

emily_huai@hanbell.cn
ir@hanbell.cn

021-51365368

- 1. 2017
- 2. 29
- 3. 2017
- 4. 2018
- 5. ?
- 6. 2019 50%
- 7. 200 “ ”
- 8.
- 9. 2018
- 10. “ ”
- 11.
- 12.
- 13.
- 14. 3
- 15. — 692472
- 16.
- 17.
- 18.
- 19.
- 20.

21. 2020

22.

23.

24. 2020 90%

25.

26.

1.

2. 2017

3. 2017

4. 2017

5.

1. 2017

2. “ ”

3.

4.

5.

6.

7. 51%

8.

9.

10. CO2 ACP

11. _____

12. “ ” — TwisTorr704FS

13. 19.41

14. 3.8

15. “ ”

-
16. VS.
17. 5000
18. 2017
- 1.
- 2.
3. 1 4
4. 2018 672 287 398
- 5.
6. “ ”
- 7.
- 8.
9. 2.43 16.21%
10. 2 6 (002158) 7.41
11. 3 27

1 2017

2017

HCFC

2017 3 11

“

HCFC ”

HCFC

77

HCFC

HCFCs 2018 20% 2020

45% 2020 35%

HCFC R22

R290

R290

2017 4 11

R290

/

2017 7 17

30

9 12

30

2016

“

”

R290

R22

2017 11 3

HCFC-22

HCFC-22

—— R290

2016

HFCs

2017 11 17

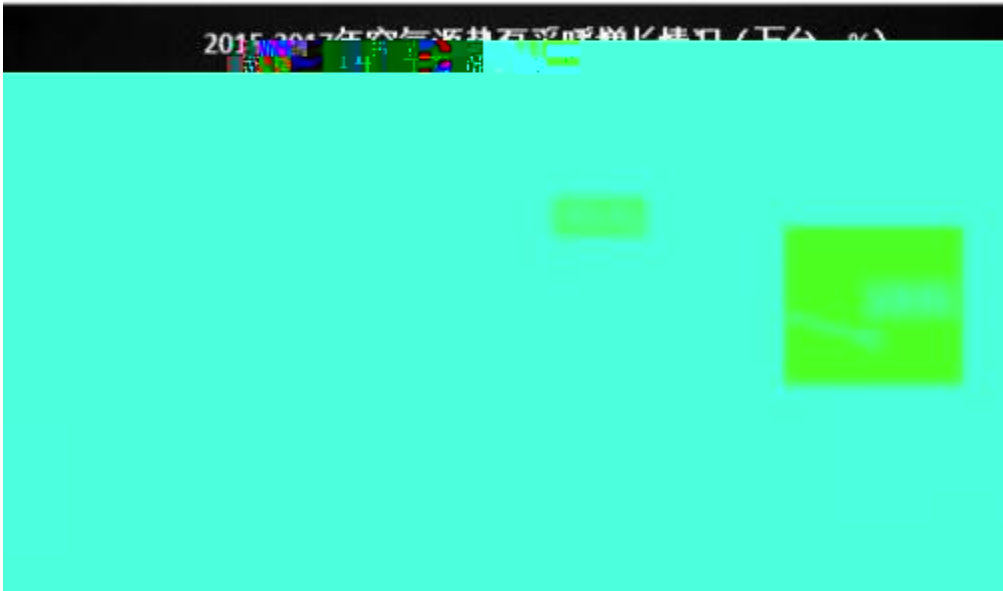
20

2019 1 1

<http://news.ehvacr.com/news/2018/0124/103563.html> Top↑

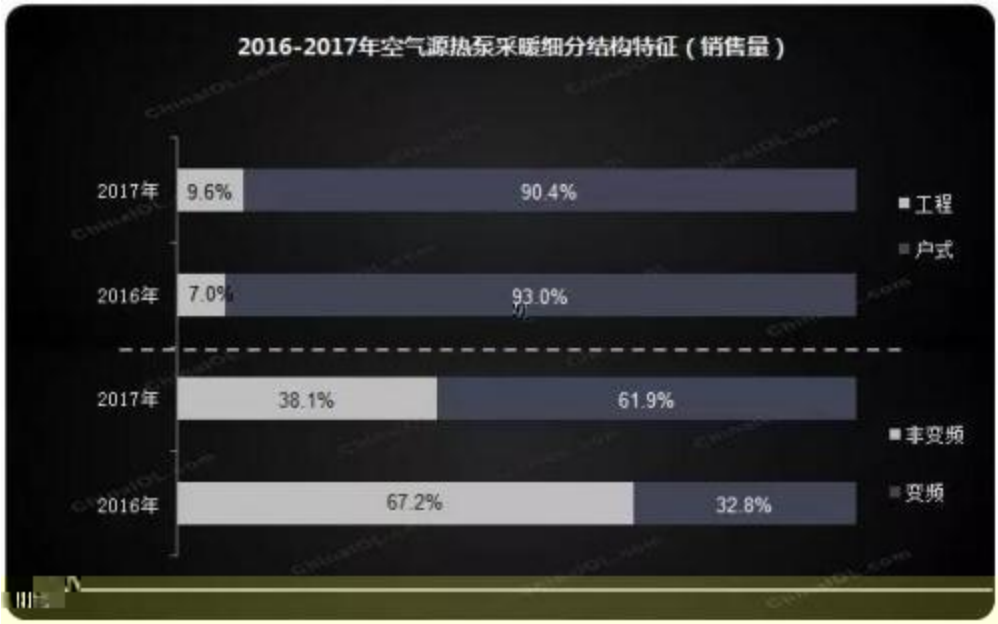
3 2017

2017 “ ”
“ ”



79.1 181.8% 2017 55.6 158.2%

			90%	
50.2	150.8%	60.9	146.8%	10
12		5.4	257.3%	18.2
435.6%				
2017		“ ”		
				2.6
11				
		9		
		2017	60.8%	
		“ ”	“ ”	
	2017	“ ”		
	2017			
			“ ”	
				“ ”
”			“ ”	



2.4

30.2

2.9

2.5

9.3

2.7

2

2.4

2017 “ ”

9

2017 4.5

5.6

5

1

“ ”



2018

2017-2021 2017 2021

2+26 5

2020 1000

50 “ ” 1 2018-2021 17.8

0.05

2+26

“ ”

2018

<http://news.ehvacr.com/news/2018/0131/103621.html> Top↑

4 2018

“ ” 2017

“ 2+26 ”

“ ”

“ ”

1 2017

	清洁取暖目标户数（万户）			清洁取暖完成情况（万户）		
	清洁取暖	煤改气	煤改电	清洁取暖	煤改气	煤改电
河南	93	30	50	115	12	103

80%

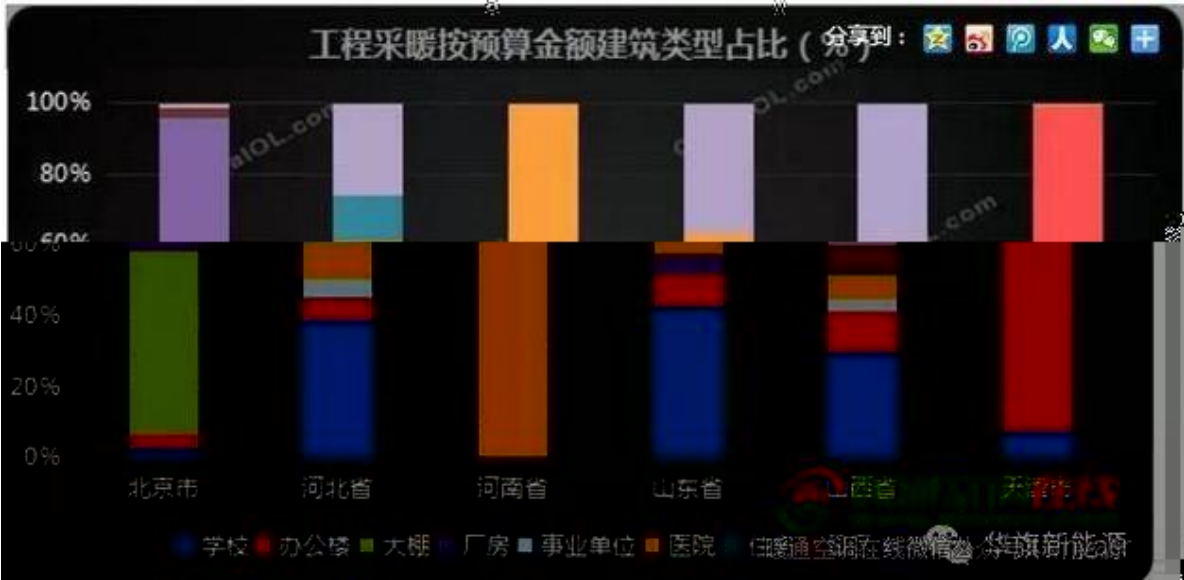
2 3

1 2

“ ”
“ ”

90%

94.6 20



2017

“ ”

2 2017 “ ”

