



2024年度

可持续发展报告

天能电池集团股份有限公司





ESG

“ ”

01

03

05

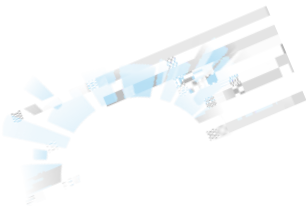
11

15



03

.....	85
.....	87
.....	91
.....	93
.....	96



2024

4

ESG

2024 1 1 2024 12 31

SDGs

GRI Standards

14 —

13 —

CASS-ESG 6.0

GB/T36001-2015

tn.com/
www.sse.com.cn/

dshbgs@tianneng.com
6029388

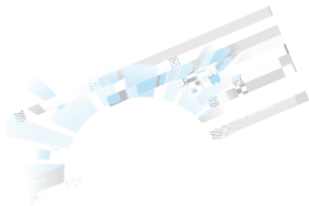
http://www.cn-
http://

0572-

2024

14 —

13 —



2024

“ ”

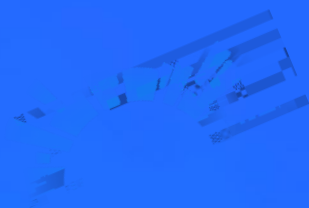
ESG

5G

2025

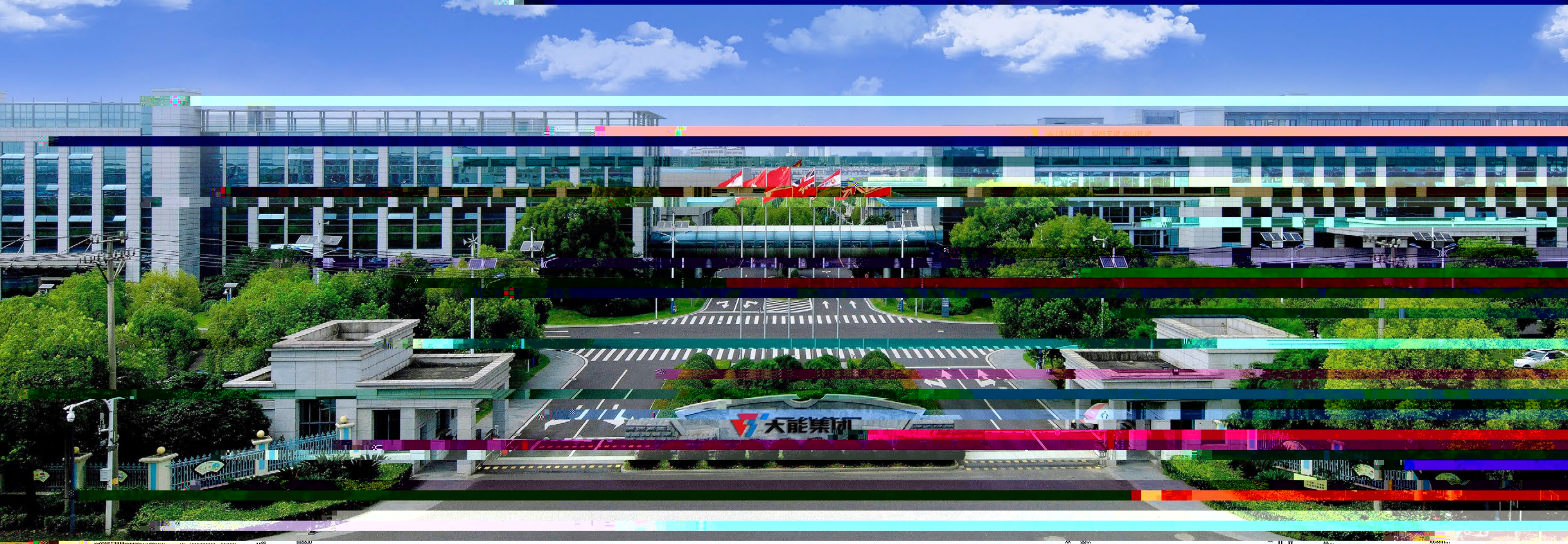
“ ”





10

500



2024



28500

2024

50020

2023

2024

2024

2024

2024

2024



2024

“ ”

5G

2024 5G

“ ”

“ ”

“ 2024 ”

“ ”

1

“ ”

2023

“ ”



3

3

2024



3



5

LED

LED

(SAINI)

5-6

“ ”

2023

80kW

384

7

10

10

7



8

“ ”

“ ”

“ ”

8

“ ”

9

240MWh

10

“ ” “ ”

“ ”

“ ”

10

“ ”



10

“ ”

2024

11



11

5G

2024 5G

“ 5G ”

11



12



ESG

ESG

ESG

2024

“

"



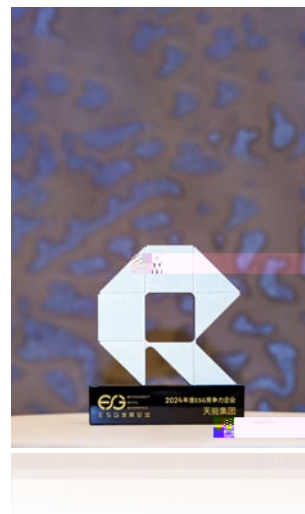
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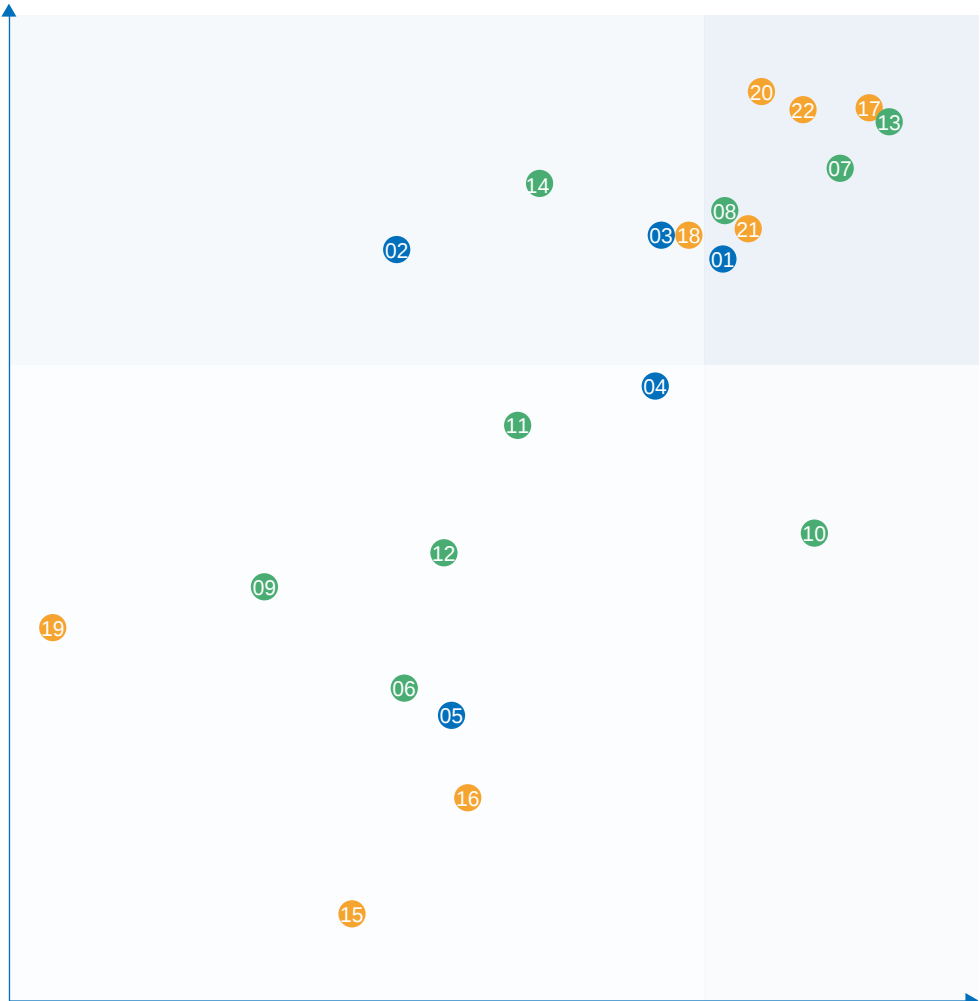
“ 2024

“ ESG ”

ESG

“ 2024

[illegible]



Blue		Green		Orange	
01	*	06		15	
02		07	*	16	
03		08	*	17	*
04		09		18	
05		10		19	
		11		20	*
		12		21	*
		13	*	22	*
		14			

*

围绕“一带一路”
推进全球化布局



2022

2023 11

BEIN



2024 4



2024 6

20



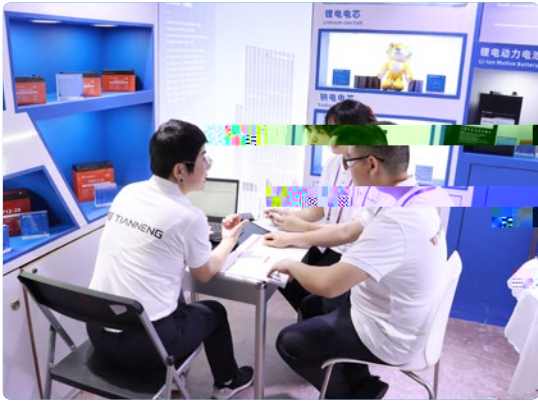
2024 3

Trend " 2024 Inter Battery & EV COEX



2024 4

135



2024 5

LED (SAINI)



