



**2024**

**ESG**

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	.....	<b>3</b>
	.....	<b>5</b>
<b>2024</b>	.....	<b>6</b>
	.....	6
	.....	6
ESG	.....	7
	.....	7
	.....	<b>9</b>
	.....	9
	.....	9
	.....	9
	.....	10
	.....	<b>12</b>
<b>1.</b>	.....	<b>14</b>
1.1	.....	14
1.2	.....	16
1.3	.....	18
1.4	.....	21
1.5	.....	30
1.6	.....	31
1.7	.....	31
1.8	.....	33
<b>2.</b>	.....	<b>34</b>
2.1	.....	34
2.2	.....	34
2.3	.....	36
2.4	.....	37
2.5	.....	39
2.6	.....	41
2.7	.....	42
2.8	.....	48
<b>3.</b>	.....	<b>50</b>
3.1	.....	50
3.2	.....	56

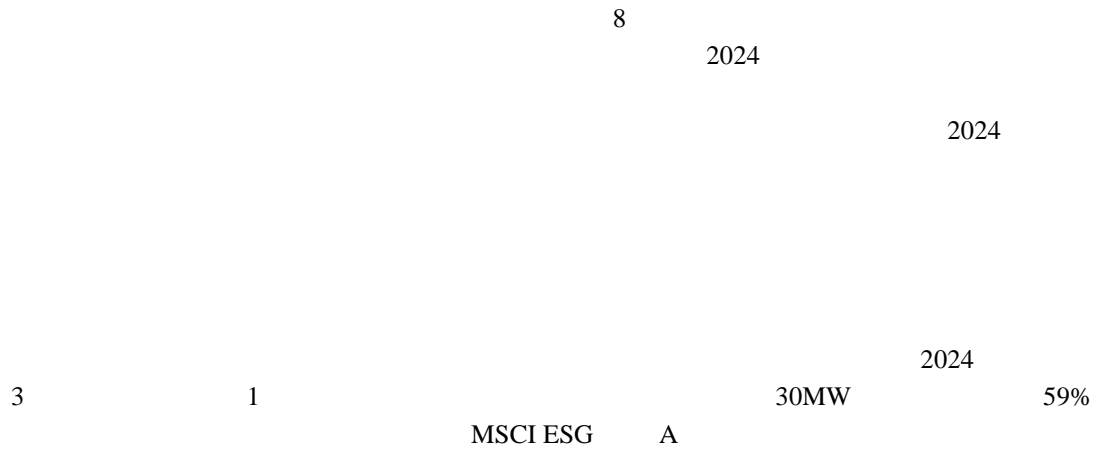
3.3	.....	59
3.4	.....	64
<b>4.</b>	<b>.....</b>	<b>67</b>
4.1	.....	67
4.2	.....	69
4.3	.....	70
4.4	.....	71
4.5	.....	74
4.6	.....	76
	.....	79
	17 — .....	80
GRI	.....	81
	<b>.....</b>	<b>86</b>
	<b>.....</b>	<b>89</b>



- 17 —
- 3 —
- CASS-ESG 6.0
- GRI Standards
- SDGs
- “Measuring Stakeholder Capitalism: Towards Common Metrics and Consistent Reporting of Sustainable Value Creation”<sup>1</sup>- Stakeholder Capitalism Metrics
- 1 —
- TCFD  
ESG 2 —

<http://www.szse.cn>

<http://www.semcorp.com>  
[www.cninfo.com.cn](http://www.cninfo.com.cn)



## 2024

		2024	2023
		472.00	472.01
		101.64	120.42
		-8.45	30.26
		%	-2.17
			13.31
<sup>2</sup>		7.30	10.69
		1,774,074.1	1,322,640.0
<sup>3</sup>		1,046,534.1	
		16,240.4	14,546.7
		/	3,660.6
1+		/	0.8
2			1.0
		/	5.9
		9,526	9,333
		%	33.3%
		212,993	129,795
TRIR		0.52	0.63
		6.63	7.27
		681	606

ISO 9001 ISO 14001 ISO 45001

ISO 9001		94%
ISO 14001		78%
ISO 45001		78%

<sup>2</sup><sup>3</sup>

2024

**ESG**

2024

ESG

ESG

ESG

ESG

ESG	MSCI ESG 2024 9	
	Wind ESG	
ESG	300 ESG	931463.CSI
	300 ESG	931465.CSI
	800 ESG	931651.CSI
	MSCI A ESG MSCI China A RMB ESG Universal Index	721638.MI
	MSCI A	720496.MI
		931755.CSI
		000827.SH
	ESG100	000846.CSI
	60	931772.CSI
		931733.CSI
	300	931859.CSI
	50	931380.CSI

