



	.....	2
1	.....	3
2	.....	31
3	.....	39
4	.....	79
5	.....	134
6	.....	160
7	.....	185
8	.....	195
	.....	213

1

1

10GW/

11GW/

16GW/

2

P

N

N

3

7.5GW

5GW

20GW

1.8GW

2.5GW

2GW

4

93.26% 85.89% 61.52% 83.61%

4.61 4.13 3.20 3.70

5

6

20GW

10GW

1

2

3

4

5

1 - 3

5

()

4 - 5

PERC P
TOPCon N
N
P 2021
N N TOPCon
2022 N TOPCon
N N
P P PERC
N N TOPCon

+e\$>B0 1""H 6#\$0)ñ `e\$Y +e\$>B0 1""H 6#\$0)ñ t#0xRE•"¶RŽ “ r)9cb2C 1

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1	11GW “ 11GW ”	N TOPCon N	N 182mm 26.1%	
2			N TOPCon 25% 25% 580W 20-25W N TOPCon 23.86% N N PERC N 72 575W P 4.5% TÜV 182mm	

P

N

N TOPCon

N TOPCon

1	N		N	
2	N		N	
3	N HOT 2.0	10 26.1% N	2022 N	
4	N BC	TOPCon BC N BC 25.5%	N	
5	Tiger Neo	Tiger Neo 620W 182-78P	N	
6				

N

N

IEC61215/IEC61730 UL61730

CQC

GW					
		N	33	16	49
		P	34	-	34
			67	16	83
		N	24	11	35
		P	20	-	20
			44	11	55
		N	32	-	32
		P	33	-	33
			65	-	65
		N	30	10	40
		P	35	-	35
			65	10	75

P 35GW 33GW
 20GW 34GW P

 N
 P
 N N
 30GW 32GW 24GW 33GW
 N 40GW 32GW 35GW 49GW N
 N
 N

1 2021

GW							
	2022 1-9	36.30	30.06	1.03	82.81%	28.41	91.37%
	2021	34.80	21.41	1.64	61.52%	22.23	96.46%
	2020	19.85	17.05	3.13	85.89%	18.77	93.01%
	2019	12.31	11.48	3.34	93.26%	14.20	95.82%