2024 6



2024 11



2024 10

UPS



2024 10

136



2024 7

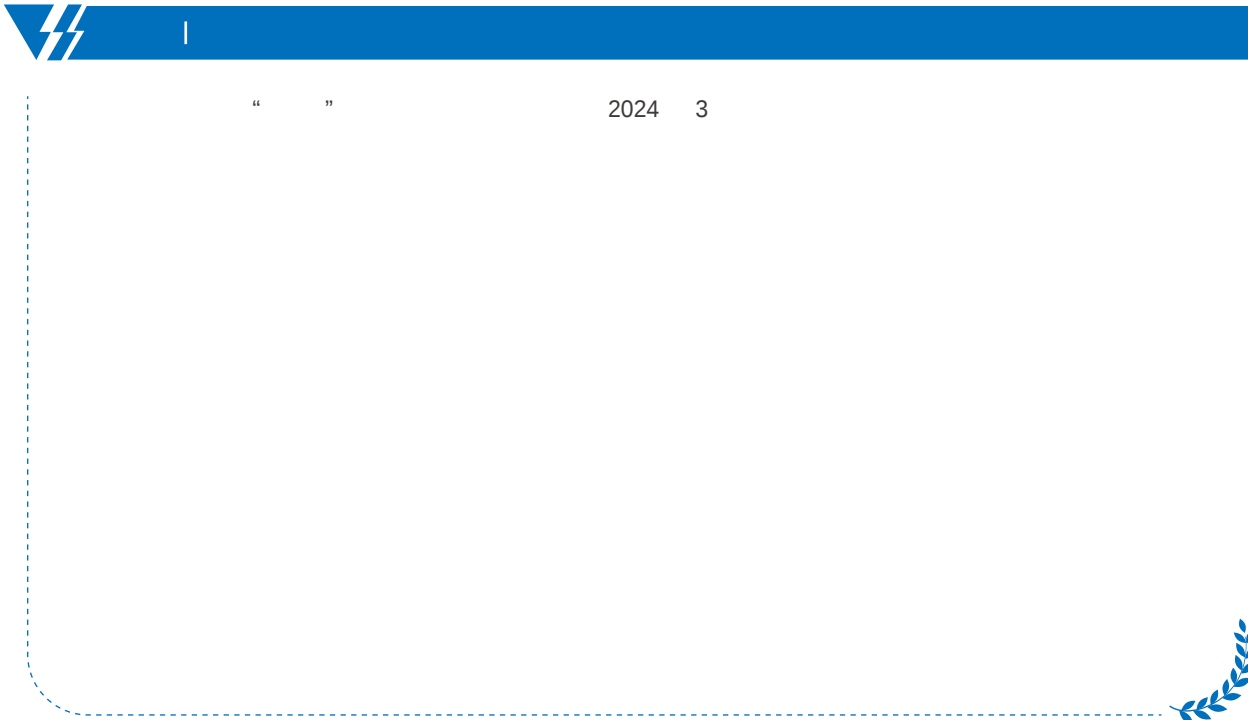
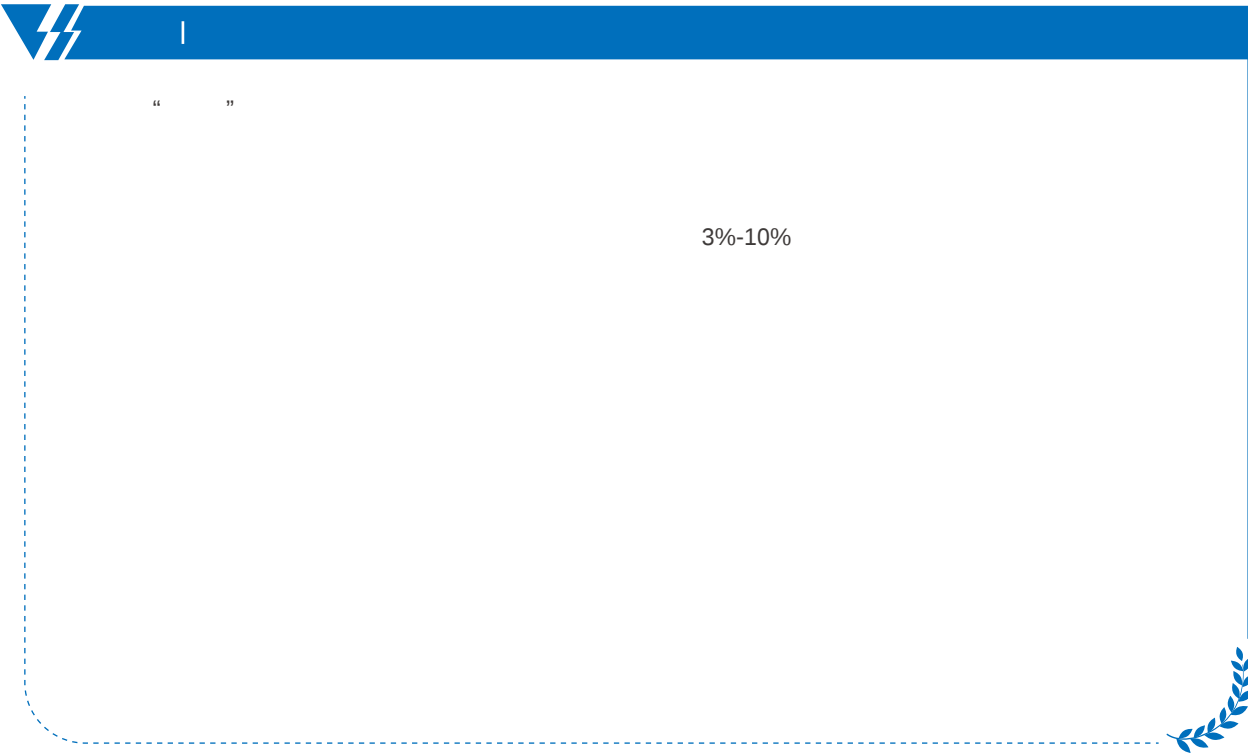
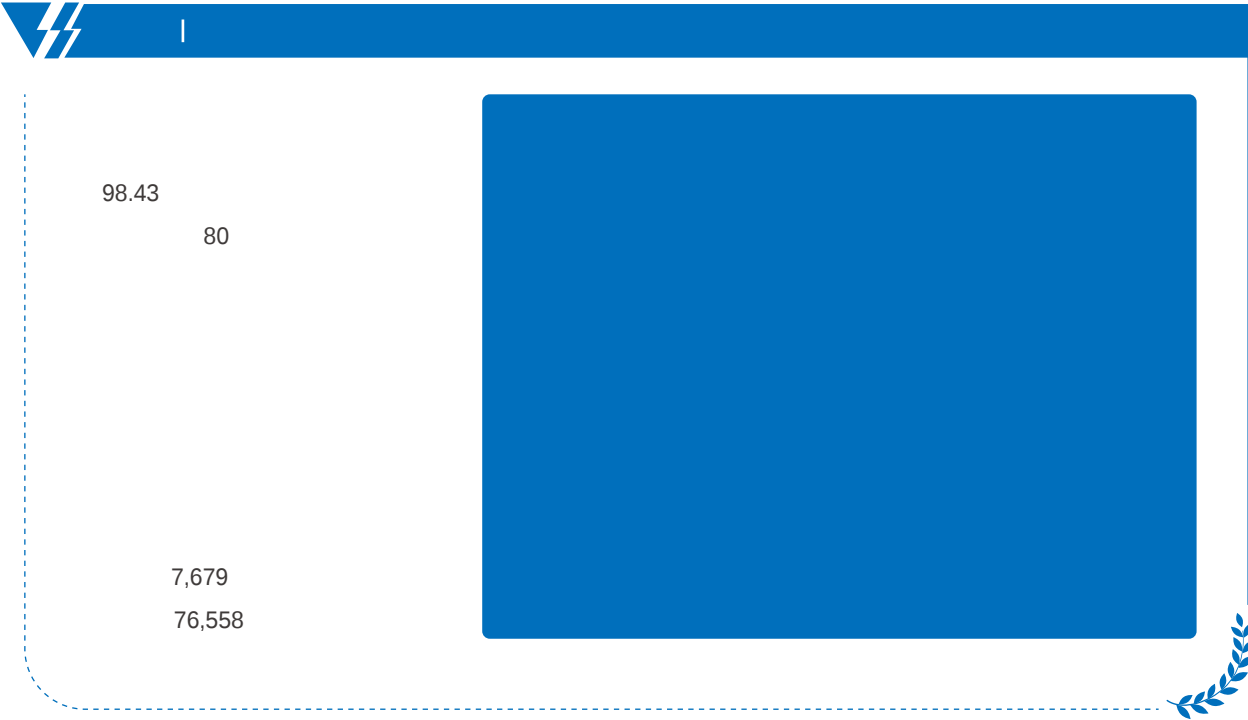
Solar Z 2024 ETE

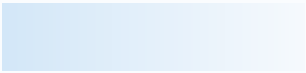
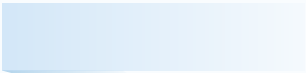
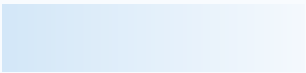
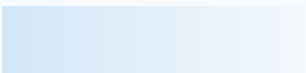
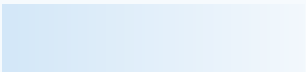
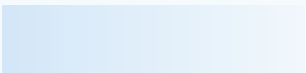
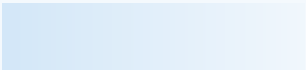
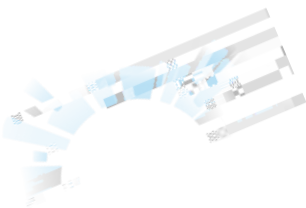


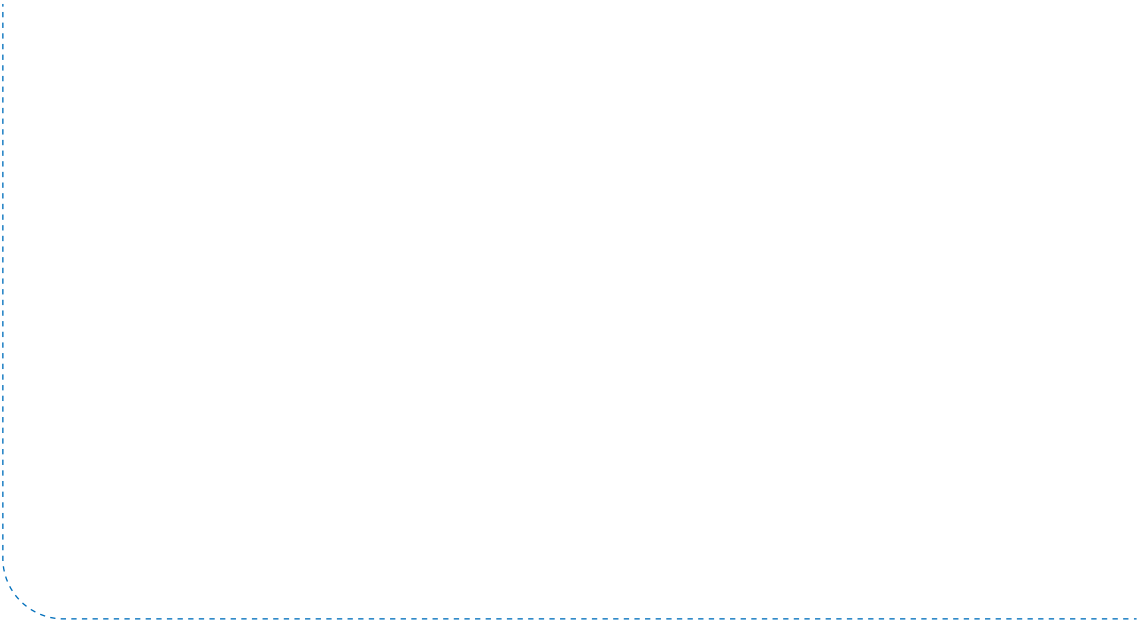
聚能共生

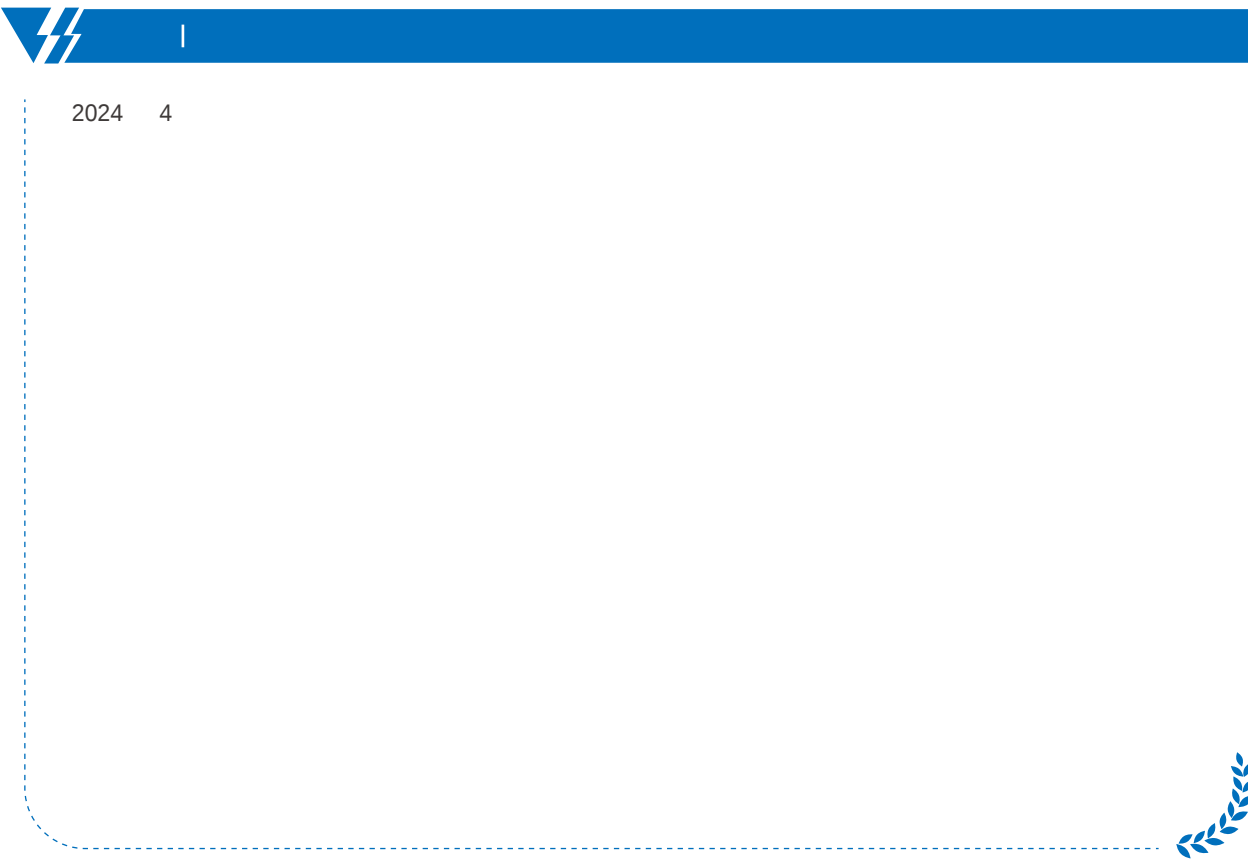
SDGs











“

”