2024

	2024ESG	

2024

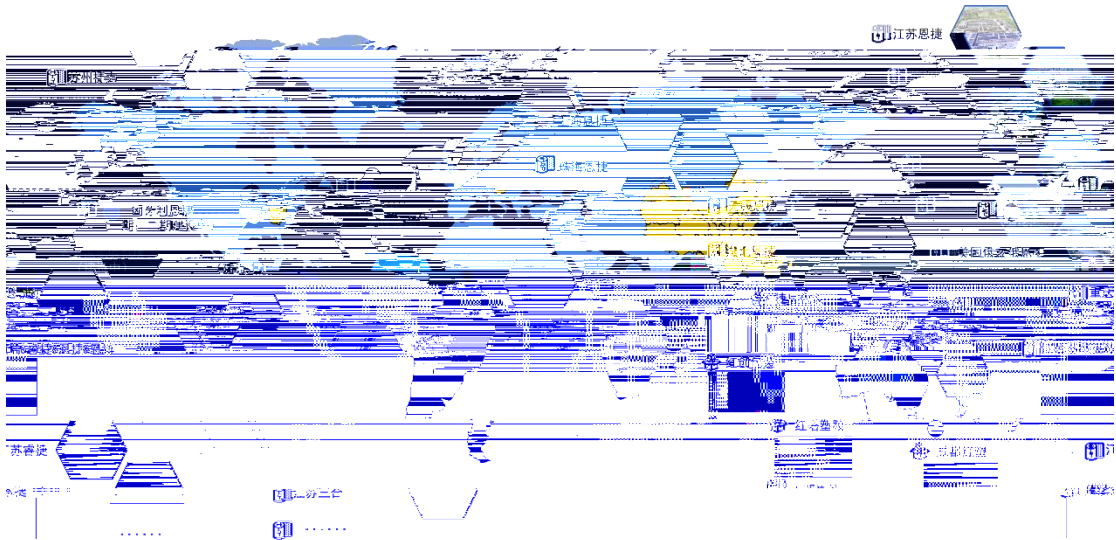
	2024	
	ESG	
	ESG	
	2024 TOP100	
	2024	
	2024	
	2024	
	2024	

2006  
002812

2016 9 14

14 7

BOPP



" 1139" " 1 " " 1 " " 3 " " 9

" 1 " -	" 1 " -
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" 3 " -	" 9 " - / / & / / / & / / &AI/
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" 1139"

" "

" "

2024

" 1139"

" 1139"

" " " "



BOPP

3C

LGES

Ultium

ACC

10  
2

10

BOPP

BOPP

BOPP

BOPP

BOPP

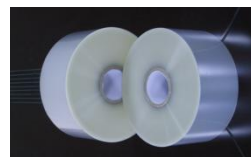
BOPP

BOPP

BOPP

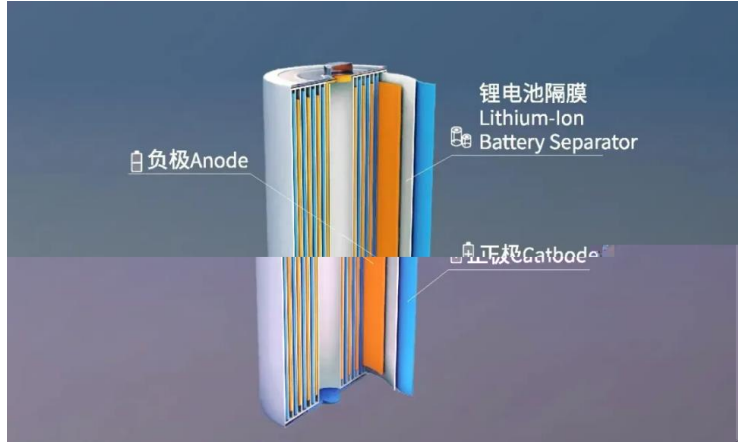
BOPP

3C



BOPP





35



PVDF





# 1.

## 1.1

" "

ESG

ESG

ESG

2024	11	19	16	16	9
62		85			
3		1		11.1% x j 9- » @ ^	3
1		1	3		

2024

A

9

357

3  
20

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	<ul style="list-style-type: none"><li>• ESG</li><li>• ESG</li><li>• ESG</li><li>• ESG</li><li>• ESG</li></ul>
ESG	<ul style="list-style-type: none"><li>• ESG</li><li>• ESG</li><li>• ESG</li></ul>
ESG	<ul style="list-style-type: none"><li>• ESG</li><li>• ESG</li><li>• ESG</li><li>• ESG</li><li>• ESG</li><li>• ESG</li></ul>



2024

3

206

	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li><li>•</li><li>•</li><li>•</li><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li><li>•</li></ul>

	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul>
	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>
	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>

— — ESG

2024 11 19 ESG 4 33 ESG ESG

ESG ESG ESG ESG ESG

ESG ESG ESG



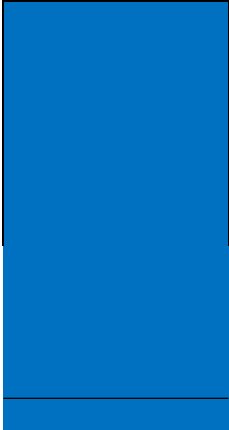
**1.4**

ESG

ESG

"

"

	•		
	•	2024	
	•		
	•		17 —

## ESG

	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			



1/3

		<ul style="list-style-type: none"><li>(+)</li><li>(-)</li></ul>	<ul style="list-style-type: none"><li>(+)</li><li>(-)</li></ul>	<ul style="list-style-type: none"><li>(+)</li><li>(+)</li></ul>
		<ul style="list-style-type: none"><li></li><li></li><li></li></ul>	<ul style="list-style-type: none"><li></li><li></li></ul>	<ul style="list-style-type: none"><li></li><li></li></ul>
		<ul style="list-style-type: none"><li></li><li></li><li></li></ul>	<ul style="list-style-type: none"><li></li><li></li><li></li></ul>	<ul style="list-style-type: none"><li></li><li></li></ul>
		<ul style="list-style-type: none"><li></li></ul>	<ul style="list-style-type: none"><li>+</li></ul>	<ul style="list-style-type: none"><li></li></ul>
/			<ul style="list-style-type: none"><li></li></ul>	

			•	
			• • •	•
	• 2024	59%	• ISO 9001 94%	• 100%
	•		• 12 IATF 16949:2016	• 2024 209,123

2/3

	• (+)		• (+)	• (+)
	• (-)		• (-)	• (+)

