

股票简称：普利特

股票代码：002324



普利特

上海普利特复合材料股份有限公司

Shanghai Pret Composites Co., Ltd.

(上海市青浦区赵巷镇沪青平公路1555弄2号101室)

2023年年度报告全文及摘要

(申报稿)

发行人(盖章)

华通证券股份有限公司
HUITONG SECURITIES CO., LTD.

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“ 2GWh ”
“ 12GWh ” “ 6GWh ”

与

“ 12GWh ” “ 6GWh ” “ 2GWh ”
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2020	2021	2022	1-9	81,690.87
185,334.36		172,916.53		424.05
				10,413.35

12,269.59

	2020	2021	2022	1-9	
	16.09%	17.99%			20.78%

	2020	2021	2022	9	
	51,349.86	58,261.34	60,711.40		25.97%
	19.95%	18.59%			

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487,077.50	428,105.20	359,996.66	444,754.21
2,100.42	15,870.14	16,404.60	39,810.56

ICT

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127,319.57

135,553.92

155,054.74

245,747.95

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GWh		KWh 1GWh=1,000,000KWh
		4- -1- - 1- 1- 1- 1-
PP		Polypropylene
		PA PC PET PBT HIPS ASA
ABS		- - Acrylonitrile-butadiene-styrene

Polyamide

PA

	SHANGHAI PRET COMPOSITES CO., LTD.
	913100006316131618
	101,743.1917
	1999 10 28
	2007 7 23
	2009 12 18
	2855 1 12
	558
	002324
	201703
	201707
	021-69210096
	www.pret.com.cn
	dsh@pret.com.cn
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2022 9 30

1,014,062,317

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343,485,436

2022 9 30

			%
1		446,987,270	44.08
2		44,006,976	4.34
3	-	30,503,116	3.01
4	- LOF	28,175,678	2.78
5		179,169,96	1.77
6	-	16,225,777	1.60
7		12,378,166	1.22
8		11,090,000	1.09
9	2	8,388,791	0.83
10		6,444,940	0.64
		604,200,714	61.36

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44.08%

1965 3

31011019650306xxxx

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2012
GB/T4754-2017

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PEGF#7dW.yfQUC2xJOEGF#7dW.yfQUC2xJI

2021 3		" "	
2020 3		" 0 1"	
2019 11			PPS PESEKK
2019 8		2019	

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2018-2020

2019 8

2019 188

2

2018 11

2018

2021 3 " "

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2020

2.93 3.9% 5.4

20%

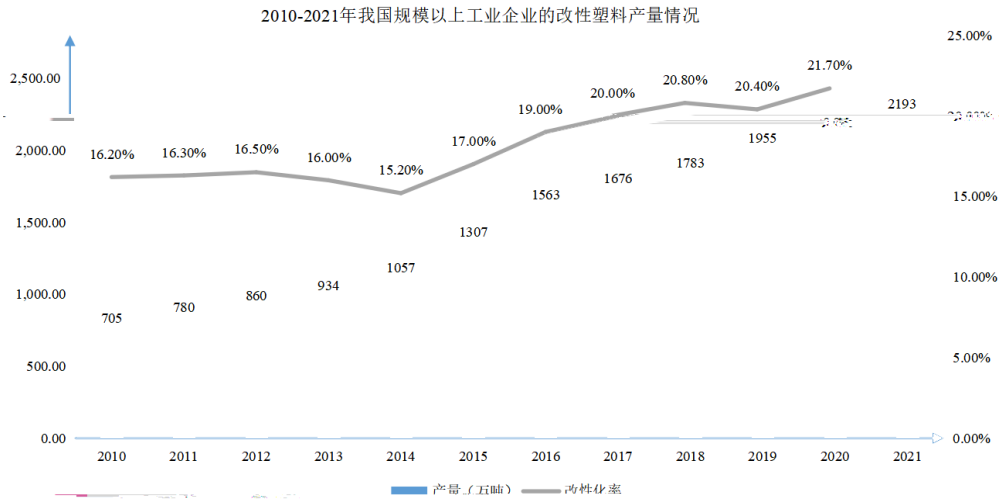
7,717 2020 8,000 0.9% 2016

5 2021

2,193 6.2%

5G

705 2021 2,193 2010
 16.2% 2020 21.70% 2022
 2,281



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Transparency Market Research 2012 3,910

2020 10,000 12.45%

2026 13,000

2016 7,717 2020 8,000 0.9%

2016 1,563 2020 2,250

9.5%

20% 2024

30%

2

50%

1

55%-60%

PP ABS

PC PA

180-250kg

100-150kg

2020

19%

2015

352

2020

431

2026

598

2

LCP

I LCP

LCP

LCP

LCP
5G 5G
80%
2020 LCP 8
3 Zion Market Research 2023 LCP
14.5 2016-2023 6.2% Mordor Intelligence
2020-2025 LCP 4.5%
5 LCP 6% 2026
LCP 4.3
3

2015 360
2020 765 2020
34%

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SABIC

LCP

LCP

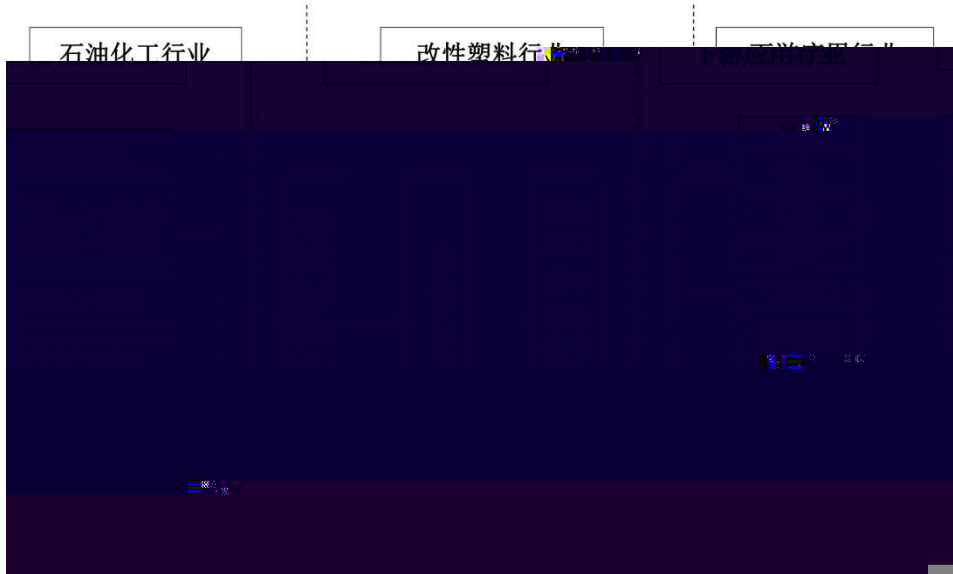
2021

LCP

1			2.20	27%
2			1.50	18%
3			1.0	12%
4			0.80	10%
5			0.60	7%
6			0.47	6%
7			0.40	5%
8			0.40	5%
9			0.25	3%
10			0.25	3%
11			0.22	3%
12			0.10	1%
			8.19	100%
			6.07	74%
			2.12	26%

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5G



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2	Basell		L1YB34	Basell
3	SABIC		SAB	SABIC ABS ASA EVA PA6 PBT PC POM /
4	BASF		BASFY	BASF
5	Dupont		DD	Dupont 70
6			600143	7
7			002768	
8			002838	TPV TPO TPE-S TPSIV NBR/PP TPV TPU TPIIR HNBR PP ABS/PC PA
9			688219	

2020

12%

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80%

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ICT

2022 8 5

79.7883%

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PA

PC/ABS

ABS

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LCP LCP

LCP

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79.7883%

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2		ABS			
3		PC/ABS			
		PA			
		- LCP		5G	
		- LCP			

PP

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2022 8 5

79.7883%

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		2022 1-9	2021	2020	2019
		3,093.75	-	-	-
		2,788.11	-	-	-
		4,030.99	-	-	-
		90.12%	-	-	-
		128.65%	-	-	-

2022 8 5

79.7883%

2022 9

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	2022 1-9		2021		2020		2019	
PP	108,511.85	28.90%	135,111.91	32.33%	145,473.13	46.23%	111,732.79	40.17%
ABS	45,258.28	12.06%	64,105.07	15.34%	36,926.37	11.74%	37,522.87	13.49%
PC	31,319.30	8.34%	47,197.44	11.29%	21,878.69	6.95%	21,038.11	7.56%
	32,601.58	8.68%	29,031.59	6.95%	12,529.17	3.98%	13,489.28	4.85%
	26,525.19	7.07%	20,891.37	5.00%	15,444.22	4.91%	12,911.78	4.64%
	18,534.23	4.94%	15,623.48	3.74%	11,007.01	3.50%	12,343.10	4.44%
	9,921.18	2.64%	12,836.60	3.07%	9,139.28	2.90%	8,560.56	3.08%
	4,131.22	1.10%	-	-	-	-	-	-
	3,387.07	0.90%	-	-	-	-	-	-
	95,241.15	25.37%	93,103.71	22.28%	62,262.77	19.79%	60,544.97	21.77%
	375,431.04	100.00%	417,901.17	100.00%	314,660.64	100.00%	278,143.47	100.00%

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79.7883%

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	2022 1-9			2021			2020			2019		
	13,246.20	9,161.62	0.69	16,202.10	9,129.02	0.56	14,908.75	8,862.75	0.59	14,685.93	8,521.30	0.58

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	2022 9 30		2021 12 31		2020 12 31		2019 12 31	
	84,732.55	52.50%	55,045.42	73.43%	62,216.03	71.49%	61,186.54	73.97%
	75,677.16	46.89%	19,027.06	25.38%	23,871.61	27.43%	20,741.07	25.08%
	708.48	0.44%	691.13	0.92%	656.03	0.75%	403.90	0.49%
	278.11	0.17%	203.50	0.27%	280.86	0.32%	374.98	0.45%
	-	-	-	-	-	-	8.32	0.01%
	161,396.30	100.00%	74,967.11	100.00%	87,024.52	100.00%	82,714.81	100.00%

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1,000

	5	2,172.29	997.46	45.92%
	9	1,858.11	1,530.36	82.36%
	44	3,006.83	1,113.50	37.03%
	41	10,633.11	4,081.69	38.39%
	14	1,265.84	651.45	51.46%
	4	1,176.71	482.47	41.00%
	20	1,803.65	555.59	30.80%
	53	2,116.65	929.54	43.92%
	20	1,690.32	813.66	48.14%
	19	1,344.11	197.11	14.66%