”

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+



|

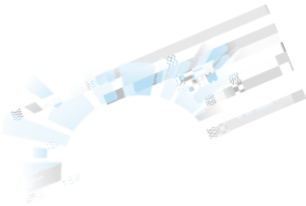


HKE

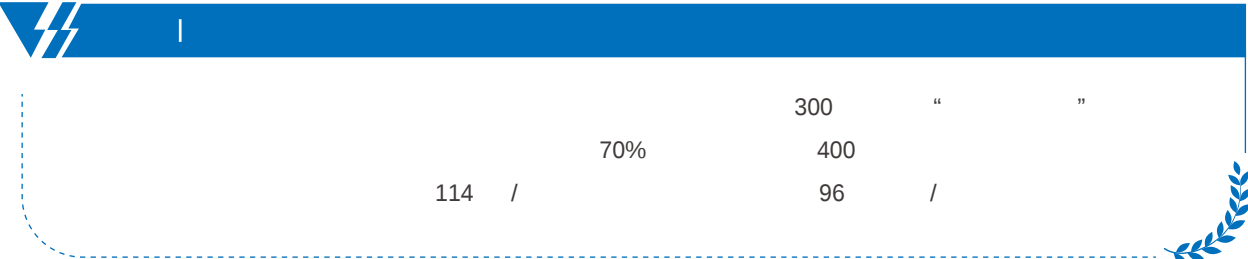
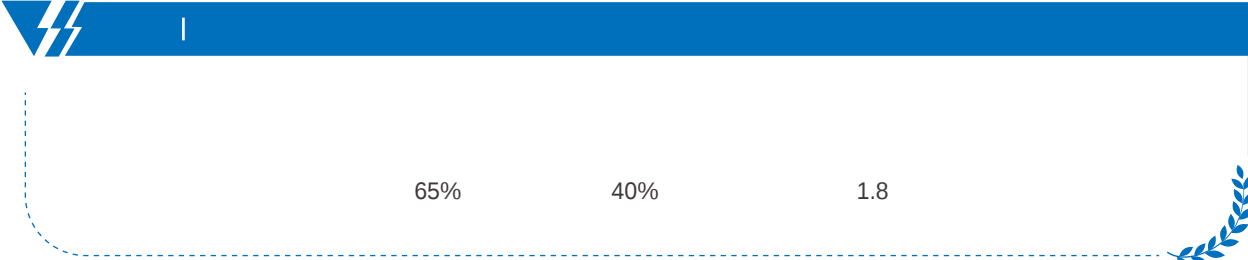
						mg/m³	/				
						5	0.25	0.1459			
						1	30	0.24			
						1	150	1.98			
						1	30	0.1			
						1	0.5	0.00998			
						34	0.25	0.6677			
						2	300	10.73			
						1	0.5	0.0053			
						1	150	5.625			
						1	30	0.281			
						11	3 1	1 2	2 2	0.5	0.26558
						1				0.5	0.0827
						1				150	/
						1				30	/
1				0.5	0.0067						
1				150	41.683						
1				30	3.764						
5				80	0.0527						
						5				180	2.092

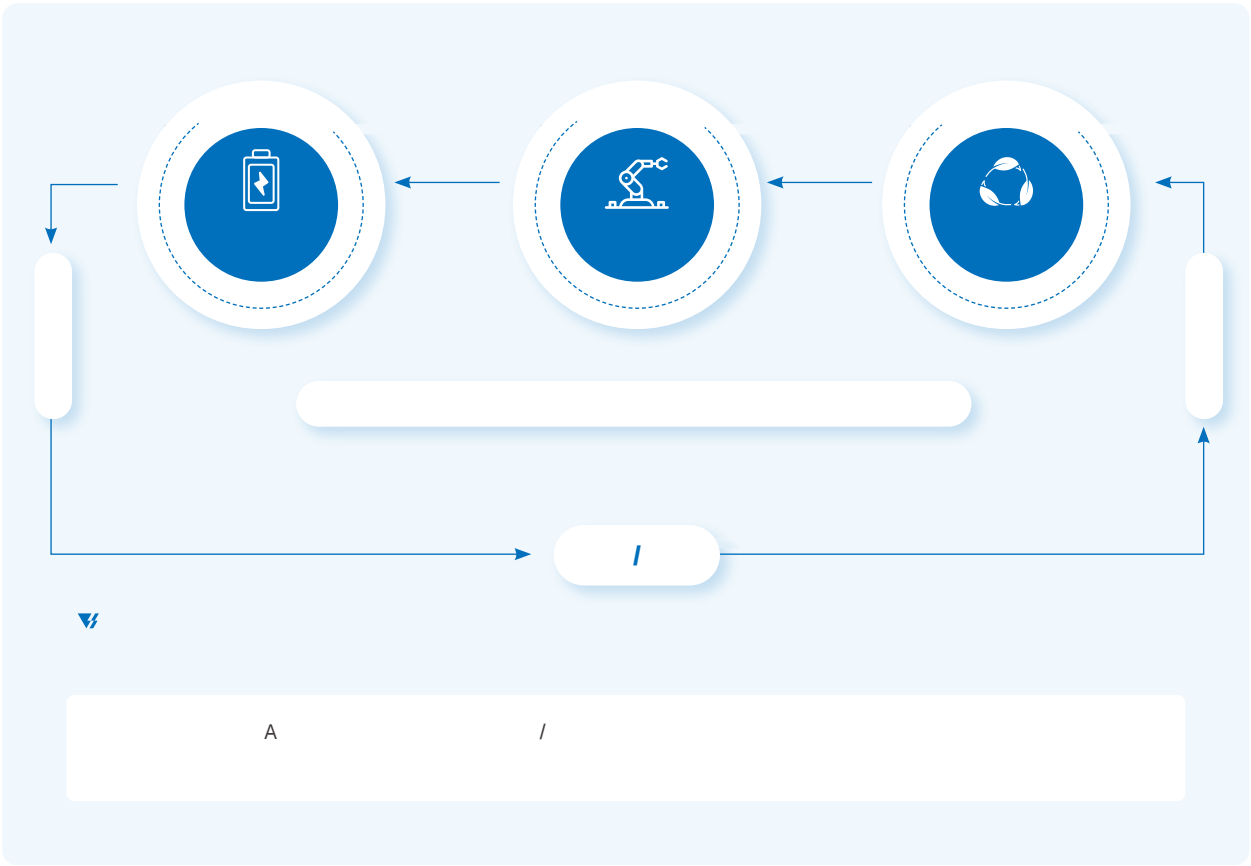
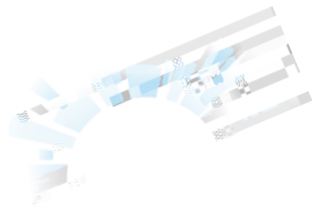
					mg/m³	/	
			6		0.35	0.1713	
			1		80	0.017	
			1		180	0.687	
			8		0.35	0.1825	
			5		80	0.052	
			5		180	2.055	
			8		0.35	0.1819	
			1		80	0.02	
			1		180	0.787	
			18	810	0.5	0.6586	
					0.5	0.06782	
			2		150	/	
					30	/	
			8		0.5	0.2857	
					10	/	
			1		50	1.72	
					0.5	0.0016	
			1		70	2.3	
					10	0.3	
			27		0.5	0.93975	
			1		0.5	0.0061	
			1		150	62.028	
					30	5.501	
			16		0.5	0.888	
					200		
			10		240	28.0356	
					50		
			10		550	6.062	
			1		150	2.75	
			1		30	0.44	

					mg/m³	/	
		13			0.5	0.2981	
					10	/	
		4		1 + 2	50	3.845	
					0.5	0.002	
		1			150	12.38	
					30	1.06	
		7			0.5	0.198	
		1			0.5	0.042	
		1			150	10.944	
		1			30	1.177	
		11			0.5	0.2211	
		1			0.5	0.0123	
		1			150	/	
		1			30	/	
		9			0.5	0.6178	
					50	0.535	
		1			50	1.0432	
					200	0.236	
		1			300	1.481	
		1			150	10.0417	
		1			30	0.726	
		1			0.5	0.0349	



	2024
	543,580
	55,561
	413,410
	64,156
	663
	353
	9,437



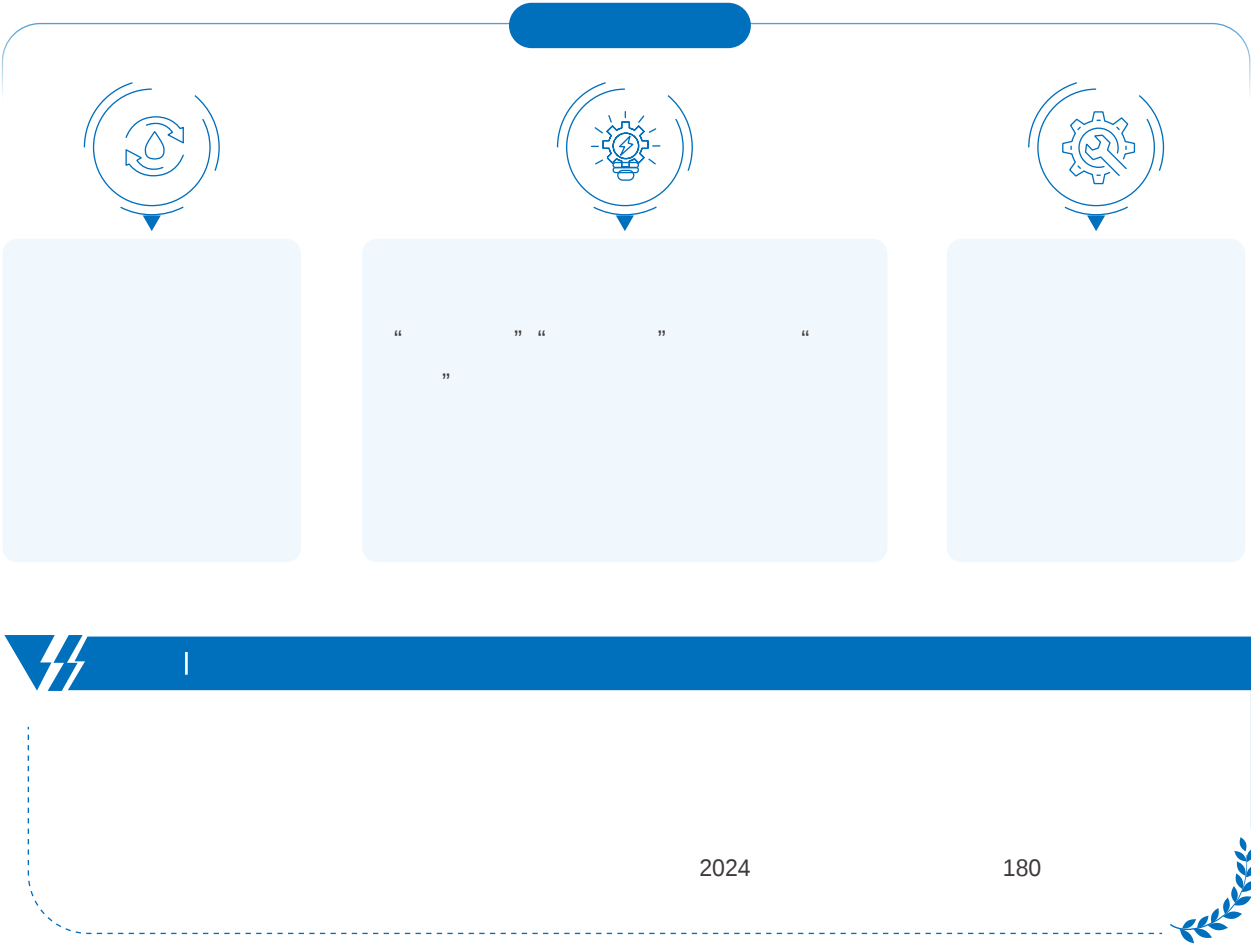


811.85

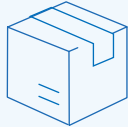


528.52

0.04 /kVAh



26,400



90%

60%

“ ”
“ ”

