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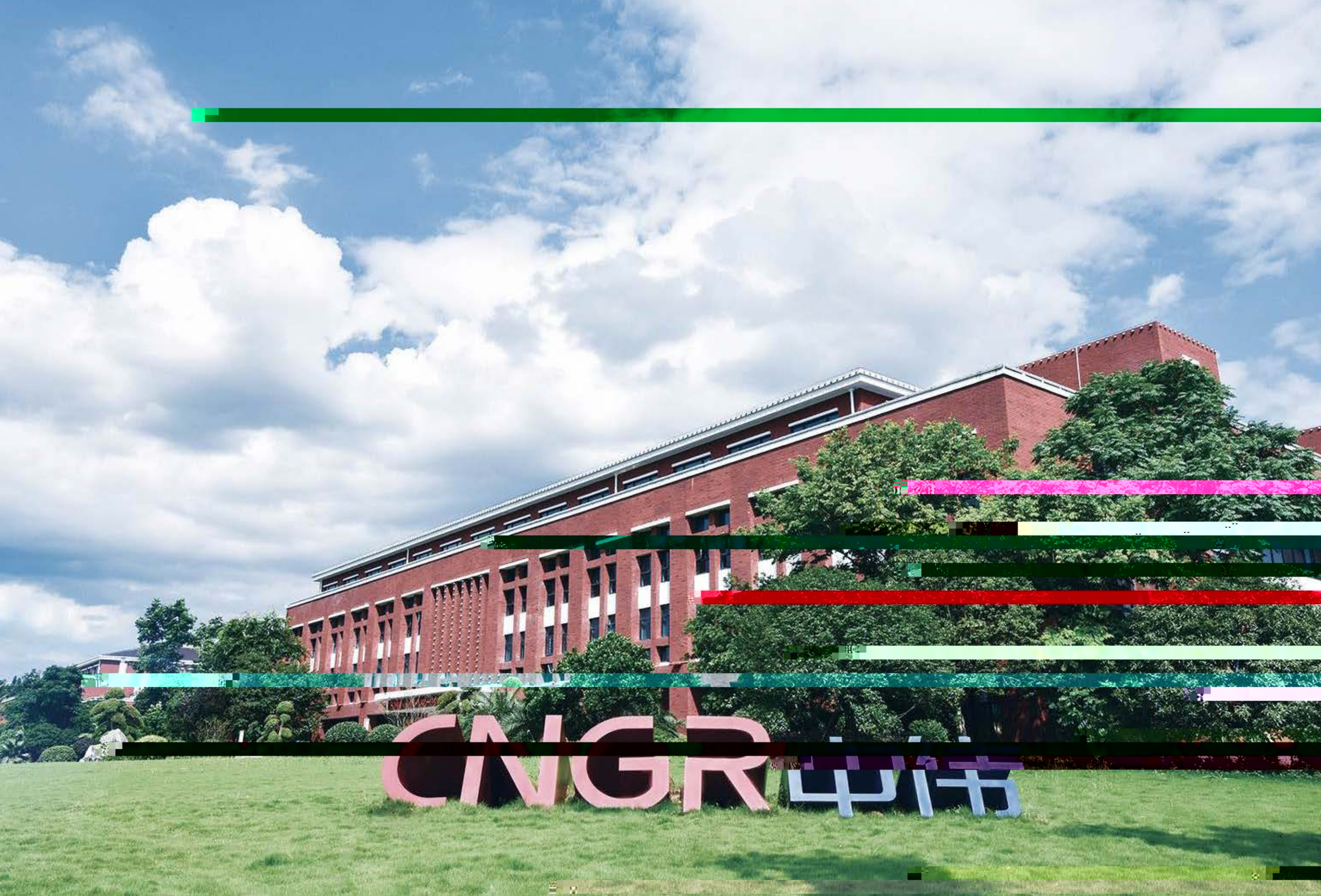
2023

ESG

2023 Environmental, Social, and Governance Report

CNGR中伟




CNGR中伟

“ ESG ”
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A107 :

2023 1 1 2023 12 31

GSSB GRI GRI Standards 2021
2030 UN SDGs UNGC
SASB SASB
Standards TCFD

TÜV AA1000 v3 “ AA1000AS v3 ”
“ ”

2024 4 23
2025 3

http://www.cngrgf.com.cn/shzr.html

+86 856 3238558

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cngrCSR@cngrgf.com.cn



2023

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POSCO AL MADA

Cronimet

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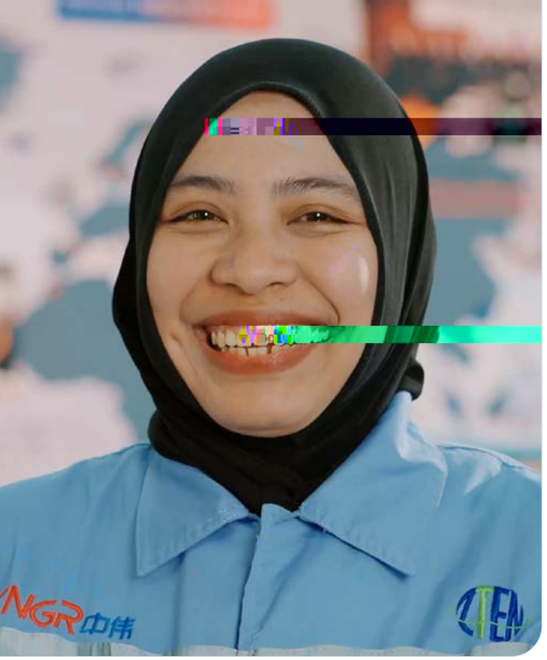
2023

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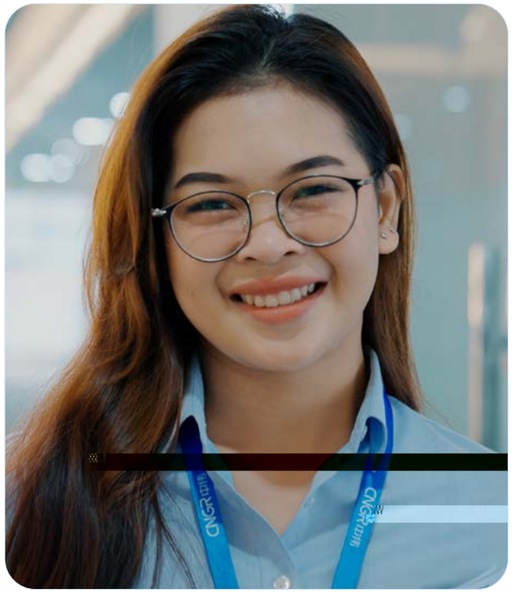
SDGs