1

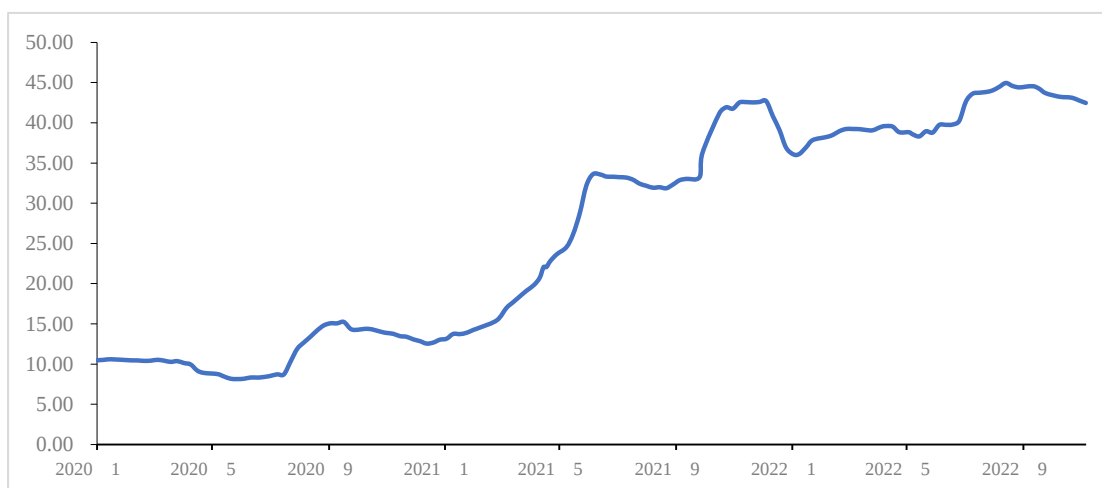
2 = / = / +

2019-2020

2021

61.52%

/



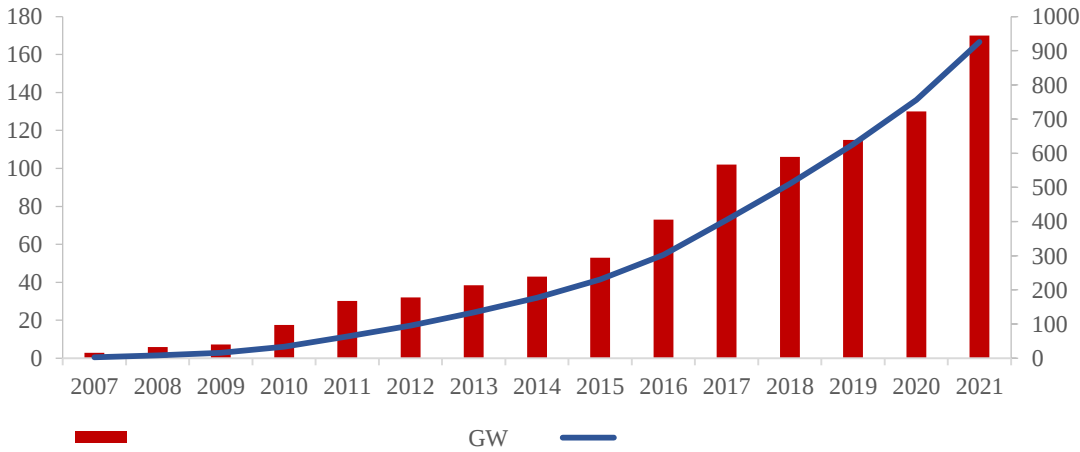
Wind

2021-2022

2022 108.8 2021 62.3
74.64% 2022 2023

2021

2021 170GW 2007-2021
33.87% 2021
926GW



2022 1-9

82.81%

2021

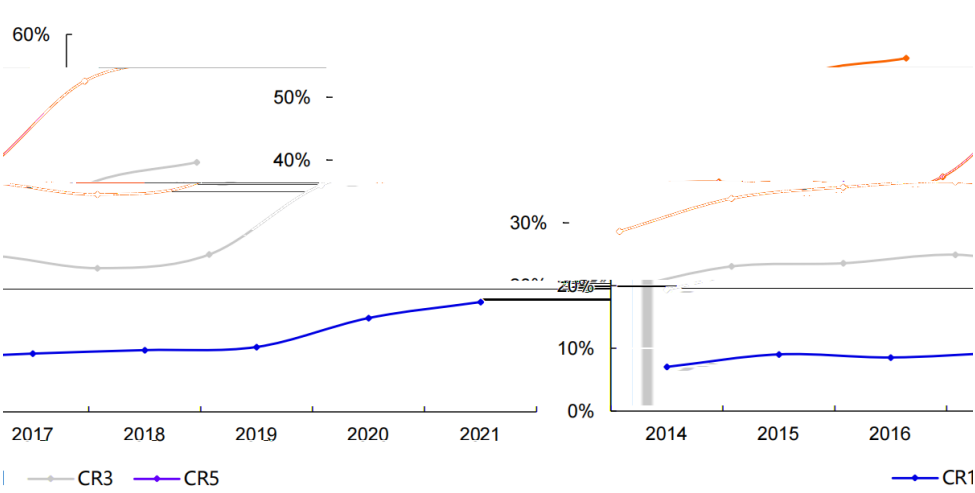
/

	2022	1-9	2021	2020	2019
		4.10	3.77	3.81	3.45
		4.86	5.25	5.24	5.56
		7.98	6.55	8.84	9.50
		4.86	5.02	4.60	4.36
		4.10~7.98	3.77~6.55	3.81~8.84	3.45~9.50
		5.45	5.15	5.62	5.72
		3.57	3.20	4.13	

	2021	2020	2019
	60.88%	68.83%	71.72%

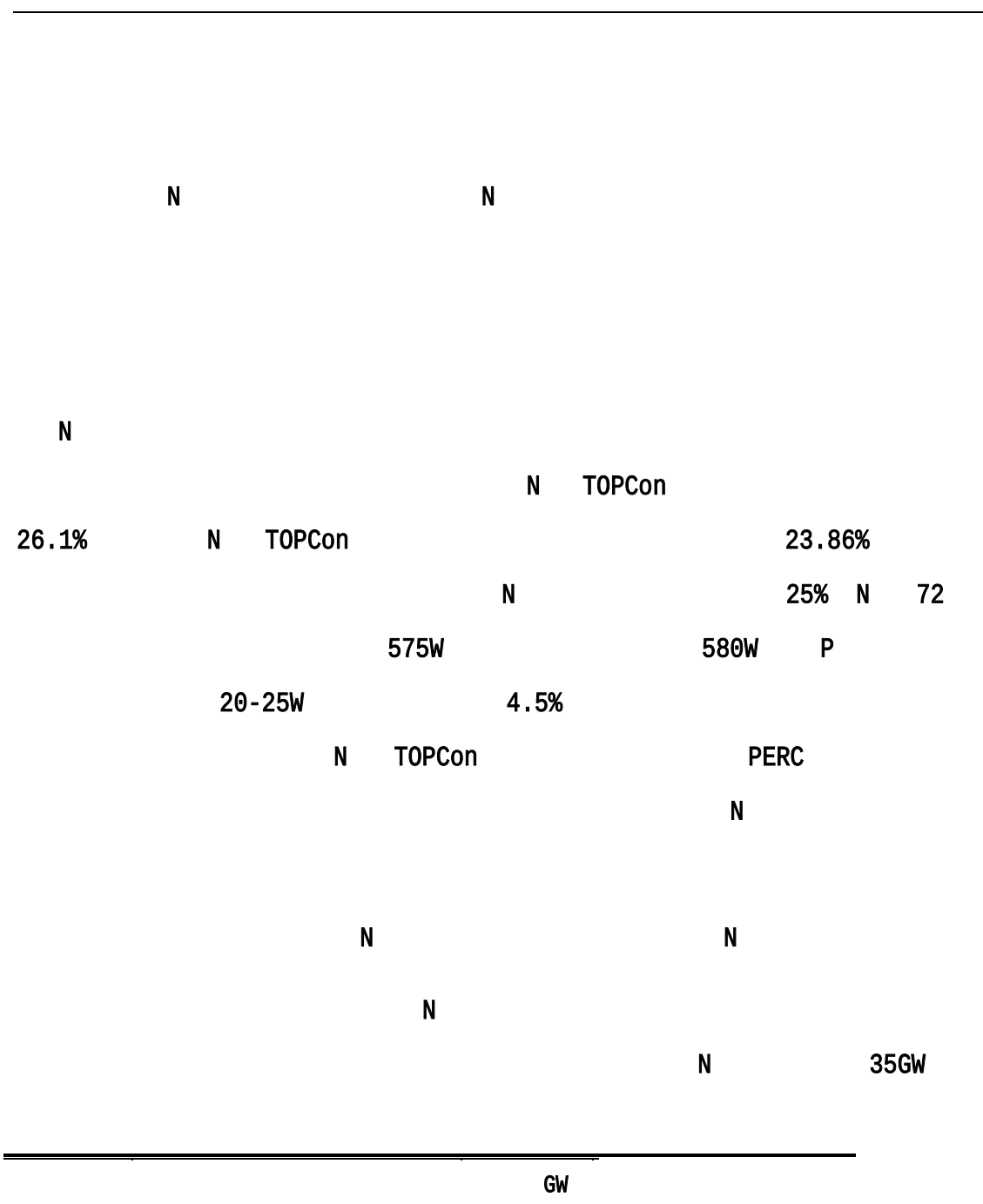
						10.83%
11.96%	10.45%	2022	N			
	527.72			117.40%	28.41GW	
41.5-43.5GW		N		10GW	2022	
	250GW			2022	14%	2021

	2023		16%	2022	
2	N		35%	2022	N
			N		



Wood Mackenzie
2014-2021

2022	3
------	---



[illegible]

2021

N

N

4

N

N

N

1

1	11GW			2022 20220018544 0020787

2	8			1 260,897.23 2022 0008772 2022 0008773 2022 0015638 2 256.9
3	8GW			2022 0030387 2022 0032135
4	10GW			2022 0000268 2022 0000269