省份	空气源热泵采纳率	电采暖采纳率
北京	82.90%	17.10%
天津	77.50%	22.50%
河北	32.30%	67.70%
山西	48.80%	51.20%
山东	10.60%	89.40%
河南	3.10%	96.80%

“ ”

50%

10%

“ ”

“ ”

“ ”

120

“ ”

50

“ ”

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6.942

3000 7400

2400

5000

“ ”

2.7

100

7

“ ”

2017

“ ”

1

6

“ ”

2020

65

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11.1

6.6

100

24

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5~10

"

(LNG)

"

"

2017—2021

‘ ’

22

1.5

5

2

Top↑

"

2017

310.8

25 “ ”

1 4 3080.8

520 85.7%

300

<http://news.ehvacr.com/news/2018/0117/103502.html> Top↑

8

“ ”

2020

200

25

PPP

<http://news.ehvacr.com/news/2018/0122/103536.html> Top↑

9 2018

“ ”

“ ”

“ ”

2018 CES

· ·

2018

2022 800

2022 800

15.37%

2018

2017 21.6ZB 1 ZB ,

40%

2020

40ZB

“

”

Bernd Leukert

(IT)

；

AI

2018

454

(2018-2022)

15.37%

805

2018

280

(2018-2022)

27.29%

2018

IT

Hadoop

IT

2018

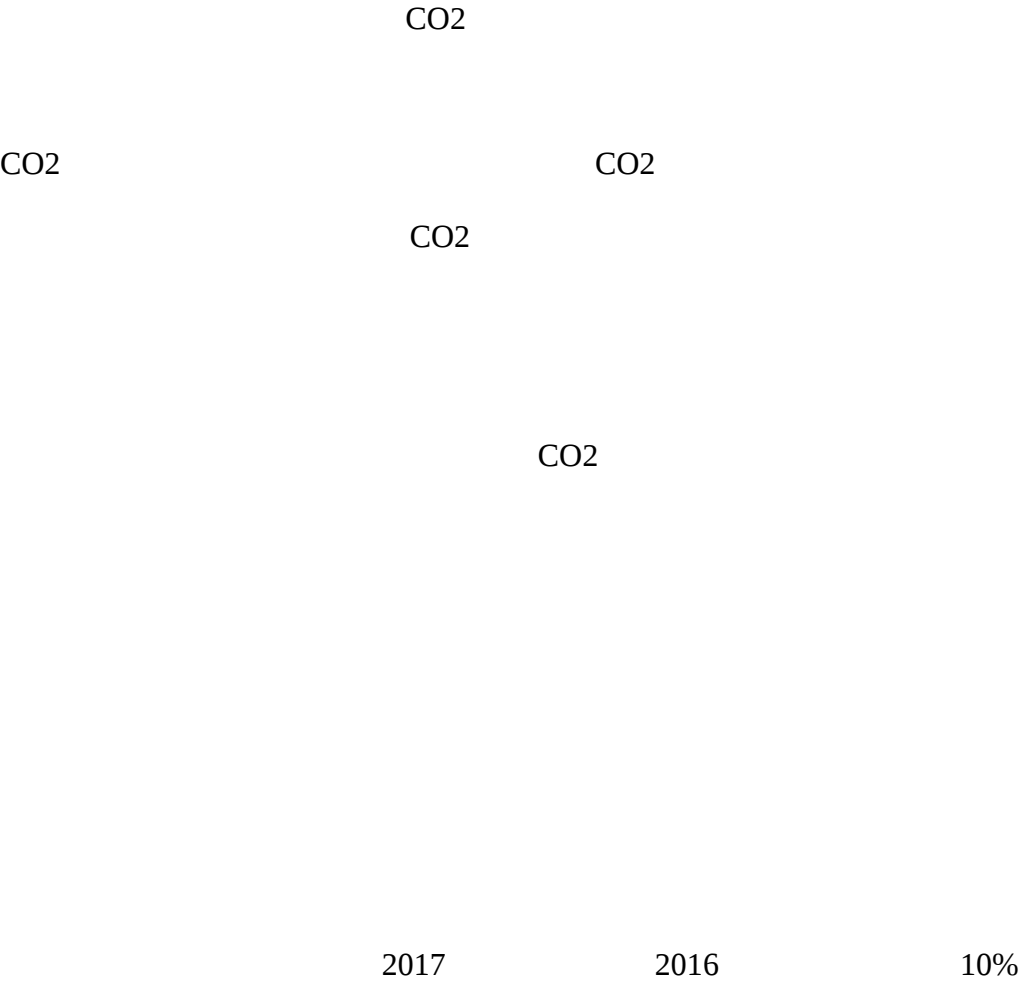
“ ”

NoSQL

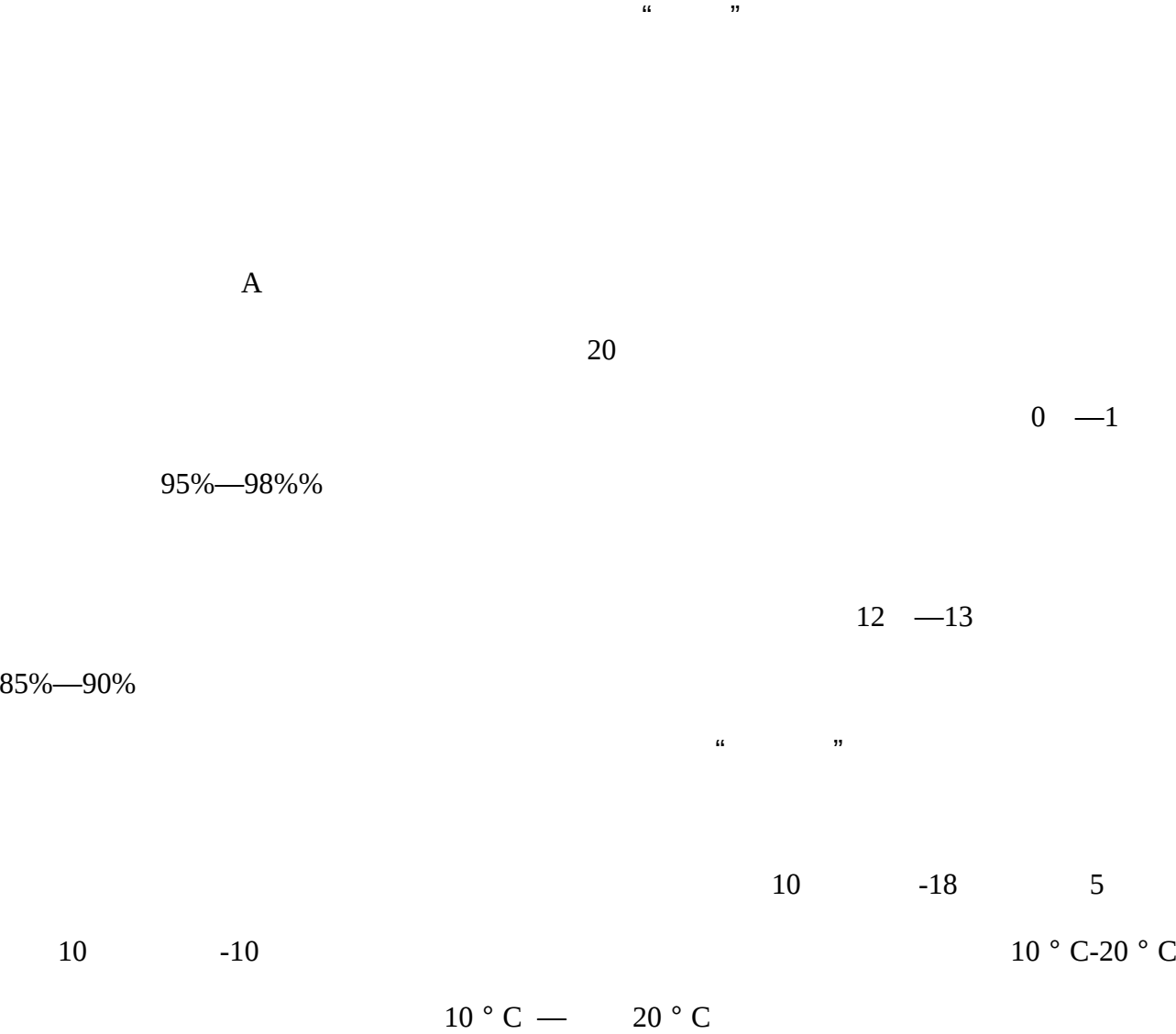
IT

“

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11



2

12

3 12

2017 4

“ HELO ” 3

“ ”

<http://news.ehvacr.com/news/2018/0223/103719.html> Top↑

12

5

5

4.5

10

“ ”

“ ” “ ”

10

1

2018

<http://news.ehvacr.com/news/2018/0209/103695.html> Top↑

,

“ 75KW 10

5
”

15%
“ ”

Top↑

692472

2018 1 23

“ ”

692472

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2018

“ ” “

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<http://www.ysjw.cn/news/show-2645.html> Top↑