	229	27,067.62	11,352.86	41.94%

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		558 7				
11		558 6	00741173		2,294.08	
12		558 5	00741172		2,259.54	
13		558 12-13	00775978		152.36	
14		18	2017 000334912		15,378.86	
15		18	2017 000335036		4,967.80	
16		18	2017 000328779		4,944.36	
17		18	2017 000335083		4,351.00	
18		18	2017 000328182		4,101.76	
19		18	2017 000328236		4,101.76	
20		18	2017 000328078		3,460.94	
21		18	2017 000328359		3,460.94	
22		18	2017 000328685		2,396.62	
23		18	2017 000328308		1,912.36	
24		18	2017 000328623		146.80	
25		18	2017 000328408		130.41	
26		18	2017 000328451		68.35	
27		18	2017 000326925		56.78	
28		18	2017 000326779		31.97	
					254,276.56	-

						Vacant
20	00432-05-258		Hickory Hill	0.39		Residential Vacant
21	00432-05-253		Hickory Hill Lot 19-A	0.38		Residential Vacant
22	00432-05-251		Hickory Hill Lot 21-A	0.37		Residential Vacant
23	00432-05-252		Hickory Hill Lot 20-A	0.35		Residential Vacant
24	00432-05-266		Hickory Hill Lot 6-A	0.35		Residential Vacant
25	00432-05-265		Hickory Hill Lot 7-A	0.35		Residential Vacant
26	00432-05-249		Hickory Hill Lot 10-I	0.34		Residential Vacant
27	00432-05-250		Hickory Hill Lot 11-I	0.34		Residential Vacant
28	00432-05-241		Hickory Hill Lot 2-I	0.31		Residential Vacant
29	00432-05-242		Hickory Hill Lot 3-I	0.29		Residential Vacant
				1,049.08		-

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1			71		239.00	2022 2023 2024 13.75 14.09 14.44	2022.01.01- 2024.12.31
2			26		6,420.00	2021.02.01-2023.01.3 1 14.39 / 2023.02.01-2025.01.3 1 15.83 /	2021.02.01- 2025.01.31
					6,659.00	-	-

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79.7883%

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1	Rbylafay, LLC	D.C. Foam Recycle Incorporated	7441 Worthington Galena Road, Columbus, Ohio, 43085	Storage and supplementary office	14,500.00	2019.10.15-2019.11.14	-
						2019.11.15-2020.11.14	6,365.63
						2020.11.15-2021.11.14	6,556.59
						2021.11.15-2022.11.14	6,753.29
						2022.11.15-2023.11.15	6,955.88
						2023.11.15-2024.11.14	7,164.56
2	Duke Realty of Indiana Limited Partnership	D.C. Foam Recycle Incorporated	2900 Perimeter Park Dr., Suite 500, Morrisville, NC	Storage and supplementary office	12,528.00	2022.01.01-2022.12.31	8,456.40
						2023.01.01-2023.12.31	8,710.09
						2024.01.01-2024.12.31	8,971.39
						2025.01.01-2025.12.31	9,240.54
						2026.01.01-2026.12.31	9,517.75
3	Rolling Fullerton Phase IV, LLC	D.C. Foam Recycle Incorporated	7715-G-H Fullerton Rd. Springfield, VA 22153	Storage and supplementary office	12,500.00	2018.02.01-2019.01.31	10,342.15
						2019.02.01-2020.01.31	10,574.29
						2020.02.01-2021.01.31	10,813.39
						2021.02.01-2022.01.31	11,021.72
						2022.02.01-2023.01.31	11,269.00
						2023.02.01-2024.01.31	11,521.66
4	Cix Cofe Grant Street, LLC	D.C. Foam Recycle Incorporated	553 W. Grant Street, Orlando, FL 32805	Storage and supplementary office	12,486.00	2021.01.01-2021.12.31	6,763.25
						2022.01.01-2022.12.31	6,966.15
						2023.01.01-2023.12.31	7,175.13
5	EastGroup Properties, L.P.	D.C. Foam Recycle Incorporated	6118 Jetport Industrial boulevard, Tampa FL 33634 & 6121-6126 Jetport Industrial Boulevard, Tampa, FL 3634	Storage and supplementary office	10,852.00	2019.03.15-2019.04.14	-
						2019.04.15-2020.03.31	5,878.17
						2020.04.01-2021.03.31	6,059.03
						2021.04.01-2022.03.31	6,240.80

							/
						2022.04.01-2022.04.30	6,249.81
						2022.05.01-2023.04.30	7,686.84
6	SELIG Enterprises, Inc		3800 OakCliff Road, Doraville, Georgia 30340	Storage and supplementary office	10,256.00	2020.05.31-2021.05.31	4,700.67
						2021.06.01-2022.05.31	4,841.69
						2022.06.01-2023.06.30	4,986.94
						2023.07.01-2026.06.30	Market Rate
7	Merritt-058, LLC		3761 Commerce Drive, Baltimore MD 21227	Storage and supplementary office	9,000.00	2019.01.01-2019.12.31	6,435.00
						2020.01.01-2020.12.31	6,630.00
						2021.01.01-2021.12.31	6,832.50
						2022.01.01-2022.12.31	7,035.00
						2023.01.01-2023.12.31	7,245.00
						2024.01.01-2024.12.31	7,462.50
8	St. Louis Properties II, LLC		11625 Fairgrove Industrial Boulevard, Maryland Heights, MO 63043	Storage and supplementary office	7,123.00	2016.09.12-2019.09.30	2,592.75
						2019.09.30-2021.09.30	2,736.79
						2021.10.01-2022.09.30	3,025.00
						2022.10.01-2023.09.30	3,170.00
9	Delk Industrial I, LLC		1935 Delk Industrial Boulevard, Marietta, GA	Storage and supplementary office	5,509.00	2020.01.01-2020.12.31	3,466.08
						2021.01.01-2021.12.31	3,570.06
						2022.01.01-2022.12.31	3,677.16
10	EA&S Investments #2-850, LLC	PRET Advanced Materials LLC	Suite 111 850 Stephenson Highway Troy, MI48083	Office	3,120.00	2020.12.01-2021.11.30	3,705.00
						2021.12.01-2022.11.30	3,835.00
						2022.12.01-2023.11.30	3,965.00
11	Henderson Ashland Carpenters Associates LLC	D.C. Foam Recycle Incorporated	701 B Ashland Ave, Bays 2-3, Folcroft West Business Park, Folcroft, PA 19032	Storage and supplementary office	1,200.00	2017.10.01-2018.09.30	7,210.00
						2018.10.01-2019.09.30	7,410.00
						2019.10.01-2020.09.30	7,610.00
						2021.01.01-2021.12.31	7,900.00
						2022.01.01-2022.12.31	8,000.00


						2.12.31	/
						2023.01.01-2023.12.31	8,250.00
						2024.01.01-2024.12.31	8,500.00
						2025.01.01-2025.12.31	8,750.00
12	MCAJ, LLC		3508 Criollo Drive, Virginia Beach, VA 23453	Storage and supplementary office	1,000.00	2021.03.01-2023.02.28	3,500.00
13	Dynamo Properties, LLC		150 N. Railroad Ave, Northlake IL, Unit 1	Storage and supplementary office	1,000.00	2017.07.01-2019.06.30	6,001.78
						2019.07.01-2020.06.30	6,250.00
						2021.07.01-2022.06.30	6,490.00
						2022.07.01-2024.06.30	6,850.00
14	3811 University Owner, LLC		Unit 17-19, 3811 University Blvd West, Jacksonville, Florida	Storage and supplementary office	8,000.00	2021.12.01-2023.11.30	5,756.66
					109,074.00	-	-

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1	莱丝创		62137946		2022.07.14
2	利科创		62124057		2022.07.14
3	莱科创	22	62125362		2022.07.14
4			62125385		2022.07.14
5	利丝创		62126552		2022.07.14

6	Licrytran		62121125		2022.07.07
7			62137919		2022.07.07
8			60274489		2022.04.21
8		23	62123689		2022.07.14
10			62137996		2022.07.14
11			62138065		2022.07.14
12			62124133		2022.07.07
13			62127010		2022.07.07
14			60287325		2022.04.21
15			1	54107055	
16		54116004			2021.09.28
17		54122627			2021.09.28
18		54117485			2021.09.28
19		37983434			2020.11.28
20		7619449			2020.11.21
21		7619447			2020.11.21
22		7619445			2020.11.21
23		7619444		2020.11.14	
24		7619443		2020.11.14	
25		37988062		2020.10.14	
26		6393784		2020.03.28	
27		4781814		2018.12.21	
28		4781813		2018.12.21	
29		3022867		2013.02.21	
30		7	54107048		2021.10.21
31			54125730		2021.09.28
32		9	54122562		2021.09.28
33			54122635		2021.09.28
34		12	36047378		2019.12.21

35			4781812		2018.06.07
36		17	54112870		2022.09.22
37			54421865		2021.11.07
38			54122604		2021.10.14
39			54130371		2021.09.28
40		35	54107042		2021.10.14
41			54107036		2021.10.07
42			54129167		2021.09.28
43			54122651		2021.09.28

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1		1	5154875		2027.03.06
2			01514715		2032.04.30
3			1471444		2026.07.18
4			789832		2030.12.02
5			903126818		2024.11.18
6			5672609		2029.02.12
7			017568882		2028.05.15

8	Expond 翼鹏		017568783		2028.05.15
9	Xepont 赛邦		017568891		2028.05.15
10	Retom 睿镀		017568866		2028.05.15
11	Heulon 浩纶		017568809		2028.05.10
12	Expond 翼鹏		TMA1,057,698		2029.10.06
13	Retom 睿镀		TMA1,057,708		2029.10.06
14	Techyer 特锐		TMA1,057,717		2029.10.06
15	Xepont 赛邦		TMA1,057,701		2029.10.06
16	Heulon 浩纶		5874931		2029.10.01
17	Retom 睿镀		5874932		2029.10.01
18	Techyer 特锐		5874933		2029.10.01
19	Xepont 赛邦		5874934		2029.10.01
20			5874959		2029.10.01
21	Techyer 特锐		1911260		2028.05.14
22	Xepont 赛邦		1921962		2028.05.14
23	Heulon 浩纶		TMA1,061,648		2029.11.03
24	Heulon 浩纶		1911259		2028.05.14
25			017949475		2029.01.08
26	WELLAMID		0814764	PRET ADVANCED MATERIALS, LLC	2026.09.07