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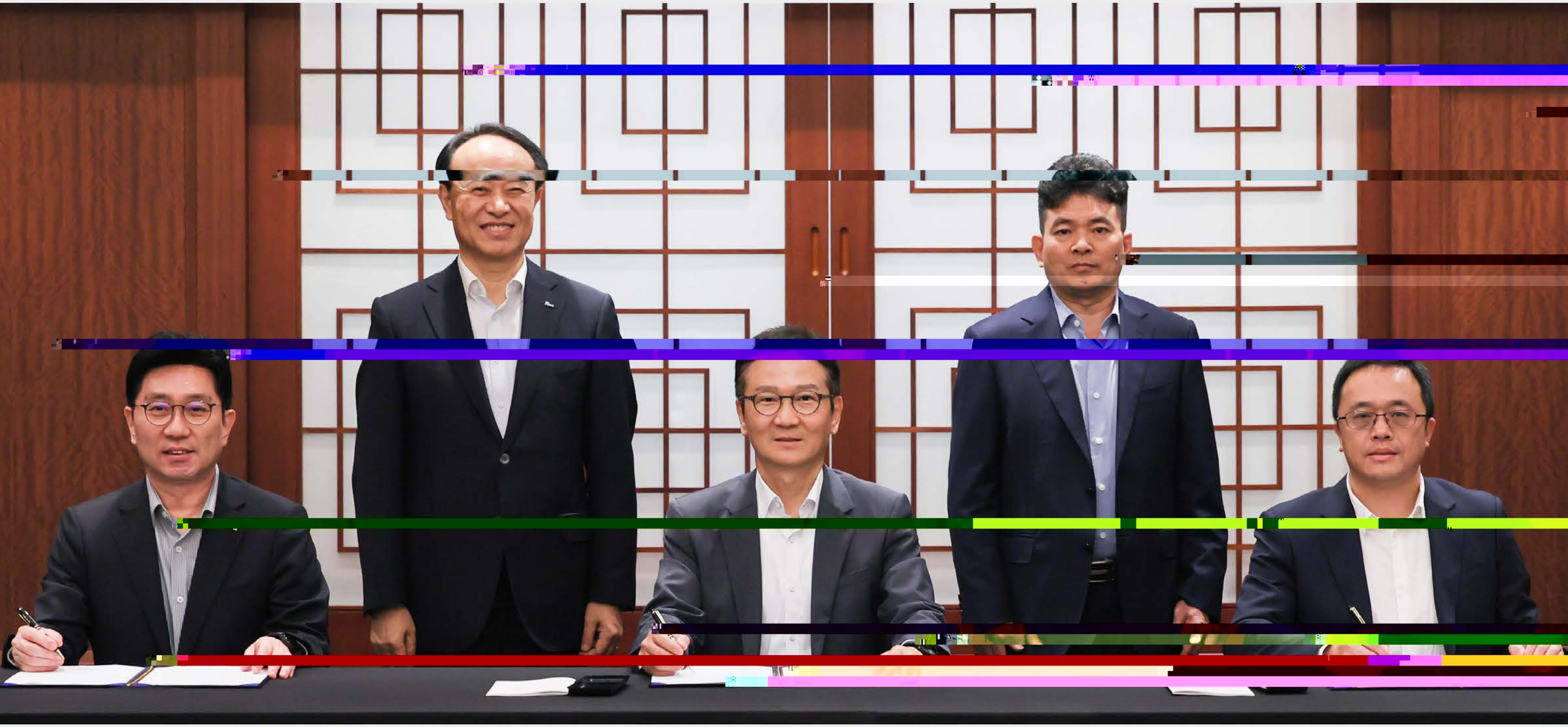
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2023 ESG

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2023. 05
UNGC
SDGs

2023. 06 2023
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ESG — S&P CSA MSCI ESG
2022 CDP

2023. 09 ESG
"ESG China Awards 2023"

2023. 11 “ 2023 —
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FTSE ESG
2023 C B