2

“ 8 ” “ 8GW ”

1 8

“ ”

“ ” 2022

11

8 20

2022 11 1

2

3

1	2022 0008772					207,921.44	2022 4 18 2072 4 17
2	2022 0008773					15,237.73	2022 4 18 2072 4 17
3	2022 0015638					37,738.06	2022 9 7 2072 9 6

256.9

2022 11

1 256.9

20

“ ”

256.9

2022

0008772 2022
0015638

0008773 2022
“

”

2022 9 2

8GW

10

2022 11

1

2

3

1	2022 0030387					96,978	2023 3 27 2073 3 26
2	2022 0032135		157,557				2023 4 14 2073 4 13

10

2022 9

2022	0030387	2022	0032135
		“	”

2022	0030387	2022	0032135
		“	”

3

11GW

10GW

“

5

4

8

“ / /

8-1-25

1

2

“

”

--	--	--	--	--	--	--	--

1

3

“ 1

2

3

”

1	11GW	2022 72
2	8	2022 25
3	8GW	2022 41
4	20GW 10GW	2022 78

5

6

<http://jxgtjy.jxsggzy.cn/>

[2022]EB023

7

8

9

10

11

1 - 3

1

Tiger Neo

N

N

Tiger

Tiger Pro

P

2

N

N

CQC

TÜV

3

5

4 - 5

1

5

2

3

2

1 2022 1 972,285.17

2022 6 30 57.96% “ 7.5GW

5GW ” “ ”

52.63% 2.08% 2 373,201.03

“ ” “ 20GW ”

39.85% 30.28% 3

1

2

3

2022 2 16

1	7.5GW 5GW			-	-
2					
7.5GW		5GW		5GW	
				7.5GW	

5GW

7.5GW

5GW

“

6

,

N	TOPCon
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00
23	0.00
24	0.00
25	0.00
26	0.00
27	0.00
28	0.00
29	0.00
30	0.00
31	0.00
32	0.00
33	0.00
34	0.00
35	0.00
36	0.00
37	0.00
38	0.00
39	0.00
40	0.00
41	0.00
42	0.00
43	0.00
44	0.00
45	0.00
46	0.00
47	0.00
48	0.00
49	0.00
50	0.00
51	0.00
52	0.00
53	0.00
54	0.00
55	0.00
56	0.00
57	0.00
58	0.00
59	0.00
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61	0.00
62	0.00
63	0.00
64	0.00
65	0.00
66	0.00
67	0.00
68	0.00
69	0.00
70	0.00
71	0.00
72	0.00
73	0.00
74	0.00
75	0.00
76	0.00
77	0.00
78	0.00
79	0.00
80	0.00
81	0.00
82	0.00
83	0.00
84	0.00
85	0.00
86	0.00
87	0.00
88	0.00
89	0.00
90	0.00
91	0.00
92	0.00
93	0.00
94	0.00
95	0.00
96	0.00
97	0.00
98	0.00
99	0.00
100	0.00

7.5GW

5GW

"

2022930782,745.80

80.43%

1	7.5GW 5GW	7.5GW 5GW	562,257.98	400,000.00	263,959.66	136,040.34	65.99%
2			74,978.81	50,000.00	11,405.87	38,594.13	22.81%
3			150,000.00	150,000.00	149,999.56	0.44	100.00%
4			345,210.74	115,800.00	99,979.68	15,820.32	86.34%
5		20GW	429,240.27	145,721.03	145,721.03	-	100.00%
6			111,680.00	111,680.00	111,680.00	-	100.00%
			1,673,367.80	973,201.03	782,745.80	190,455.23	80.43%

5GW“7.5GW” “”

” “20GW”

1	7.5GW	5GW			
		2	2022	9	30
263,959.66			65.99%		
2					
		1	2022	9	30
			11,405.87		22.81%
					“
				”	
3					
		2	2022	9	30
			99,979.68		86.34%
4	20GW				
		2	2022	9	30
			145,721.03		

1									
	2022	9						80.43%	
N								N	
		N				“		”	
								“	
3/	/					”			
				N					
		N							
2									
				N					
			P		PERC			N	
TOPCon									
					2022	N			
			N						
						N			
			N			N			
3									
		N						N	
									N

N TOPCon

N

4

IPO

GDR	2022	
-----	------	--

“

” “

”

“

”

“

”

2

“

”

2021

170GW

30.8%

926GW

1

2

3

4

1

2

3

3				
	1	1,000,000.00	“	11GW
	” “	8		
	” “	8GW		
” “	20GW	10GW	”	
410,000.00	70,000.00	60,000.00	160,000.00	2
		300,000.00	3	
	18.83%	22.68%	5.38	5.93



1.1		415,449.55	95.14%	410,000.00
1.1.1		410,439.99	94.00%	410,000.00
1.1.1.1		99,040.94	22.68%	410,000.00
1.1.1.2		311,399.06	71.31%	
1.1.2		896.19	0.21%	-
1.1.3		4,113.36	0.94%	-
1.2		21,209.48	4.86%	-
-		436,659.02	100.00%	410,000.00

1

99,040.94

1		129,000.00	2,550.00	32,895.00
			2,850.00	36,765.00
-		129,000.00	-	69,660.00
1		13,920.00	3,520.00	4,899.84
2		3,760.00	2,310.00	868.56
3		736.00	2,970.00	218.59
4	TMA	108.90	2,970.00	32.34
5		294.00	2,970.00	87.32
6		726.00	2,970.00	215.62
7		1,914.00	2,970.00	568.46
8		21,813.48	3,960.00	8,638.14
9		10,000.00	3,630.00	3,630.00
10		6,963.00	3,630.00	2,527.57
11		5,192.00	-	924.44
-		65,427.38	-	22,610.88

1

4,488.00

660.00

2		4,400.00	715.00	314.60
3				

1	IT /	1,021.30
2		5,000.00
-		309,664.02

2

1

			/
1		129,000.00	8GW N 106,335.28 /GW 1.17 /GW 1.33
2		30,850.90	8GW N 19,795.71 0.25 /GW 0.28 /GW
3		10,000.00	1,795 5.57 /
4		6,963.00	1,795 3.88 /
5		21,813.48	1,795 12.15 / 8.78 /
6		15,756.00	