12 31

2018 1 1

2018

2017 3 2018

1 1 2018 1 1 1 1

1997 37

3

1999 791

2017

2017 12 31 12 31 2018

6 30 6 30

2015 51 3

< > 2012 83

2018 7 1

2017

2017

2012

2017 2012

2017

2018 1 1

2015 51 1 2 3

<http://www.ysjw.cn/news/show-2656.html> Top↑

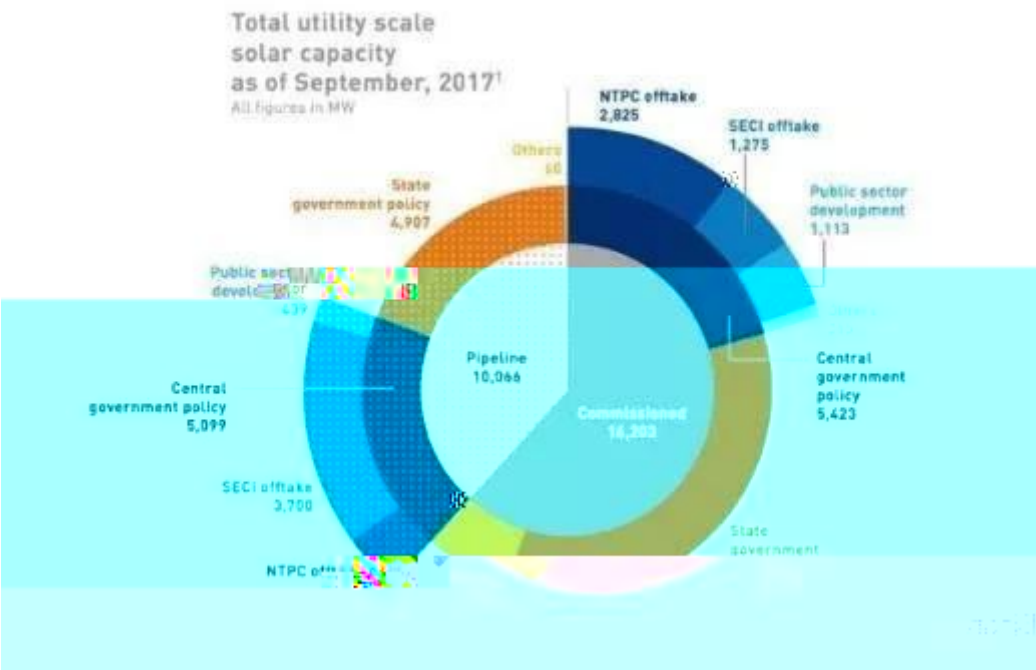
17

“ ”

“ ” “ ”

70

20GW



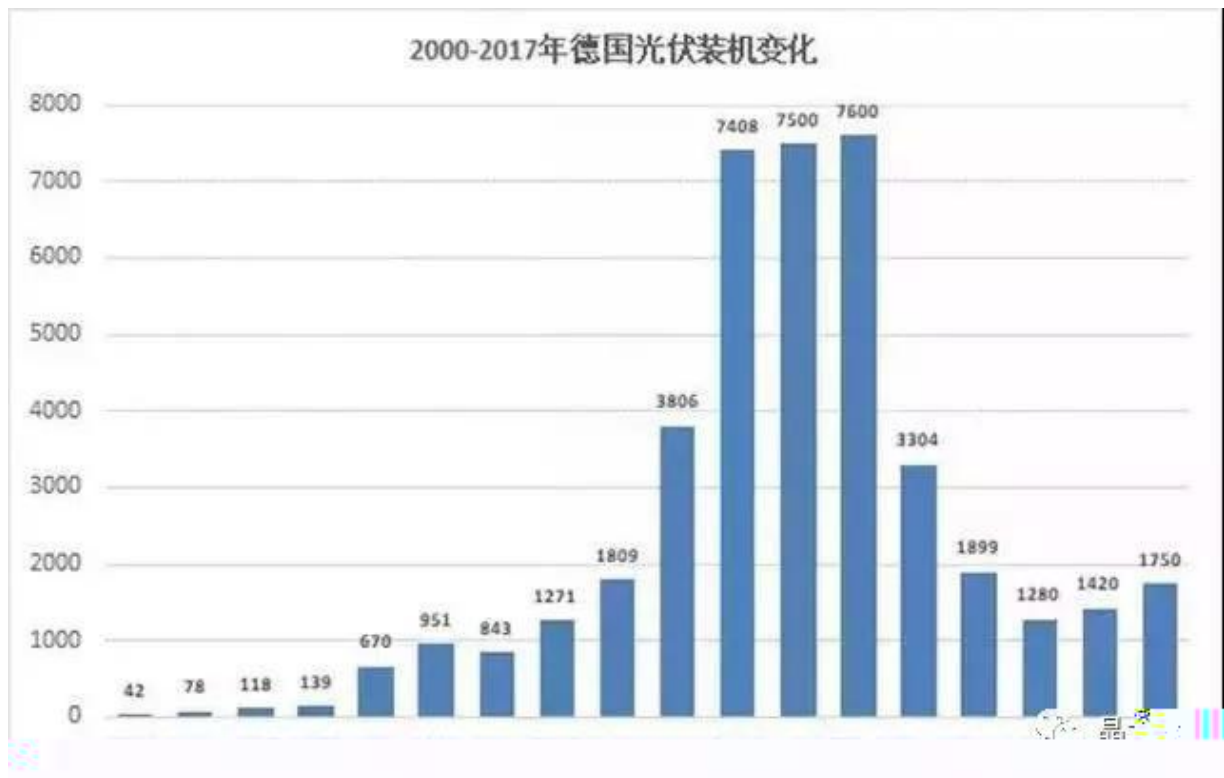
53GW

2018

2017

53

20



2016

700

2017

800

2017

1000

500



0 424

0 464

5

5500

20

Tesla Powerwall 2

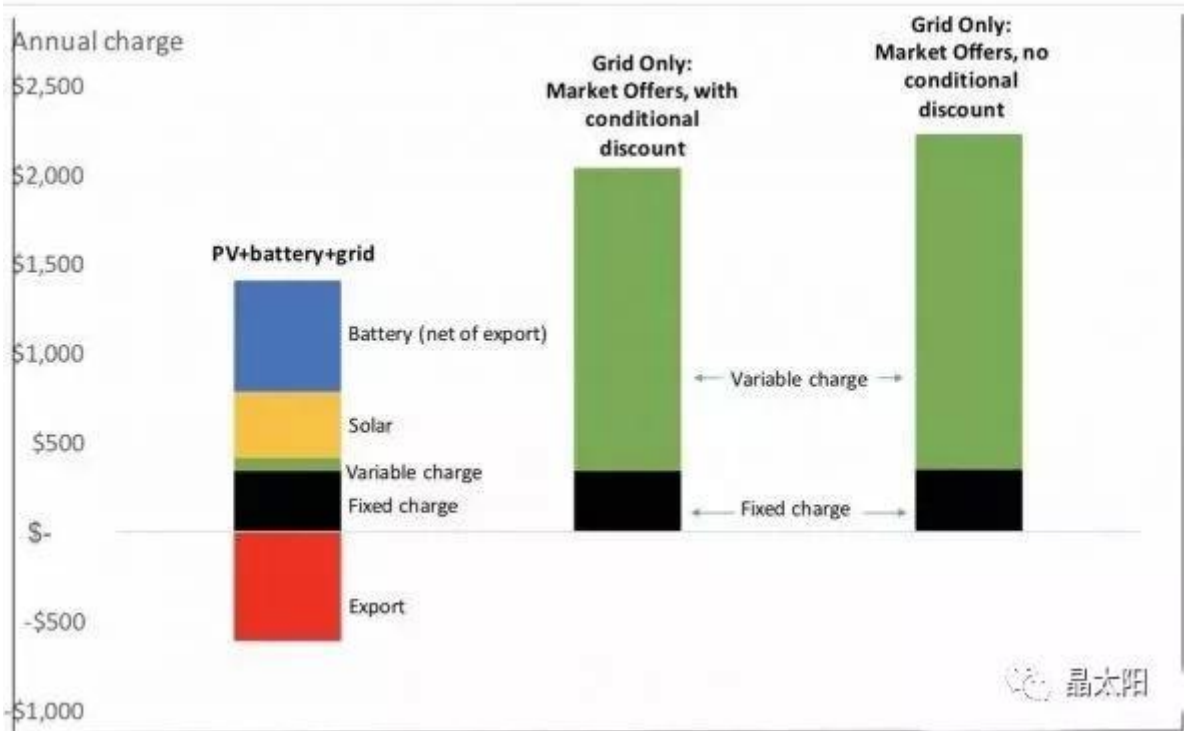
13 5

2018

11

075

0 16



“ ”

<http://solar.ofweek.com/2018-03/ART-8420-2600-30206872.html> Top↑

18

2017 6 “

” Jupiter Dhruv Sharma

33 45

“ ” Dhruv Sharma

25

2017 11 33

90 2016 4 0 53 10

0 34

2016

4 2017 6

Sharma

“ ”