PRET ADVANCED MATERIALS, LLC

East West Bank

East West Bank

WPR

2022 8 5

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1			ZL201511019959.0	2015.12.30
2			ZL201511019983.4	2015.12.30
3			ZL201511020018.9	2015.12.30
4			ZL201511020452.7	2015.12.30
5			ZL201511021078.2	2015.12.30
6			ZL 201511019885.0	2015.12.30
7			ZL201210568626.3	2012.12.24
8			ZL201210568629.7	2012.12.24
9	ABS		ZL201210568666.8	2012.12.24
10			ZL201210568667.2	2012.12.24
11			ZL201210548915.7	2012.12.17
12			ZL201210549249.9	2012.12.17
13			ZL201210550324.3	2012.12.17
14		6	ZL201210529303.3	2012.12.10
15			ZL201210529406.X	2012.12.10
16			ZL201110406958.7	2011.12.08
17	ABS		ZL201110442128.X	2011.12.26
18	PC/ASA/PBT		ZL201110442130.7	2011.12.26
19			ZL201110443062.6	2011.12.26

22	ABS		ZL201110433779.2		2011.12.21
23			ZL201110433780.5		2011.12.21
24			ZL201110434148.2		2011.12.21
25			ZL201110434150.X		2011.12.21
26	/ - -		ZL201010610507.0		2010.12.29
27			ZL201010610516.X		2010.12.29
28			ZL201010610576.1		2010.12.29
29	ABS		ZL201010611626.8		2010.12.29
30			ZL201010611631.9		2010.12.29
31			ZL201010609131.1		2010.12.28
32			ZL201010602051.3		2010.12.23
33			ZL201010602052.8		2010.12.23
34	PA66		ZL201010591293.7		2010.12.16
35	PBT		ZL201010591398.2		2010.12.16
36			ZL201010591409.7		2010.12.16
37			ZL201010591416.7		2010.12.16

38

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42

63			ZL201310743228.5		2013.12.30
64			ZL201310740894.3		2013.12.28
65	PC/ABS		ZL201310740896.2		2013.12.28
66			ZL201310738101.4		2013.12.28
67	3D		ZL201310738303.9		2013.12.28
68	UL94-5VA PC/ABS		ZL201310743041.5		2013.12.28
69			ZL201310694300.X		2013.12.17
70	PC/ABS		ZL 201310694314.1		2013.12.17
71	6		ZL201310694324.5		2013.12.17
72			ZL201310694355.0		2013.12.17
73			ZL201310697395.0		2013.12.17
74			ZL200910194553.4		2009.08.25
75	PC/ABS		ZL200910198008.2		2009.10.30
76	PC/ABS		ZL200910198009.7		2009.10.30
77			ZL200910198012.9		2009.10.30
78	6		ZL200810041002.X		2008.07.25
79	PA66		ZL200810038317.9		2008.05.30
80			ZL200810207906.5		2008.12.26
81			ZL200810207907.X		2008.12.26
82	ABS		ZL200810207584.4		2008.12.23

83	PC/ABS		ZL200810207585.9	2008.12.23
84			ZL200810207590.X	2008.12.23
85	PC/ASA		ZL200810207591.4	2008.12.23
86			ZL200810207592.9	2008.12.23
87	PC/ABS		ZL200810203120.6	2008.11.21
88	PA66		ZL200810203121.0	2008.11.21
89			ZL200810203122.5	2008.11.21
90			ZL200810203123.X	2008.11.21
91	ABS		ZL200810203124.4	2008.11.21
92	PC/ABS		ZL200810203125.9	2008.11.21
93			ZL200810203128.2	2008.11.21

94

104			ZL200710172919.9		2007.12.25

105



124			ZL200510111763.4		2005.12.21
125	PBT		ZL200410017803.4		2004.04.15
126		PBT	ZL200410017804.9		2004.04.15
127		PBT	ZL200410017805.3		2004.04.15
128		PBT	ZL200410017806.8		2004.04.15
129			ZL200410017807.2		2004.04.15
130			ZL200410084708.6		2004.11.30
131			ZL03142021.4		2003.08.01
132			ZL02136249.1		2002.07.29
133			ZL02136250.5		2002.07.29
134			ZL201410194507.5		2014.05.09
135			ZL201310502501.5		2013.10.23
136			ZL200810204823.0		2008.12.30
137			ZL200410054024.1		2004.08.26
138			ZL 200410054025.6		2004.08.26
139			ZL03150765.4		2003.09.04
140		ABS	ZL201911376817.8		2019.12.27
141			ZL201911334807.8		2019.12.23
142		PA66	ZL201611242238.0		2016.12.29

143			ZL201511020597.7		2015.12.30
144	/		ZL200910200857.7		2009.12.25
145			ZL200810207587.8		2008.12.23
146			ZL201811635055.4		2018.12.29
147	PC/ABS		ZL201811635125.6		2018.12.29
148			ZL201811652792.5		2018.12.28
149	VOC		ZL201711447886.4		2017.12.27
150	ABS		ZL201711434301.5		2017.12.26
151			ZL201610961944.4		2016.11.4
152	PC/ABS		ZL03142022.2		2003.08.01
153	PC/ABS		ZL201811591075.6		2018.12.25
154			ZL202110256697.9		2021.03.09
155			ZL202011288796.7		2020.11.17
156			ZL201911411074.3		2019.12.31
157			ZL201911411091.7		2019.12.31
158	PC/ABS		ZL201911342329.5		2019.12.23

159			ZL201911333547.2		2019.12.23
160			ZL201911292498.2		2019.12.12
161	ABS/PBT		ZL201911192422.2		2019.11.28
162	/PET		ZL201911106879.7		2019.11.13
163			ZL201811635152.3		2018.12.29
164			ZL202123242233.7		2021.12.22
165			ZL202123145678.3		2021.12.15
166			ZL202123132994.7		2021.12.14
167			ZL201720693491.1		2017.06.15
168			ZL201720693492.6		2017.06.15
169			ZL201821084485.7		2018.07.10
170			ZL201822253195.7		2018.12.29
171			ZL201922330178.3		2019.12.23
172			ZL201922337477.X		2019.12.23
173			ZL202011426268.3		2020.12.09

174			ZL202011469074.1		2020.12.15
175			ZL202120890305.X		2021.04.23
176			ZL202123407742.0		2021.12.30

2022 8 5

79.7883%

"

"

1		Carpet recycling method	US6752336B1	PRET Advanced Materials, LLC	2004.06.22
2		Methods of recycling post-consumer carpet	US7784719B1		2010.08.31

East West Bank

East West Bank

WPR

3

2022 9 30

1		2010SR074409		2009.10.01	2010.10.01

2022 8 5

79.7883%

2022 9 30

1	2015 1043137		21,162.90			2061 24	1	
2	2011 004761		19,999.97			2054 17	2	558
3	2015 1043146		78,889.60			2061 24	1	
4	2013 013139		68,271.60			2060 6	12	230
5	2021 0078060		104,616.00			2066 24	8	138
6	2017 000326779		86,395.10			2062 9	4	18
7	2017 000326925					2062 9	4	18
8	2017 000328078					2062 9	4	18
9	2017 000328182					2062 9	4	18
10	2017 000328236					2062 9	4	18
11	2017 000328308					2062 9	4	18
12	2017 000328359					2062 9	4	18
13	2017 000328408					2062 9	4	18
14	2017					2062 9	4	

	000328451						18	
15	2017 000328623					2062 4 9	18	
16	2017 000328685					2062 4 9	18	
17	2017 000328779					2062 4 9	18	
18	2017 000334912					2062 4 9	18	
19	2017 000335036					2062 4 9	18	

20

				/	
5				2022 12 24	2025 12 24
6				2018 12 24	2023 12 23
7				2020 12 31	2023 12
8				2022 10 27	2025 10 26
9				2021 4	2024 4
10				2021 12 21	2026 12 20
11				2020 12 31	2023 12
12				2020 07 10	2023 07 09
13				2021 11 12	2024 11 11

2022 8 5

79.7883%

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1				
2				
3				
4				
5				
6				
7				
8	LCP			

9

1

4.5%-5.5%

LCP

2

3

与

18

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1

2

3

4

5

6

7

与

2022 9 30

	2022 9 30
	3,150.00
	58.63
	3,271.60
	253.79
	400.00
	4,208.39
	4,200.00

1

2022 9 30

3,150.00

1	1.2677%	2,150.00
2	1.0526%	1,000.00
		3,150.00

2

2022 9 30

58.63

3

2022 9 30

3,271.60

	2022 9 30
	1,039.69
	605.46
	112.02
	436.43
	1,078.00
	3,271.60

4

2022 9 30

253.79

5

2022 9 30

400.00

700
4,000.00

2022 2 -9

5G

5G

ICT

ICT

2021 1

ICT

ICT

ICT

5G

ICT

ICT

2021 5

2022 4

2 " "

5 " "

3

51% 2021

ICT 41%

10%

7

2022 9 30 4,200.00

2022 9 30 8,022.52

2022 9 30 2.91% 30%

与

2022 4 25 6

6,000.00 2022 9 23

A

2021 10

44,670,982.99

44,670,982.99 , 2021

11 1

LPR

44,670,982.99

2021 10

764.48

2,070

2,834.48

2021

12 31

1,632.62

2022 7 25

2022 9 27

4,467.10

2022 10

2022 8 5

79.7883%

"

"

2022 9 30

2

2022 9 30

3

2022 9 30

1

1		2020190003 7			1 2	10-100	15
2		2020190038				2-20	10
3		0116 2022 72		2021		2-20	3.08
4		2022 0069	1			0.5-5	4.00

5		2020 61			1 2	10-100	12.40
6		[2019]51				1-10	1 2 4.00
7		2019 688				5%-10 %	1 1.35 2 15
8		[2019]33	2		1 2	0-10	1 2 1

9

[2006 11 31.]