100.5MWh

202411

100.5MWh

EPC

303.35MWh

15PCS

510kV

110kV10kV

200

3CO₂



5.6MWh

20246

3MW/5.6MWh

12.98MWhh

12.61MWh

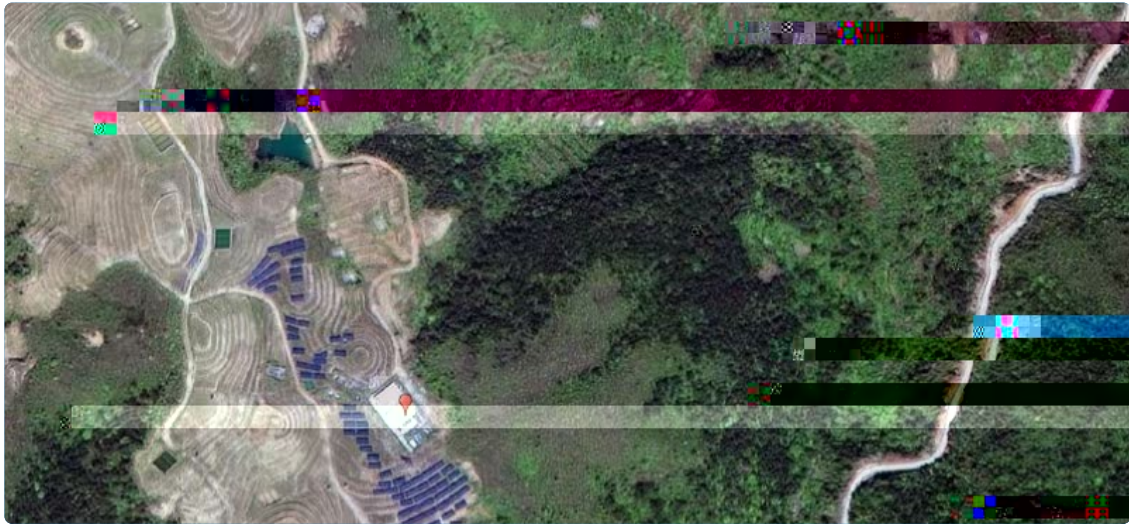
1

3MW PCS

135kV

240 kWh

120



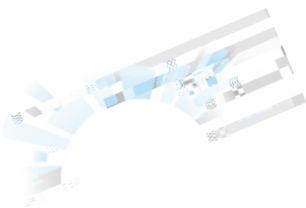


聚能共进

ESG

SDGs





“ ” +

60 “ ” “ ”

13 4

2024 TNPD

Pack
BMS

3C

30%

1,846

9.70%

2

1

4

26



3,592

907

16

9

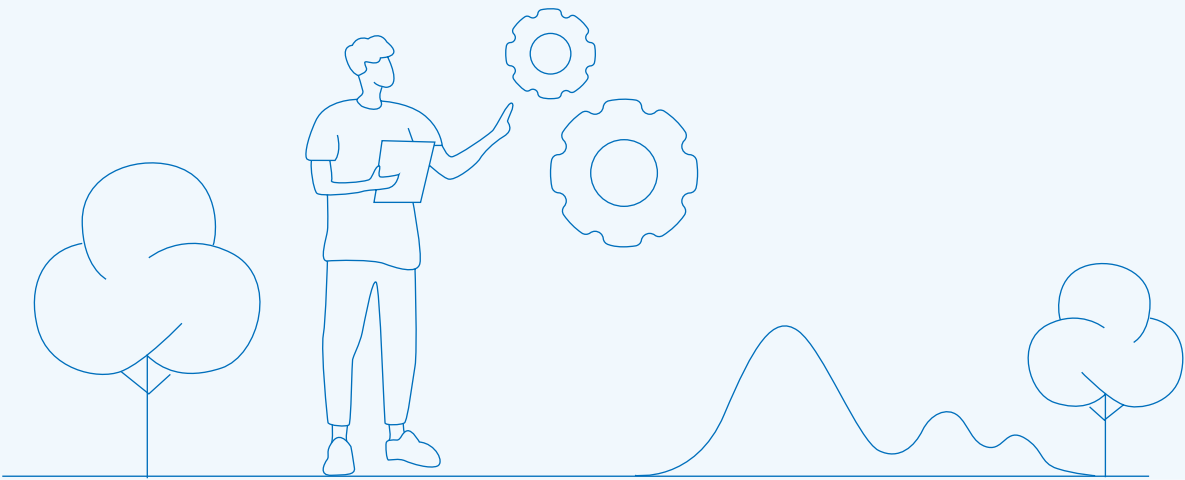
265

4

104

51

106



ESIE 2024

2024 4

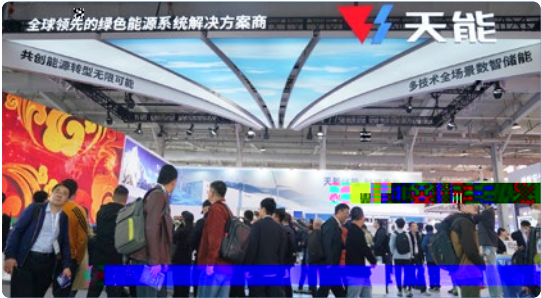
ESIE 2024

“ ”

5MWh

OPZV-1000

1





WBE2024

WBE2024

AGM





SNEC 2024

2024 9

SNEC ES+

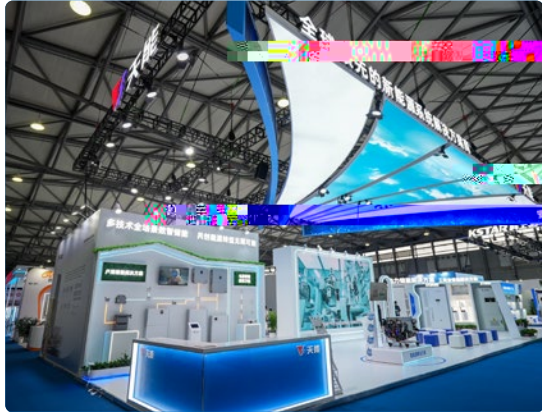
“ ”

372kWh

N3-310

314Ah

5MWh





2024 4

“ ”

2024 7 12

“ 2024

”

“ ”

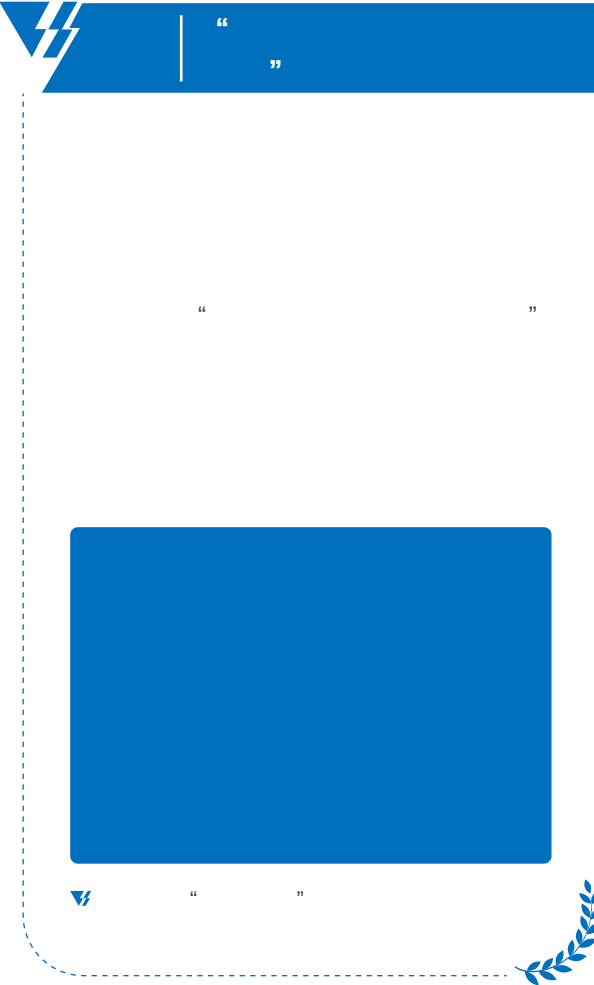
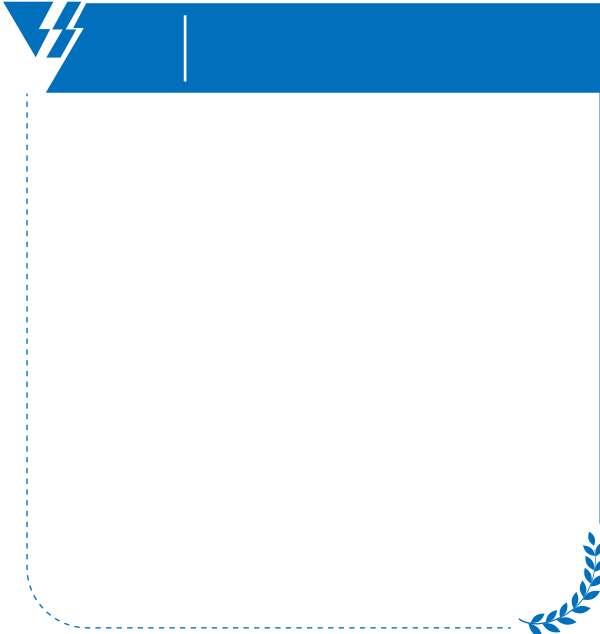
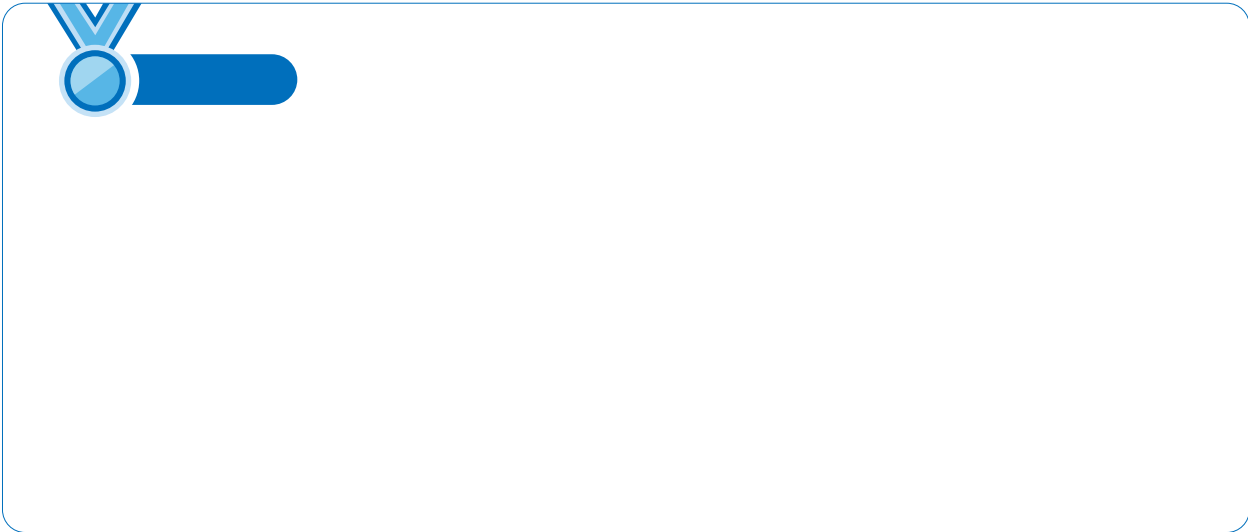
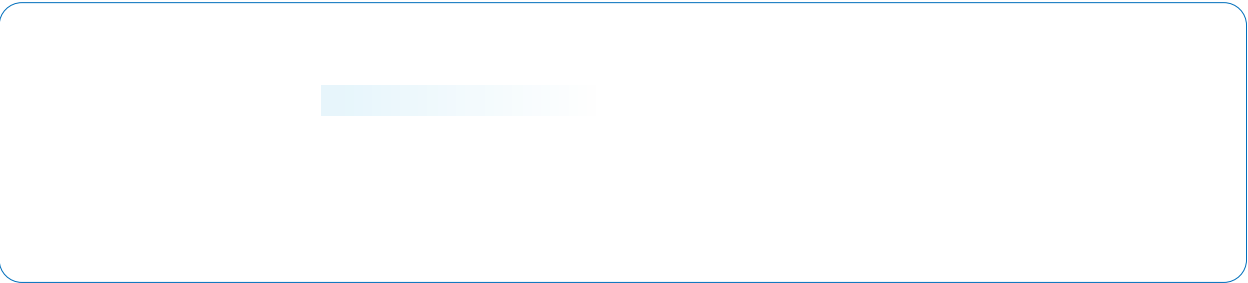
2024大连夏季达沃斯
2024 DALIAN SUMMER DAVOS
6月26-27日