<http://solar.ofweek.com/2018-03/ART-260006-8440-30207282.html> Top↑

19

2016

——2017

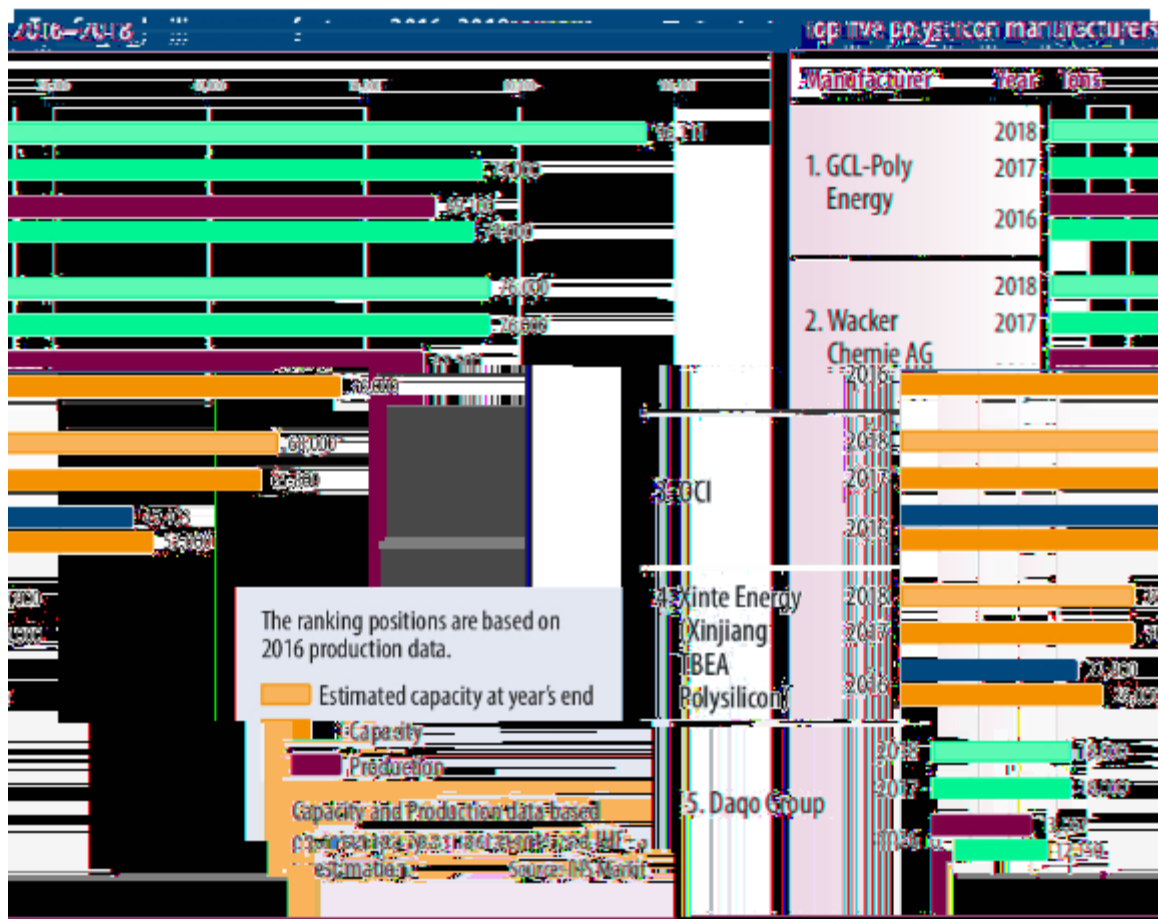
“ 2016 2017 6 30 FIT
” “ —— 7 12GW
”

2017

2016

2017

IHS Markit 2017 54
2016 2017



2016

OCI

Bernreuter Research

2016

23

2017

32

2018

45

“

” Bernreuter

“

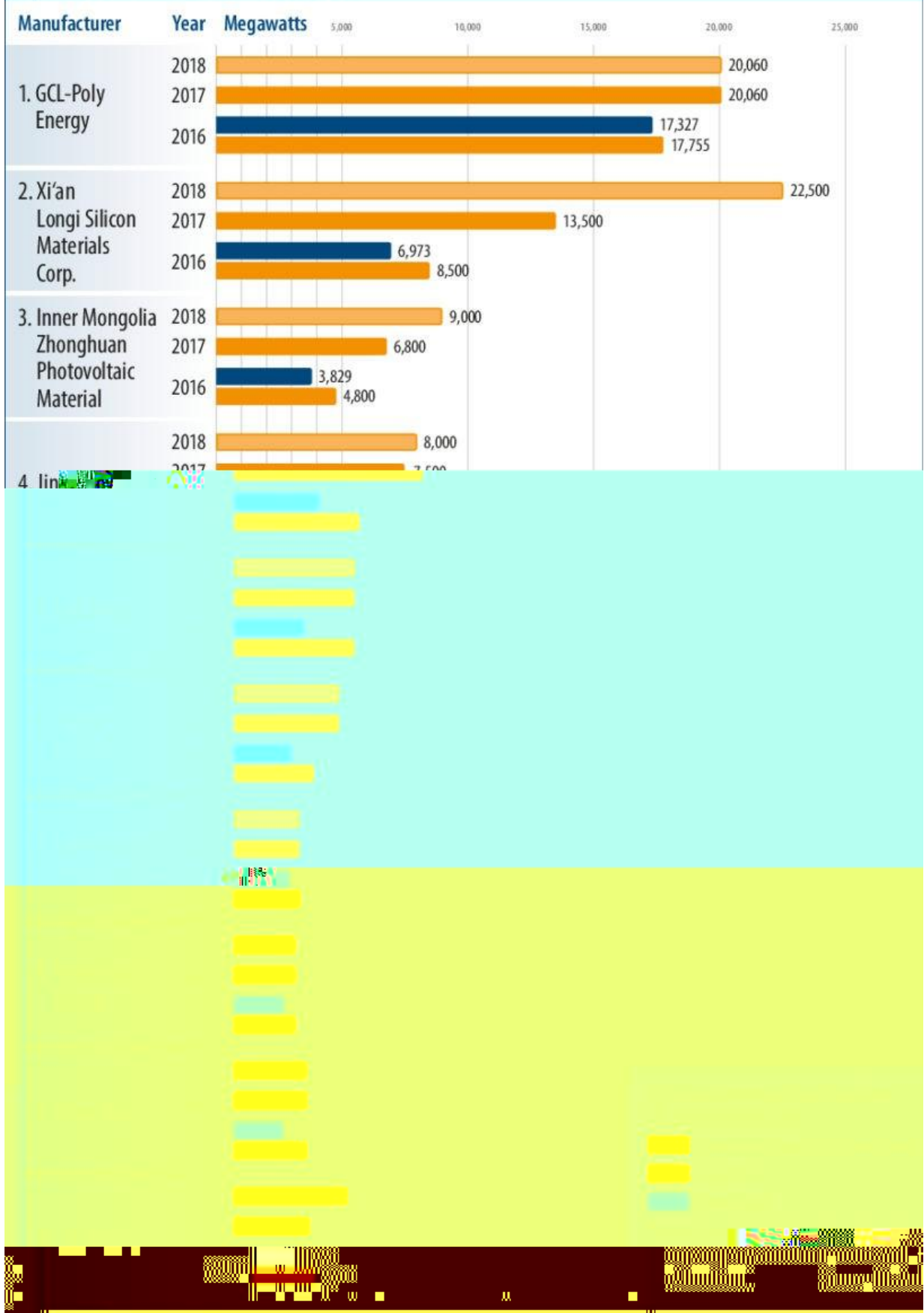
”

Bernreuter Research

2017 15 9 45

30 11

Top ten wafer manufacturers 2016–2018



2016

11

OCI

4 4

9 5

8 9

“

”

2020

45

Longi

Corrine Lin 2018

44 5 GW 73 GW 2018

95 105 40

2018

2018

2017

110



2020

45GW

300118

80

20

“

”

“

”

<http://solar.ofweek.com/2018-03/ART-260006-8470-30206116.html> Top↑

21 2020

4

2020

2020

600

90

“ 0 17 0 23
50 60 ”

<http://solar.ofweek.com/2018-03/ART-260006-8420-30206599.html> Top↑

22

20 “ ”

“ ”

3 20 GLENCORE

Ivan Glasenberg

“ ”



60

67

“

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”



2008

10

iPhone

1000

70

"

上海漢鐘精機股份有限公司

“ ”

<http://libattery.ofweek.com/2018-03/ART-36001-8440-30212452.html> Top↑

23

22

3

LG

60

“ ”

<http://libattery.ofweek.com/2018-03/ART-36008-8440-30212293.html> Top↑

24 2020 90%

20

“

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2020

90

<http://libattery.ofweek.com/2018-03/ART-36008-8470-30211867.html> Top↑

25

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2018 2

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2018 2 14

2018 2 27 “ 2017

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2007

2 11

18

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”

<http://nev.ofweek.com/2018-03/ART-71001-8420-30212132.html> Top↑

1

1

2008

2008 850 2017 3609.5598

325%

2

2006 2016 11 1.62 8.25

409% 2016 1 2014

19%

3

2016

1 1/5

4 “ ” “ ”