		<ul style="list-style-type: none"><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>• ESG</li><li>• ESG</li><li>• ESG</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li></ul>
		<ul style="list-style-type: none"><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li></ul>
/		<ul style="list-style-type: none"><li>•</li></ul>	<ul style="list-style-type: none"><li>• +</li></ul>	<ul style="list-style-type: none"><li>•</li></ul>
		<ul style="list-style-type: none"><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li></ul>
		<ul style="list-style-type: none"><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li></ul>

	<ul style="list-style-type: none"> <li>6</li> </ul>	<ul style="list-style-type: none"> <li>ROHS</li> <li>2024 24 29</li> <li>CSR ESG &amp;</li> </ul>	<ul style="list-style-type: none"> <li>6.63</li> <li>533</li> </ul>

3/3

	(+)	<ul style="list-style-type: none"> <li>(+)</li> <li>(+)</li> </ul>	(+)	(+)
	<ul style="list-style-type: none"> <li></li> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> <li></li> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>

		<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li></ul>
		<ul style="list-style-type: none"><li>• +</li></ul>	<ul style="list-style-type: none"><li>• +</li></ul>	<ul style="list-style-type: none"><li>•</li></ul>	<ul style="list-style-type: none"><li>• +</li></ul>
/		<ul style="list-style-type: none"><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>• " 1139"</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li></ul>
		<ul style="list-style-type: none"><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li><li>•</li></ul>

	<ul style="list-style-type: none"><li>•</li></ul> <p>598 BOPP</p> <ul style="list-style-type: none"><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li></ul> <p>100%</p> <ul style="list-style-type: none"><li>•</li><li>•</li></ul>	<ul style="list-style-type: none"><li>•</li></ul> <p>" 1139"</p> <ul style="list-style-type: none"><li>• " 1139"</li></ul>	<ul style="list-style-type: none"><li>•</li></ul> <p>ESG</p> <ul style="list-style-type: none"><li>•</li></ul>
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## 1.5

" 1139"

“ ”

“ ”

50%

" 1 "

" 1 "

" 3 "

" 9 "

" 1139"

" 1139"

5

1-2

3-5

5

**1.6**

ESG

ESG

ESG

**1.7**

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<ul style="list-style-type: none"><li>▪</li><li>▪</li><li>▪</li></ul>
-----------------------------------------------------------------------

2024

"

"

2024

6,326

<p>6</p> <ul style="list-style-type: none"><li>▪ /</li><li>▪</li><li>▪</li></ul>
<ul style="list-style-type: none"><li>▪</li><li>▪</li></ul>

▪		
▪		
▪	<a href="mailto:xhual ee@163. com">xhual ee@163. com</a>	<a href="mailto:li anji e@semcorp gl obal . com">li anji e@semcorp gl obal . com</a>
▪	021-20977221-8110#	
▪		155
▪		

2024

2

100%

2024

**1.8**

## 2.



### 2.1

2024

<ul style="list-style-type: none"> <li>▪</li> <li>▪</li> <li>▪</li> <li>▪</li> <li>▪ " "</li> <li>▪</li> <li>▪</li> </ul>
---------------------------------------------------------------------------------------------------------------------------

	ISO 14001:2015	ISO 50001:2018	
ISO 10012:2003		14	ISO
14001:2015	78%		
	6,796.68		

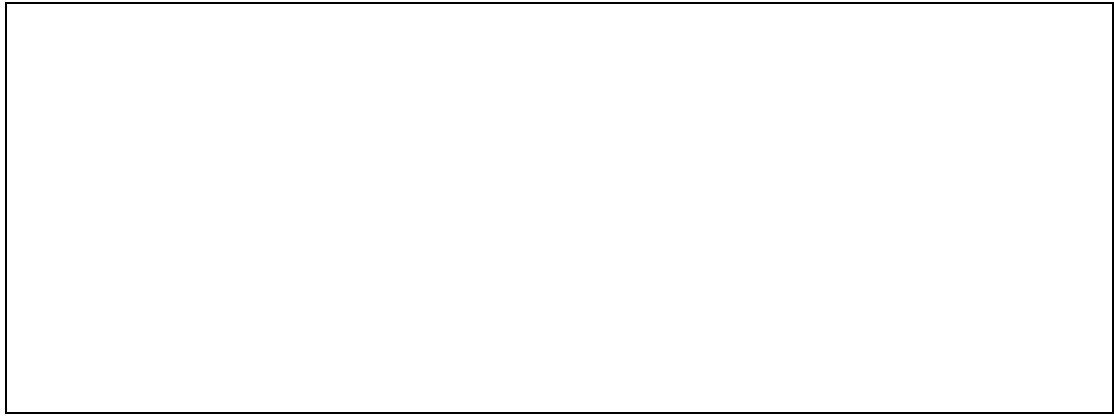
### 2.2

2006 28

ISO 50001

ISO 50001

-



**2.3**

2024

World Wildlife Fund, WWF Water Risk Filter

2024

“

”

3,706,548.40

62.2%

\*5

1



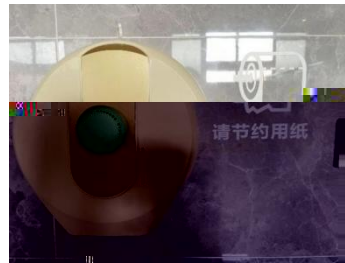
## 2.4

- HDPE PET
- 
- 
- 

		<i>RoHS</i>		<i>REACH</i>	
			2024		
51%				6%	2024
	300		2023 8	2024	10

- OA ERP IT
-

• &



		2024	2023 <sup>4</sup>
<sup>5</sup>		1,774,074,100.4	1,322,639,973.0
	<sup>6</sup>	1,046,534,083.6	
		162,039,017.2	145,233,102.0
		365,046.6	233,953.9
		93,385.4	102,994.6
		59,917.6	67,843.2
		675,076.0	632,947.4
	<sup>7</sup>	3,720,527.6	3,074,266.9