遇见大连
心驰神往

WORLD ECONOMIC FORUM
Annual Meeting of the
New Champions Dalian 2024
2024 年新领军者年会·大连

W

10GWh



RoHS REACH
HSF



HSF 100%
HSF 100%



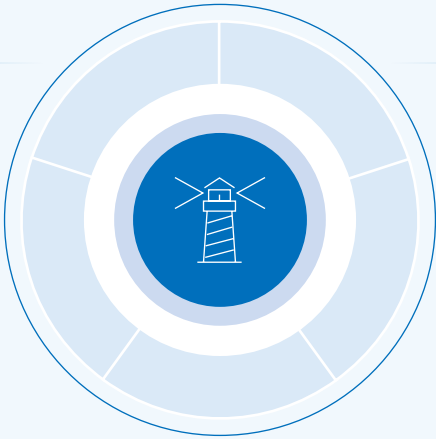
MSDS

HS

HSF



HS



2024 24 7.17

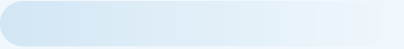


400 24 100%



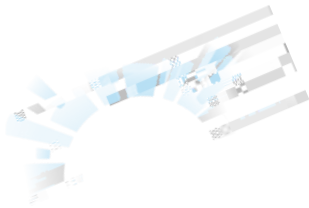
/ 30 98%





2024

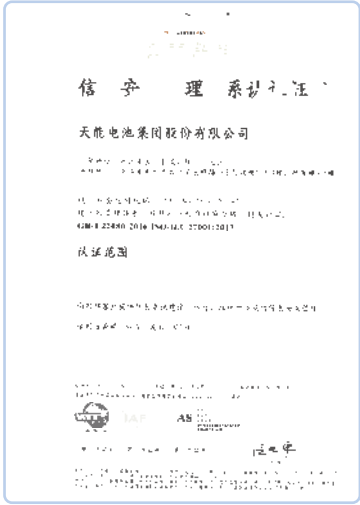




ISO 27001

18

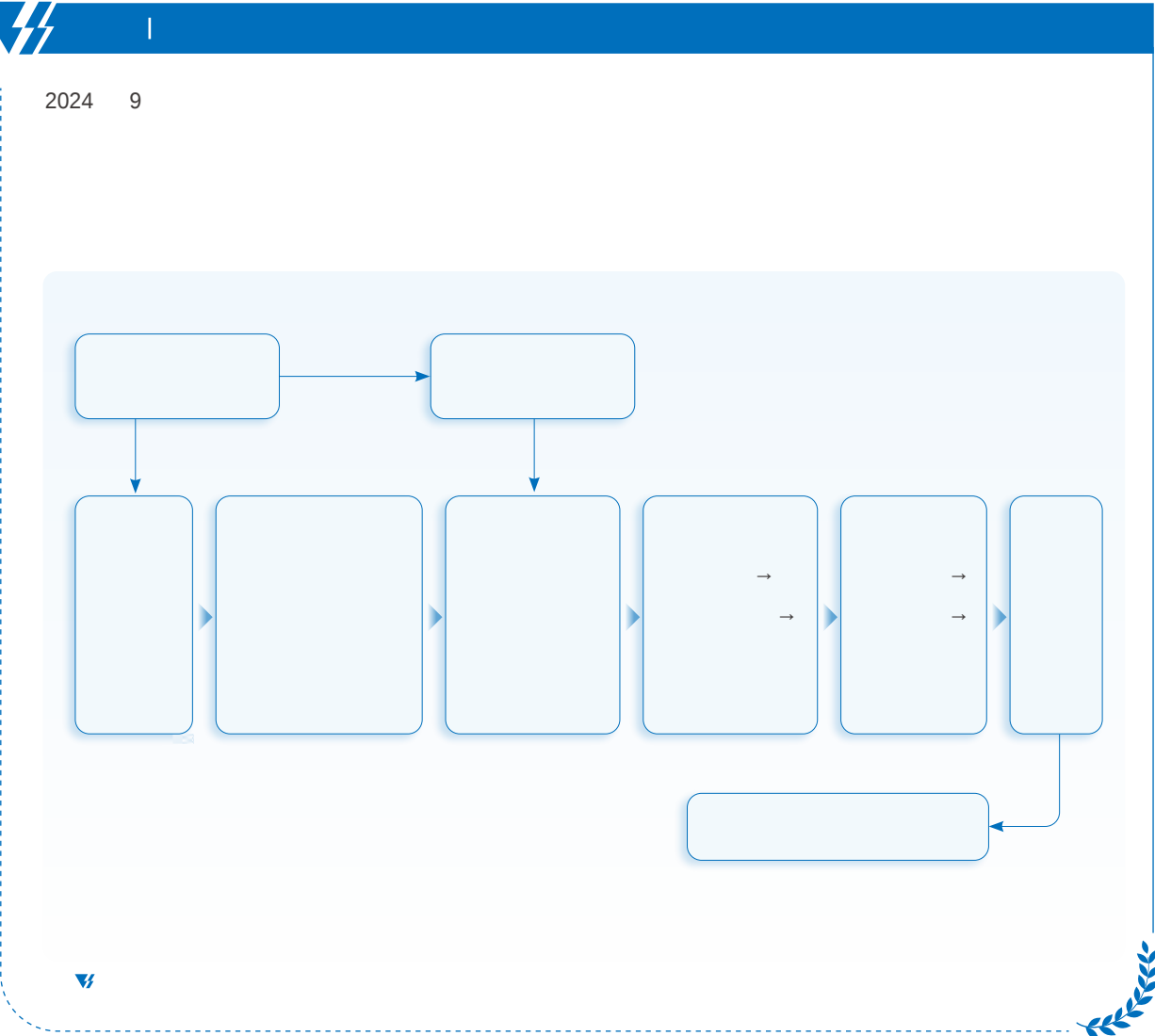
9

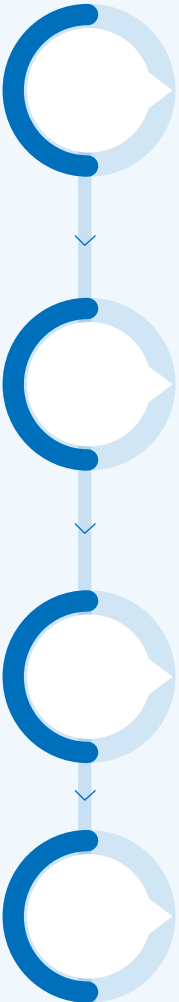
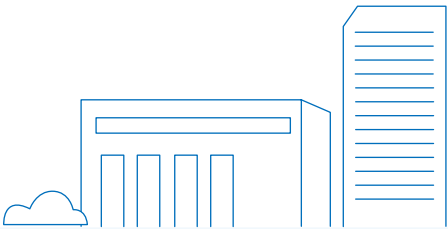
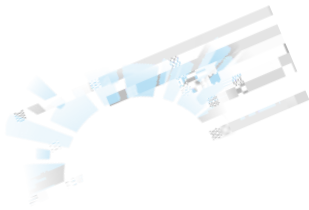


ISO 27001

4

2

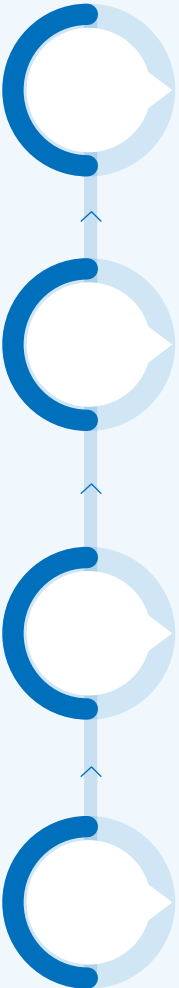




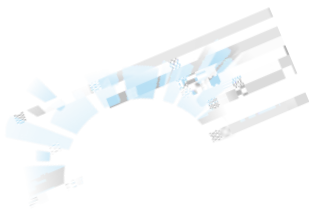
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3