” “ ”

5

86%

6

71.8% 12.7%

10.5%

70.3% 21.6% 8.1%

69.4%, 29.7% 0.9%

7

“ ” “ ” “

” “ ” “ ” “

" " " " " "

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“ ” “ ” “ ”

“ ” “ ” “ ” “ ” “ ”

”	“	”	“	”	“	”	“
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” “ ” “ ”

8

30 1137

31%	753	384	30
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249 52 645 197

493

9

4200 1400

10

11

3.2-3.5 / /

2.2-2.8 / /

4-4.5 / /

3-3.5 / /

20%-30%

8%-10%

12

kwh 30-50kwh/m3/a

“ ”

13 CO2

CO2 150 450

12.46%

“ ” 15-20% 2020

5000

“ ”

<http://news.ehvacr.com/news/2018/0223/103720.html> Top↑

2 2017

2017

2017 24 2 24 7

[illegible]

“ ”

“ ”

2025

2018 2020

NB IOT

<http://solar.ofweek.com/2018-02/ART-260006-8420-30201305.html> Top↑

3 2017

2017

160

● 图1 近三年中国空气源热泵行业（国内销售）增长率对比



160

61%

“

” 2017

2017

“ ”

● 图 2 部分品牌内销情况示意图 (排名不分先后)



“

”



2017

2017

2017

2017

“ ”

“ ”

“ 2017 ”

“ ”

2018

2017-2018

“ ”

“ ”

2017

4

2017

2016 535.7% 2017 209.8%

2017 2016

2016 2017

2016 2017

PPP

3.1

“ ”

2016 / 2016 /

3:7 2017 3P/5P/6P

/ /

2016 2017

2016

2017

5

-35

“ ”

2018

<http://hp.hvacrhome.com/news/show.php?itemid=21908> Top↑

5

— —

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2035

10 15 2050

12 3

14 4

8800 10300

2050

2050

2030

28 7

36 3

2050

44 3

2030

15 4

21 7

2050

35 1

46 9

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2050

50

40

2030

2050

3 5

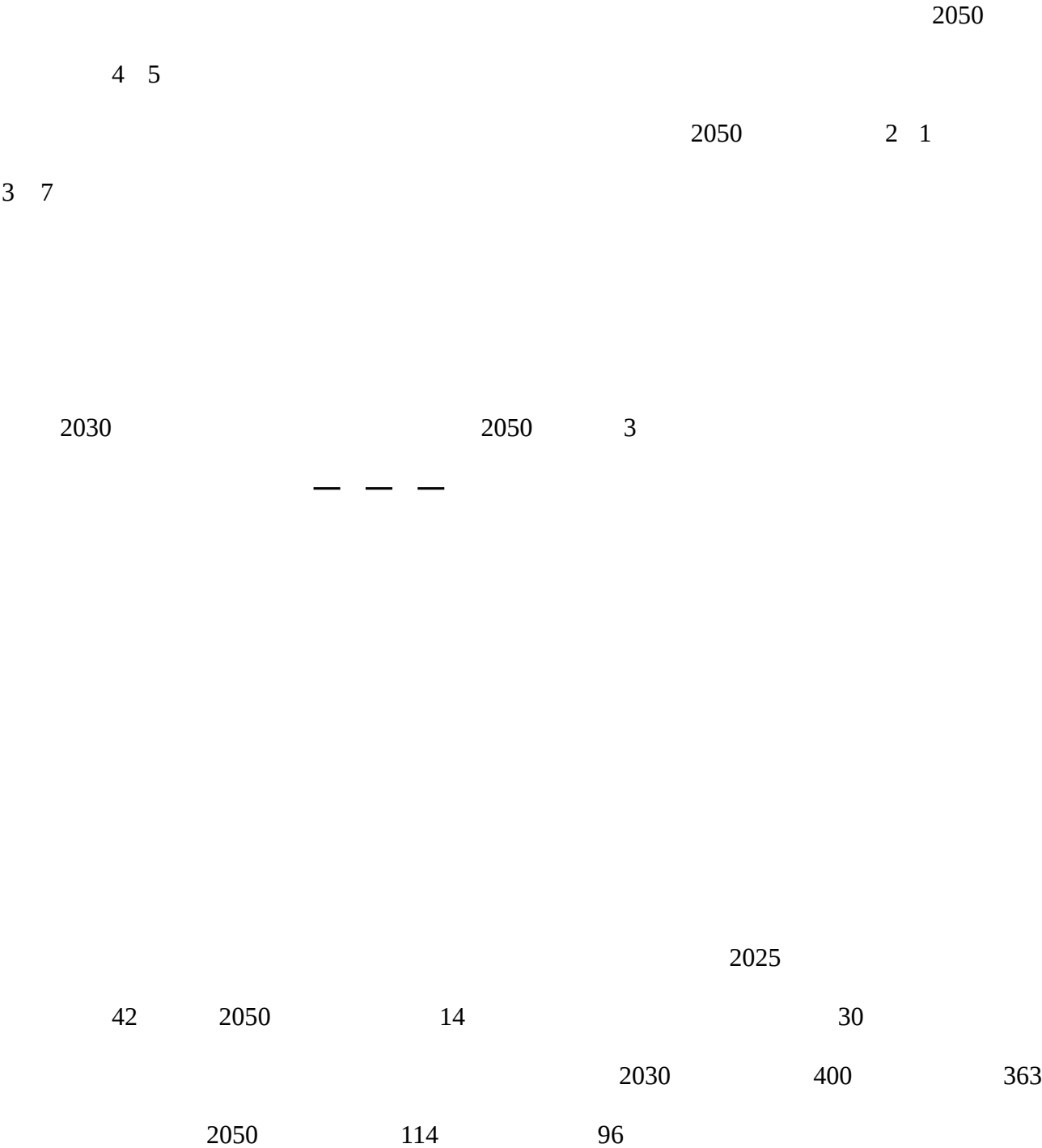
“

"

2030

2030 2050

2050



1

2017

2017 12 31 34

5021.7 , 33 868.9

34 21 62%

2017

69 19 27.5%

2017

2016

2017

AHRI

2004 2014 12 30 4

2017 12 5

10

5 17

97 9

	10		34.3		18
		71		1100	
	5				
					49.018km
	41	36	5	14	
2017			5	MDVS	
					IPLV C
	9.60	APF	5.30		
5					
	4	56	35		
					2017
	4				
		4		--MDVX	
		51		4000KW	

	7					7	2018
		MC					2000
							35.2km
	29		4		3		
2017			4				
			2000				4
				9	11		
							2017
		20					
	A		3		3		8
			20				2
	20	8.36		5	4	1	3
							800
	R1				26.27km	11	2017
		R1				R1	

MDVS

R1

“ L”

37.2

23 11 2018 12 59 35
2017 500 23

3 25.86 15
2014 12 23 2019
8.02km 5 1 1.566km
2017 3
900

2

41.6km 32
2017 2
3300

5
4 “ 44.1KM 34 1.32KM ”

2017

5

1600

2017

2017

60

650

300

50%

2017

<http://cac.chinaiol.com/s/0226/41192682.html> Top↑

2

“ ”

2017

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“ ”

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$$\vdots$$

() 1953

50

“ ”

http://ln.ifeng.com/a/20180315/6436468_0.shtml Top↑

3

3 13

(000651)

9

6 6

2 6

105

2014 3

2014 3 5 6 7 8

49	131.53
----	--------

16.16

犯罪人	犯罪类型	一审判决（有期徒刑+被没收金额）	二审判决
方某	职务侵占罪	7年+15万	减刑半年
陈某	职务侵占罪	4年半+10万	维持
莫某（原格力电器职员）	职务侵占罪	4年半+10万	减刑半年
田某（原格力电器职员）	职务侵占罪	5年半+8万	减刑半年
吴某（原格力电器职员）	职务侵占罪	5年半+8万	减刑半年
黄某（原格力电器职员）	职务侵占罪	5年半+8万	减刑半年
曾某（原格力电器职员）	职务侵占罪	4年半+5万	减刑半年
李某（原格力电器职员）	职务侵占罪	4年+3万	减刑9个月
王某（原格力电器职员）	职务侵占罪	4年+5万	减刑半年
赵某（原格力电器职员）	职务侵占罪	4年+5万	减刑半年
刘某（原格力电器职员）	职务侵占罪	4年+5万	减刑半年
周某（原格力电器职员）	职务侵占罪	4年+5万	减刑半年
孙某（原格力电器职员）	职务侵占罪	3年+3万	减刑半年
李某、王某、赵某、刘某、周某、孙某	3年（附条件缓刑4年）+10万	维持	陈某某
李某、王某、赵某、刘某、周某、孙某	3年（附条件缓刑4年）	维持	陈某某
合		被告人曾某等人合计退赃款人民币16.16万元，由扣押机关返还珠海格力电器股份有限公司	维持