10		2020 00039				3-30	1 2 5.00
							56.33

2022 5 26
1 2022 5 25

2019 1

2022 5 26
[2019]33

2019 1

1

2022 5 26
[2021] 09-0176

2019 1 1

2021 5 28

2022 9 20

0116 [2022]72

3.08

2021

5%

2022 10 13

2022 0069

1

4.00

2021

5%

2

2021 12 2

Pret Advanced

Materials, LLC

Pret Advanced Materials, LLC

1 5

2

3

4

Pret Advanced Materials, LLC 8,100.00

2021 12 21 Pret Advanced Materials, LLC

Pret Advanced Materials, LLC

50% 4,050

2022 1 31 Pret Advanced Materials, LLC

Magstone Law, LLP

2022 8 5

79.7883%

"

"

1

" "

1

" "

" " " "

2020 9

2030

2062 535.48 Tm[(2020)

3

ICT

2021

1

2

1

2021

16.5% 2030

2025

1,200GWh

2022 3

2025

2030

GGII 2025

460GWh 2021-2025

60.11% 2030

1,300GWh 2020

16.2GWh

70.5%

2025

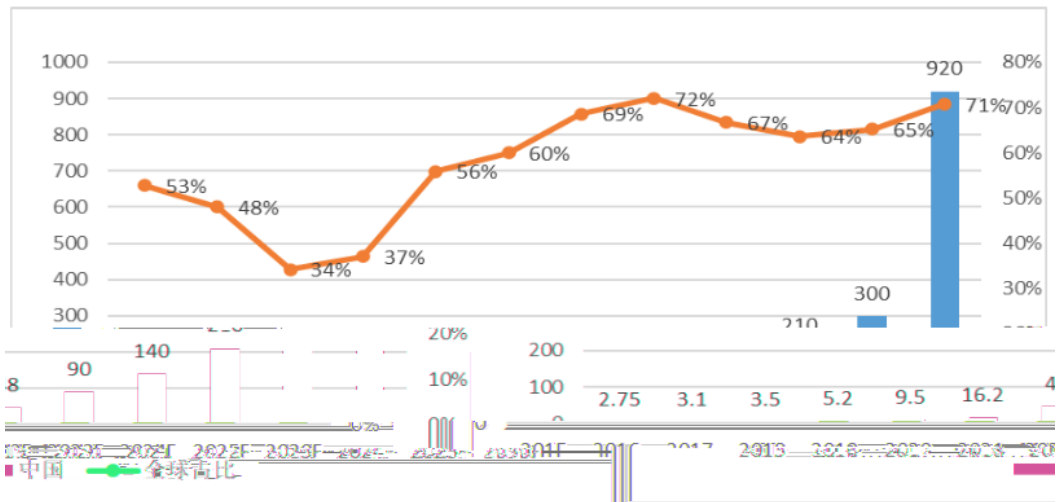
300GWh 2021-2025

58.11%

2030

920GWh

2015-2030 年中国储能电池出货量及预测 (单位:GWh, %)



数据来源: GGII, 2022 年 3 月。

2 5G

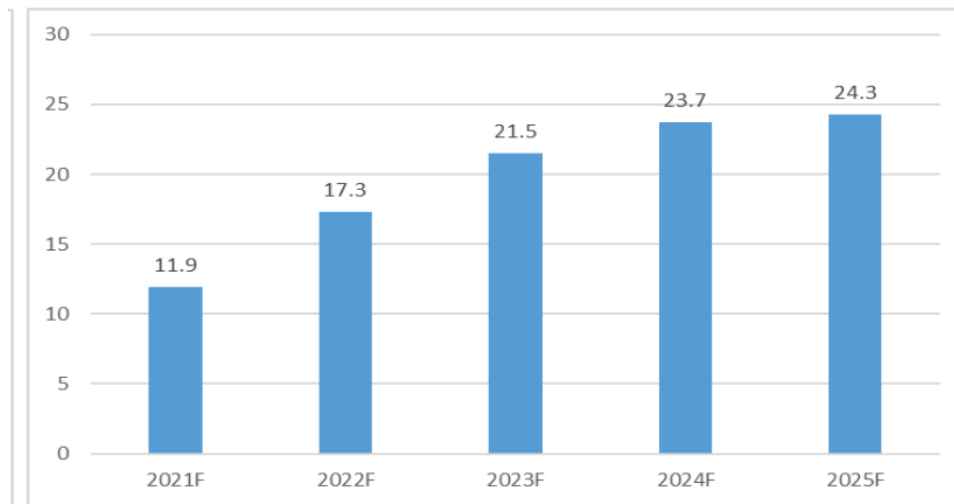
UPS

4G

5G

2020 5G 60 2020
 5G 71.8 4G
 780-930W 5G 2,700W 4h
 5G 10.8kWh 4G 5G 2
 5G
 2021
 5G 85 11.9GWh 2025 5G
 160 24.3GWh

2021-2025年全球5G基站配储容量预测(单位:GWh)



数据来源: 中信证券研究所, 2022年4月。

3

1

2017

2020 139 2025

220 2020 34.8

2025 55

2025 82 5

21%

TTI

			GGII	2021
	22GWh	2026	60GWh	2021
2.7	2021-2026			2020
	5.6GWh			
		22%		
		64.7%		

1

			LCP		LCP
FCCL	FPC	PCB			5G
			"	+	"

2

" "

8		"	2GWh	
	"	"	12GWh	6GWh "

3

4

35 35

A 1.00

35 35

1-1-78

1

$$\frac{20}{A} = \frac{20 \times 80\%}{A} + \frac{20}{20} \times A$$

$$\frac{D}{P1} = \frac{P0}{P1} - \frac{N}{P1}$$

$$/ \quad P1 = P0 - D$$

$$P1 = P0 / (1 + N)$$

$$P1 = (P0 - D) / (1 + N)$$

2

250,000,000

30%

6

189,525.70

1	79.7883%	114,097.30	81,623.00
2	12GWh 6GWh	133,440.89	60,000.00
3	2GWh	50,000.00	20,000.00
4		27,902.70	27,902.70
		325,440.89	189,525.70

A

101,743.1917

43.93%

35.27%

30%

出 八

25%

2022

出

分

189,525.70

1	79.7883%	114,097.30	81,623.00
2	12GWh 6GWh	133,440.89	60,000.00
3	2GWh	50,000.00	20,000.00
4		27,902.70	27,902.70
		325,440.89	189,525.70

2022 8 5

"

79.7883%

"

79.7883%

1	12GWh 6GWh	133,440.89		

79.7883%

1

79.7883%

8

" 2GWh

" " 12GWh

6GWh "

79.7883%

8

87.0392%

2

"

" "

"

3

177,000.00

129,402.63

100%

163,000.00

2

100%

143,000.00

=143,000.00

×79.7883%=114,097.30

4

5

79.7883%

114,097.30

80,000.00

194,097.30

"

12

"

194,097.30

2021

		2021 /	2021 /		
	194,097.30	291,981.40	461,728.91	63.24%	
	-	185,334.36	487,077.50	38.05%	
	194,097.30	94,931.94	260,378.27	74.54%	

6

7

1

2022

2

2022 5 4

6GWh

2

133,440.89

A

	T	T+1	T+2	T+3	T+4	T+5	T+6	T+7	T+8	T+9	T+10
GWh	-	2.40	4.80	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
/GWh	84,017.70	84,017.70	84,017.70	84,017.70							

	T	T+1	T+2	T+3	T+4	T+5	T+6	T+7	T+8	T+9	T+10
	-2,427.56	16,036.28	38,019.72	51,129.23	52,206.97	53,198.61	52,843.32	53,170.26	52,778.55	52,367.25	51,935.39
	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
	-	4,009.07	9,504.93	12,782.31	13,051.74	13,299.65	13,210.83	13,292.56	13,194.64	13,091.81	12,983.85
	-2,427.56	12,027.21	28,514.79	38,346.92	39,155.22	39,898.96	39,632.49	39,877.69	39,583.91	39,275.44	38,951.54
	-	5.96%	7.07%	7.61%	7.77%	7.91%	7.86%	7.91%	7.85%	7.79%	7.73%

4

	2020	2021	2022 1-9	12GWh 6GWh
	7.75%	-0.76%	12.73%	17.79%
	3.25%	1.33%	1.64%	1.73%
	4.52%	2.75%	2.26%	1.67%
	7.50%	4.97%	6.27%	3.50%
	0.52%	5.62%	7.10%	7.55%

2020 2021 2022 1-9

" 12GWh

6GWh "

2020

2020

2021

2022

1-9

2021

2022

1-9

1

100Ah

"

12GWh

6GWh "

1-1-90

280Ah

2

" "

1.5-1.85 /Wh

0.95-1.25 /Wh

2021

Exicom

2021

Exicom

18,671.41

11,006.88

35.54% 20.95%

-0.27% -9.22%

Exicom

Exicom

2019

2020

2021

2020

3

		2021	2020	2019
	/	28.52%	36.03%	37.87%
		29.73%	43.65%	36.72%
		13.77%	24.56%	25.51%
		24.01%	34.75%	33.37%

" 12GWh
 6GWh " 17.79%
 " 12GWh 6GWh "

5

2022 9 29 2022 0025849

6

2022 5
 2022 260 2022 7
 2022 106

2GWh

1

2288 200PPMPatech

1GWh

2

50,000.00

1		8,600.00	-	17.20%
2		31,446.05	20,000.00	62.89%
3		9,953.95	-	19.91%
		50,000.00	20,000.00	100.00%

1		1		700.00	700.00
2	2300L	2		130.00	260.00
3		1		1000.00	1000.00
4		2		1000.00	2000.00
5		1		120.00	120.00
6		1		120.00	120.00
7		1		133.00	133.00
8		1		137.00	137.00
9		2		126.00	252.00
10		2		19.00	38.00
11		2		14.50	29.00
12		10		15.50	155.00
13		4		20.00	80.00
14		18		140.00	2520.00
15	200PPMPatech	52		192.63	10017.00
16	200PPM Xray	2		238.00	476.00
17		1		6100.00	6100.00
18		1		545.00	545.00
19		1		1055.00	1055.00
20		10		80.00	800.00
21		1		800.00	800.00
22		2		60.00	120.00
23		13		62.00	806.00
24		20		13.50	270.00

27	NMP	3		32.00	96.00
28		2		4.40	8.80
29		8		2.00	16.00
30		20		2.00	40.00
31		2		27.00	54.00
32	NMP	1		200.00	200.00
33		1		225.00	225.00
34		1		225.00	225.00
35		1		225.00	225.00
36		1		225.00	225.00
37		1		224.02	224.02
38		3		87.91	263.74
39		2		49.04	98.08
40	1#	1		82.46	82.46
41		1		54.97	54.97
42		1		35.49	35.49
43		1		39.95	39.95
44		1		10.14	10.14
45		1		11.68	11.68
46		1		2.52	2.52
47		1		22.97	22.97
48		9		4.44	40.00
49		6		1.42	8.50
50		1		1.44	1.44
51		12		9.50	

30

4% 10 4%

 13% 7%

 5% 25%

2

 1 2 90% 3 100%

98,960.40 10 97,970.80

10,311.99 16.14%

 7.16

A

	T	T+1	T+2	T+3	T+4	T+5	T+6	T+7	T+8	T+9	T+10
GWh	-	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
/GWh	-	98,960.40	98,960.40	98,960.40	98,960.40	98,960.40	98,960.40	98,960.40	98,960.40	98,960.40	98,960.40
	-	89,064.36	98,960.40	98,960.40	98,960.40	98,960.40	98,960.40	98,960.40	98,960.40	98,960.40	98,960.40