S&P Global 43

FTSE Russell 3.1

MSCI BB

CDP DISCLOSURE INSIGHT ACTION B

02

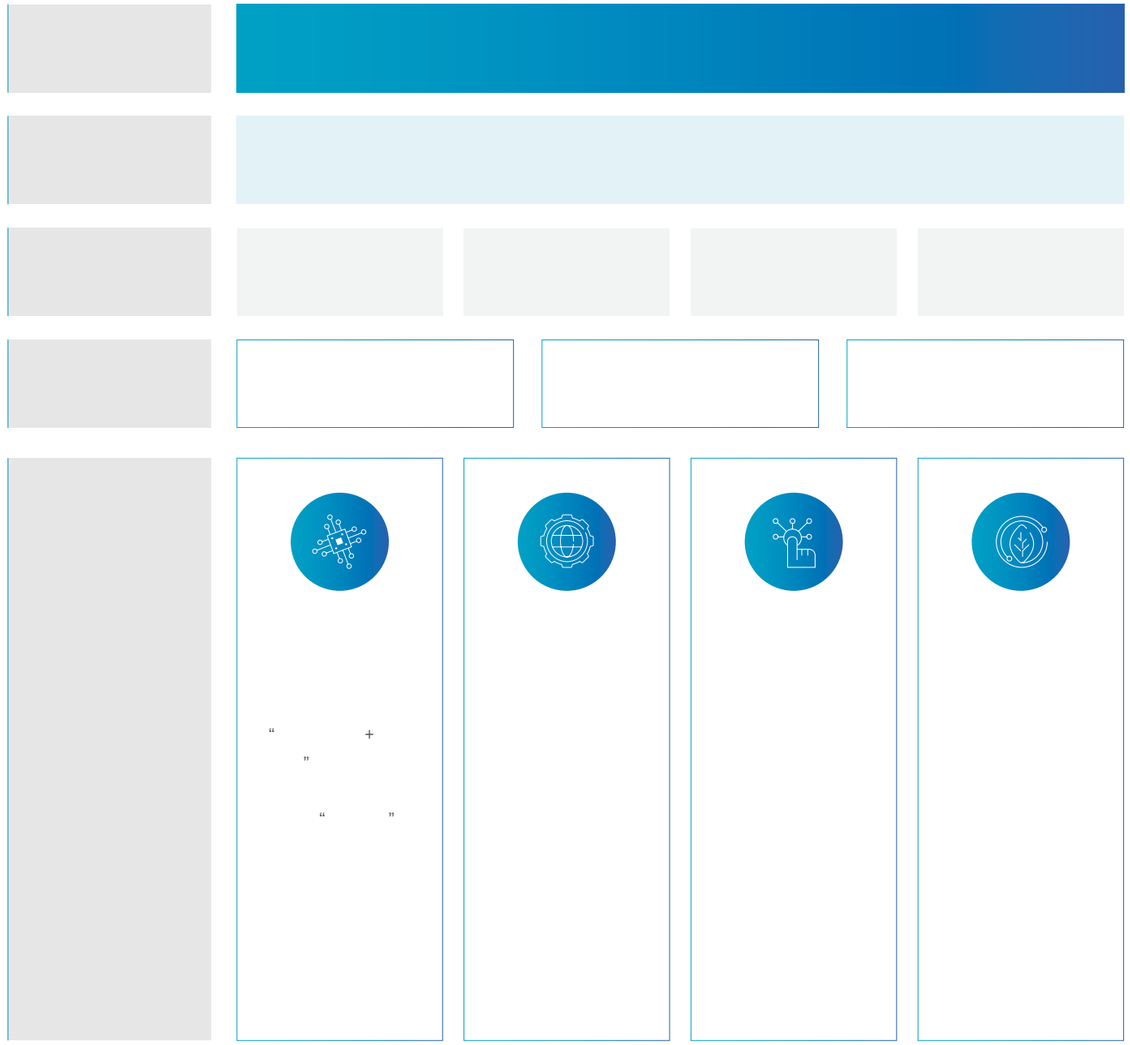
企业战略

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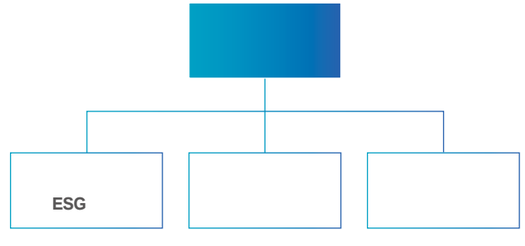
“ ”

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ESG

2023 _____ 11
90,000 /

2022 2023

2023

	6	15	11
	27	82	35
	-	100%	100%

			2023.03.30-2026.03.30			1,500,100	960,000	13,839	0	0	71,744	2,545,684	
			2023.03.30-2026.03.30			300,000	-	-	-	-	-	300,000	
			2023.03.30-2026.03.30			880,960	960,000	13,839	0	0	398,384	2,253,184	
			2023.03.30-2026.03.30			746,724	660,000	13,839	0	0	483,711	1,904,274	
			2023.03.30-2026.03.30			761,816	960,000	13,839	0	0	68,018	1,803,674	
			2023.03.30-2026.03.30			697,574	660,000	15,501	0	0	75,508	1,448,583	
			2023.03.30-2026.03.30			84,999	0	0	0	0	0	84,999	
			2023.03.30-2026.03.30			84,999	0	0	0	0	0	84,999	
			2023.03.30-2024.01.09			84,999	0	0	0	0	0	84,999	
			2024.01.09-2026.03.30			-	-	-	-	-	-	-	2024 1 ,



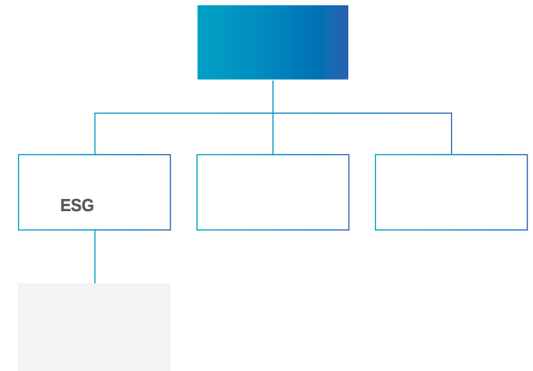
“ ” “ ”