Top↑

4

2018 2

—

9000KW

2017 4 1

10 9

9.96

24.24

8

60

<http://cac.chinaiol.com/s/0227/52192725.html> Top↑

5

2 22

2018 3 7

7 51%

51%

3:3

2018 01 01

22

45

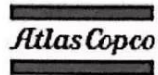
56

“

“

<http://www.ysjw.cn/news/show-2554.html> Top↑

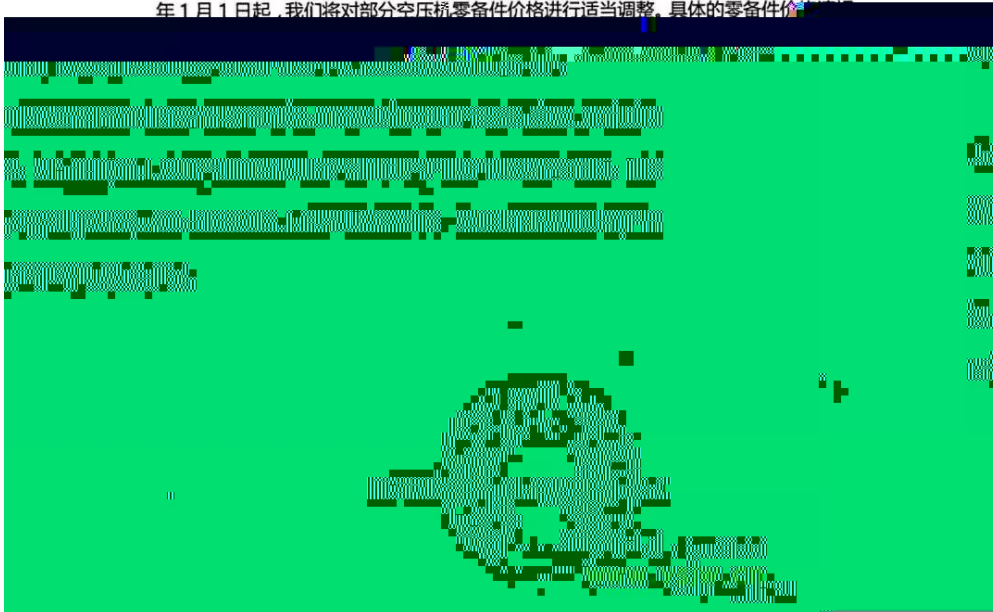
8



阿特拉斯·科普柯零备件价格调整通知

尊敬的阿特拉斯·科普柯空压机用户：

非常感谢您长期以来对我公司的支持与信任！2017 年至今，包括原油、煤炭，金属等在内的大宗工业原材料等，同比涨幅都很高，且有持续上涨势头。国内企业生存环境承受了原材料价格上涨、劳动力价格上升、运输成本增加等多重挤压，我们公司也不例外。为了保证产品质量，更好的服务客户，基于对市场定价合理性的分析。从 2018 年 1 月 1 日起，我们将对部分空压机零备件价格进行适当调整。具体的零备件价



<http://www.ysjw.cn/news/show-2609.html> Top↑

9

SIS ESERJ

2016 7

—

<http://www.ysjw.cn/news/show-2621.html> Top↑

12 “ ” TwisTorr704FS

TwisTorr 704FS

“ ” TwisTorr 704 FS

0.0001Pa 0.00001Pa

0.00000001Pa

GC/MS LC/MS ICP/MS TOF...

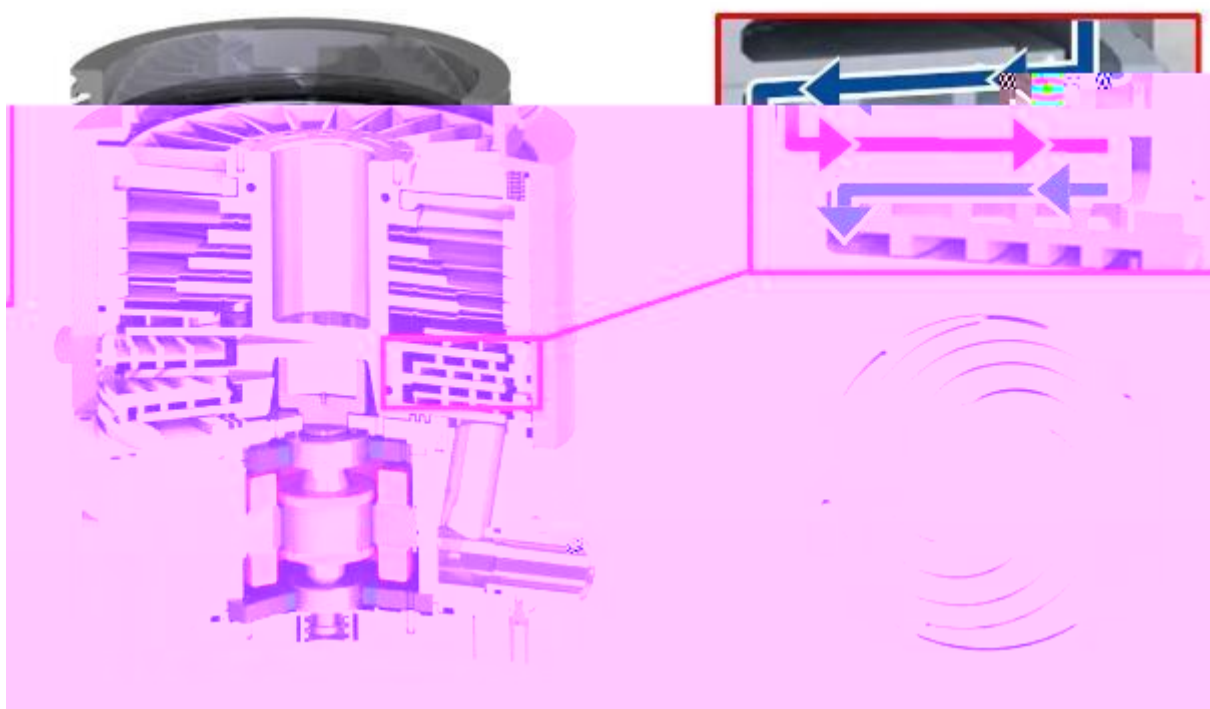
SEM TEM

FIB



“ ” “ ”

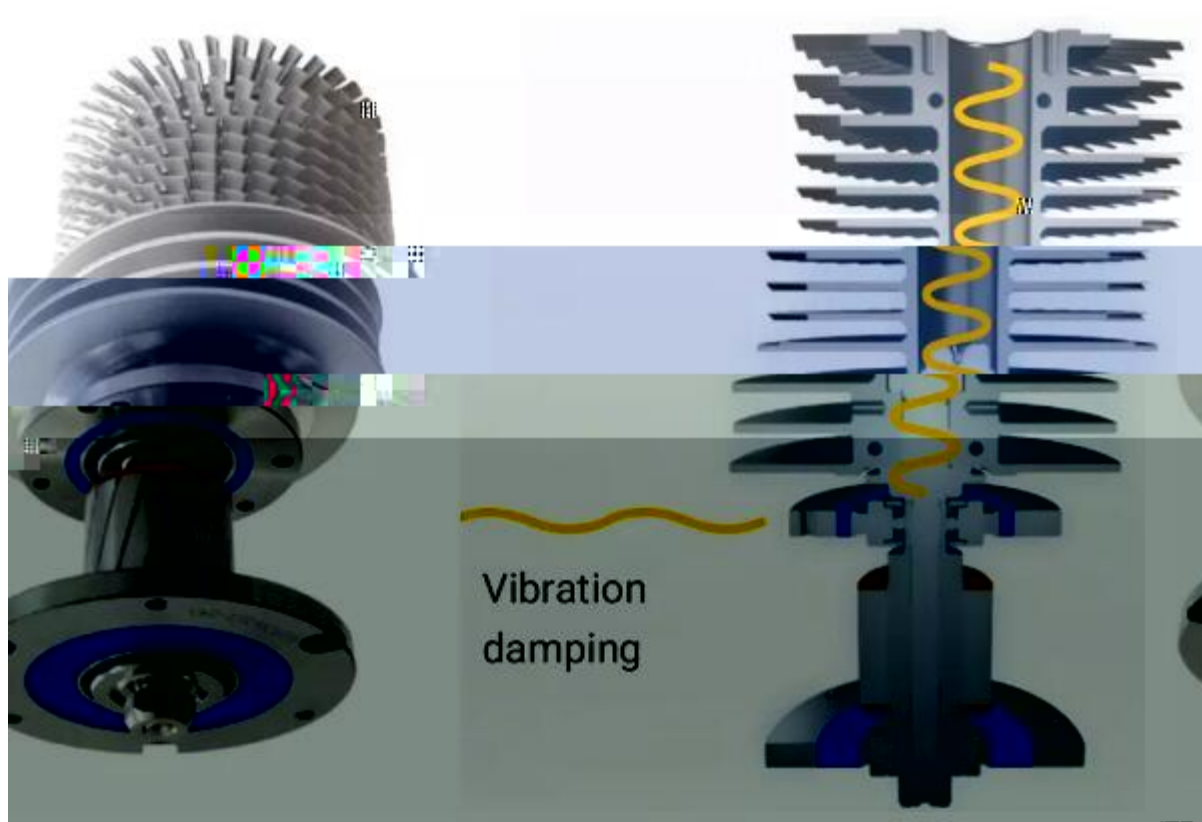
“ ” No.1 TwisTorr



TwisTorr

“ ” No.2 AFS

AFS



“ ” No.3

TwisTorr 704 FS

“ ” No.4

“3D”

2D

704FS

3D

704FS 804FS 404FS 84FS 304FS



<http://www.chinesevacuum.com/article-399-1.html> Top↑

13	19.41				
2	5				
		1GW	1GW	19	41
		“	”		
		LERRI SOLAR TECHNOLOGY	INDIA	PRIVATE LIMITED	
		2019	8		2019
		2020	1		

5GW 15 58
2017
45 2017 33 36
113 133
5 “ ”
PERC
2018 28GW 2019 36GW 2020
45GW 2017 6 5GW 5GW
10GW “ ”

<http://solar.ofweek.com/2018-02/ART-260008-8460-30197764.html> Top↑

14

3.8

2018

—— 37935

20

20 7

2 1 “

”

6

1200 2017

2018

“

.....”