B

	T	T+1	T+2	T+3	T+4	T+5	T+6	T+7	T+8	T+9	T+10
	-	-	381.41	474.07	474.07	474.07	474.07	474.07	474.07	474.07	474.07

C

	T	T+1	T+2	T+3	T+4	T+5	T+6	T+7	T+8	T+9	T+10
	71.42	69,061.92	76,409.66	76,409.66	76,409.66	76,409.66	76,409.66	76,409.66	76,409.66	76,409.66	76,409.66
	-	22.46%	22.79%	22.79%	22.79%	22.79%	22.79%	22.79%	22.79%	22.79%	22.79%
	-	1,335.97	1,484.41	1,484.41	1,484.41	1,484.41	1,484.41	1,484.41	1,484.41	1,484.41	1,484.41
	-	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
	-	2,493.80	2,770.89	2,770.89	2,770.89	2,770.89	2,770.89	2,770.89	2,770.89	2,770.89	2,770.89
	-	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%
	-	3,562.57	3,958.42	3,958.42	3,958.42	3,958.42	3,958.42	3,958.42	3,958.42	3,958.42	3,958.42
	-	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
	71.42	76,454.27	84,623.37	84,623.37	84,623.37	84,623.37	84,623.37	84,623.37	84,623.37	84,623.37	84,623.37

D

	T	T+1	T+2	T+3	T+4	T+5	T+6	T+7	T+8	T+9	T+10
	-71.42	12,610.09	13,955.62	13,862.95	13,862.95	13,862.95	13,862.95	13,862.95	13,862.95	13,862.95	13,862.95
	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
	-	3,134.67	3,488.91	3,465.74	3,465.74	3,465.74	3,465.74	3,465.74	3,465.74	3,465.74	3,465.74
	-71.42	9,475.43	10,466.72	10,397.22	10,397.22	10,397.22	10,397.22	10,397.22	10,397.22	10,397.22	10,397.22
	-	10.64%	10.58%	10.51%	10.51%	10.51%	10.51%	10.51%	10.51%	10.51%	10.51%

4

	2020	2021	2022 1-9	2GWh
	24.32%	22.66%	19.13%	22.75%
	3.25%	1.33%	1.64%	1.50%
	4.52%	2.75%	2.26%	2.80%
	7.50%	4.97%	6.27%	4.00%
	0.52%	5.62%	7.10%	10.53%

2020 2021 2022 1-9

" 2GWh

" 2021 2022 1-9 2020

2020

1-9 2020 2021 2022 2021

10%-20%

22.75%

		2021	2020	2019
		19.02%	26.13%	23.76%
	TOP4	28.23%	23.55%	21.42%
		21.70%	29.53%	29.65%
		14.92%	18.01%	23.57%
		20.97%	24.31%	24.60%

" 2GWh "

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2288

2021

0042717

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2022 1

2022 56

2021 11

2GWh

2021 228

1

27,902.70

14.72%

2

2021

2019 -2021

2021

2022-2024

1

=2024

-2021

-

×

2 2022-2024

	2019	2020	2021		359,996.66
444,754.21		487,077.50	2019	2021	
16.32%				10%	2022
2024			2022	2024	535,785.25
589,363.78		648,300.16			

3 2022-2024

2022 2024
2021



1

		LCP		LCP		FCCL
FPC	PCB			5G		
		"		"		

2

3

" "

		TW/TWh							2050
		4.1TW				500TWh	+		
				GGII		2025			
		460GWh	2021-2025			60.11%			2030
1,300GWh				2021	12				
		1.19GWh/							
2022	2					"	"		
								30%	
						70%-80%			
				"		12GWh			
6GWh	"					GWh			

4

				GGII		2021			
22GWh		2026				60GWh		2021	2.7
		2021-2026			22%			2020	
		5.6GWh			64.7%				

2002

2009

2022 9 30

3.03GWh/

863

2022 9 30

60

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TTI

ITW

Exicom

81,623.00

2022

11 23

79.7883%

2022 7 4

2022

2022 8 5

	2022	3 11		2,000.00
/	2022	4 25		/
	2022	8 8		18,000.00
	2022	8 23		61,074.30
	2022	12 31	2022	23,056.80
	2023	6 30	2023	9,966.20
				114,097.30

12GWh

6GWh

18

		T				T+1			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1									
2									
3									
4									

		T	T+1	
1		24,651.28	9,300.51	33,951.79
2		51,100.00	21,900.00	73,000.00
3		1,600.00	-	1,600.00
4		-	24,889.10	24,889.10
		77,351.28	56,089.61	133,440.89

2022 4 25

2GWh

12

		T			
		Q1	Q2	Q3	Q4
1					
2					
3					
4					

		T	T+1	
1		8,600.00	-	8,600.00
2		31,446.05	-	31,446.05
3		-	9,953.95	9,953.95
		40,046.05	9,953.95	50,000.00

2022 4 25

10,041.04

39,958.96

22,398.58

,

与

与

" 79.7883%

" " 12GWh

6GWh " " 2GWh

" " "

" 12GWh

6GWh " " 2GWh

"

ABS PC/ABS " " PP
 " " 79.7883% "
 " 12GWh "
 6GWh "
 2Gwh "

与

" 79.7883% " "
 12GWh 6GWh " " 2Gwh
 " " "

189,525.70 " 79.7883%
 " "
 107,902.70
 56.93%

" 12GWh 6GWh "
 " 2Gwh "

2019 2022 3

" "

			2021	2022	1-9
	18.53	17.29	1.04	1.23	
	"	"			

与

	" 79.7883% "	" 12GWh 6GWh "	" 2Gwh "	" "
1				
2				
3				
4 /				
5				
6				

5G

79.7883% "

2022 8 5

79.7883% "

" 12GWh

6GWh "

" 2Gwh

"

2

1

"

79.7883%

"

2019

2022 3

"

"

2

" "

4

2019-2021

36.00

44.48

48.71

1.65

3.96

0.24

2021

1

2021 18.53 1.04 2022 1-9 17.29
30.90% 1.23 42.19%

2022 8 5 79.7883%

3 " 79.7883% "

1

2022 8 5 " 79.7883% "

" 79.7883% "

2

79.7883%

2022 9 30

44.08%

4

2021

18.53 1.04

2022 1-9

17.29

30.90%

12,269.59

42.19%

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"

"

[2017]926

23.53

849,978

20,000,000.00

2,591,698.11

17,408,301.89

2017 11 23

[2017] ZA16392

2

2022 9 30

			800009597481	
			800010884114	

1

1,740.83						1,744.44				
						1,744.44				
						2018		1,744.44		
1			1,740.83	1,740.83	1,744.44	1,740.83	1,740.83	1,744.44	3.61	2018 11

1,744.44

1,740.83

3.61

2

3

4

5

			2019	2020	2021	2022		
						1-9		

2023 01591

2022 9 30

18 "

2022 4 25

2017

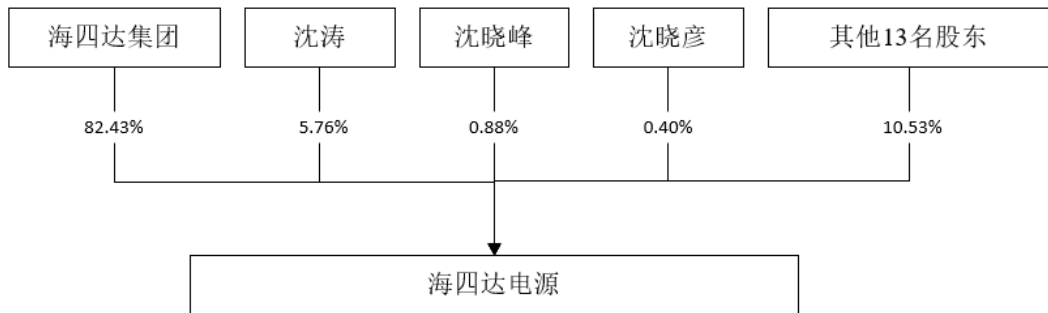
2017 11 23

18

18

	306
	306
	28,346
	91320600608386159C
	1994 10 28

2022 6



"

"

89.48%

1

	32062619461026****
	306

2

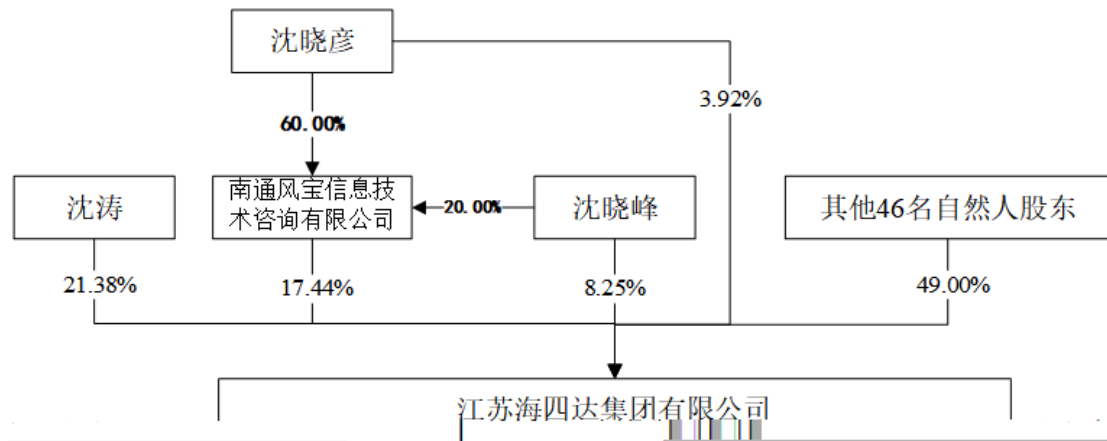
	32062619721224****
	306

3



	60.00%	20.00%	20.00%

	899
	8,600
	91320681727234836L
	2001 3 2



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EMT

EMT

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EMT

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2022 8 5

79.7883%

7

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2

2

1

36

4.4

36

2

2

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5

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6

4.1

4.4

与

1


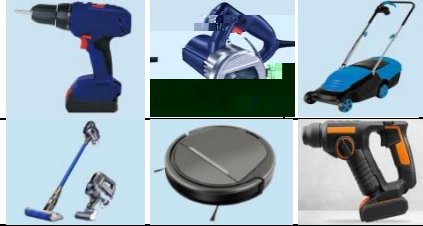
1994

2

BMS

BMS

BMS

BMS				

3

Ah

	2022 1-9	38,115.00	29,706.60	3,793.25	27,789.20	77.94%	82.95%
	2021	27,900.00	25,698.15	12,779.44	32,937.83	92.11%	85.60%