GW					
	2021	15GW	15		
	2021	5GW3GW	3		
	2020	5GW	5	70,405.91	1.41
	2022	10GW	10		
	2020	16GW			

	28,309.01	/GW
1		

8

1

INELI5*Aî ÅCt `9 0 Cq- å-L\$ ¼- àP1L1Ji<>|Ci`iFPàMt6•

1.1		77,383.46	85.01%	70,000.00
1.1.1		73,700.85	80.97%	70,000.00
1.1.1.1		12,522.64	13.76%	70,000.00
1.1.1.2		61,178.21	67.21%	
1.1.2		2,939.42	3.23%	-
1.1.3		743.19	0.82%	-
1.2		13,643.94	14.99%	-
-	*Aî ÅCt	91,027.40	100.00%	70,000.00

710 /

7,647.28 /GW

GW					
					1GW
	2019	3GW	3	42,766.00	14,255.33
	2020	10GW	10	91,033.61	9,103.36
	2022	5GW	5	44,103.66	8,820.73
					8,820.73~14,255.33
					10,726.48
	2022	8	8	61,178.21	7,647.28
	2022	8GW	8	61,178.21	7,647.28

8,820.73~14,255.33 /GW 10,726.48 /GW

7,647.28 /GW

/

3		14,952.40
1		522.81
1		16,081.40
2		5,578.59
1		120.00
2		204.70
-		119,707.20

2

1

PMC

			/
1		70,393.52	20GW 155,770.89 0.78 /GW 0.70 /GW
2	PMC	44,812.18	20GW 48,924.11 0.24 /GW 0.45 /GW 2 20GW 10GW

			/
3		2,429.99	970
		2.51	/

GW					
	2022	35GW	35	336,000.00	0.96
	2021	15GW	15		

1.1.1		410,439.99	94.00%	410,000.00	
1.1.1.1		99,040.94	22.68%	410,000.00	
1.1.1.2		311,399.06	71.31%		
1.1.2		896.19	0.21%	-	-
1.1.3		4,113.36	0.94%	-	-
1.2		21,209.48	4.86%	-	-
-		436,659.02	100.00%	410,000.00	

2 8

1.1		77,383.46	85.01%	70,000.00	
1.1.1		73,700.85	80.97%	70,000.00	
1.1.1.1					

		172,586.80	85.12%	160,000.00	
		166,640.46	82.19%	160,000.00	
		46,335.59	22.85%	160,000.00	
		120,304.87	59.34%		
		931.20	0.46%	-	-
		5,015.15	2.47%	-	-
		30,161.29	14.88%	-	-

26.59%

23.82%

2

1

2

/

3

4

1

		2022E	2023E	2024E
	-	7,036,229.92	8,252,893.06	9,679,934.37
	60.81%	4,912,168.84	5,761,551.94	6,757,805.32
	12	872,710.36	1,023,614.26	1,200,611.57
	7	547,689.66	642,392.90	753,471.67
	16.80%	1,182,076.68	1,386,474.37	1,626,215.30
	1	120,300.82	141,102.52	165,501.13
	5.61%	394,421.95	462,623.05	542,617.09
	25.22%	1,774,324.15	2,081,129.76	2,440,986.37
	0.29%	20,645.22	24,215.07	28,402.19
	57.89%	4,072,955.77	4,777,227.12	5,603,276.90
	27.46%	1,932,267.42	2,266,383.64	2,658,273.25
	18.35%	1,291,207.95	1,514,475.97	1,776,350.17
	4.94%	347,326.85	407,384.55	477,827.07
	7.14%	502,153.55	588,982.97	690,826.41
= -	11.93%	839,213.07	984,324.82	1,154,528.43
	-	207,653.22	145,111.75	170,203.61
		522,968.58		

1		74,978.81	50,000.00	24,978.81
2				

		2,163,689.57

2022 9

IPO

104.54

200

300,000.00

522,968.58

11GW

1

12

1.5

10.5

2

40%

3

100%

1

= × N

N

2022

N

PERC P 0.15 /W

N

P 0.05 /W N

P PV Infolink P

0.05 /W

	T+2	T+3	T+4
	T+5~T+12		

/

	2021	2020	2019	
	2.20%	2.66%	7.22%	4.03%
	2.79%	2.50%	2.23%	2.51%
	1.77%	2.10%	2.30%	2.06%

0.05%

2% N

8									
1									
119103									
115%2100%									
1									
=×									
N									
2022NPERC P0.15									
/WNPN0.02/WN									
P									
PV Infolink									
P0.02/WN									

	T+1	T+2	T+3	T+4	T+5~T+11
	189,823.15	1,186,569.57	1,122,000.21	1,100,477.09	1,086,128.34
/W	1.56	1.46	1.38	1.36	1.34
GW	1.22	8.11	8.11	8.11	8.11

					/W
20221-9	1.79	-	1.85	1.81	
2021	1.69	1.57	1.63	1.64	
2020	1.74	1.57	1.66	1.62	
2020-20211-6					
2020-20221-9					
					2020
-20221-6					