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ESG

2023

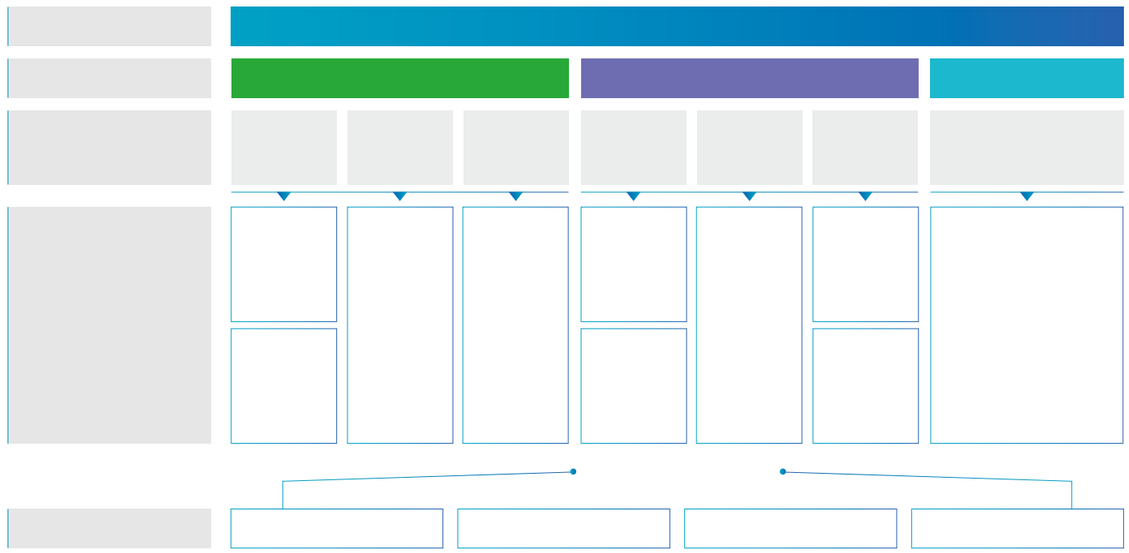
EHS



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2023

342.73

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1.96 CO_2e/

59.54%

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ISO 50001

60.55%

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5,326.96

0.53

94.71

29.00

83.89%

373

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100%

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ISO 37301:2021

1

ISO 27001

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GRI 2021

ESG

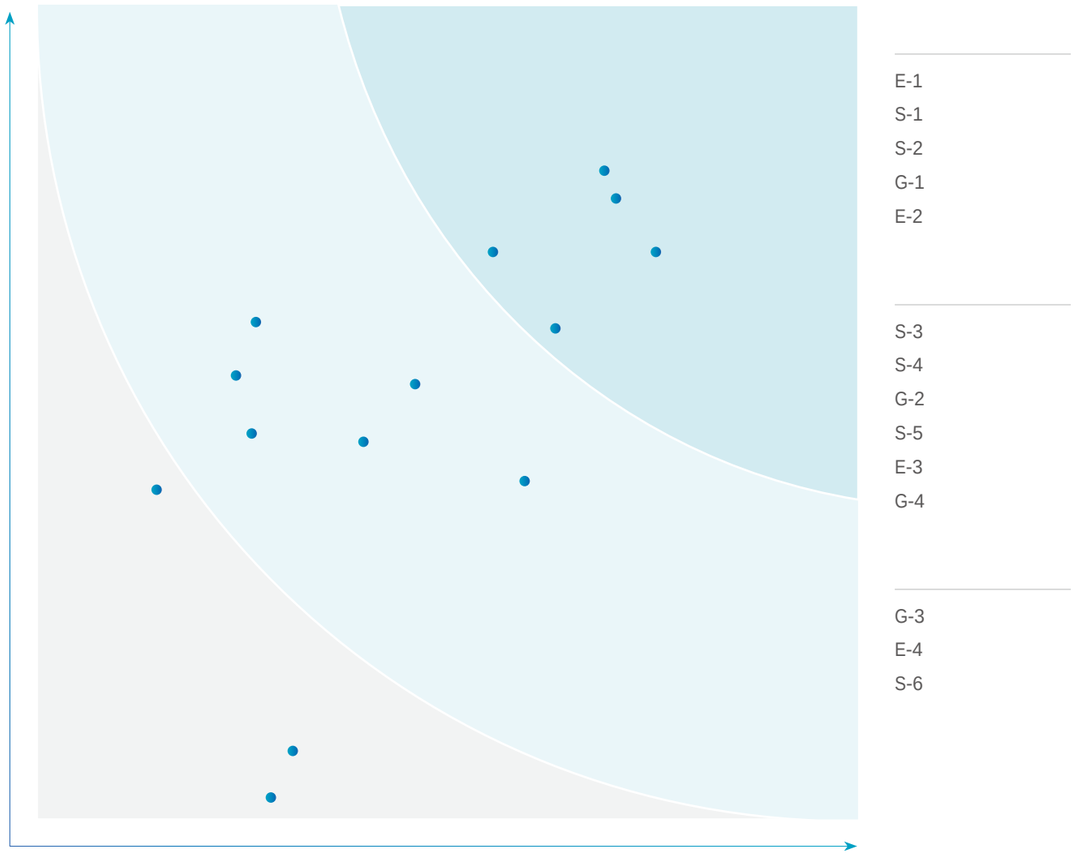
2021 2022

SASB

GRI UNGC

2 — 14

	2021 2022	2023	2023	
E	11.	E-1	E-1.1 TCFD SBTi E-1.2 E-1.3	
	12.	E-3	E-3.1	
	13.	E-2	E-2.1	
		E-4	E-4.1	
	14.			“ E-1 ”
	16.			“ E-1 ”
S	6.	S-4	S-4.1 ESG ; S-4.2	
	7.	S-2	S-2.1 RoHS/REACH ; S-2.2 S-2.3 S-2.4	
	8.	S-1	S-1.1 S-1.2	
	9.			“ S-1 ”
S	10.			“ S-2 ”
	15.			“ S-2 ”
	17.			“ S-2 ”
	18.	S-5	S-5.1 / S-5.2	
	19.			“ S-5 ”
	20.			“ S-5 ”
	21.	S-3	S-3.1 /	
			S-6.1	
	22.	S-6	S-6.2	
	23.			“ S-6 ”
G	1.	G-1	G-1.1 G-1.2	
	2.			“ G-1 ”
	3.	G-2	G-2.1 / G-2.2	
	4.			“ G-2 ”
	5.			“ G-1 ”
		G-3	G-3.1	
		G-4	G-4.1 G-4.2	