5G

2020

2020

	2022 1-9	2021	2020
	-15.58%	11.63%	-24.01%
	16.85%	16.10%	20.75%

6

2022 9 30

			/	
1			2020.12.02	3
2	UL		2019.05.27	-
3			2020.01.03	-
4			2020.12.14	2023.12.14
5			2020.12.14	2023.12.13
6			2022.08.06	2027.08.05
7			2022.04.20	2025.04.17
8	ISO9001:2015		2022.04.12	2025.04.11
9			2021.11.30	3
10			2022.04.15	2025.04.11

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CRM

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2002

2009

863

2022 9 30

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TTI

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Exicom

3

" HIGHSTAR"

2021

"

"

1

	2021 12 31	2020 12 31
	192,753.05	120,479.81
	99,228.35	77,221.91
	291,981.40	197,701.72
	170,617.16	101,930.96
	25,517.07	10,671.95
	196,134.23	112,602.90
	94,931.94	84,840.07
	95,847.17	85,098.82

2020 2021

197,701.72 291,981.40

2021 47.69%

112,602.90 196,134.23

2021 74.18%

2

	2021	2020
	185,334.36	81,690.87
	155,517.74	64,719.25
	12,169.08	-179.97

	2021	2020
	11,520.82	-212.03
	10,413.35	424.05
	10,219.93	410.30

2020 2021

81,690.87 185,334.36

2021 126.87%

1

45,101.80 121,746.51 169.94%

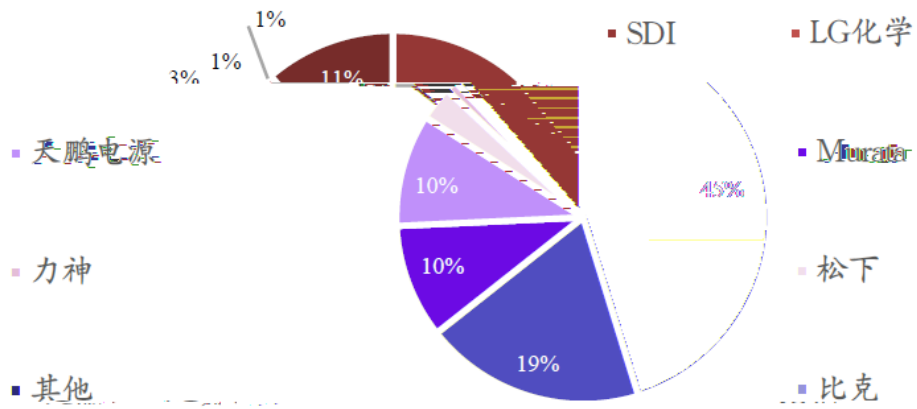
2017

SDI LG Murata

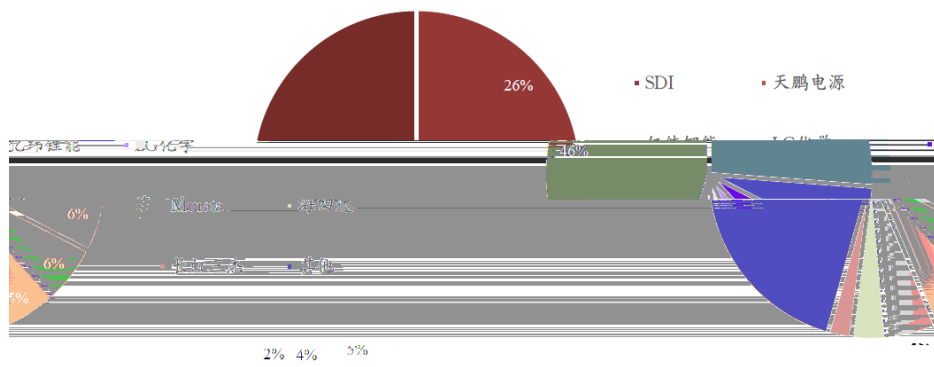
TTI

2018 1% 2020 4%

2018



2020



2021

2021

" 2GWh

1GWh "

2021

2

TTI

TTI

TTI

2020

TTI

2020

2021

TTI

675.16

14,200.91

		2021	2020	

3

	2021 12 31 / 2021	2020 12 31 / 2020
	67.17%	56.96%
	16.09%	20.78%
	5.62%	0.52%

4

	2021	2020
	-215.72	-31.20
	1,137.57	1,197.96
	1,411.33	168.98
	-	0.50
	-606.68	-8.35
	-285.95	-244.33
	1,440.54	1,083.57
	10,219.93	410.30
	8,779.38	-673.27

1,083.57

1,440.54

2021

2021

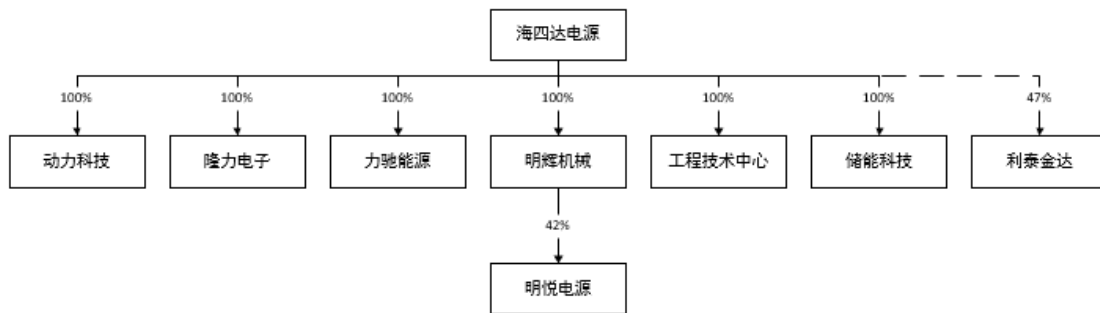
5

	2022 9 30 /2022 1-9
	326,624.71
	238,491.88
	87,056.67
	172,916.53
	12,269.59

2022 1-9

7

1



1

1

	2288
	91320681MA1X37A591
	2018 8 22
	100.00%

		306
	91320681670139554L	
	2007-12-28	
		100.00%

	2022 9 30	2021 12 31	2020 12 31
	422.71	446.10	460.54
	11.14	11.63	12.73
	411.58	434.47	447.81
	2022 1-9	2021	2020
	-	60.00	61.95
	0.86	41.14	62.98
	-22.89	4.52	-3.40
	-22.89	-13.34	10.18

	1,227.23	1,820.22	1,017.99
	567.08	493.10	511.40
	2022 1-9	2021	2020
	3,324.76	5,005.22	3,185.35
	3,065.63	4,526.34	2,766.59
	74.30	-18.43	92.47
	74.30	-18.43	93.05
	73.98	-18.30	93.38

5

	306
	91320681MA22QXU21P
	2020-10-21
	42.00%
	29.00%
	29.00%

	2022 9 30	2021 12 31	2020 12 31
	2,681.91	2,372.03	614.57
	981.64	949.22	86.50
	1,700.28	1,422.81	528.06
	2022 1-9	2021	2020
	3,242.10	3,732.39	123.30
	2,914.01	3,160.44	91.83
	327.04	526.53	29.54
	327.04	526.53	29.54
	277.47	394.75	28.06

6

	306	
	91320681737819686L	
	2002-04-29	
		100.00%

	2022 9 30	2021 12 31	2020 12 31
	333.30	489.26	454.25
	-30.24	42.50	16.53
	363.54	446.76	437.72
	2022 1-9	2021	2020
	-	127.92	179.25
	0.24	118.45	186.46
	-83.23	9.04	112.38
	-83.23	9.04	112.38
	-83.23	9.04	82.38

7

	2288	
	91320681MAN6M6L3N	
	2022-04-20	
		100.00%

	2022 9 30	2021 12 31	2020 12 31
	5,057.13	-	-

	58.24	-	-
	4,998.90	-	-
	2022 1-9	2021	2020
	-	-	-
	-	-	-
	-1.10	-	-
	-1.10	-	-
	-1.10	-	-

2

	18 —D622	
	91110111MA01PGUGXG	
	2019-12-24	
		50.00%

	89,024.69	34,112.72	54,911.97	61.68%
	3,154.58	2,457.09	697.48	22.11%
	262.62	231.37	31.25	11.90%
	84.31	77.25	7.05	8.37%
	122,561.03	43,625.73	78,935.30	64.40%

2

2022 9 30

1,000

	/			
	30	8,048.56	5,008.05	62.22%
	112	7,763.91	4,622.96	59.54%
	269	6,579.75	4,375.15	66.49%
	7	5,526.29	2,841.77	51.42%
	2	4,284.79	2,177.09	50.81%
	22	3,615.33	2,693.72	74.51%
	159	1,846.75	1,049.33	56.82%
	433	1,682.77	1,503.38	89.34%
	1,034	39,348.15	24,271.45	61.68%

3

2022 9 30

9,517.71

1,540.33

7,977.38

2

1

2022 9 30

1	2020 0036870		112,530.30			2053.12.26		
2	2021 0047476		46,667.00			2069.05.27		

3	2020 0036868		36,216.00			2053.12.26		
4	2019 0008029		36,089.40			2051.01.17	306	
5	2016 0007846		25,611.70			2056.12.18	800	
6	2021 0042717		19,726.00			2069.05.27		
7	2019 0008090		17,675.90			2051.01.27	306	
8	2010 0554		13,334.00			2058.07.23	306	
9	2020 0036869		10,768.00			2057.12.17		
10	2011 0268		5,315.00			2061.04.19		
11	2011 0378		1,112.00			2053.12.26		
12	2022 0025849		67,594.00			2072.07.10		
			- 392,639.30		-	-	-	-

2

2022 9 30



					m ²	
4		306	2019 0008090		18,526.20	
5		800	2016 0007846		17,934.86	
6			2020 0036870		16,271.85	
7		306	00112626		16,175.00	
8		306	00260918		4,436.84	
9			00130573		876.51	
10			2020 0036869		593.37	
		-	-	-	199,083.62	-

2022 9 30

10,996.674

		/		
1			1,349.32	
2			1,347.06	
3			1,126.32	
4			657.90	
5	11	1	541.80	
6			509.25	
7			453.60	
8			442.70	
9	11	2	282.08	
10			264.74	
11			255.00	
12	11		241.08	
13			217.56	
14			200.08	
15			188.51	
16			149.24	
17			149.24	
18			140.42	
19			136.62	
20			130.20	

		/		
21	8		129.27	
22	2		126.16	
23			122.55	
24			107.59	
25	7		106.48	
26	MMP		87.48	
27			86.80	
28	1		86.05	
29			83.00	
30			76.38	
31			76.24	
32	6		69.30	
33			67.16	
34			51.78	
35			51.68	
36			33.28	
37	11		15.48	
38			13.60	
39			13.25	
40			491.04	
41			122.46	
42			55.104	
43			48.60	
44	1		40.85	
45	2		26.55	
46			17.82	
47			8.00	
			10,996.674	-