<sup>5</sup>

<sup>6</sup>

<sup>7</sup>

	/	3,660.6	2,552.9
		58,585.2	27,492.9
		44,358.9	20,531.2
		14,226.3	6,961.7
8		9,957.6	5,599.2
		2,743.7	1,873.9
		7,213.9	3,725.3
		5,952,884.1	5,773,007.3
	/	5.9	4.8

## 2.5

2024	
100%	100%
100%	100%
100%	100%

2024

VOCs

VOCs

+ +

RTO

VOCs

VOCs

		2024	2023
		122.8	98.6
		45.7	33.6
		186.7	220.6
9		355.2	352.7
	/	0.3	0.3

MBR

•

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9

•

2024

367,019.92

GB12348 2008

“ ”

## 2.6

	<ul style="list-style-type: none"><li>•</li><li>•</li><li>• DMAC</li><li>•</li><li>•</li><li>•</li><li>•</li></ul>	



ESG

ESG

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		<ul style="list-style-type: none"><li>▪</li><li>▪</li><li>▪</li></ul>			<ul style="list-style-type: none"><li>▪</li><li>▪</li></ul>
		<ul style="list-style-type: none"><li>▪ /</li></ul>			<ul style="list-style-type: none"><li>▪</li><li>▪</li></ul>
		<ul style="list-style-type: none"><li>▪</li></ul>			<ul style="list-style-type: none"><li>▪</li></ul>
		<ul style="list-style-type: none"><li>▪</li></ul>			<ul style="list-style-type: none"><li>▪</li></ul>

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					<ul style="list-style-type: none"><li>▪</li><li>▪</li></ul>
		:			<ul style="list-style-type: none"><li>▪</li><li>▪</li></ul>

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- 

				2024	2023
1+	2			824,290.2	1,234,051.6
1	<sup>10</sup>			347,165.4	319,035.6
2	<sup>11</sup>			477,124.8	915,016.0
		3-		53,581.0	N/A
1+	2	/		0.8	1.0

- 1-2 2024-2025  
2025 100%
- 3-5 2025-2028  
2028 2023 40%
- 5 2035

<sup>10</sup>

<sup>11</sup>

21

" 2021

"

2024 4

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2023	2024	50%		2024
	3,165.70			2024
		2024		59%
91%		91%	100%	
				100%
2024			2025	
2025	100%		/	
•				15.4
	1,800		7.5%	
•				
				2024
	3,643.2			
	ISO 14067: 2018	-	-	
2023				
	2024			1
2024				
2.8				
				2024

FSC FSC (Chain of Custody, COC)  
FSC

FSC PEFC

2024

### 3.

#### 3.1

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EU Forced Labour Regulation

( )

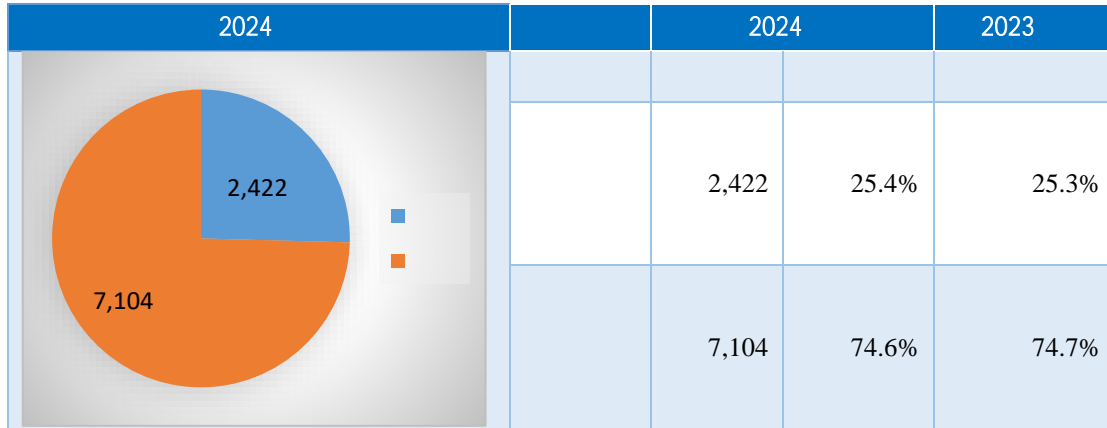
100%

" " "

"