/

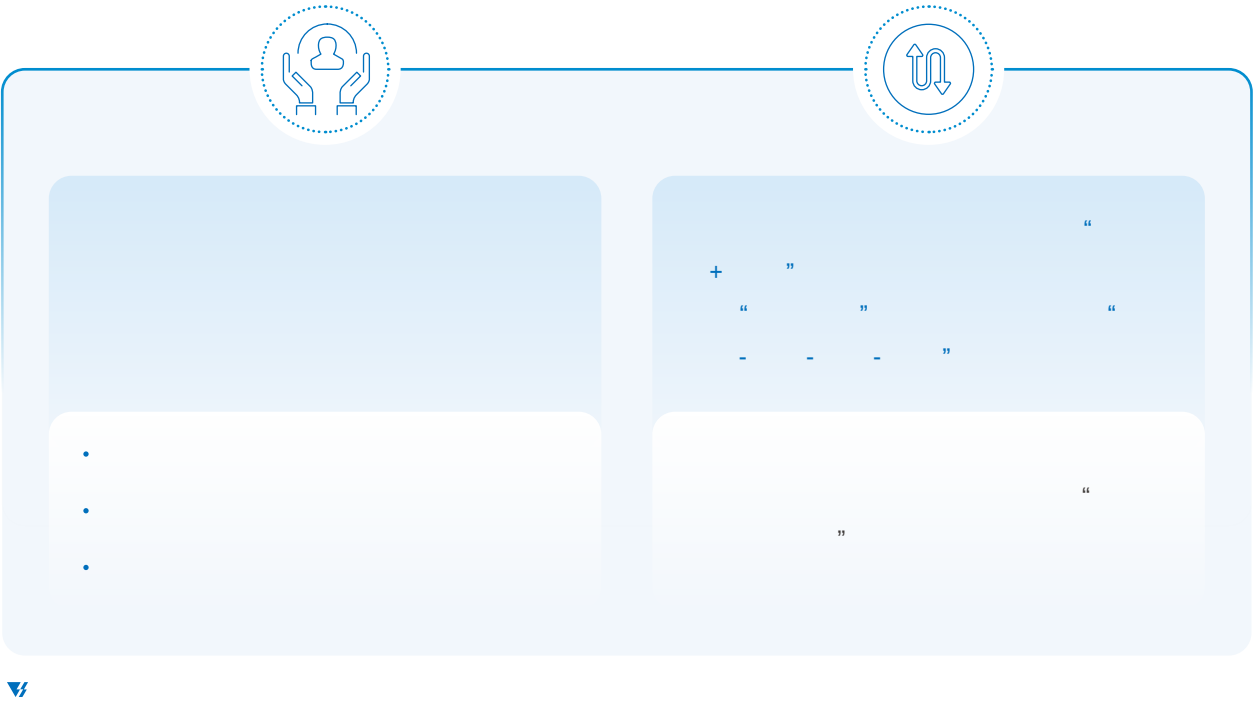
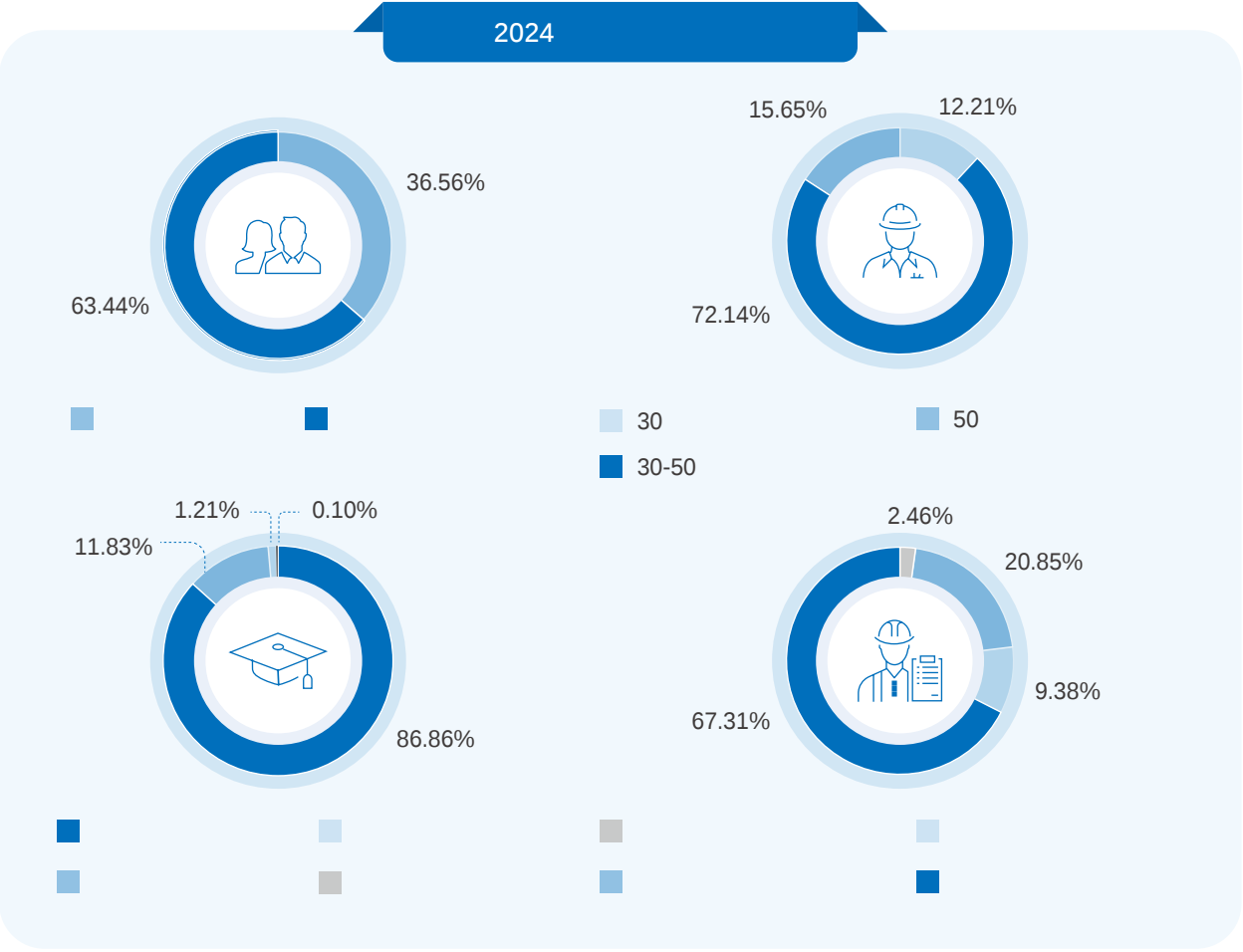


OA



360°

18



OA



2021

50

100

2024 “ ”

83%

95%

98.5%

2024

在这个属于您的美好日子里，天能全体同仁向您送上最真挚的祝福：祝您生日快乐，阖家幸福！愿您在天能温暖的大家庭中，不断超越、成就梦想！
科创天能，感谢一路有您！
携手共建，共创美好明天！

购物卡
SHOPPING CARD

2024 9 “ ”

2 “ ”

一路有你



555.44	1,361	
62	50	
165	67	56

2021

1

16,266

2024

2,620

131,585.64

1,867

753

2





OMO



400

13,315

100%

70

1,103



294

6,347

502

5,580

2,168

74,409

379

9,125

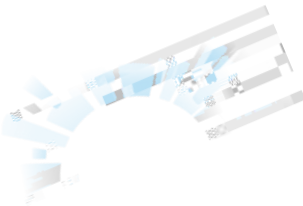
420

2



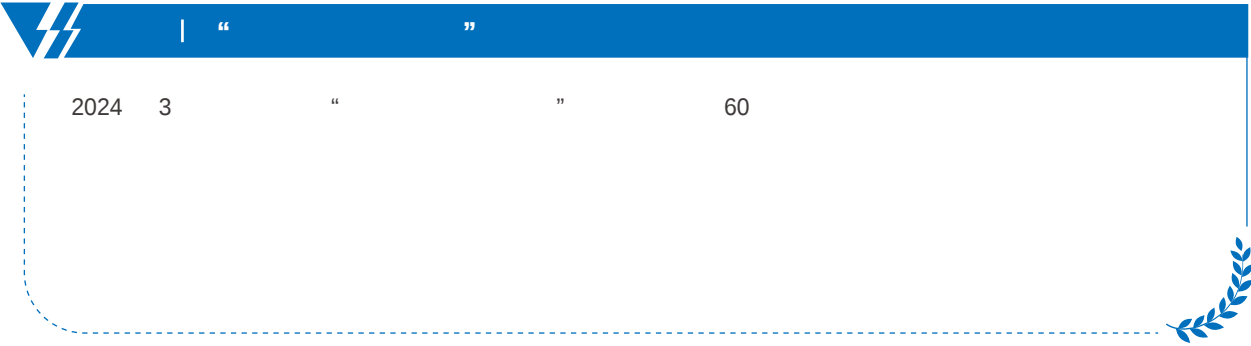
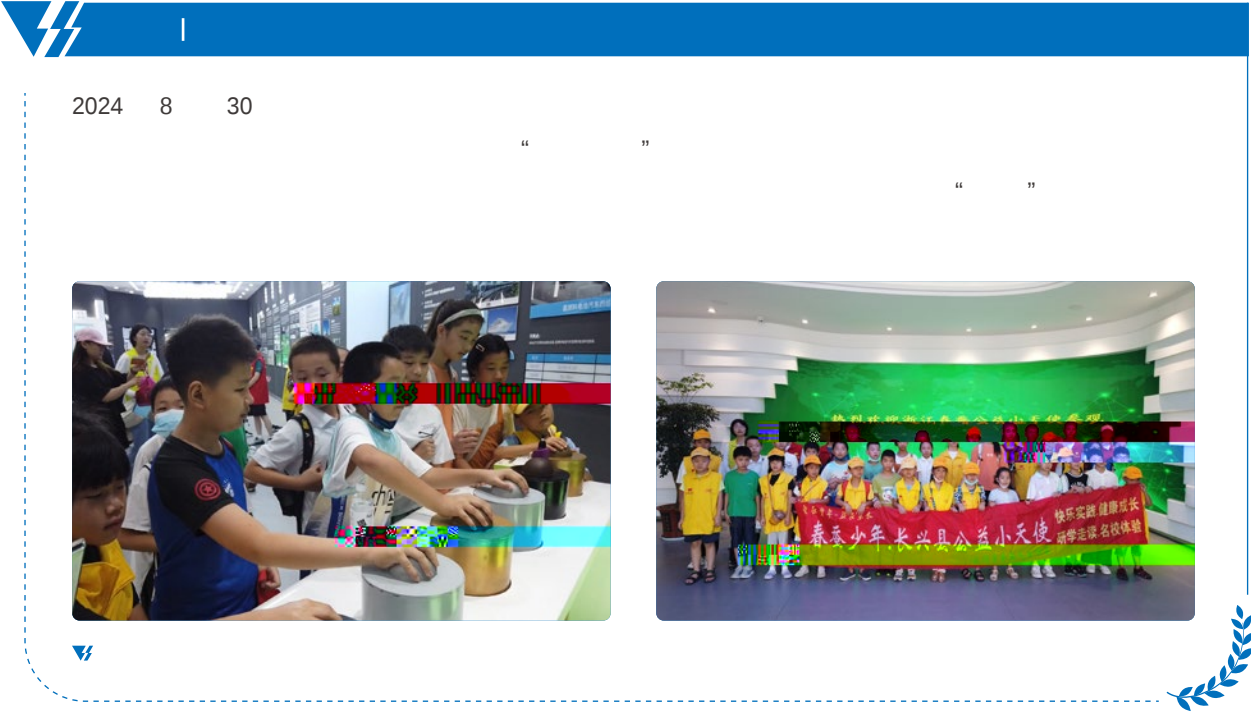
2024 11





		“ ”			
	2024	7	28	EPC	
		“	”		
				2,844.72	
				3,422.19	

“ ”