5.23%

200

200

2022 3 24

2020 1 1

3

2022 9 30

			/		m ²	/	
1					1,171.00	0.70	2022.09.25-20 25.09.24
2			1200		9,375.00	20.00	2021.01.01-20 23.12.31
3			1200 1 2 4		4,420.39	97.25	2021.01.01-20 23.12.31
4					400.00	3.00	

			86.2	16
2			ZL2018114791 96.1	2018.12. 05
3			ZL2018112474 09.8	2018.10. 25
4			ZL2018110741 59.2	2018.09. 14

5

25			ZL2010101225 80.3	2010.03. 12
26	LiFe1-		ZL2010101225 78.6	2010.03. 12
27			ZL2009102130 46.0	2009.11. 10
28			ZL2018104348 11.0	2018.05. 09
29			ZL2006100929 67.2	2006.06. 16
30			ZL2004100345 31.9	2004.04. 20

31

47			ZL2018215122 12.8		2018.09. 14
48			ZL2018205144 84.5		2018.04. 12
49			ZL2017214313 79.7		2017.11. 01
50			201721431292 X		2017.11. 01
51			ZL2017213200 57.5		2017.10. 13
52			ZL2017213207 74.8		2017.10. 13
53			ZL2017213286 83.9		2017.10. 13
54			ZL2017211113 81.6		2017.09. 01
55			ZL2017207243 57.3		2017.06. 21
56			ZL2017205513 00.8		2017.05. 18
57			ZL2017204719 65.8		2017.05. 02
58			ZL2016211386 91.2		2016.10. 19
59	U		ZL2015206891 53.1		2015.09. 08
60			ZL2019305631 93.5		2019.10. 16

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2022 9 30

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8

A

1		40	56521278		2021.12.21-2031.12 .20

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7	HIGHSTAR		3288440		2013.08.28-2023.08.27	
8	HIGHSTAR	9	3009717		2013.02.21-2023.02.20	
9	HIGHSTAR		8789133		2022.07.07-2032.07.06	
10	HIGHSTAR		8789122		2022.07.07-2032.07.06	
11	海四達		8789113		2022.07.07-2032.07.06	

B

1	HIGHSTAR	9	1027971		2020.01.14-2030.01.14	
2	HIGHSTAR	9	302504420		2013.01.23-2023.01.22	
3	HIGHSTAR	9	1366580		2013.01.25-2023.01.25	
4	HIGHSTAR	9	1161696		2013.05.08-2023.05.08	
5	HIGHSTAR	9	01598948		2013.09.16-2023.09.15	
6	HIGHSTAR	9	TMA878699		2014.05.26-2029.05.26	
7	HIGHSTAR	9	905826493		2015.12.08-2025.12.08	
8	HIGHSTAR	9	2470090		2023.02.01-2033.02.01	

6

2022 9 30

11

1	MSP430G2332	2022SR017574 4		2021.06.18	2021.06.18	
2	MM32F003	2022SR017886 3		2021.04.23	2021.04.23	
3	HT66F3185	2022SR017886 2		2021.03.17	2021.03.17	
4	STM8L051F3 BMS	2022SR017573 4		2020.10.16	2020.10.16	

5		2020SR051414 9		2020.05.26	2019.11.30	
6		2020SR051239 5		2020.05.26	2019.11.30	
7		2020SR051415 6		2020.05.26	2019.10.28	
8	BMS	2020SR051462 9		2020.05.26	2019.10.28	
9		2020SR051462 1		2020.05.26	2019.09.25	
10	BMS	2020SR051515 1		2020.05.26	2019.09.20	
11	BMS	2020SR051463 7		2020.05.26	2019.08.10	

7

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112,602.90 196,134.23

238,491.88

2021 2022 9

2022

3 26 2022

0.705

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2022 9

	2022 1-9		2021		2020	
	45,639.72	19.14%	37,639.63	19.19%	34,250.62	30.42%
	50,900.00	21.34%	50,876.75	25.94%	16,400.00	14.56%
	68,920.82	28.90%	61,315.40	31.26%	34,201.59	30.37%
	4,027.07	1.69%	4,659.48	2.38%	1,380.05	1.23%

	2022 1-9		2021		2020	
	1,498.67	0.63%	4,274.83	2.18%	2,016.94	1.79%
	433.18	0.18%	359.29	0.18%	609.44	0.54%
	28,049.34	11.76%	516.61	0.26%	499.80	0.44%
	-	-	3,030.86	1.55%	3,015.13	2.68%
	523.52	0.22%	7,944.33	4.05%	9,557.39	8.49%
	199,992.31	83.86%	170,617.16	86.99%	101,930.96	90.52%
	28,059.32	11.77%	16,000.00	8.16%	6,000.00	5.33%
	-	-	-	-	125.19	0.11%
	10,095.16	4.23%	9,171.98	4.68%	4,546.76	4.04%
	345.09	0.14%	345.09	0.18%	-	-
	38,499.57	16.14%	25,517.07	13.01%	10,671.95	9.48%
	238,491.88	100.00%	196,134.23	100.00%	112,602.90	100.00%

4

2022 9 30

					2022 9 30
		1,650.00	2020-08-31	2027-08-20	
		2,000.00	2020-08-31	2027-08-20	
		10,559.37	2022-06-30	2031-06-01	
		3,500.00	2022-05-25	2026-05-23	
		4,600.00	2022-05-20	2025-11-14	
		1,490.96	2022-05-16	2025-11-11	
		2,350.00	2020-08-31	2027-08-20	

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				2021	0681
		9537			
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		0681	9537		
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				2019	10			2021
				2019	0681			
		7607						
		4,770.17		500				2,400.00
			34.04					
	"	2020	7				4,396.10	1,759.68
	"			4,394.10	2	1		
					2	3		2021
				500				
		4,224.95			2			516.68
				2020	8			2021
				2020	0681			31
	"	5484						
	"	858.17					858.17	853.17
	"	2022	2					2022
								2
				2020	10			2021
				2020	0681			31
	"	7209						
	"	856.80					856.80	856.80
	"	2020	12			1		
	"			856.80		2		856.80
	"							
				2020	10			2021
				2020	0681			31
							3,366.00	

	"	7211 3,366.00		3,366.00
	"	2021 1 3,366.00	1 2	3,366.00

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		2020 4		
		2020 0282 2286 710.32	710.32	2020 5

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1		[2020]14		1	5-10	5-10
				2		
				3		
				1	5	10
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	1-2		0-20			
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2		2021 1252	24	1		0.2-1
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							10.2

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		%
	22,616.80	79.7883

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177,000.00

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×79.7883%= 114,097.30

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19,855,877.98

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2021 12 31

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100%

163,000.00

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=143,000.00

×79.7883%, 114,097.30

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2.3		143,000.00			
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3			4.5	4.6	
			3.2		
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1					
				36	
			4.4		
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		2			
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4					
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6					

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177,000.00

129,402.63

100%

163,000.00

2

100%

143,000.00

=143,000.00 ×79.7883%=114,097.30

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2022 4 A 14

PE

PB

37.95

3.48

40.66

4.42

PE PB

15.65

1.70

			2021	2021 12 31	PE TTM	PB MBQ
300750.SZ		9,541.34	159.31	845.13	61.68	11.29
300014.SZ		1,250.73	29.06	179.34	44.99	6.83
002074.SZ		446.14	1.02	187.78	517.71	2.38
300207.SZ		382.47	9.16	130.30	43.36	2.72
688772.SH		241.31	9.46	62.98	32.54	3.76

			2021	2021 12 31	PE TTM	PB MBQ
688567.SH		204.82	-9.53	92.74	-20.07	2.11
002245.SZ		195.46	6.70	35.68	27.50	5.19
688063.SH		264.16	3.16	29.70	73.78	8.51
300438.SZ		135.95	1.82	27.62	62.28	4.88
000049.SZ		93.33	7.94	34.29	11.48	2.60
600478.SH		84.15	0.42	26.09	135.60	3.20
836239.BJ		43.07	2.53	9.79	16.75	4.16
688345.SH		33.63	1.26	11.41	32.21	2.88
600152.SH		26.98	-1.27	19.86	-19.81	1.36
					37.95	3.48
					40.66	4.42
		100%	2021	2021	PE	PB
	-	16.30	1.04	9.58	15.65	1.70

1 Choice
2 PE 100
3 100% 163,000.00
2 100%
143,000.00 PE PB 100%
163,000.00
4 PE=163,000.00 /2021 PB=163,000.00 /2021

2

2020

PE 8.88 -27.20
PE 18.99 18.36 PB 1.97 -9.45
PB 2.44 4.62
PE PB 15.65 1.70 PE
PB

				100%			PE	PB
600877.SH			2020.10.31	18,131.96	2,041.87	9,210.87	8.88	1.97
			2020.10.31	64,163.54	2,358.58	26,316.09	27.20	2.44
836239.BJ			2021.09.30	522,643.96	27,525.93	55,307.38	18.99	9.45
							18.99	2.44
							18.36	4.62
				100%			PE	PB

002324.SZ			2021.12.31	163,000.00	10,413.35	95,847.17		
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305,558.12

307,534.90

305,558.12

307,534.90

		2022	2023	2024	2025	2026
	Ah	65,892.44	65,892.44	65,892.44	65,892.44	65,892.44
	/Ah	3.60	3.57	3.60	3.57	3.60
		237,212.79	235,236.01	237,212.79	235,236.01	237,212.79
	Ah	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00
	/Ah	2.29	2.29	2.29	2.29	2.29
		57,250.00	57,250.00	57,250.00	57,250.00	57,250.00
	Ah	80.57	80.57	80.57	80.57	80.57
	/Ah	45.00	45.00	45.00	45.00	45.00
		3,625.67	3,625.67	3,625.67	3,625.67	3,625.67
		298,088.46	296,111.68	298,088.46	296,111.68	298,088.46
		67.74%	-0.66%	0.67%	-0.66%	0.67%
	Ah	70.41	70.41	70.41	70.41	70.41
	/Ah	3.77	3.77	3.77	3.77	3.77
		265.49	265.49	265.49	265.49	265.49
	Ah	1,249.05	1,249.05	1,249.05	1,249.05	1,249.05
	/Ah	3.45	3.45	3.45	3.45	3.45
		4,305.05	4,305.05	4,305.05	4,305.05	4,305.05
		4,570.54	4,570.54	4,570.54	4,570.54	4,570.54
		6.13%	-	-	-	-
		2,385.23	2,385.23	2,385.23	2,385.23	2,385.23
		920.35	920.35	920.35	920.35	920.35