2,422

25.4%



132

572

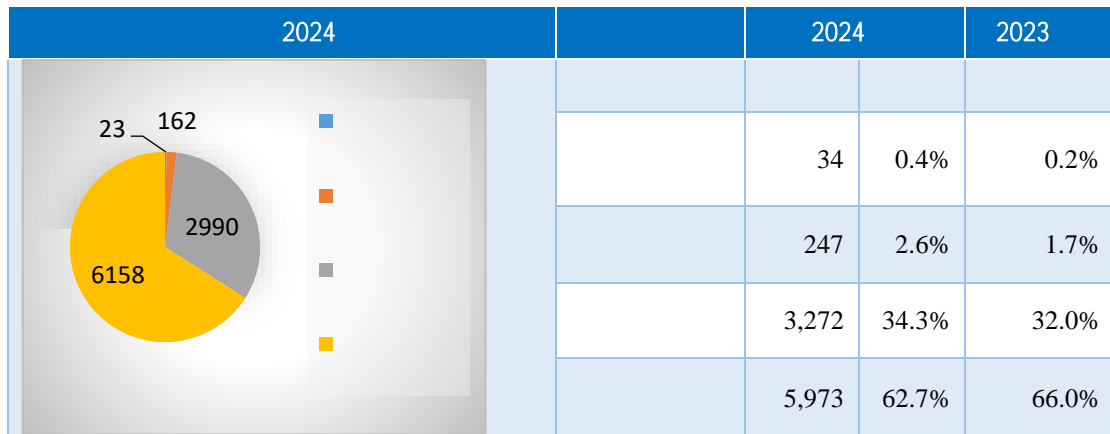
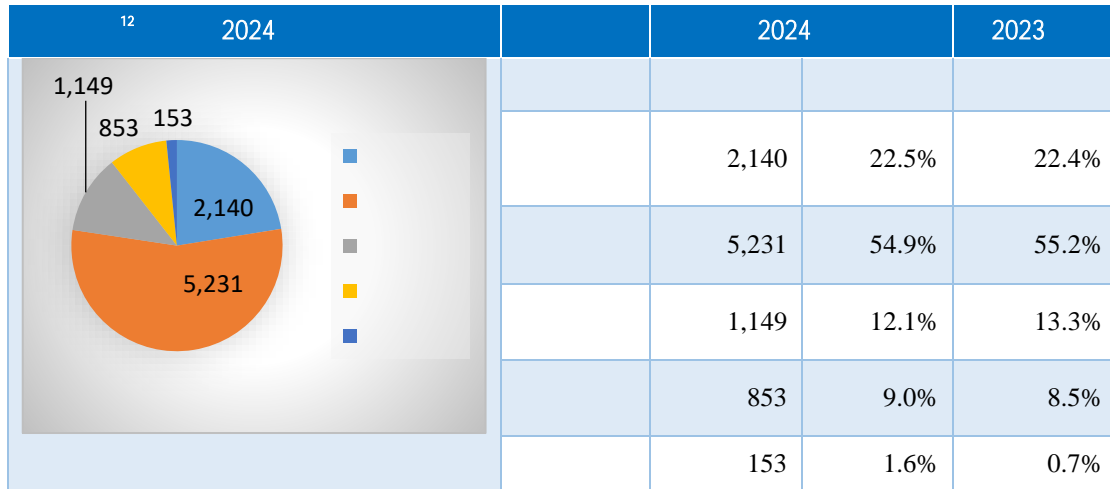
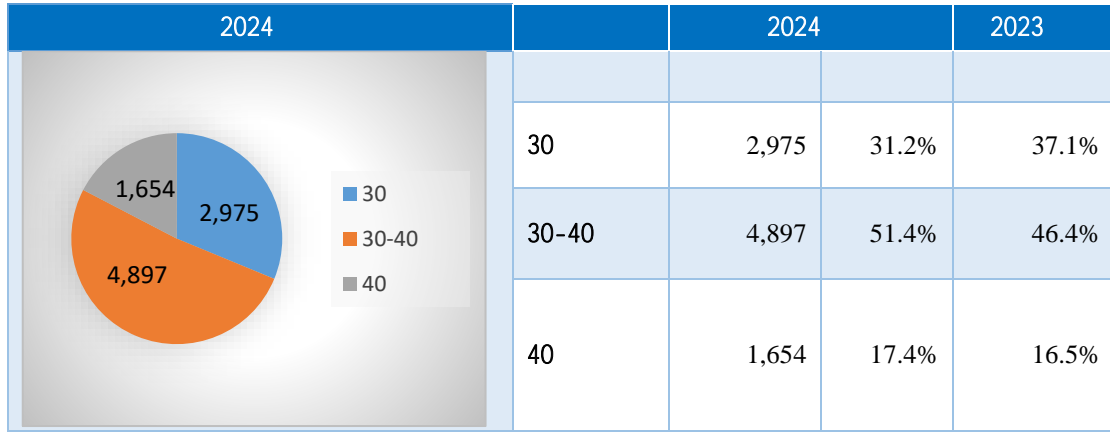
92

2024

9,526

2023

9,333



12

2024		2024
------	--	------

" "

info@semcorpglobal.com

6,335

Q12

165

80%

5

" "

	295	140	171	99
	276	126	171	93
14	93.6%	90.0%	100.0%	93.9%
	219	95	154	79
15	79.3%	75.4%	90.0%	84.9%



" "

14 =

/

15 =

/

2024

2024			
•	2024		
•			
•	2024	10	74

**3.2**

" "

2024

100%

2024

72

9

2024

	2024
/	9,036
/	8,905
/	131
/	212,993
/	209,123

E

2024 3

— — " E "

