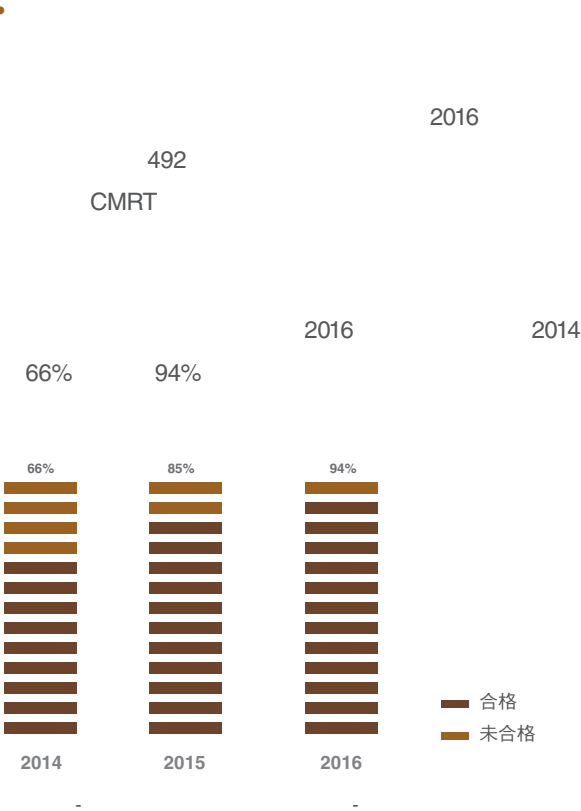
2016 11/25 11/29 12/1 12/5

USI

SDGs

EICC

Buymanager



1. CMRT, Conflict Minerals Reporting Template
2. SEC, United States Securities and Exchange Commission



▶ 2005

▶



▶

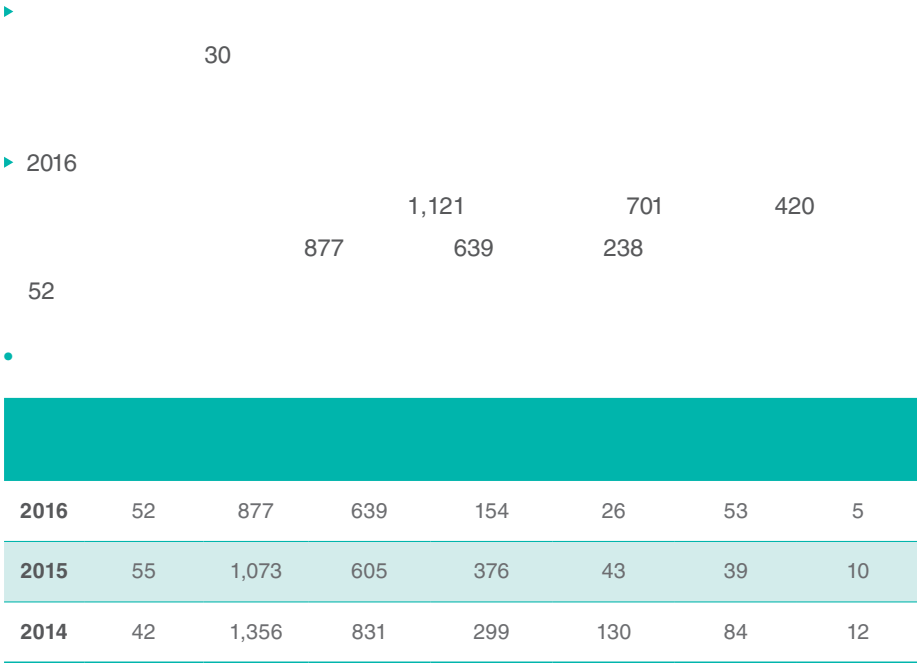
▶

► 2007

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2007 2016



2016

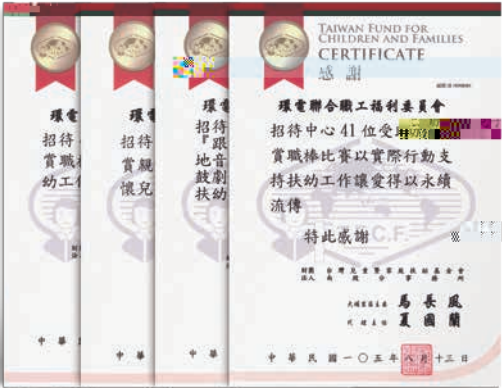


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- 2015
- 2016 4 9 12 3
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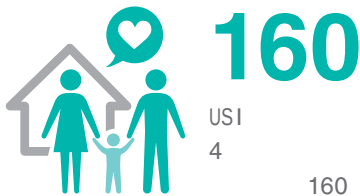
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18 3 4 23 2016 -

LOGO

LOGO



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ECCO

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2016

2016

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2016 8 10

2016 9

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2016

USI

2,000

2,160

108% USI

60-35(6)U/C20 1 Tf-0.007 T -04401 Tw 2.44017E2.2



Logo



ICC

332.83



2005

100

2016

USI

728



1929

2016

5,000



2016

USI

2016

USI

1



7

26

30

DIY



2011

2014

2015

2,000



ASSURANCE STATEMENT

SGS TAIWAN LTD.'S REPORT ON SUSTAINABILITY ACTIVITIES IN THE UNIVERSAL SCIENTIFIC INDUSTRIAL (SHANGHAI) CO., LTD.'S CORPORATE SOCIAL RESPONSIBILITY REPORT FOR 2016

NATURE AND SCOPE OF THE ASSURANCE/VERIFICATION

SGS Taiwan Ltd. (hereinafter referred to as SGS) was commissioned by UNIVERSAL SCIENTIFIC INDUSTRIAL (SHANGHAI) CO., LTD. (hereinafter referred to as USI) to conduct an independent assurance of the Corporate Social Responsibility Report for 2016 (hereinafter referred to as CSR Report). The scope of the assurance, based on the SGS Sustainability Report Assurance methodology, included the text, and data in accompanying tables, contained in this report.