14
4
4,855
3,337
2021
2,768
40%
2023
E-1
S-1
S-2
G-1
E-2
S-3
S-4
G-2
S-5
E-3
G-4
G-3
E-4
S-6


CNGR中伟

03

和谐生态

SDGs



2022

TCFD

CDP

2022 ESG

2023

TCFD

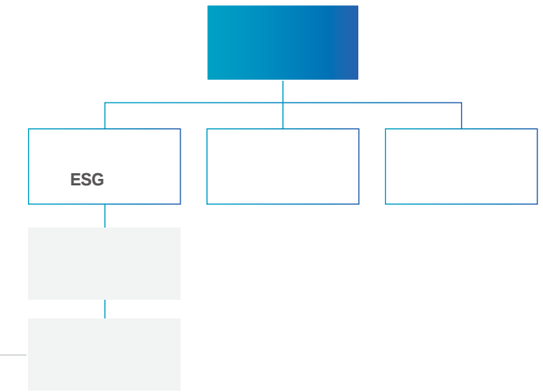
2024

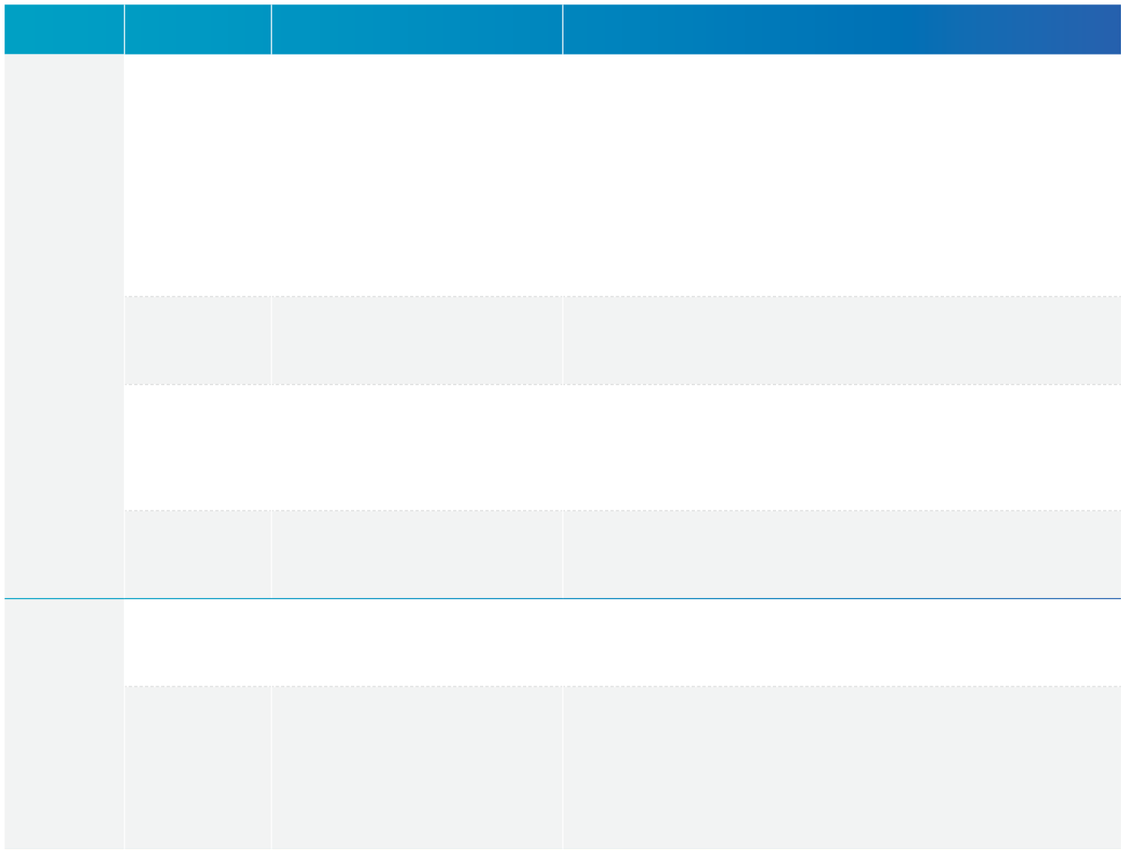
ISSB

2025

2030

TCFD 2022





2023 2022

ESG ESG

ESG

SBTi 2020

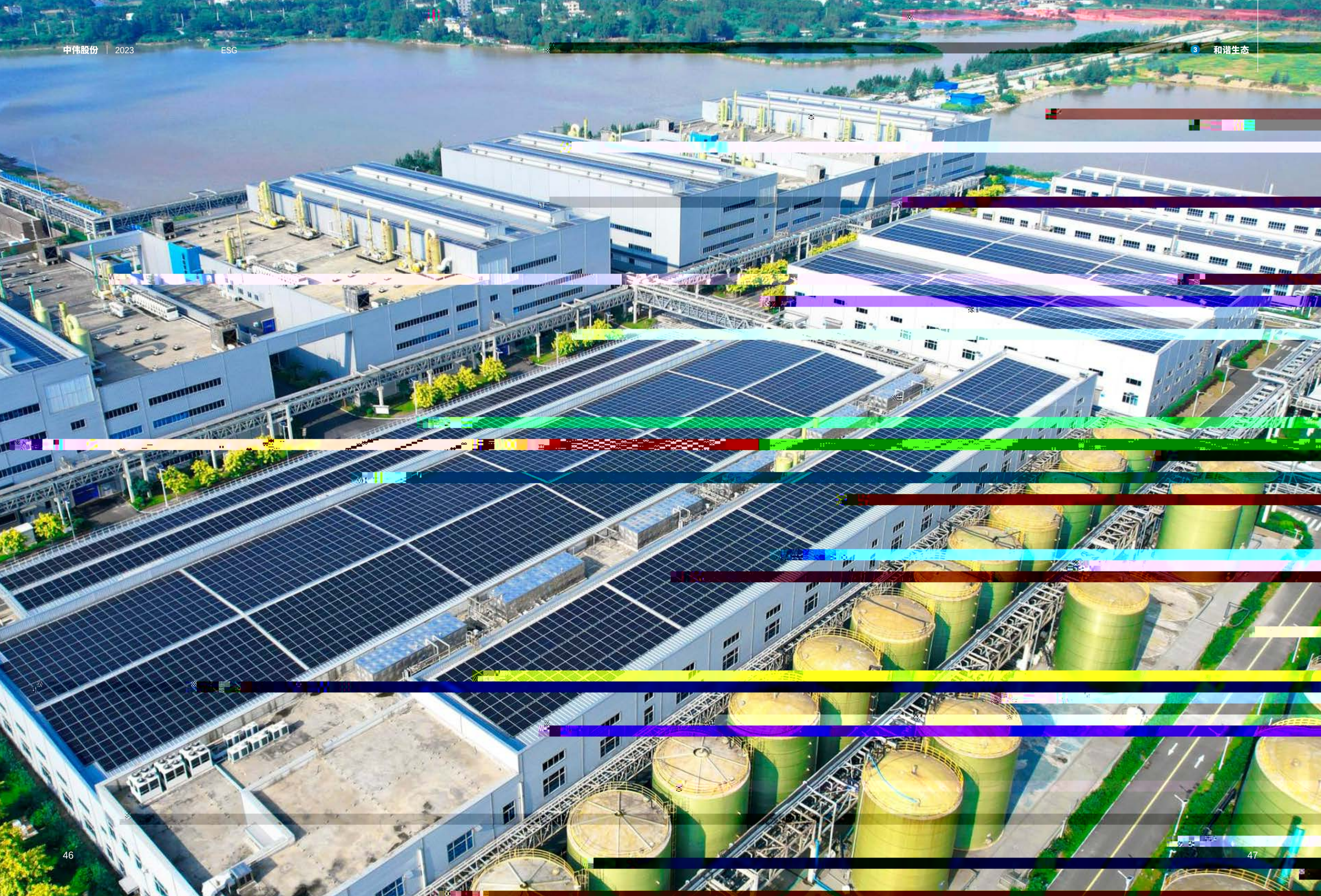
2025	100%		*	2022	20%	2023	50%	2022	22.83%
	2024	75%						2023	59.54%
2030	80%								

*

2023

17.5MW 2023 9
474 2024
36.95MW 4,400
6MW 2024
800
5,000 m^2 31

2023 6.64 ,
17 Ļ ą



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4

2023 2022 25% 2023

97.1%

2023

ISO 14021 UL 2809

2025 70%

EHS

WRI World Resource Institute

AqueductTM Water Risk Atlas

		2021	2022	
		-	15,845.71	
SO_x		-	841.21	
	POP	-	0.00	
	VOC	-	2,192.91	
	HAP	-	387.78	
PM		-	13,732.58	
		91.30	91.47	

ISO 14001

200 m^3 ,

„ 20%

14001 188.34 1,372.11 ,

100%

160

EHS

“ ” “ ” “ ”

2023 SO_2 400mg/m^3 100mg/m^3

卓越共赢

SDGs



		2021	2022	2023
	%	100	100	**100**
		-	0	**0**
		-	0	**0**

ESG

2022

2023

2024

2025

2030

2022 ESG

		2021	2022	2023
		543	1,562	**1,780**
		-	1,536	**3,455**
	%	100	100	**100**

299.62

“ + ”

100%

33

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		2021	2022	2023
	-	-	-	2,982%
	-	-	-	1,673%