2017 3

173 “ ”

“ ”

1600

3000 40

3000

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”

“ ”

2016 10 17

70

250

2017 6 30

548

798

“

"

492

2018 6 30

1290

“

"

<http://solar.ofweek.com/2018-02/ART-260009-8400-30200121.html> Top↑

Top↑

15

“

"

“

"

2025

208

53

22

4

EHS

“

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”

CEO

“

”

<http://solar.ofweek.com/2018-02/ART-260006-8460-30204443.html> Top↑

16

VS.

2017

4

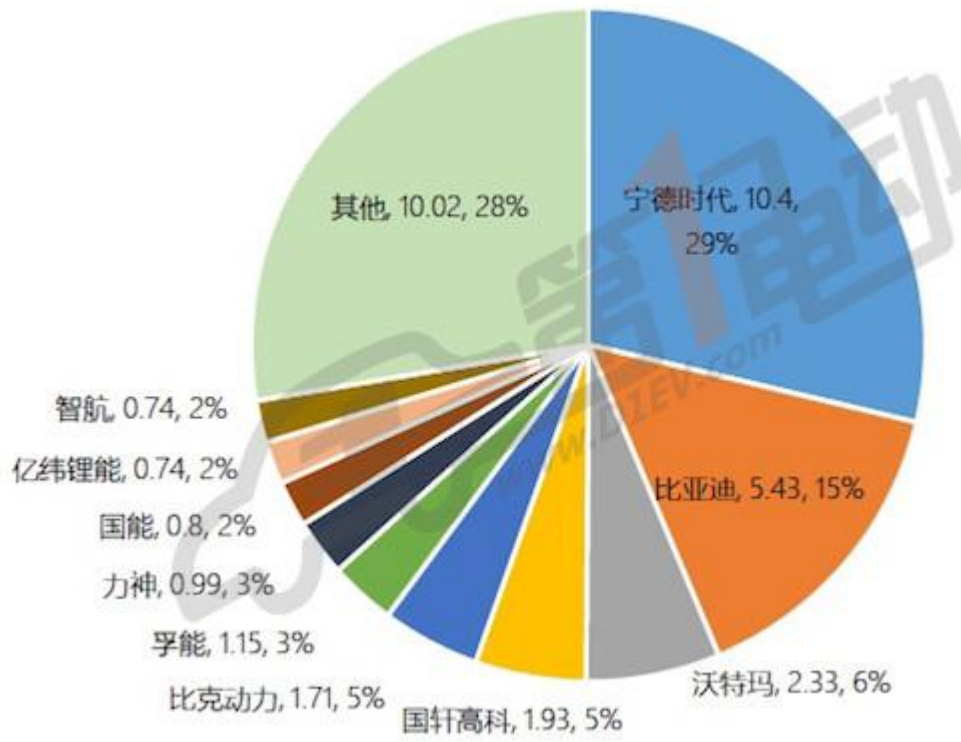
“

”