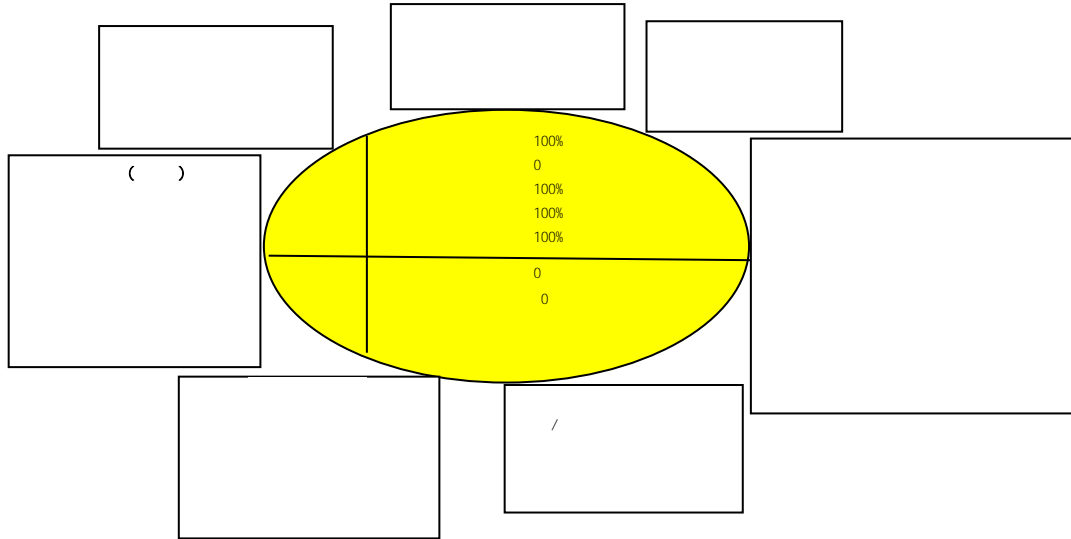
E

		-CSR		

## 3.3

KPI	" EHS	/	"
		EHS	
6			

2024	
0	100%
0	100%
0	100%
0	100%
0	100%
100%	100%



0

	2024	2023
	0	1
/	0	0.008
	50	59
<sup>16</sup>	22,968	25,072
	2,871	3,134
TRIR <sup>17</sup>	0.52	0.63

