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2022 1-6 2021

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1978 4

2011 2015 2015

1983 8

2010 2015

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1986 1

2012 2015

2015 2018 2018 2019

2019 2020

2020

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114 19.59%

2 7

20

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FCC

1 FCC

FCC

2 FCC

3

4

5

3-70nm 7-40nm 130-350cm^2/g 0.2-1.5cm^2/g

6 **Pox**

POX

7

2019 2020 2021

[2020] ZG11002 [2021] ZG10918 [2022] ZG11393

2022 1-6

	2022/6/30	2021/12/31	2020/12/31	2019/12/31
	2,057,039,081.50	1,611,113,628.78	962,485,059.01	921,689,154.22
	1,339,061,399.00	883,909,291.65	296,524,690.72	272,749,190.01
	717,977,682.50	727,204,337.13	665,960,368.29	648,939,964.21

	2022 1-6	2021	2020	2019
	144,063,029.51	284,862,176.85	323,859,660.14	343,794,748.38
	-4,840,799.50	14,089,632.58	35,649,320.85	42,264,713.35
	-4,859,848.53	14,218,939.58	32,052,567.81	51,239,934.84
	-4,723,980.83	11,754,160.00	27,015,193.74	42,859,266.44
	-4,723,980.83	11,754,160.00	27,015,193.74	42,859,266.44

	2022 1-6	2021	2020	2019
	-74,860,892.61	-125,298,811.40	39,113,881.29	57,408,301.11
	-452,388,955.59	-370,989,196.22	-130,115,177.39	-47,405,719.33
	439,188,587.84	561,770,124.28	-32,460,079.20	232,138,510.43
	-87,830,983.39	65,500,930.85	-123,933,737.35	242,073,757.60
	115,621,654.42	203,452,637.81	137,951,706.96	261,885,444.31

	2022/6/30	2021/12/31	2020/12/31	2019/12/31
	1.16	1.47	1.42	2.33
	0.92	1.21	1.16	2.09
	65.10%	54.86%	30.81%	29.59%
	55.91%	54.47%	26.98%	28.56%
	2022 1-6	2021	2020	2019
	1.17	3.17	3.73	3.09

	1.27	2.80	4.29	5.86
	-0.75	-1.25	0.39	0.57
	-0.88	0.66	-1.24	2.42
	5.59%	6.01%	4.62%	5.71%

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		-0.65%	-0.05	-0.04

2022 1-6

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2019 2020 2021 2022 1-6

53.43%

54.55% 57.10% 52.40%

5

2019 2020 2021 2022 1-6

26,073.30 24,078.40 21,440.36

7,294.44 77.65% 75.55%

77.12% 51.29%

2

5,740.83 3,911.39

-12,529.88 -7,486.09 2021 2022 1-6

3

3 / FCC

4 / FCC

IPO

4

9,477.80 7,887.59

10,058.63 14,643.29

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2010 11 15 2019 11 28

GR201937100531

15%

2020 12 02

GR202036001757

15%

[2016]41 “ 6,000 / FCC

” “ ” 2015-2017

2018-2020

[2017]34 “ 20,000 / FCC

” “ ” 2016-2018

2019-2021

FCC

13%

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1.00

11.77 /

20 80% 20

= 20 / 20

$P_1=P_0-D$

$P_1=P_0/(1+N)$

$P_1=(P_0-D)/(1+N)$

P_0 D N

P_1

2022 5 2021

2022 6 20 0.05 /

11.72 / 11,720.00

35,160.00

1,000 3,000

30%

11,770.00

35,310.00

2022 5 2021

2022 6 20 0.05 /

11.72 / 11,720.00

35,160.00

36

12

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2022 4 22

2022 5 20 2021

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（本页无正文，为《中德证券有限责任公司关于青岛惠城环保科技集团股份有限公司向特定对象发行A股股票之上市保荐书》之签字盖章页）

项目协办人：樊佳妮

樊佳妮

保荐代表人：陈超

陈超