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EHS EHS

2022 EHS *2022 ESG*

2023 EHS
EHS

2024 EHS

2025 EHS

2030

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EHS ” EHS

EHS		
		EHS
EHS		





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2022 ESG

2023

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2025

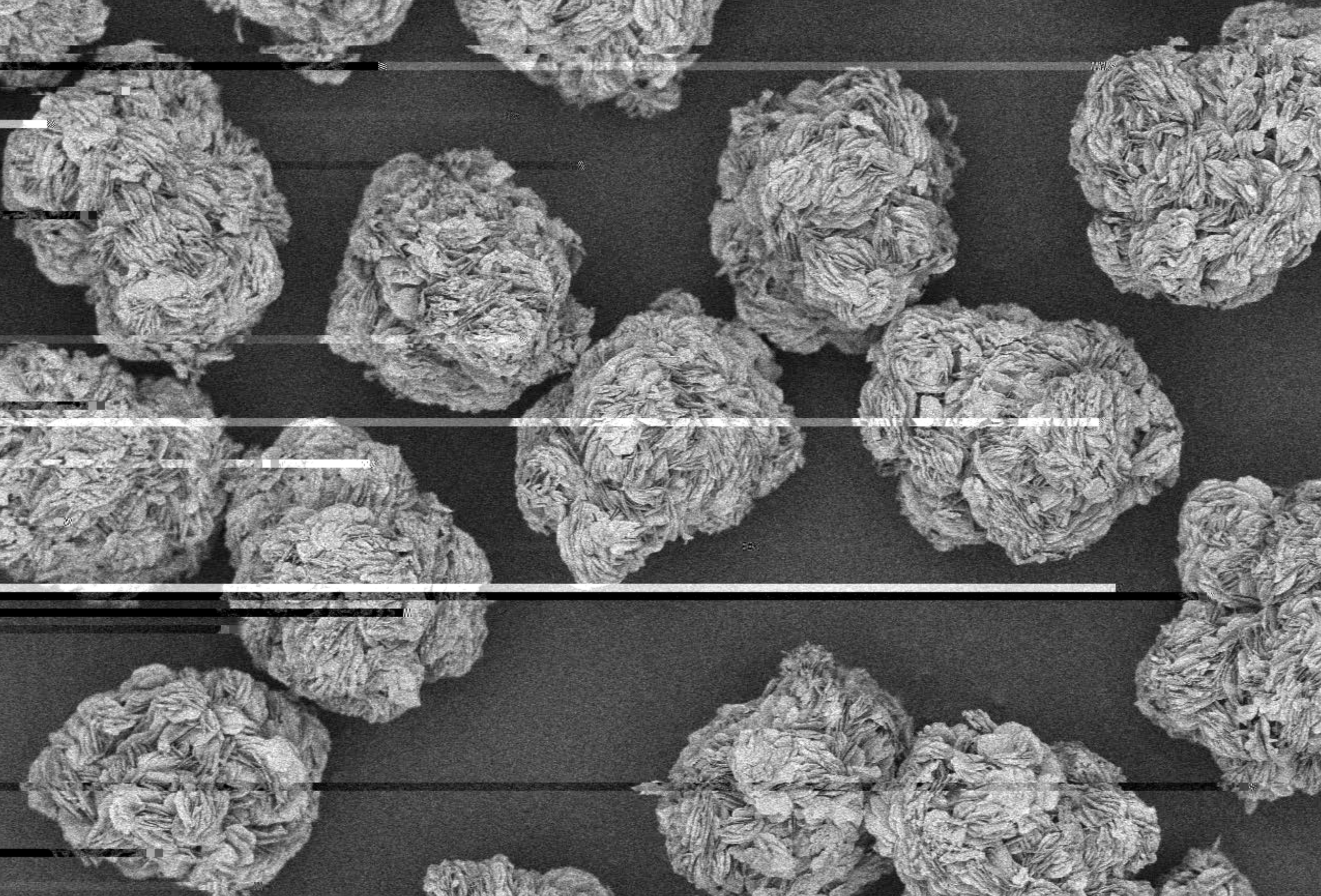
2030

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2023

10.44 2022

12.31% 3.05%



97% 1 /

2023 3,000 /

23

95%- 5 3 15

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5 3

15

4%-6% 50%-55% 15%-25%
97% 95%

2023

“ ZL201811368003.5 ” 2023

“ ZL201811201588.1 ”

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22 4 20

2023 “ ”

2023 7
GB/T 29490-2013 10

“ ” 5,500

373 202
69 9 PCT 3
13 18
20

RoHS
REACH
ZW-MR-
GD-32

21

2023 ISO 14044
CML2001-Aug.2016 12

373

202

69 9

PCT

3 20

13 18

“ ” “ ”

2023

33 3 5

2 43 RoHS

REACH SVHC 233

EU REACH

MSDS

		2021	2022	2023
	%	-	0.18	**0.17**
		-	85	**68**
-		-	85	**68**
-		-	0	**0**
	%	-	100%	**100%**
		-	-	**48**
		91.30	91.47	**94.71**

“ ”

2023 ISO 14044/14067 GaBi

GaBi2022.1LCI Ecoinvent Database Version 3.8 24 2 10

“ ”

“ ”

ISO 9001 IATF 16949 COP

MP SP 18

“ ”

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2022 ESG

ESG

2022 ESG

2023 ESG RMAP

ESG

2024 2 ESG

CDP

2025 CDP

ESG

2030

2023 RCS Global 4

2023

11

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2023 12

KYS Know Your Supplier A *2023*





			*	
			RMI RMAP	
			RMI RMAP	
			RMI RMAP	
			RMI RMAP	
			RMI RMAP	
			RCI DD*	
-			RCI DD*	
-			RMI RMAP&ESG	
			RMI RMAP&ESG	
-NNI			RMI RMAP&ESG	

* RCI DD: CCCMC)

ESG

EHS 2023

38 46 100%

		2021	2022	2023
		-	37	**84**
ESG		7	9	**12**
ESG		-	9	**61**
ESG		2	0	**0**
		-	-	**4**
RMI /		12	16	**22**
		-	-	**3**

ESG 68% 7 8

4

2024

CDP

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SDGs



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2023

ISO 37301

2024

ESG KPI

2025

ESG KPI

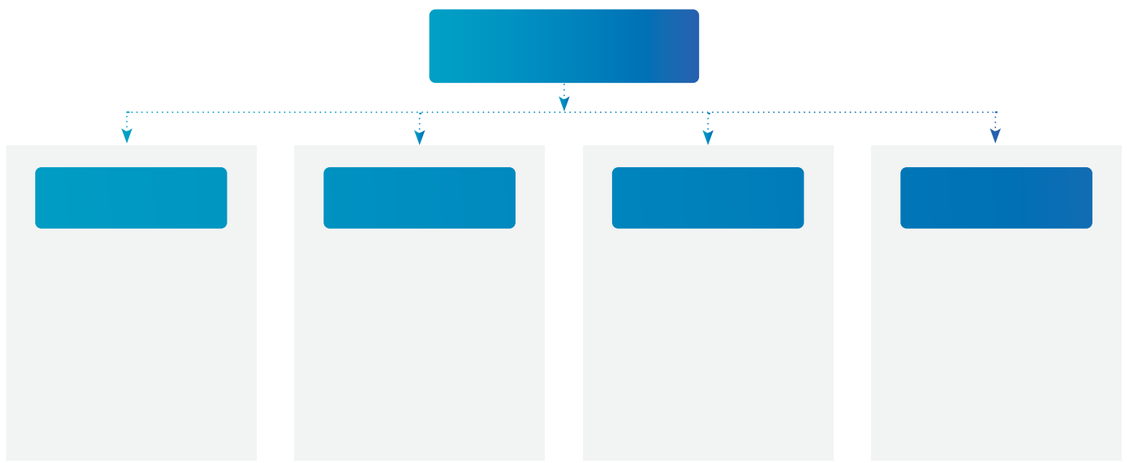
ISO 27001

2030

OECD ILO

UNGC

2023



2023

2023 **100%** **100%**

100%

2023 **5** **2**

2 **1**

8

2023 5

cngrCSR@cngrgf.com.cn

jubao@cngrgf.com.cn jubaogj@cngrgf.com.cn

+86 193 7516 6553 +62 812 9309 3607

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410600

Noble House 37th foor, Mega Kuningan 2, Jl. Dr. Ide Anak Agung Gde Agung kav. E4.2, rt 5/ rw 2, kuningan, kuningan tim., setiabudi, Jakarta Selatan 12950, Indonesia