1.56 /W 1.34 /W

2

2

PV Infolink

P 0.05 /W N

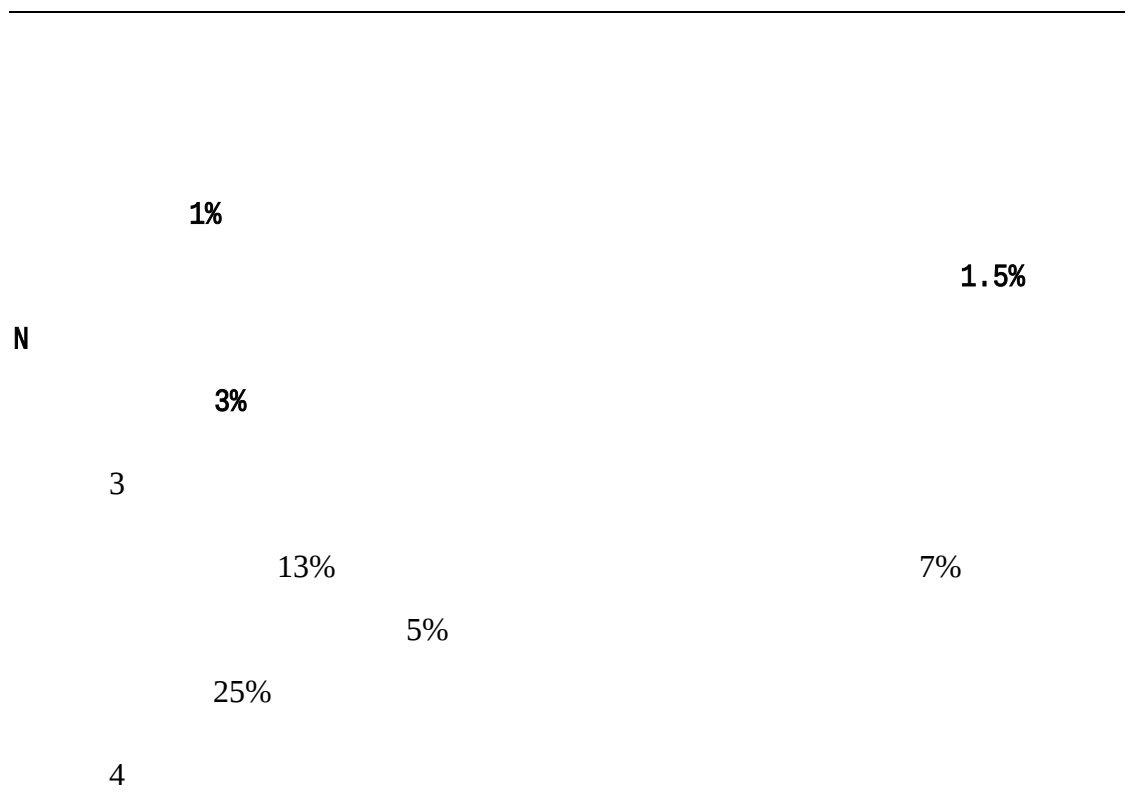
11GW

“ / /1/ 1 ”

/	23.38-27.91	23.78-28.36	-	-
/	7.31-13.16	-	7.61-11.35	7.29-13.04

11GW

2019	-2022	1-3					
		2019	-2022	1-6			
				2019	-2022	1-3	



	1,101,194.53
	17,115.87
	18.92%
	5.81

2

	2020	10GW	17.56%	6.14	14.53%
	2019	3GW	18.85%	5.71	
	2021	15GW	14.00%	6.28	11.30%
	2022	5GW	16.49%		

2020

8GW

1

8GW

“ 8

”

1 1

11

9

10

3

1

15%

2

100%

	T+1	T+2	T+3	T+4	T+5~T+11
	189,823.15	1,186,569.57	1,122,000.21	1,100,477.09	1,086,128.34
/W	1.56	1.46	1.38	1.36	1.34
GW	1.22	8.11	8.11	8.11	8.11

					/W
2022 1-9	1.79	-	1.85	1.81	
2021	1.69	1.57	1.63	1.64	
2020	1.74	1.57	1.66	1.62	
2020 -2021 1-6					2020 -

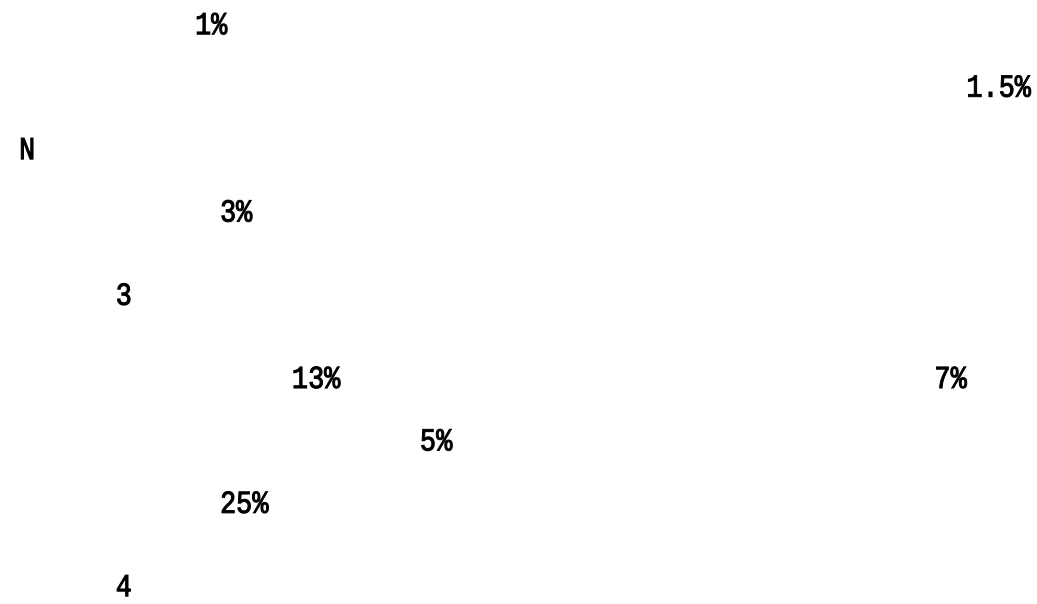
P

0.05 /W N

11GW

“ / /1/ 1 ”

	2021	2020	2019	
	2.20%	2.66%	7.22%	4.03%
	2.79%	2.50%	2.23%	2.51%
	1.77%	2.10%	2.30%	2.06%



	1,101,194.53
	17,824.00
	21.73%

	5.38

2

“ 8GW ”

“ / /2

”

10GW

1

11 1 10

2 90% 3 100%

1

= × PV Infolink

	T+2	T+3	T+4~T+12
	531,693.51	480,151.07	417,272.35
/W	0.59	0.48	0.42
GW	9.00	10.00	10.00

“ /

/2 ”

PV Infolink

/

20

10%

6

10%

50

10

	2021	2020	2019	
	2.20%	2.66%	7.22%	4.03%
	2.79%	2.50%	2.23%	2.51%
	1.77%	2.10%	2.30%	2.06%