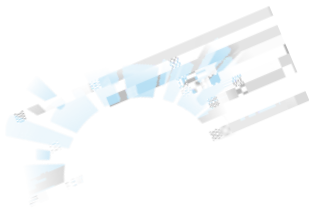


聚能共治

SDGs

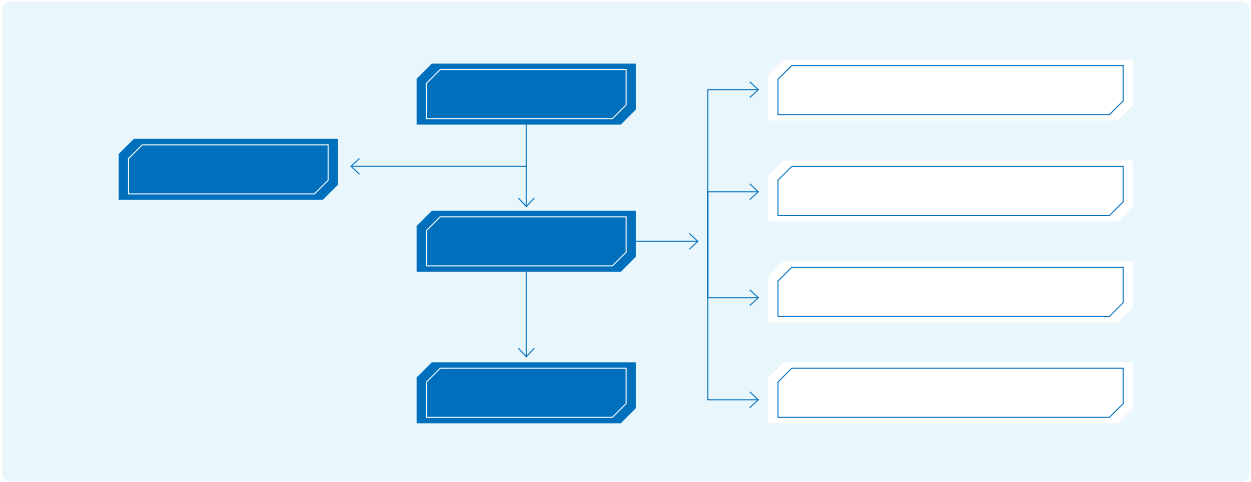
16 和平、正义与
强大机构





7

1 —



2

3

1

6

11

44

39

44

44

39

4

8

5

1

2

1

			/	/		/	/
		✓			✓		63
		✓			✓		68
		✓			✓		55
		✓			✓		54
		✓			✓		56
		✓	✓		✓	✓	44
			✓			✓	70
			✓			✓	63
			✓			✓	55



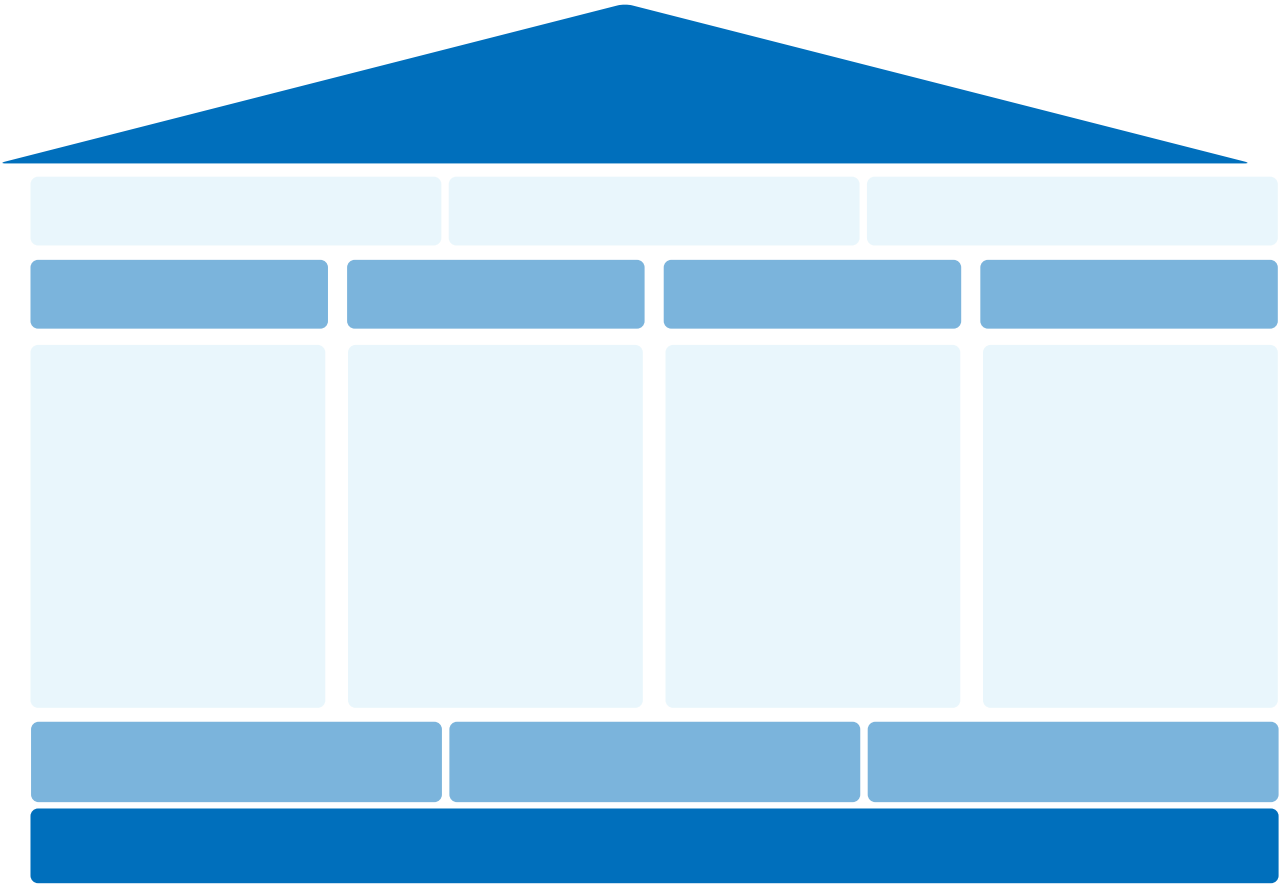


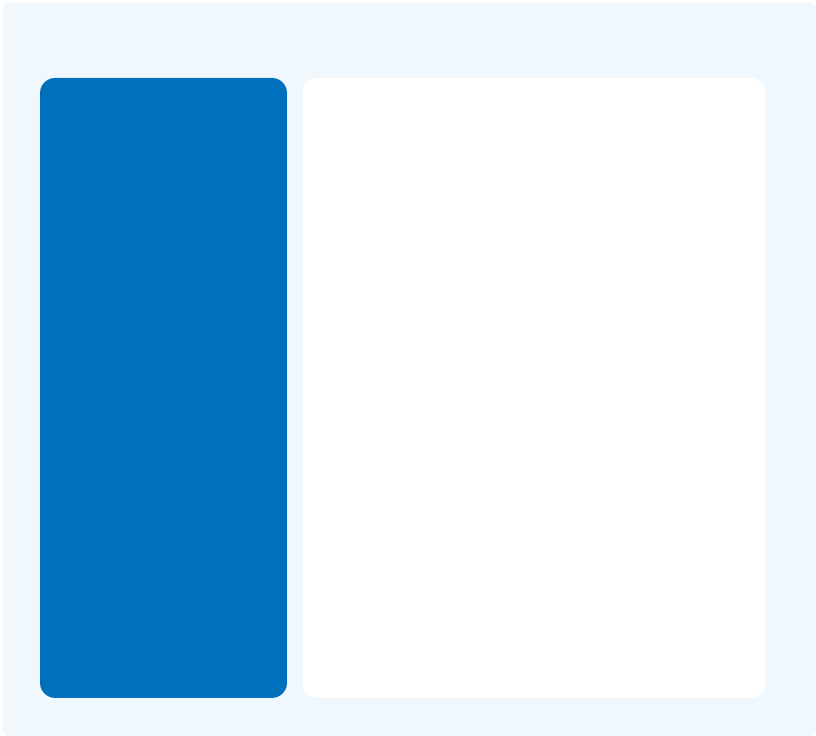
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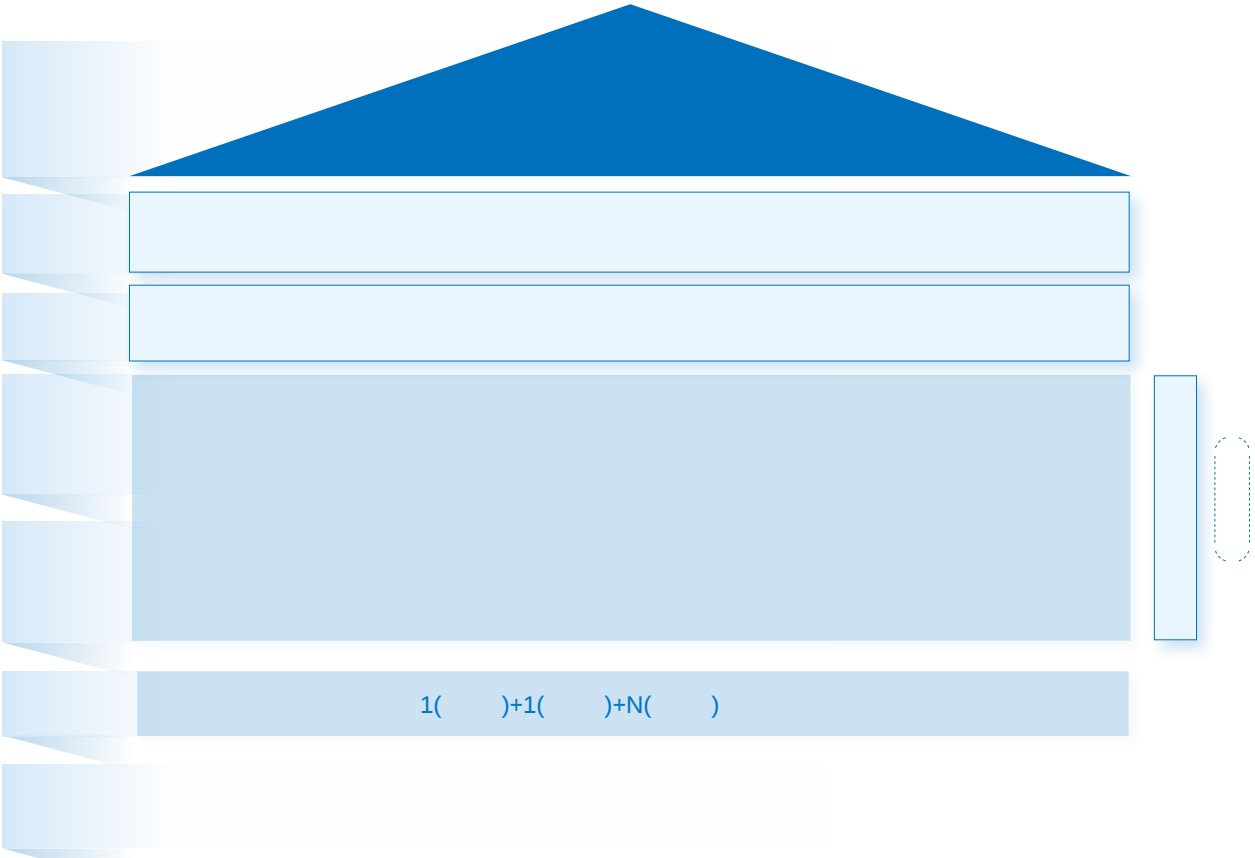
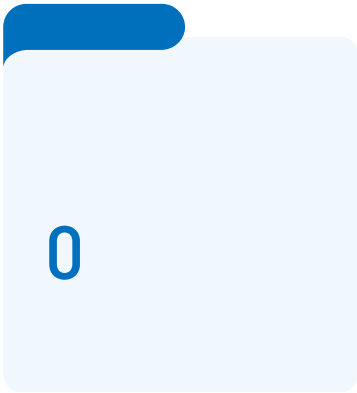
6