Postcode 12950

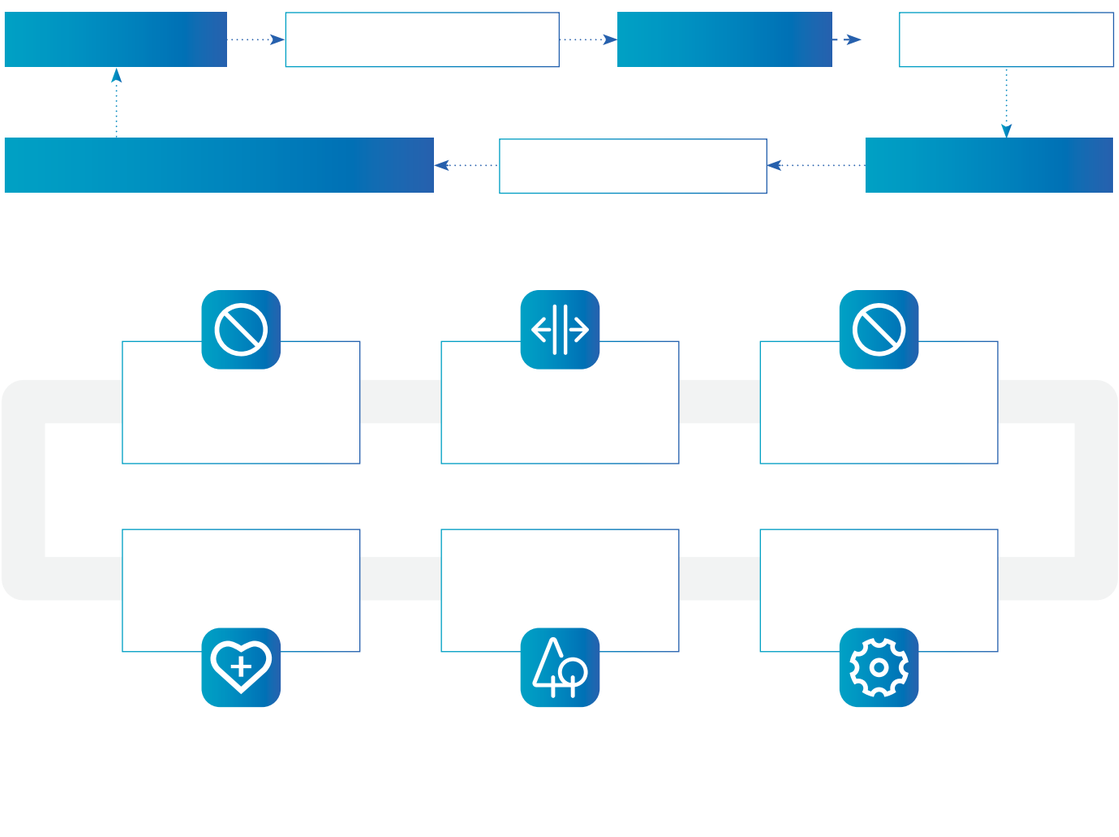
WhatsApp

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2023 2025

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2023 POSCO

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2023 ISO 37301 2021

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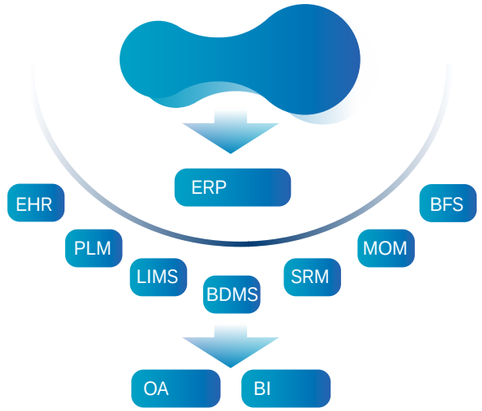
2023 “

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ERP

EHR PLM LIMS BDMS SRM MOM BFS

OA BI



2023

2023

2023

2023

2023



SRM

2023

TMS

2024

CRM



ESG

ESG		2020	2021	2022	2023
E					
		4,579,050.00	6,706,670.00	172,800.00	**31,682,340.00**
		-	-	27,884.55	**39,294.81**
		29,593.46	66,503.80	232,450.04	**374,411.52**
		2,569,399	10,670,533.00	16,731,579.26	**37,848,516.28**
		273,348,600.00	556,479,868.00	638,399,919.67	**451,416,367.74**
		154,506.00	423,830.41	538,090.06	**469,945.88**
		1,534,449.32	3,247,293.79	4,399,490.39	**4,296,554.68**
	/	16.01	17.10	18.85	**14.96**
	CO_2e	42,961	72,200	62,370.87	**161,120.78**
	CO_2e	317,911	592,700	529,292.07	**402,811.58**
	CO_2e	2,494,781	4,310,423	3,937,758.32	**4,553,325.08**
	CO_2e	2,855,653	4,975,323	4,529,421.27	**5,117,257.44**
	CO_2e/	3.77	3.50	2.54	**1.96**
	CO_2e/	26.04	22.71	16.87	**15.85**
CO_2	CO_2e	-	-	4,528,755.25	**5,115,268.23**
CH_4	CO_2e	-	-	569.36	**639.33**
N_2O	CO_2e	-	-	96.66	**488.49**
SF_6	CO_2e	-	-	0.00	**0.00**
NF_3	CO_2e	-	-	0.00	**0.00**
PFC_s	CO_2e	-	-	0.00	**0.31**
HFC_s	CO_2e	-	-	0.00	**861.07**
		417.40	678.37	1,291.32	**2,821.58**
		0.00	0.00	0.00	**0.00**
		2,277.95	3,514.56	2,415.89	**1,736.98**
		2,695.35	4,192.93	3,707.22	**4,558.56**
		-	-	4,460.58	**6,997.25**
	%	-	-	54.61	**60.55**
		0.00	0.00	469.43	**1,302.81**

ESG		2020	2021	2022	2023
		1,377.74	2,710.04	1,837.85	**1,476.67**
		1,377.74	2,710.04	2,307.27	**2,779.48**
		1,317.61	1,482.89	1,399.94	**1,740.97**
COD		-	-	41.69	**46.67**
	/	-	7.81	6.00	**6.19**
	/	-	73.88	46.14	**51.91**
		-	-	0	**0**
		-	-	0	**0**
	%	-	-	100%	**100%**
		-	-	0	**0**
		5,859.25	14,550.31	32,924.76	**74,117.62**
		1,550.17	726.21	1,738.74	**2,785.89**
		4,309.08	13,824.10	31,186.02	**71,331.74**
		5,485.19	14,333.56	714.71	**17,441.20**
		976.56	986.33	80.61	**233.26**
		4,508.62	13,347.23	634.10	**17,207.94**
		-	-	31,044.90	**49,818.24**
		-	-	1,640.25	**2,529.27**
		-	-	29,404.65	**47,288.98**
	/	-	-	0.01	**0.01**
	/	-	-	0.13	**0.17**
SO_X		-	-	841.21	**33,246.20**
NO_X		-	-	15,845.71	**69,798.74**
PM		-	-	13,732.58	**61,376.72**
POP		-	-	0.00	**0.00**
VOC		-	-	2,192.91	**4,354.26**
HAP		-	-	387.78	**1,494.10**
S					