4

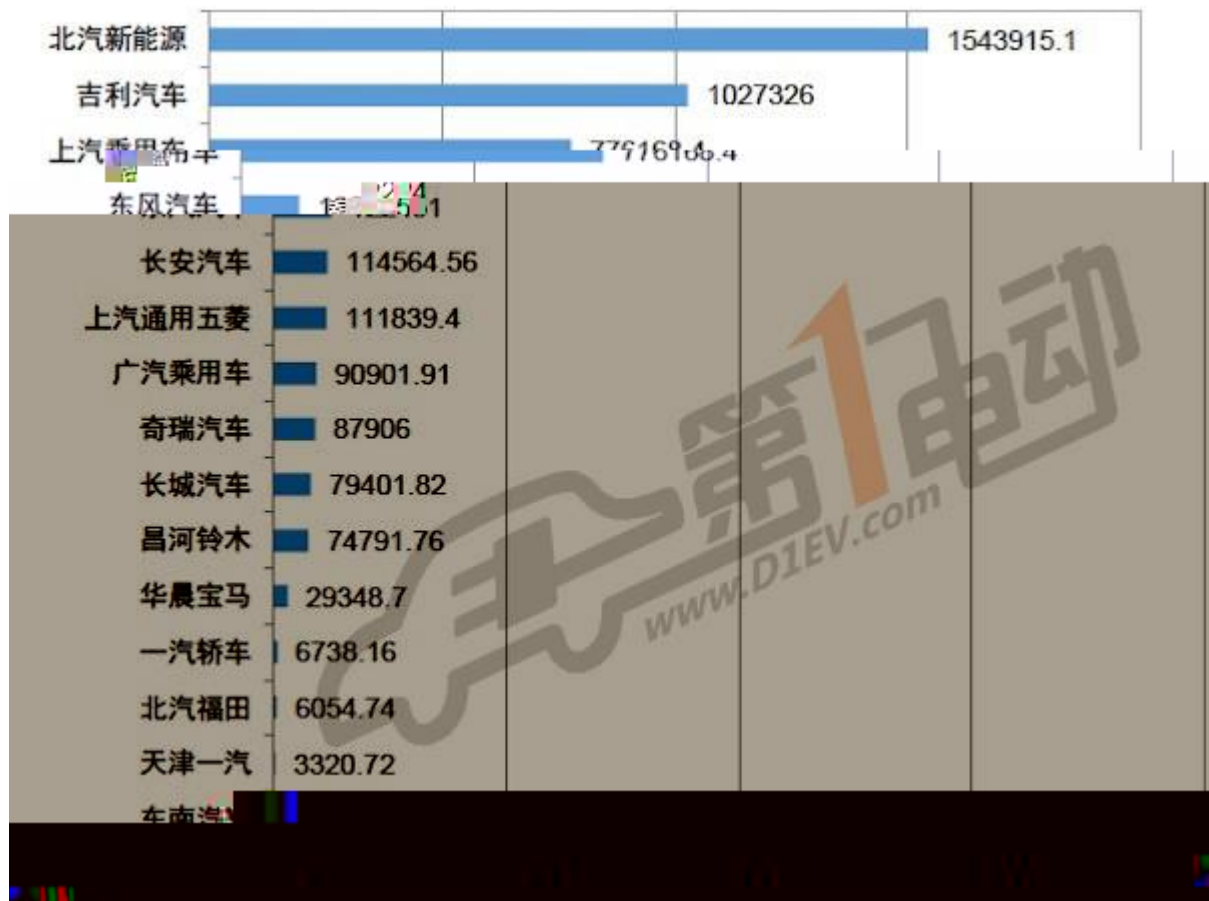
2017

44

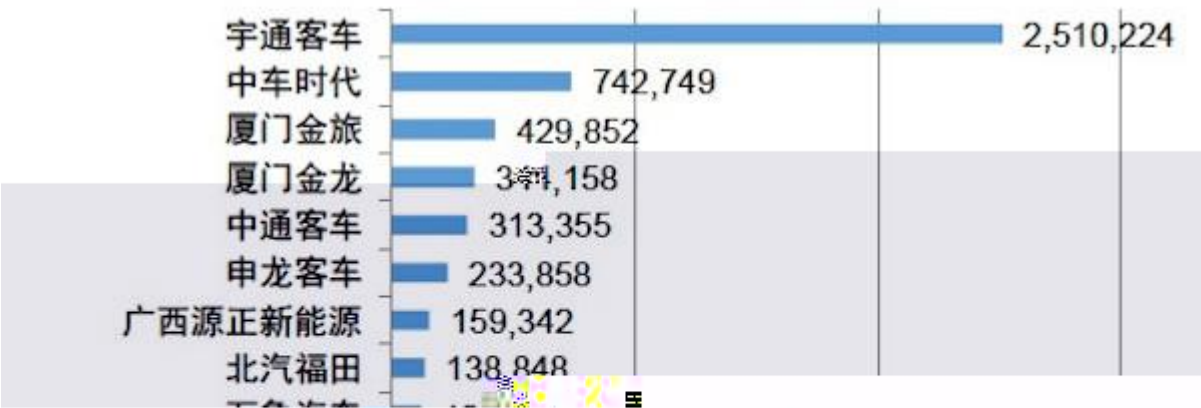


2017

GWh



2017

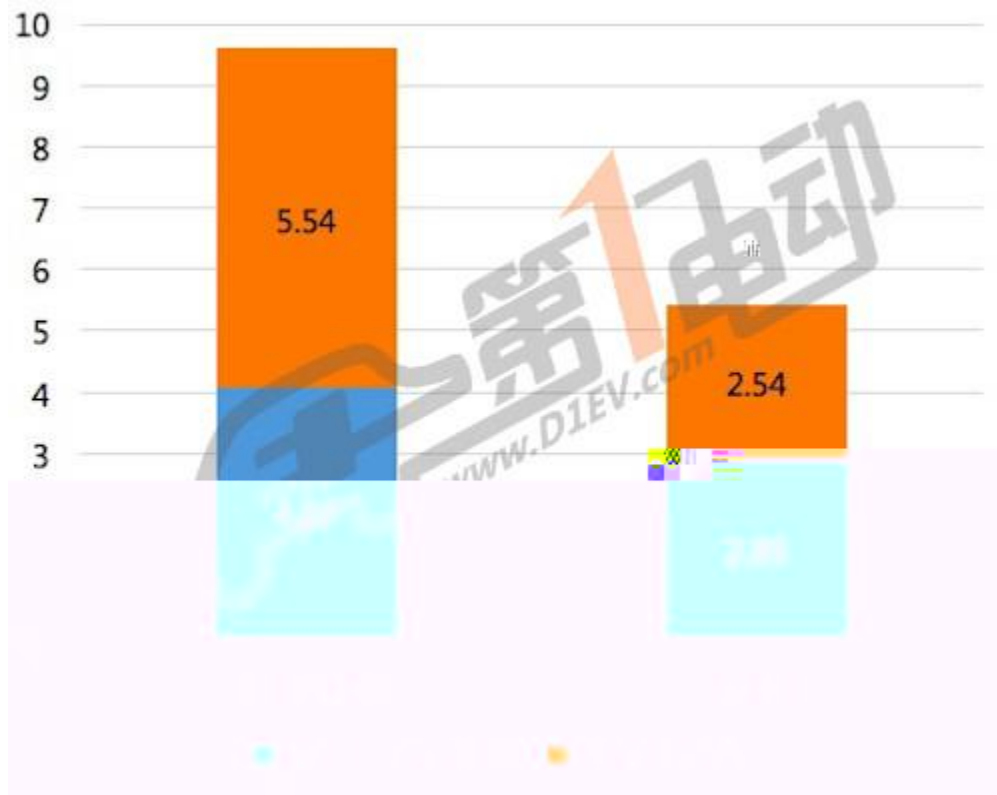


2017

2017

“ “

2017



2017

2017

17 09GWh

24GWh

41 09 GWh

“

”

89 2

36

2020

16GWh

9GWh

7GWh

18GWh

2019

34GWh

9GWh

25GWh

2019

23

3

2017

8GWh

2017

190 210Wh kg

2018

210 230Wh kg

2018

220Wh

kg

260Wh kg

300Wh kg

2025

GGII

2017

2017

20

25

1 8 1 9 Wh

1 45 1 55

Wh

1 7 1 8 Wh

1 4 1 5

Wh

2017

1 41 Wh

0 91 Wh 35 25

"

CEO

“

2019

9:

2019

2018

2017

2017

140

<http://libattery.ofweek.com/2018-03/ART-36001-8420-30212396.html> Top↑

Top↑

17

5000

3 1

2 28

5000

66

22

5000 50

<http://libattery.ofweek.com/2018-03/ART-36002-8460-30205547.html> Top↑

18 2017

2 26 2017

2017

单位：亿元

企业名称	营业收入	同比增幅	净利润	同比增幅
赢合科技	15.91	87.13%	2.19	76.64%
金银河	4.89	67.36%	0.47	8.13%
先导智能	21.77	101.75%	5.38	84.93%
星云股份	3.09	36.45%	0.67	31.14%

2017

2017

2017

100

2017

2017

<http://libattery.ofweek.com/2018-02/ART-36005-8420-30204434.html> Top↑

1

2018-01-03

2

12

Top↑

2

2018-01-03

60

2017	IPO	77.87%			“ ”	2017
		488		380	IPO	77.87%
				2018	“ ”	
“ ”		2018			2017	438
A	A					

IPO				“ ”			
IPO	“	”			2016	2015	2014
IPO	91.14%	92.28%	89.34%	2017	IPO		79.33%
				“			
				”			
				60			
				2			
				3450			
				200			
				8			
				3			
				2			
				Top↑			
				3			
				1			
				4			
				2018-01-04			
				8			

4	2018	672	287	398
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1 5

2018

1483

672

287

398

7

119

2018

2017 450

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86)

2018

2018

2017 12 29

2018

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2020

- -

PPP

http://www.cs.com.cn/sylm/jsbd/201801/t20180108_5658461.html

Top↑

11%	14				(11.83 +0.34%,)
2		(4.23 +1.20%,)			(6.75 -0.15%,)
		(14.11 +0.28%,)	(8.20 +2.76%,)		(6.32 -0.63%,)
	20%				(14.77 +1.79%,)
	(5.77 +0.17%,)				10%
				2017	
		0.79		2014.63%	
	(2.91 -0.34%,)	2017		2017	
				(9.95 -0.90%,)	
4					
				(19.69 -0.56%,)	2017
2019	20	27	37	2.8	4.0
5.6		0.39	0.56	0.79	
2017		39	41	15.2	16 “ ”
Top↑					

7

2018-01-24

	1	23
2018	8	2

“ ”

2018

800

2100

1000

Top↑

8

2018-01-28

1 23

26

2017

“ ” “

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2018

2017

“

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2018

2017

26

76.2%

96.54% “ ” 46 “ ” 45 “ ” 25 93.85%

2017

“ ” “

”

[Top↑](#)

	10.64	3	31.92
0.0057%	12		
	10.67	1.50	16.01
0.0028%	37.85		
	10.56	1.04	10.98
0.0020%	4.04		
	10.82	500	5410
0.0001%	2500		

变动日期	代码	简称	
2-6	002158	汉钟精机	
变动人姓名	变动股数(股)	变动平均价格	变动后持股(股)
曾文章	7.41万	10.79	28.03万
变动比例(%)	董监高人员姓名	职务	变动人与董监高的关系
0.0140	曾文章	董事	本人
变动人姓名	变动股数(股)	变动平均价格	变动后持股(股)
廖哲男	7万	10.91	49.30万
变动比例(%)	董监高人员姓名	职务	变动人与董监高的关系
0.0132	廖哲男	董事	本人
变动人姓名	变动股数(股)	变动平均价格	变动后持股(股)
柯永昌	3万	10.64	12万
变动比例(%)	董监高人员姓名	职务	变动人与董监高的关系
0.0057	柯永昌	董事、高管	本人

变动人姓名	变动股数(股)	变动平均价格	变动后持股(股)
余昱暄	1.50万	10.67	37.85万
本人	0.0028	余昱暄	董事
变动后持股(股)	变动人姓名	变动股数(股)	变动平均价格
4.04万	邱玉英	1.04万	10.56
变动人与董监高的关系	变动比例(%)	董监高人员姓名	职务
本人	0.0020	邱玉英	董秘、高管
变动后持股(股)	变动人姓名	变动股数(股)	变动平均价格
2500	吴兰	500	10.82
证券事务代表	本人	0.0001	吴兰

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11

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27

2018-02-09

A

2017

27

27

7

27

2017

1 29

27 1 29

6.81 (31.67 -2.22%,) 34183.39

(7.35 -2.78%,) 6162.81 (6.45 +0.62%,) 5573.53

(11.60 +2.11%,) 5340.04 (13.94 +2.12%,) 3763.90

	(9.80 +0.20%,)	3089.24	(11.45 +1.06%,)	1894.91
	(11.39 +1.42%,)	1487.59	(7.06 +0.28%,)	1333.54
	(6.07 -0.33%,)	1005.85		
1000				
			(14.30 +1.85%,)	1%
1.0648%	0.9852%	0.8481%	0.5047%	
	0.5%			
4				
	27	9	2017	
50%	328.00%	A(5.58 +3.33%,)	314.33%	133.00%
	100.00%	4	2017	
		27	24	2017
	A 78.00		40.64	36.00
	19.58	13.00	5	2017
10		6		(25.29 +0.44%,
	) 8.97	7.46	(7.83 +0.26%,)	7.42
	(11.22 +1.72%,)	6.90	6.40	(8.87 +1.49%,)
6.18				
				27
	27.46		12.18	15.12
ST	(5.58 +2.01%,)	15.27	15.41	15.51
	16.93	A		
				15.12

“ ”

15%

“ ” “ ”

19

8

2

23.48

31.67

)

997

50%

2.97

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