The information in the USI's CSR Report of 2016 and its presentation are the responsibility of the directors or governing body, superintendents, CSR committee and the management of USI. SGS has not been involved in the preparation of any of the material included in USI's CSR Report of 2016.

Our responsibility is to express an opinion on the text, data, graphs and statements within the scope of verification with the intention to inform all USI's stakeholders.

The SGS protocols are based upon internationally recognized guidance, including the Principles contained within the Global Reporting Initiative (GRI) Sustainability Reporting Guidelines (2013) for accuracy and reliability and the guidance on levels of assurance contained within the AA1000 series of standards and guidance for Assurance Providers.

This report has been assured using our protocols for:

- evaluation of content against the AA1000 Assurance Standard (2008) Type 1 evaluation of the report content and supporting management systems against the AA1000 Accountability Principles (2008); and
- evaluation of the report content of 9 indicators (G4-EN3, G4-EN6, G4-EN10, G4-EN15, G4-EN16, G4-EN18, G4-EN21, G4-EN22, & G4-EN23) of 5 sites-Taiwan, Zhangjiang, Shenzhen, Jinjiao & Kunshan against the AA1000 Accountability Principles (2008) for Type 2, high level assurance as follows:
 - G4-EN3 ENERGY CONSUMPTION WITHIN THE ORGANIZATION
 - G4-EN6 TOTAL WATER WITHDRAWAL BY SOURCE
 - G4-EN10 PERCENTAGE AND TOTAL VOLUME OF WATER RECYCLED AND REUSED
 - G4-EN15 DIRECT GREENHOUSE GAS (GHG) EMISSIONS
 - G4-EN16 ENERGY INDIRECT GREENHOUSE GAS (GHG) EMISSIONS
 - G4-EN18 GREENHOUSE GAS (GHG) EMISSIONS INTENSITY
 - G4-EN19 REDUCTION OF GREENHOUSE GAS (GHG) EMISSIONS
 - G4-EN21 NOx, SOx AND OTHER SIGNIFICANT AIR EMISSIONS only for VOC
 - G4-EN23 TOTAL WEIGHT OF WASTE BY TYPE AND DISPOSAL METHOD
- evaluation of the report against the Global Reporting Initiative Sustainability Reporting Guidelines (2013).

The assurance comprised a combination of pre-assurance research, interviews with relevant employees, superintendents, CSR committee members and the senior management in Taiwan, documentation and record

GRI Index

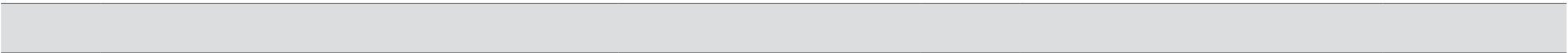
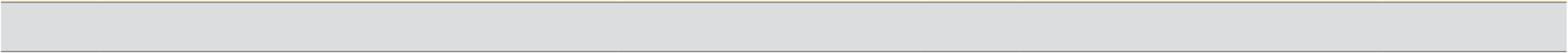
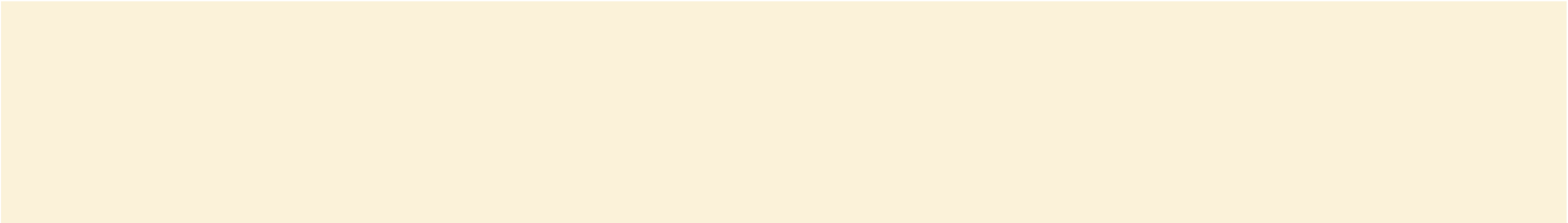
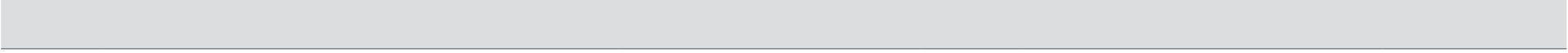
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〒 神奈川県横浜市港北区新横浜
住友不動産 新横浜ビル



企业社会责任报告书

Corporate Social Responsibility Report



FSC

RoHS

1558
351 141

+86-21-5896-6996
+886-49-235-0876

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<http://csr.usish.com/index.php>

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Realizing I.I.E. Together