ESG		2020	2021	2022	2023
	%	-	100%	100%	**100%**
		-	-	0	**0**
		-	-	0	**0**
		-	-	10,386	**13,791**
		-	-	246	**263**
		-	-	10,140	**13,528**
		-	-	7,639	**10,530**
		-	-	2,747	**3,261**
30		-	-	4,027	**6,378**
30 50		-	-	6,029	**7,005**
50		-	-	330	**408**
		-	-	736	**2,667**
[1]		-	-	490	**646**
		-	-	431	**565**
		-	-	59	**81**
		-	-	10	**15**
30		-	-	30	**61**
30 50		-	-	413	**522**
50		-	-	47	**63**
[2]		-	-	7,303	**8,611**
		-	-	5,693	**7,011**
		-	-	1,610	**1,600**
30		-	-	3,312	**5,206**
30 50		-	-	3,894	**3,338**
50		-	-	97	**67**
[3]	%	-	-	-	**62.44%**
		-	-	3,470	**5,126**
		-	-	2,746	**4,063**

ESG		2020	2021	2022	2023
		-	-	724	**1,063**
30		-	-	1,608	**2,841**
30-50		-	-	1,820	**2,203**
50		-	-	42	**82**
[4]	%	-	-	-	**27.10%**
[5]					
		-	-	-	**499**
		-	-	-	**660**
		-	-	-	**407**
		-	-	-	**313**
		-	-	-	**1,849**
		-	543	1,562	**1,780**
		-	-	1,536	**3,455**
	%	-	100%	100%	**100%**
		-	41,611	215,815	**399,952**
		-	14,328	157,357	**389,258**
		-	10.12	20.78	**29.00**
-					
		-	10.34	18.84	**44.13**
		-	10.80	41.15	**49.97**
		-	-	25.49	**52.26**
		-	-	33.28	**35.17**
	%	-	87.20	81.79	**83.89**
		-	-	903	**1,478**
	%	-	-	-	**2,982**
	%	-	-	-	**1,673**

[1]

ESG		2020	2021	2022	2023
		-	-	4,326.03	**5,326.96**
		-	41	82	**59**
		-	0	0	**0**
		-	0	0	**0**
		-	0	0	**0**
(20)	%	-	0.72	0.89	**0.53**
		-	0	0	**0**
		-	-	-	**20.54**
-		-	-	40	**69**
-		-	-	14	**9**
-PCT		-	-	3	**3**
-		-	60	70	**13**
-		-	62	75	**18**
		-	7	20	**20**
		-	5	1	**0**
		-	-	18	**23**
		-	-	4	**5**
		-	-	5	**3**
		-	-	9	**15**
RoHS/REACH	%	-	-	-	**43**
	%	-	-	0.18	**0.17**
		-	-	85	**68**
-		-	-	85	**68**
-		-	-	0	**0**
	%	-	-	100	**100**
		-	-	-	**48**
		83.50	91.30	91.47	**94.71**
		-	-	37	**84**
ESG		-	7	9	**12**

ESG		2020	2021	2022	2023
ESG		-	-	9	**61**
ESG		-	2	0	**0**
		-	-	-	**4**
RMI /		-	12	16	**22**
		-	-	-	**3**
		-	-	1,314	**1,346**
		-	-	875	**1,273**
		-	-	110.00	**129.50**
		-	-	68.00	**153.00**
		-	-	178.00	**286.46**
G					
		-	-	-	**5**
		-	-	-	**2**
		-	-	-	**2**
		-	-	100%	**100%**
		-	-	100%	**100%**
		-	-	100%	**100%**
		-	-	100%	**100%**
		-	-	4	**0**
		-	-	6	**6**
		-	-	-	**0**
		-	-	-	**0**
		-	-	1	**0**
		-	-	0	**0**
		-	-	0	**0**

TÜV (TÜV SÜD)
“ ” “ ” 2023 ESG
“ ” TÜV SÜD

TÜV SÜD

ID: 109150 Revision 1 - released Effective: 25 Aug 2023

TUV SUD Certification and Testing
(China) Co., Ltd. Shanghai Branch
No.151 Heng Tong Road,
Shanghai 200070

Tel: +86 21-61410737
Fax: +86 21-61408600
Web: http://www.tuvsud.cn

GRI

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2021	GRI 3-1			
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2016	GRI 3-3			
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2016	GRI 3-3			
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2016	GRI 3-3			
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2016	GRI 3-3			
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2016	GRI 3-3			
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2019	GRI 3-3			
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GRI				
2016	GRI 3-3			
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2016	GRI 3-3			
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2018	GRI 3-3			
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2016	GRI 3-3			
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2016	GRI 3-3			
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2020	GRI 3-3			
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2016	GRI 3-3			
	308-1			
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2016	GRI 3-3			
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2016	GRI 3-3			
	402-1			
2018	GRI 3-3			
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2016	GRI 3-3			
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SASB

	SASB Code			/
	RT-CH-110a.1		t CO_2e	161,120.78
			%	NA
	RT-CH-110a.2		NA	“ ”
	RT-CH-120a.1		t	69.79
			t	33.25
		(VOCs)	t	4.35
		HAPs	t	1.49
	RT-CH-130a.1		GJ	4,296,554.68
			%	
			%	
			GJ	
	RT-CH-140a.1		(m³)	4,558.56
			(m³)	1,740.97
			%	NA
			%	NA
	RT-CH-140a.2			0
	RT-CH-140a.3		NA	“ ”
	RT-CH-150a.1		t	2,785.89
			%	8.30
	RT-CH-210a.1		NA	NA
	RT-CH-320a.1	TRIR	%	0.53
			%	0
			%	0
	RT-CH-320a.2	( )	NA	“ ”
	RT-CH-410a.1			NA
	RT-CH-410b.1	(GHS) 1 2	%	NA
			%	NA
	RT-CH-410b.2		NA	“ ”

	SASB Code			/
	RT-CH-410c.1	(GMOs)	%	NA
	RT-CH-530a.1		NA	“ ”
	RT-CH-540a.1	PSIC		NA
		PSTIR	%	NA
		PSISR	%	NA
	RT-CH-540a.2			0
	RT-CH-000.A	[1]	t	287,273.84

TCFD

TCFD		
	a	“ ”
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