1,570.32

65,892.44 Ah

15,072.44 Ah

2021

12,779.44

Ah

15,072.44 Ah 2021

17.94%

37,125.00 Ah/

25,000.00 Ah

/Ah

	2020	2021	2022	2023	2024	2025	2026
	3.62	3.70	3.60	3.57	3.60	3.57	3.60
	2.32	2.30	2.29	2.29	2.29	2.29	2.29
	45.06	55.70	45.00	45.00	45.00	45.00	45.00
	3.59	3.75	3.77	3.77	3.77	3.77	3.77
	3.65	3.47	3.45	3.45	3.45	3.45	3.45

64.94% FT/Q 79.42 0.48 0.47998 re5 Tf1 *492.99

	2020	2021	2022	2023	2024	2025	2026
	24.32%	22.66%	19.09%	19.86%	20.28%	20.28%	20.28%
	7.75%	-0.76%	6.00%	6.00%	6.00%	7.00%	7.00%
	64.94%	71.99%	70.00%	70.50%			

		2020	2021	2022	2023	2024	2025	2026
		3,689.28	5,096.58	7,960.18	8,149.56	8,269.39	8,392.92	8,520.24
		4.52%	2.75%	2.59%	2.67%	2.69%	2.75%	2.77%
		6,128.30	9,205.37	14,285.22	14,638.19	15,059.96	15,532.95	

10

3.80%

3.80%

MRP Market Risk premium

Rm-Rf1 300

300

wind 300

16 2005 2020 Rm

11.02% 16 2005 2020 Rf1 4.08%

Rm-Rf1 6.94%

		Rm	Rf	10 ERP=Rm-Rf	Rf	5 10	5-10 ERP=Rm-Rf
1	2012	6.11%	4.16%	1.95%	3.54%	2.57%	
2	2013	7.88%	4.29%	3.59%	3.72%	4.16%	
3	2014	18.85%	4.31%	14.54%	3.74%	15.11%	
4	2015	12.50%	4.21%	8.29%	3.38%	9.12%	
5	2016	0.85%	4.02%	-3.17%	3.14%	-2.29%	
6	2017	14.40%	4.23%	10.17%	3.68%	10.72%	
7	2018	3.46%	4.12%	-0.66%	3.55%	-0.09%	
8	2019	9.05%	4.10%	4.95%	3.41%	5.64%	
9	2020	16.89%	4.08%	12.81%	3.30%	13.59%	
10	2021	17.83%	3.41%	14.42%	2.85%	14.98%	
11		10.78%	4.09%	6.69%	3.43%	7.35%	
12		18.85%	4.31%	14.54%	3.74%	15.11%	
13		0.85%	3.41%	-3.17%	2.85%	-2.29%	

		Rm	Rf	10	10 ERP=Rm-Rf	Rf	5	5-10 ERP=Rm-Rf
						10		

2021 2 2021 11

iFind

Beta 1.0816

D/E 7.68%

$1 + (1 - T) \times D/E$

= $1 + (1 - 15.00\%) \times 7.68\% \times 1.0816$

= 1.1522

Rs

Portfolio

Rs

$R_s = 3.139\% + 0.2485\% \times NA$

NA

NA ≤ 10

0.76%

CAPM

Re

$3.80\% + 1.1522 \times 6.94\% + 0.76\%$

12.55%

WACC

$WACC = K_e \times [E / (E + D)] + K_d \times (1 - T) \times [D / (E + D)]$

	E			
	D			
	Ke			
	Kd			
	T			
1				
		D/E	D/E	D/E
			7.03%	
92.97%				
2	rd			
		5	4.65%	
3				

WACC $r = r_d \times (1-t) \times W_d + r_e \times W_e$

$= 4.65\% \times (1-15\%) \times 7.03\% + 12.55\% \times 92.97\%$

$= 11.90\%$

12%

2022 4 25

114,097.30

79.7883%

1994

30

IPO

2021

52.90%

		40.77%		1994 10
		7.68%		2006 12
		2.14%		2020 5
		1.17%		2006 12
		0.61%		2006 12
		0.53%		2016 10
		52.90%	-	-
			1999	
	17.76%	12.30		2014 5
			2016	
	8.38%		60	2016 3
		TMT		
			1999	
	4.23%		4200	2007 12
			100	
		/	/	
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	2.20%		2015	2016 3
			10 &	
	2.14%		2020	2020 5
	2.12%		2017	2017 12
			1997	
	1.59%	13.75		2017 12
		IDC		
			2016	
	1.06%		60	2017 12
		TMT		
	1.06%		2017	2018 2

			3,000	
			TMT	
			2017	
		0.53%		2017 12
		41.07%	-	-
		0.83%		2006 12
		0.61%		2006 12
		0.61%		2006 12
		0.58%		2006 12

1			17.76%
2			8.38%
3			4.23%
4			2.20%
5			2.14%
6			2.12%
7			1.06%
8			0.53%
			38.42%

79.7883%

							100%	
		2022	9		1,044.175 3.68%	4,860.63 4.655 /	131,950.63	
		7			560.00 1.98%	2,206.40 3.94 /	111,683.24	1

3.94 / []
4.80%

3.94 /

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2017 12

5.895 /
4.655 /

0.705 /

3 2017 12

6.60 /

							100%	
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2020
11

606.00
2.14%

4,653.12
7.68 /

217,652.55

1 2017 12

1 3,999.60
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12 31 2021 12 31
163,000.00 2021 10,219.93 PE 15.65
2017 12 2017
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17.57 2022 9 30
2017

2 2022 3 -7
79.7883%

2022

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2017 12

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0.705 / 2017 12

6.60 /

	69,404.52	50.15%
100%	138,386.75	143,000.00

2022 8 5	79.7883%
2022 9 30	20,499.33
2022 9	7.43%

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79.7883%

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2GWh

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43.93%

35.27%

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2022 9

" " 12GWh " 79.7883%
6GWh " " 2GWh

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2020

2020	2021	2022	9	
51,349.86	58,261.34	60,711.40		25.97%
19.95%	18.59%			

"

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2020

2022 3

2022 9 30

10,996.674

5.23%

200

200

15%

2020

2021

128.63

131.50

与

		359,996.66	444,754.21
487,077.50	428,105.20	16,404.60	39,810.56
2,100.42	15,870.14		

ICT

ICT

			127,319.57
135,553.92	155,054.74	245,747.95	

与

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2015 WPR 5,478.89
WPR 2021
2,492.89 2022 WPR
2021

35 35

今

今

第八节 本次发行相关声明

一、发行人及全体董事、监事、高级管理人员声明

本公司及全体董事、监事、高级管理人员承诺本募集说明书内容真实、准确、完整，不存在虚假记载、误导性陈述或重大遗漏，按照诚信原则履行承诺，并承担相应的法律责任。

全体董事：

周文

吴昊

周臻纶

蔡莹

赵世君

钱尹律



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一、发行人及全体董事、监事、高级管理人员声明

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全体董事：

周文	吴昊	高臻纶
蔡莹	赵世君	钱君律
胡冰		

全体监事：

郭思斯	张锴	邵祥胜
-----	----	-----

非董事高级管理人员：

蔡青	李宏
----	----

上海普利特复合材料股份有限公司



第八节 本次发行相关声明

一、发行人及全体董事、监事、高级管理人员声明

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全体董事：

周文

吴昊

周臻纶

蔡莹

赵世君

钱君律

胡冰

全体监事：

郭思斯

张锴

邵祥胜

非董事高级管理人员：

蔡青

李宏

上海普利特复合材料股份有限公司



2023年3月1日

第八节 本次发行相关声明

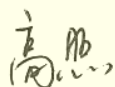
一、发行人及全体董事、监事、高级管理人员的承诺



三、保荐机构（主承销商）声明（一）

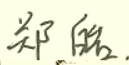
本公司已对募集说明书进行了核查，确认本募集说明书内容真实、准确、完整，不存在虚假记载、误导性陈述或重大遗漏，并承担相应的法律责任。

项目协办人签名：



高 照

保荐代表人签名：



郑 皓



徐建豪

四、保荐机构（主承销商）声明（二）

本人已认真阅读上海普利特复合材料股份有限公司募集说明书的全部内容，
确认募集说明书不存在虚假记载、误导性陈述或者重大遗漏，并对其真实性、
准确性、完整性、及时性承担相应法律责任。

保荐机构总经理签名：



李 军

保荐机构董事长签名：



周 杰


海通证券股份有限公司

2023 年 3 月 / 日

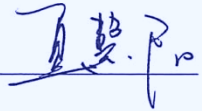
五、发行人律师声明

本所及经办律师已阅读募集说明书，确认募集说明书内容与本所出具的法律意见书不存在矛盾。本所及经办律师对发行人在募集说明书中引用的法律意见书的内容无异议，确认募集说明书不因引用上述内容而出现虚假记载、误导性陈述

事务所负责人：


韩 焮

律师：


夏慧君


郑江文

律师：

经办：



二〇二三年三月一日

六、会计师事务所声明

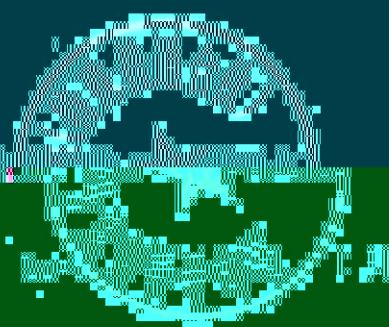
本所及签字注册会计师已阅读募集说明书，确认募集说明书内容与本所出具的审计报告等文件不存在矛盾。本所及签字注册会计师对发行人在募集说明书中引用的审计报告等文件的内容无异议，确认募集说明书不因引用上述内容

虚假记载、误导性陈述或者重大遗漏，并承担因虚假记载、误导性陈述或者重大遗漏

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七、评估机构声明

本机构及签字资产评估师已阅读募集说明书, 确认募集说明书与本机构出具的评估报告不存在矛盾, 本机构及签字资产评估师对募集说明书中引用本机构出具的评估报告相关内容无异议。

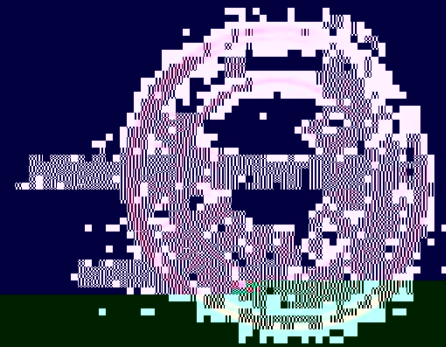
资产评估机构
北京中企华资产评估有限责任公司

资产评估师
王强

资产评估师
王强

资产评估机构
北京中企华资产评估有限责任公司

资产评估师
王强



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②自本承送函由日口至公司本夜向特应对象发行，即即西应送应比送，共