14

3



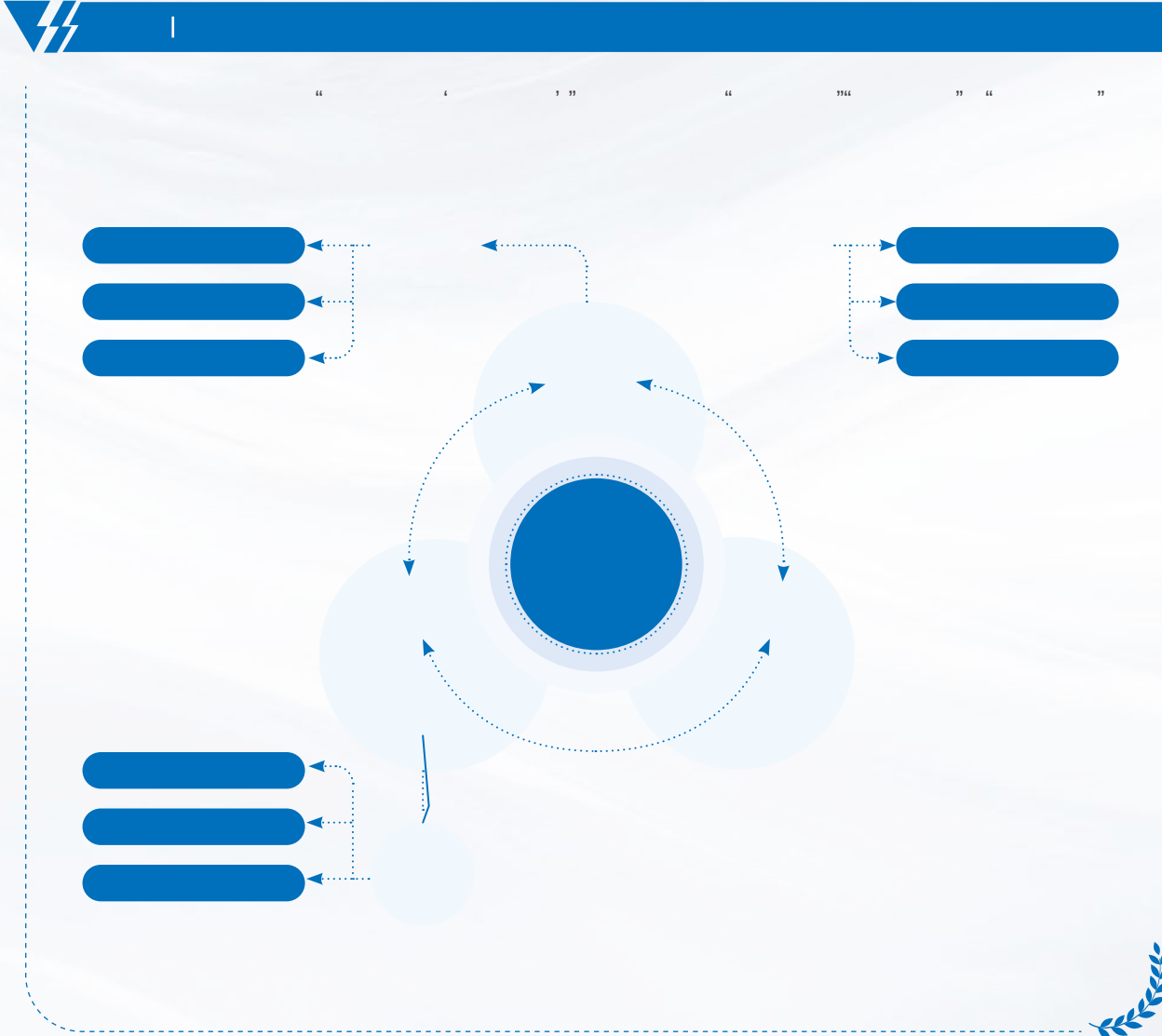
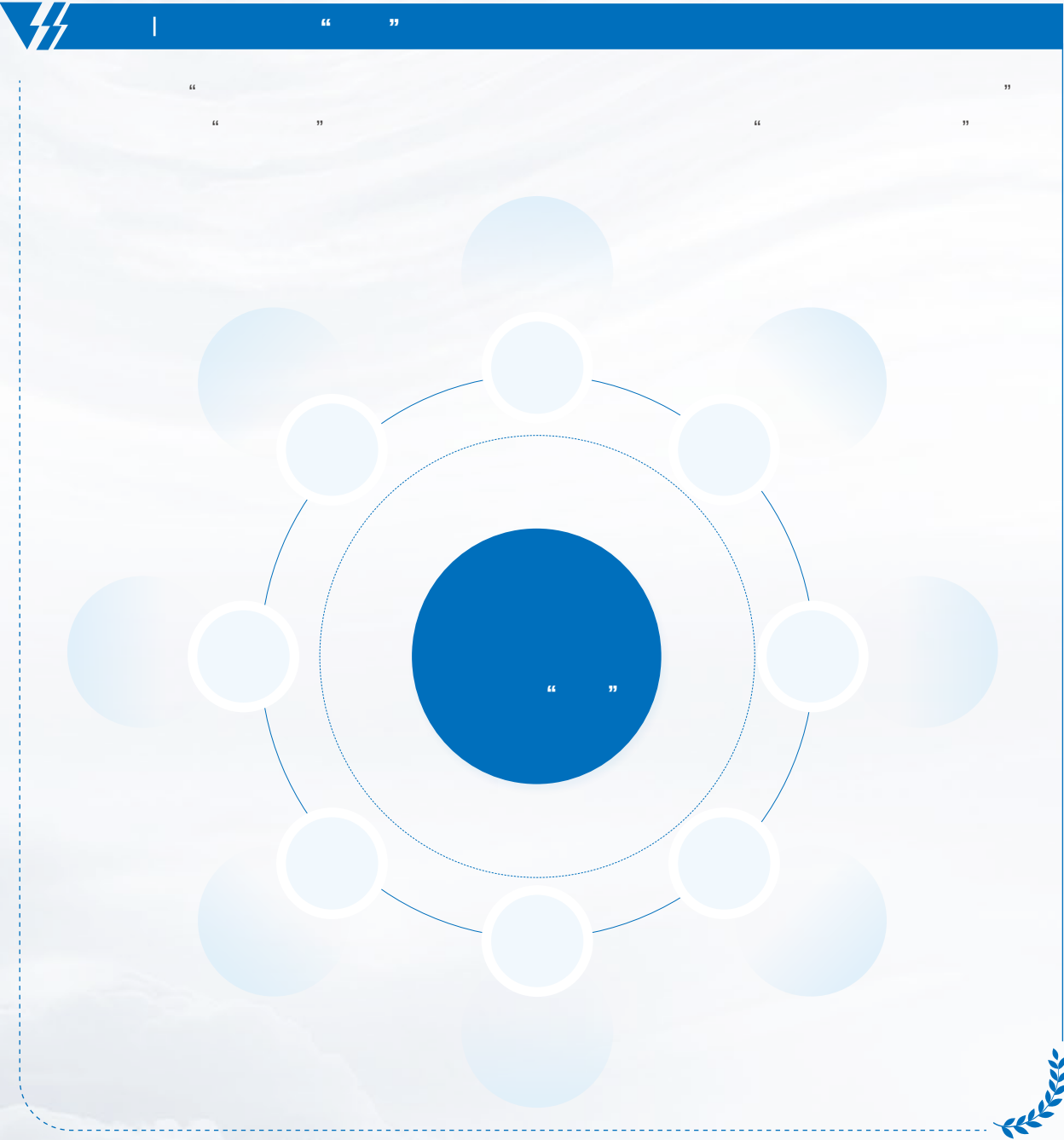




“ 1+1+N ”



2023



66

77

66

77

2



4



5



6



8

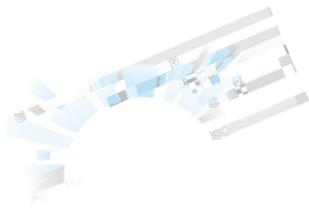


9



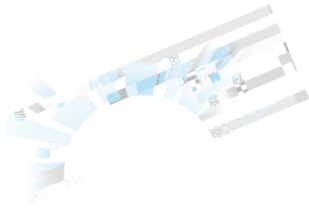
11





		2024
		4,504,179.23
		155,451.21
		4,428,796.39
		330,757.55
		%100
		98
		22.8
		110.22
		187,542.87
		%4.16
		1,846
		%9.70
		193
		148
		3,592
		77
		%100
		%27.03
		%98.68
		%100
		1,520
		100,775
		98.7
		19,022
		%63.44
		%36.56
30		%12.21
30	50	%72.14

		2024
50	%	15.65
		17,579.40
		1,126.90
		%100
		0
		%0
		386,000
		1,361
		555.44
		6,296.79
		101,175
		3,705,555
		3,806,730
		0.85
		543,580
		55,561
		413,410
		64,156
		663
		353
		9,437
		811.85
		%90
		%60



GRI

	2024	GRI	GRI
GRI 1	GRI 1:	2021	

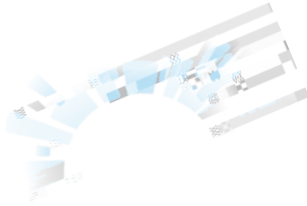
GRI			
GRI 2:	2021	2-1	
		2-2	
		2-3	
		2-4	
		2-5	/
		2-6	
		2-7	
		2-8	/
		2-9	ESG
		2-10	
		2-11	
		2-12	ESG
		2-13	ESG
		2-14	ESG
		2-15	
		2-16	
		2-17	
		2-18	
		2-19	
		2-20	
		2-21	/
		2-22	
		2-23	
		2-24	
		2-25	
		2-26	
		2-27	
		2-28	
		2-29	
		2-30	/

GRI			
GRI 3:	2021	3-1	
		3-2	
		3-3	
GRI 201:	2016	201-1	
		201-2	
		201-3	
GRI 202:	2016	201-4	
		202-1	/
		202-2	/
GRI 203:	2016	203-1	
		203-2	
GRI 204:	2016	204-1	/
		205-1	
GRI 205:	2016	205-2	
		205-3	
GRI 206:	2016	206-1	
		207-1	
GRI 207:	2019	207-2	
		207-3	
		207-4	
GRI 301:	2016	301-1	
		301-2	
		301-3	
GRI 302:	2016	302-1	
		302-2	
		302-3	
GRI 303:	2018	302-4	
		302-5	
		303-1	
GRI 304:	2016	303-2	
		303-3	/
		303-4	
GRI 305:	2016	303-5	
		304-1	
		304-2	
GRI 306:	2016	304-3	/
		304-4	/
		IUCN	

GRI				
GRI 305:	2016	305-1	1	
		305-2	2	
		305-3	3	
		305-4		
		305-5		
		305-6	ODS	/
		305-7	NOX	SOX
GRI 306:	2020	306-1		
		306-2		
		306-3		
		306-4		
		306-5		/
GRI 308:	2016	308-1		
		308-2		
GRI 401:	2016	401-1		/
		401-2		
GRI 402:	2016	401-3		
		402-1		/
GRI 403:	2018	403-1		
		403-2		
		403-3		
		403-4		/
		403-5		
		403-6		
		403-7		
		403-8		
		403-9		
		403-10		

GRI				
GRI 404:	2016	404-1		
		404-2		
		404-3		/
GRI 405:	2016	405-1		
		405-2		/
GRI 406:	2016	406-1		
GRI 407:	2016	407-1		/
GRI 408:	2016	408-1		
GRI 409:	2016	409-1		
GRI 410:	2016	410-1		/
GRI 411:	2016	411-1		
		413-1		
GRI 413:	2016	413-2		
GRI 414:	2016	414-1		
		414-2		/
GRI 415:	2016	415-1		/
GRI 416:	2016	416-1		
		416-2		
GRI 417:	2016	417-1		
		417-2		
		417-3		
GRI 418:	2016	418-1		

ESG



ESG

2024

ESG

1.	☐	☐	☐	☐	☐	☐
2.	☐	☐	☐	☐	☐	
3.	☐	☐	☐	☐	☐	
4.	☐	☐	☐	☐	☐	
5.	☐	☐	☐	☐	☐	
6.	☐	☐	☐	☐	☐	
7.	☐	☐	☐	☐	☐	

ESG