<sup>16</sup> 8

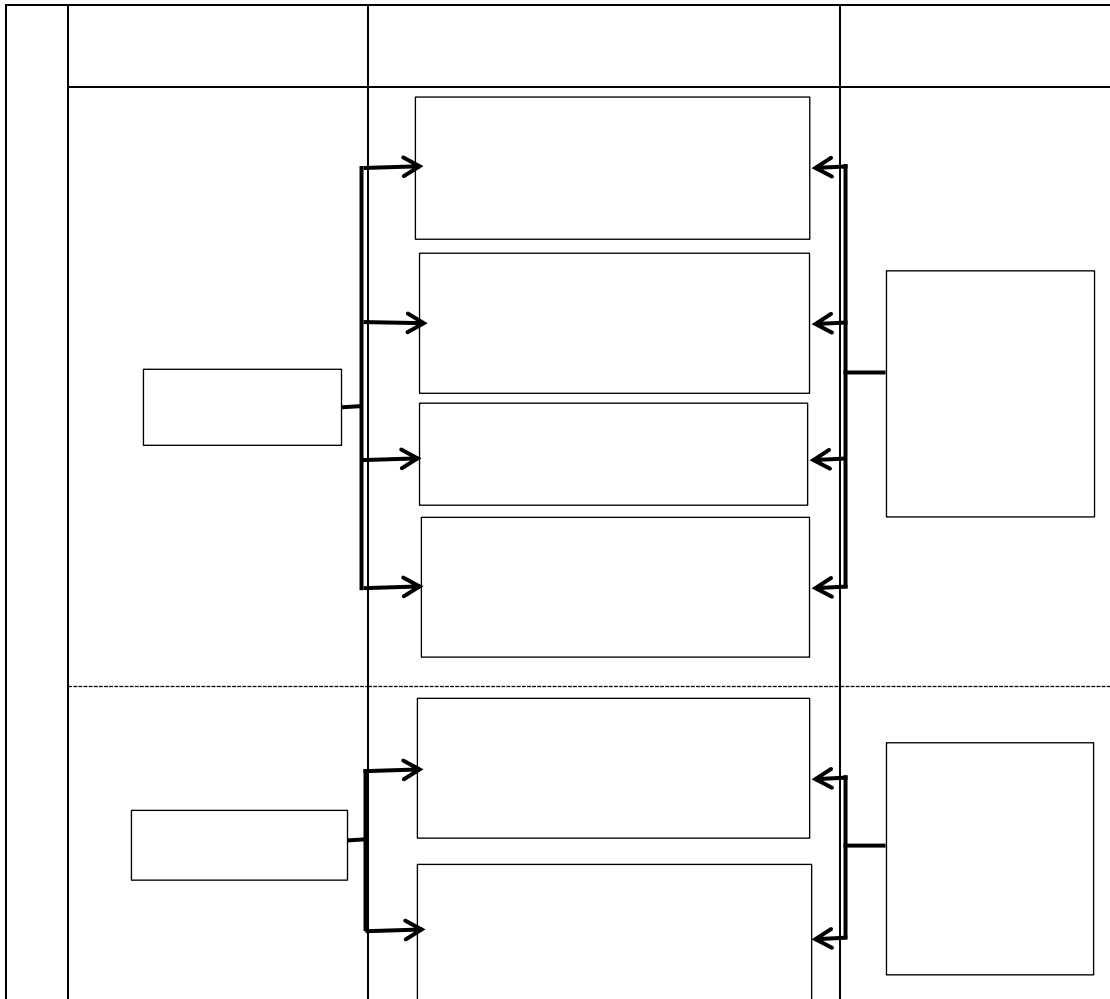
<sup>17</sup> = x 200,000 /

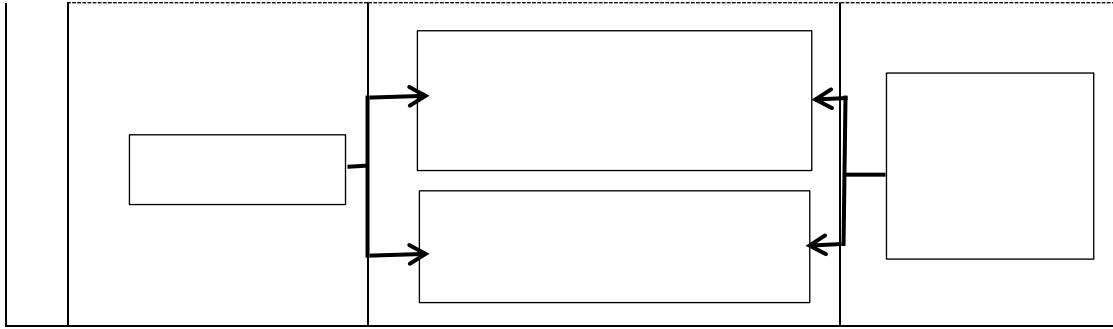
1076

MSDS

0

100%







100% 2024

- 
- 
- 
- 
- 

14

ISO 45001:2018

6

2024

979

18,610

64



2024

3



2024 2

2024

5

5

2024 5



4.



4.1

REACH

RoHS

ISO 9001

ISO 9001

ISO 14001

ISO 45001

ISO 9001

94%

12

IATF 16949:2016



IATF16949



ISO9001

8D

IQC

8

2024

ACF  
VOC

RO

**4.2**

Claim

" 2485"	5	2	24	48
		8D		

100%

2024

100%

2024

4.3

10

ISO 27001:2013

HIDS	(HIDS)		
Web	WAF	WAF Internet	SQL      XSS
		2024  3	2  30%

2024

5

5

	1
ISO 27001: 2013	1

4.4

CNAS

PVDF / CNAS 3C 533  
2024

PP		
PE		



	100%	“ ”

2024

6.63

6.52%

2022-2024	2024	2023	2022
	662,843,179.69	727,481,001.67	724,297,699.66
	6.52%	6.04%	5.75%

2010

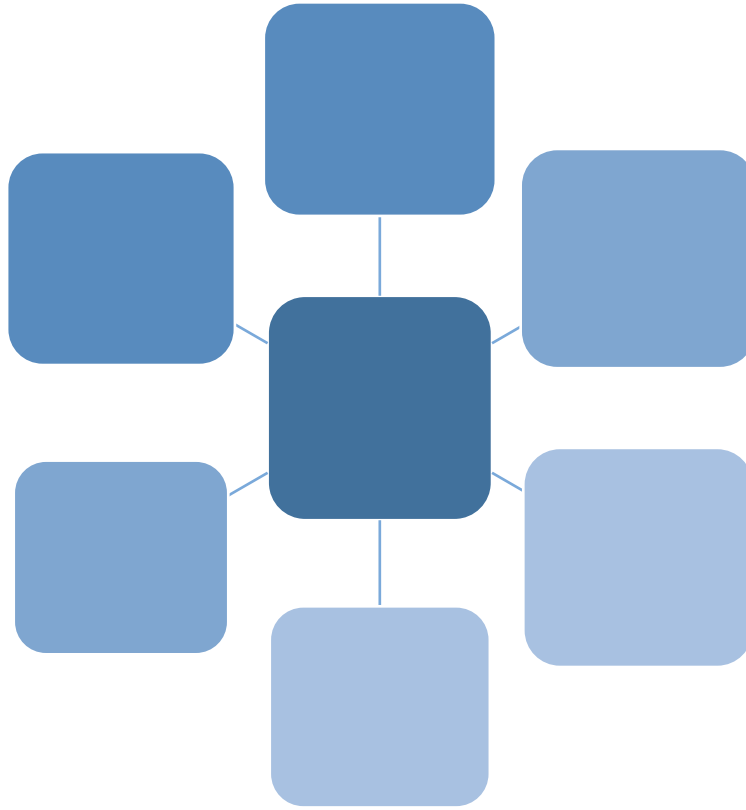
10

PI

- 
- 
- 
- 

" 100 "

- " " " "
- " " " " " "
- " " " " " NICE- "
- " " "
- " " "



KPI



2024

598

482  
BOPP  
14

38

326  
69

6  
47

132  
63  
2

75

36

9

15

2025

GB/T 29490-2023

## 4.6

2024

SRM

SRM

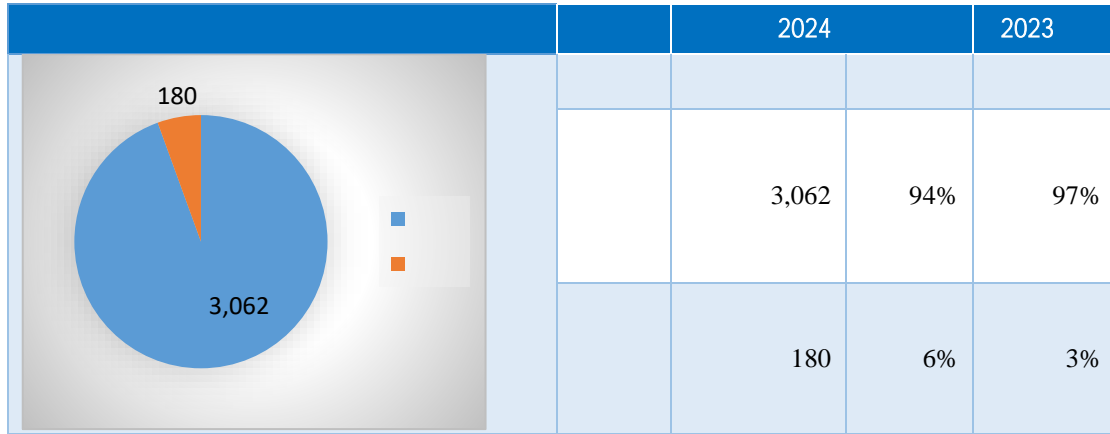
ISO 9001

RoHS

A	
B	
C	
D	
	/
	/

ISO 14001    ISO 45001

		2024			
	24	10	14	29	17
					12
2024			3,242	355	300
	2,587		99		
			2024		
		94%	2023	97%	