0.5%

1%

0.5%

3

28

1

2

3

4

1

2

30%

4

3

4

300,000.00

30%

	893,847.69	98.56%	767,705.46	93.80%	744,852.18	97.93%	648,626.44	96.74%
	662.52	0.07%	29,903.26	3.65%	7,017.90	0.92%	16,468.03	2.46%
	4,946.70	0.55%	4,165.85	0.51%	1,756.65	0.23%	758.71	0.11%
	899,456.90	99.18%	801,774.56	97.97%	753,626.73	99.08%	665,853.18	99.31%
	7,435.97	0.82%	16,637.61	2.03%	6,970.28	0.92%	4,601.70	0.69%
	906,892.87	100.00%	818,412.18	100.00%	760,597.01	100.00%	670,454.88	100.00%

EVA

58.37 / 61.17 / 158.41 / 220.26

/

2

/

	2022 1-9		2021		2020		2019	
	5,088,492.10	100.00%	3,766,312.66	100.00%	3,252,518.73	100.00%	2,828,353.47	100.00%
	1,511,162.20	29.70%	727,837.96	19.32%	517,936.41	15.92%	382,671.42	13.53%
	3,577,329.90	70.30%	3,038,474.70	80.68%	2,734,582.32	84.08%	2,445,682.05	86.47%
	1.79		1.69		1.73		1.99	
	1.63		1.60		1.40		1.59	
	1.86		1.72		1.81		2.08	

1.99 / 1.73 / 1.69

/ 1.79 /

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2020-2021 2022 1-9

0.08 / 0.09 / 0.13 /

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	2022	1-9	2021	2020	2019
1		-	17.06%	20.53%	24.57%
2		11.82%	12.43%	14.90%	17.30%
3		-	14.15%	16.09%	21.02%
		-	-2.43%	0.41%	7.24%
		-	10.30%	12.98%	17.53%
		10.40%	13.40%	15.08%	19.99%

1	2019	2020			
“	”	2021	2021		“
”	2022		/		
2	2019	2020			
	“	”	2021	2021	
2022	1-9				“
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3			2019-2021	2022	
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Wind

2022

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58.37 / 61.17 / 158.41 / 220.26 /

	2021 2022	
		硅料价格统计 ¥/KG 硅料市场价格 硅料采购价 2021 2020 2019 2021
	2022	Wind 2019 2022 6 73 / 85 / 235 / 269 / 2019 2022 1.50 /W 1.36 /W 1.41 /W 1.58 /W 2022 2021 235 / 2022 6 269 / 2020 “ ”

	2021 2022	165.69% CCFI 2,615.54 2021
		329,691.17 97,193.53 2020 198,253.64
		2022 2022 6 2022 6
	2021	

3	2022	9	
			256,159.43 107,206.87
200,628.29		721,915.76	8.14% 3.11%
4.21%	9.67%	2022	

				2021	158.41	/
2022	1-9	220.26	/			

2022 9

2022 9

PV Infolink

PVInsights Energy Trend

2022 9

1.82%

2022

2020

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2022

2022

1-9

1.79 /

5.39%

28.50GW

2022

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2020

58.37 / 61.17 / 158.41 / 220.26

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22.74% 22.60% 20.18% 17.22%

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				896,846.14	687,910.62
	607,604.57		684,285.69		30.41%
20.44%	14.98%	12.97%			

2019	1	NEXTERA ENERGY, INC.	32.43	11.00%	2015	NEXTERA ENERGY NEE.N		2018 NextEra 1.75GW 2019 1GW Sanford Estoppel DG2, Two Creeks
	2	X-ELIO ENERGY SL	18.38	6.23%	2018	X-ELIO 2GW		2019 X-ELIO Vigo Mexico 555MW 378MW 2020
	3		14.81	5.02%	2016			1.9GW & 2020
	4	Enel	13.53	4.59%	2010	Enel ENEL.BSI ONRE.L 2021 500 118		2019 ENEL 477.58MW
	5	SPOWER, LLC	10.54	3.57%	2015	SPOWER AES Corporation Alberta Investment Management Corporation 2017 (IPP)		2018 SPOWER 1.5GW 2019 300MW SPRWY

1 NEXTERA

2020

	5	TRUNG NAM CONSTRUCTI ON INVESTMENT CORP.	9.36	2.78%	2014	2004 17 1,500 15		611MW 2021
2021	1	Adani Green Energy Ltd.	18.76	4.62%	2018	Adani 20,434		Adani AEML700MW SECI600MW 2022 4 2022
	2	ALDO COMPONENT ES ELETRONICO S LTDA.	15.26	3.76%	2018	ALDO 30% 2018		ALDO ALDO 30%
	3	Enel	9.61	2.37%				2021 187MW Power Roseland Solar ENEL Enel Green 607MW

	4		9.45	2.33%	2018	2018		100MW 20MW
	5	ABC Renewable Energy (RJ-01) Private Limited	7.68	1.89%	2021	Brookfield 7,500 100	Brookfield	NTPC453MW 2022 4 2022
2022 1-9	1	ALDO COMPONENT ES ELETRONICO S LTDA.	20.88	3.96%				ALDO 2022 30% ALDO 2.2GW
	2	Enel	14.56	2.76%				2022 122.82MW 132MW Enel Enel

	3		11.98	2.27%	2017			500MW 100MW
	4		10.63	2.01%				70MW 100MW
	5	VALE S.A.	10.37	1.97%	2021	VALE VALE 11 30		SoldoCerrado766MW

	2022 1-9	2021	2020	2019	
	21.48%	9.05%	18.69%	17.96%	9.05%~21.48%
	14.31% 2	18.54%	17.87%	19.34%	14.31%~19.34%
		33.29%	59.65%	60.00%	33.29%~60.00%
		18.19%	18.55%	22.11%	18.19%~22.11%
	-	13.80%	18.28%	18.65%	