ESG

ESG

ESG

H.R.4173

" " " (Co) " "

(Au) (Ta) (W) (Sn) " " "

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**17** —

1		2.7
2		2.1
3		2.5
4		2.6
5		2.2
6		

**GRI**

GRI			
GRI 1			
1	2021	GRI	GRI
GRI 2		2021	

2-1

2-24		
2-25		
2-26		
2-27		
2-28		
2-29		
2-30		
GRI 3                    2021		
3-1		
3-2		
3-3		
GRI 201                2016		
201-1		2024
201-2		
201-3		
201-4		
GRI 202                2016		
202-1		
202-2		
GRI203                2016		

207-3		
207-4		
<b>GRI301</b>	<b>2016</b>	
301-1		
301-2		
301-3		
<b>GRI 302</b>	<b>2016</b>	
302-1		
302-2		
302-3		
302-4		
302-5		
<b>GRI 303</b>	<b>2018</b>	
303-1		
303-2		
303-3		
303-4		
303-5		
<b>GRI 304</b>	<b>2016</b>	
304-1		
304-2		
304-3		
304-4		(IUCN)
<b>GRI 305</b>	<b>2016</b>	
305-1		1
305-2		2
305-3		3
305-4		
305-5		
305-6		ODS
305-7		NOX
	SOX	
<b>GRI 306</b>	<b>2020</b>	
306-1		

306-2		
306-3		
306-4		
306-5		
<b>GRI 308</b>	<b>2016</b>	
308-1		
308-2		
<b>GRI 401</b>	<b>2016</b>	
401-1		
401-2		
401-3		
<b>GRI 402</b>	<b>2016</b>	
402-1		
<b>GRI 403</b>	<b>2018</b>	
403-1		
403-2		
403-3		
403-4		
403-5		
403-6		
403-7		
403-8		
403-9		
403-10		
<b>GRI 404</b>	<b>2016</b>	
404-1		
404-2		
404-3		
<b>GRI 405</b>	<b>2016</b>	
405-1		
405-2		
<b>GRI 406</b>	<b>2016</b>	
406-1		
<b>GRI 407</b>	<b>2016</b>	

407-1			
GRI 408	2016		

408-



## 独立审验声明

### 介绍

莱茵技术(上海)有限公司(莱茵)是德国莱茵TUV集团成员之一(简称“莱茵”或“我们”)受委托为恩捷新材料股份有限公司(简称“恩捷股份”或“公司”)的委托针对恩捷股份2024年环境、社会及公司治理(ESG)报告(简称“ESG 报告”)做独立第三方审验。报告披露恩捷股份在 2024 财年内(2024 年 1 月 1 日至 2024 年 12 月 31 日)的可持续发展信息。

### 职责

恩捷股份的职员不仅负责 ESG 报告的准备以及符合适用报告准则的可持续发展信息收集与提报,而且有义务核实和维护有效的信息和数据的内控以支持其报告编制流程。

TUV 莱茵是一家世界性的服务供应商,在超过 65 个国家提供企业社会责任和可持续发展服务,并拥有在环境、企业社会责任、可持续发展和利益相关方参与等领域具有丰富的审核和验证经验与专业技术能力的资深专家。莱茵审验团队遵循 TUV 莱茵全球商业道德合规政策和程序,涵盖诚信合规和利益冲突原则。因此,我们的审验服务遵循独立性和公正性原则,并不参与恩捷股份的报告编制和发布。我们的职责是依据审验协议以及约定的审验工作范围执行独立审验工作,并对 ESG 报告做出独立和公正的判断。

### 审验标准

TUV 莱茵依据 AccountAbility AA1000 审验标准 v3 (AA1000AS v3), 针对恩捷股份 ESG 报告披露的可持续发展信息按类型 1 和中度等级进行审验。

### 审验目的

审验旨在为恩捷股份管理层和关注公司可持续发展信息与绩效的利益相关方提供独立的审验结果。具体包括:评估报告内容是否遵循 AA1000AP (2018) 审验原则(包括包容性、实质性、回应性和影响性),以及对可持续发展信息披露进行验证。

### 审验准则

下列评估准则用于审验工作:

- 《深圳证券交易所上市公司自律监管指引第 3 号——可持续发展报告(试行)》
- 《深圳证券交易所上市公司自律监管指南第 3 号——可持续发展报告编制》
- 中国社会科学院《中国企业可持续发展报告指南(CASS-ESG 6.0)之一般框架》
- 全球报告倡议组织《可持续发展报告标准》(简称“GRI 标准”)
- 联合国可持续发展目标(Sustainable Development Goals, SDGs)
- 遵循 AA1000 AP 审验原则,即,包容性、实质性、回应性和影响性

### 审验方法

我们的审验活动和程序包括:

- 询问管理层和负责可持续发展的相关人员



- 基于抽样原则，审查和评估绩效信息的可用性，充分性以及与实际的相关性。
- 应用分析程序评估可用绩效数据的信息准确性。
- 收集并检查可验证数据。



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0877-888677

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- 3.
- 4.
- 5.