2021

2022 9	1			559,757.00	21.49%
	2			287,849.72	11.05%
	3			158,675.00	6.09%
	4			91,194.65	3.50%
	5			90,520.00	3.48%
				1,187,996.37	45.61%
2021	1			145,911.00	13.11%
	2			119,286.07	10.72%
	3			69,590.00	6.25%
	4			54,880.00	4.93%
	5			52,018.55	4.67%
				441,685.62	39.68%
2020	1			79,930.41	9.76%
	2			57,166.25	6.98%
	3			53,250.00	6.50%
	4			45,779.60	5.59%
	5			41,050.00	5.01%
				277,176.26	33.84%
2019	1			40,646.00	6.35%
	2			39,824.88	6.22%
	3			37,180.00	5.81%
	4			34,613.04	5.41%
	5			33,840.00	5.29%
				186,103.92	29.07%

2021

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83.50% 82.51%

77.63% 75.91%

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96.55% 98.00% 95.71% 98.13%

	2022	1-9	2021		2020		2019	
	1,333,978.55	26.22%	747,901.78	19.86%	477,455.53	14.68%	520,018.91	18.39%
	871,850.11	17.13%	1,005,987.94	26.71%	952,147.95	29.27%	726,603.79	25.69%
	367,553.67	7.22%	661,159.31	17.55%	1,007,584.99	30.98%	754,961.90	26.69%
	742,883.80	14.60%	472,996.62	12.56%	205,832.17	6.33%	335,038.23	11.85%
	261,063.78	5.13%	150,429.06	3.99%	91,561.67	2.82%	109,059.21	3.86%
	3,577,329.90	70.30%	3,038,474.70	80.68%	2,734,582.32	84.08%	2,445,682.05	86.47%
	1,511,162.20	29.70%	727,837.96	19.32%	517,936.41	15.92%	382,671.42	13.53%
	5,088,492.10	100.00%	3,766,312.66	100.00%	3,252,518.73	100.00%	2,828,353.47	100.00%

2,445,682.05

2,734,582.32

3,038,474.70

3,577,329.90

7.50%

Bloomberg

2022 -2023 250GW 350GW

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Repower EU

		2,445,682.05	2,734,582.32	
3,038,474.70	3,577,329.90	32.43%	11.81%	11.11%
78.30%				

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2021

	77.4	415.1GW	423.5GW	465.2GW
	80.5%	98.1%	85.1%	77.2%
	64.2	232.9GW	223.9GW	220.8GW
	78.8%	97.3%	88.4%	82.3%

2021 - 2022

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79.94% 75.24%

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		2021	50.00
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99.62% 90.82% 82.95% 89.97%

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1	11GW		

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	2022 9 30				
		2022	2023	2023	2023
	1,118,908.17	319,180.02	364,096.68	165,573.60	270,057.88
	9,002.66	1,456.90	2,004.01	1,905.24	3,636.51
	23,452.76	5,633.86	5,716.19	5,799.62	6,303.09
		34,314.60	28,980.68	33,848.18	28,643.74
	1,277,150.80	360,585.38	400,797.56	207,126.64	308,641.22

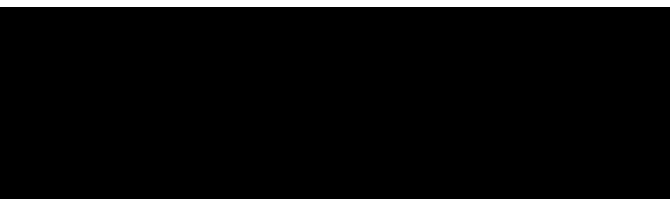
1	IPO
104.54	23.97
2	153.42
3	

		153.42		163.61	105.22%
		82.02		52.30	
		30.00		36.36	
		265.44		252.27	
		393.95		379.99	103.67%

1,600.00

393.95

379.99



	2022-09-30/ 2022 1-9	2021-12-31/ 2021	2020-12-31/ 2020	2019-12-31/ 2019
	1,238,477.31	738,220.77	763,378.05	608,724.53

	2022-09-30/ 2022 1-9	2021-12-31/ 2021	2020-12-31/ 2020	2019-12-31/ 2019
	5,277,172.44	4,056,961.83	3,365,955.42	2,948,957.62
/	17.60%	18.20%	22.68%	20.64%
/	19.92%	27.18%	24.94%	25.28%
	4,392,806.83	2,781,298.08	2,489,569.52	2,483,410.38
/	21.14%	26.54%	30.66%	24.51%
/	23.93%	39.65%	33.72%	30.02%
2022 1-9	/	/	/	
/		/		

24.51% 30.66% 26.54% 21.14%

	2022-09-30			2021-12-31			2020-12-31			2019-12-31		
	A	B	A/B	A	B	A/B	A	B	A/B	A	B	A/B
	520.06	880.36	0.59	291.72	501.48	0.58	269.63	520.37	0.52	193.36	310.09	0.62
	161.73	586.84	0.28	106.90	453.76	0.24	94.29	298.92	0.32	58.27	237.93	0.24
	41.39	84.64	0.49	26.15	52.89	0.49	19.94	48.38	0.41	15.44	31.10	0.50
	112.60	482.77	0.23	132.19	402.50	0.33	94.93	224.58	0.42	57.21	202.33	0.28
	208.95	508.65	0.41	139.24	352.66	0.39	119.70	273.06	0.44	81.07	195.36	0.41
	264.00	853.96	0.31	184.09	593.14	0.31	160.29	380.21	0.42	135.42		

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1,372,884.73 1,593,613.95 2,564,494.37
2,913,216.28

	2022-09-30/ 2022 1-9	2021-12-31/ 2021	2020-12-31/ 2020	2019-12-31/ 2019
	1,118,908.17	1,168,997.30	727,703.58	810,730.68
	158,242.63	170,070.56	82,514.02	81,524.45
	9,002.66	19,081.51	12,330.67	20,688.09
	125,787.21	141,245.42	70,183.36	60,836.36
	23,452.76	9,743.63	-	-
-	-	10,000.00	-	-
-	-	88,051.53	46,208.94	37,144.80
	329,481.29	39,933.44	39,616.19	38,350.30
	54,376.84	61,507.02	-	-
	1,252,207.34	1,025,934.53	697,534.94	405,134.50
	185,562.44	150,270.72	41,959.82	102,193.99

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2022-09-30/ 2022	1-9	2021-12-31/ 2021
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Düsseldorf Higher Regional Court

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the European Patent Office

EP2220689

2022 9 28 29

oral proceeding

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Office opposition division

EP2220689

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2012 2013 HRD

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“ X-Elio ”

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1							
Sterling and Wilson Private LIMITED					SW FZE		2017
5	5				2017	12 28	2019 1
30	“ SW			”	SW		
Sweihaan		6	3,228,400	1.18GW			
427,384,874.40							
2022	7	26	ICC	SW FZE			
SW FZE			“ 1	SW			
				SW FZE		SW FZE	
2							
1	307,112,787.38			2			
32MW		14,145,335.16			3		
4,281,606.00				325,539,728.52		”	
2							
“							
SW FZE							
2024 4 30							
”							
“							
				SW FZE			
				SW FZE			
1			SW				
SW FZE							
2	1	307,112,787.38			3		
4,281,606.00				3			
2							
				32MW			
14,145,335.16				SW FZE			

6 Sweihaan PV Power Company PJSC

SW FZE

SW FZE

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70%

	JKM295M-602019 1 30 JKM295M-60	2019 1 30 EP2220689EP2220689 “ ” 2019-20211-9117.40% 527.72 17.29% 2022		

		” “ ” 2019-2021 17.29% 2022 1-9 527.72 117.40%		

	HRD 49,195,000 HRD HRD 2021 2.31% SIAC SIAC HRD 2.7345 1,996.18	" " " " 2019-2021 1-9 117.40% 527.72 17.29% 2022	2012 2013 HRD 2012 2013 60	

	SW FZE			

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	2022 1-9 357.73 5.71% 78.30%			
	75.50 100.76 66.12 36.76 2022 1-9 78.30% 7.22% 357.73	2022 1-9 78.30% 357.73		

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X-Elio

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5			SW FZE
	SW FZE		
1	307,112,787.38	3	
4,281,606.00			SW FZE

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	2021		
		“ ”	

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102,010.91 148,678.37 156,781.64 9,187.20

2,665.12 342.97 5,739.69 14,458.60

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18,788.80 2,083.33 3,307.89 12,500.83

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			2022 1-9	2021	2020	2019
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	2022	1-9	2021	2020
				2019

2019 2020 2021 2022 1-9

-4.42% -4.79% -12.08% -4.15% 2021

					OEM													
					2022		1											
OEM																		
		OEM		2019	2020	2021												
7.01%	4.24%	-3.22%																
					/													
					/													
					10%-20%													
					/													
					2021		6											
		2022		9														
					PV Infolink PVInsights													
Energy Trend																		
		2022		9														
					1.82%													

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EPC

0.09% 0.01% 0.07% 0.46%

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				5	18% 250 /	2019 407.11

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2017

2017

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250MW

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EPC

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EPC

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8					-	-
9				-	-	-
10				-	-	-
11				-	-	-
12				-	-	-

	4		2022 1-9	2021	2020	2019
1			-	-	110.03	110.03
2			-	110.03	-	-

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2,016 2017 1 1
217.73 2021 4
2 1466 1 6-7
4,138.78 2025 4
30 409,739.22
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A NEXTERA ENERGY, INC.
NEXTERA ENERGY CONSTRUCTORS, LLC NEXTERA ENERGY
RESOURCES LLC

2018 12 28 35

2022 9 5,000.00

B Glenrowan Sun Farm Pty Ltd.

32,242,200.40 2022 9

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1		3,000.00	2019-08-30	12 2021 1	5.20%
2		1,000.00	2019-09-02		
3		1,500.00	2019-06-11		

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7		1,500.00	2021-03-10	2022 36 2	3.34188%
8		10,000.00	2021-05-06	2022 12 4	3.50%
9		1,000.00	2021-06-30	2022 12 6	2.50%

3.25%

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6		6,000.00	2019-08-27	2020-07-13	5.22%

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2019	2020	2021	2022	1-9	
		329.12	2,749.64	749.96	857.88

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	2021	2022	1-9
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2022 1-9 2021 2020 2019

		www.landchina.com	2019	1	1	2021	6
30						6.40	/
-15.60	/						

2013

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		2022	1-9	2021	2020	2019
-			0.47%	0.15%	0.02%	0.10%

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” 2019-2021 2022 1-9
4.51% 5.31% 4.55% 1.02%
0.10% 0.02% 0.15% 0.47%

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			1	2022	6	30		4,165.64
				41,910.11			10.00	2
2022	6	30			2			

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1		7,285.83	
2		12,996.01	
3		10.00	
4		85,795.70	
5		161,826.37	
6		101,825.87	
7		54,067.28	
8		123,917.11	
		547,724.17	-

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2022 9

7,285.83

5,000.00

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					5,000.00	1.85%-2.25%	2022 30	9	

2		1,280.01
		12,996.01

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2,544,089.91

39.31% 50%

50%

	2022	1-9	2021	2020	2019
	1,165,016.77		568,363.55	290,843.12	458,925.99
	20,345.38		-3,330.39	-294.84	-1,920.72
	500,256.54		-25,157.27	154,653.52	

2

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50%

2

8.2

100%

2022 6

10.08%

7.31% 3.68%

21.08%

2022-03-31

2022-06-30

2022-09-30

	2022-03-31		2022-06-30		2022-09-30	
		%		%		%
	6,681,100	3.42	7,360,164	3.68	7,467,776	3.72
	38,221,853	19.58	42,108,880	21.08	50,503,605	25.19

2022 9 30

586,207.20

58.62%

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1,000,000.00

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2022 9 30

1,000,000

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2022 9 30

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2022 10 29

17.00 /

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58,038.31

1,058,038.31

		%		%

		%
3		3.18 3.86
-		18.16 29.29

2022 6 30

1	Brilliant Win Holdings Limited	20,146,088	10.08%
2	Yale Pride Limited	14,602,628	7.31%
3	Schroder Investment Management (Hong Kong) Ltd.	11,349,652	

2022 9

30

2022	9	30	6,925.00
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2022	9	30	6,925.00
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172,000	19.20
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172,000	19.20
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/ADS

23.48%

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24

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6

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2022

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三



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本人作为晶科能源股份有限公司的董事长，现就本次回复报告郑重声明如下：

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发行人董事长： 
李仙德



（本页下页见正文）《易》易品科普能源股份有限公司向不特定对象发行可转换公司债券

易品科普

易品科普



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