

- 1.
- 2. 2020 142GW
- 3.
- 4. 2020 24GW
- 5. 20
- 6. 45
- 7. 2020 3 10
- 8. 2020 4

- 1.
- 2.
- 3. HIT PERC
- 4. 1 } 15

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10. Oversight 2

11. |2019

12.

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2. 2019

3. 22.49%

4. 2 300-400MW

5. PHEIC

6.

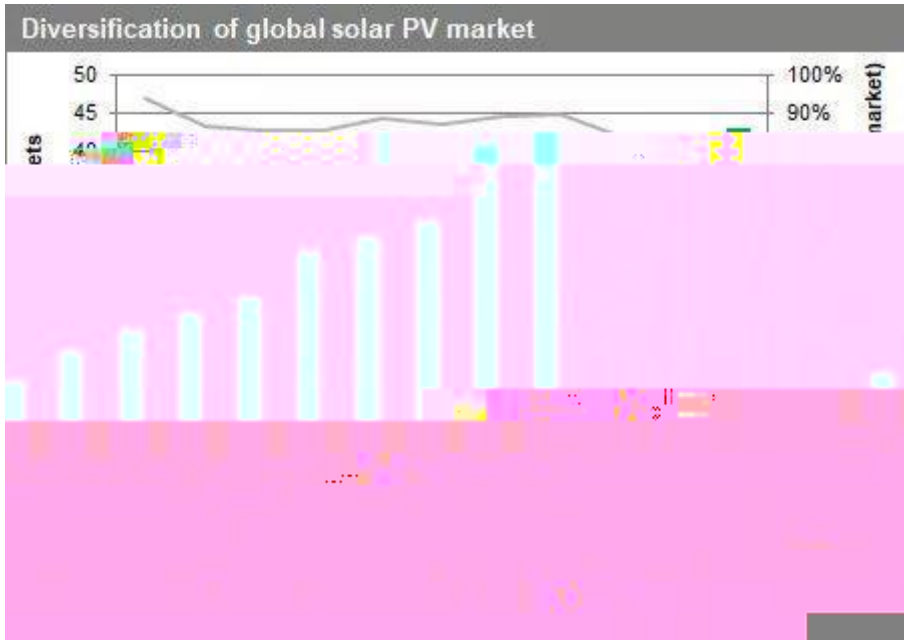
7.

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1.

2020-01-08

1 6 , , ( )  
2019 12 31 1  
3  
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1 2  
( ) 50 /



10 2010 10GW

1GW 2020

142GW 1GW 43 2010 7

IHS Markit 2020 IHS Markit

53

2010

2020

2010 94 73

IHS Markit 2020

2020

2017 50GW

2020

45

2020

<https://solar.ofweek.com/2020-01/ART-8100-2600-30424758.html> Top

**3.**

2020-01-20

1 15

12 15

2019 9 1

128                      2017    251    2021

2.    6.1

3.

2022    2025

4.

5.

2000

14

4

2000

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<http://www.mofcom.gov.cn/article/ae/ai/202001/20200102930845.shtml>

**4. 2020 24GW**

2020-01-18

EIA 13 4 AC  
5 1 AC 18 5 GW AC DC  
AC 1 3 1 2020 24 GW DC  
2016 EIA 25 9 GW DC  
2006  
18 5  
2016 11 2 AC 2017  
2020 2021 PV 5 9 GW AC  
13 4 GW AC  
EIA 3 6 GW  
AC 5 GW AC  
S P Global Market Intelligence  
12 AC

Mac Mackenzie

2020

**5. 20**

2020-02-13

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17.

18.

19.

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<http://news.51hvac.com/news/2020/0213/108230.html>      Top

**6.**                      **45**

2020-02-17

8

6. 45

45. 15

370

113

14

31

253

17 31.5 /

3750

6035

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331

HYDrone-1800 2016 270

2018

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2019

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2019 36

2019

2019

2737

79.2%

6000

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4000

5.9%

2019 3

2025

2030 900

2019 10

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2040

40%

82.5

1.2

2019 11

(FCHEA)

2025

20

12.5

1180

1300

2030

530

7100

500

2020 1

4A

21

T3

2019

2020

2019

1724

6

5000

2019

NEXO

87

4818

100%

1 12

2030

1000

1

50%

2012

50%

Nexo

— Mirai

“ ”

Nexo

Nexo

1015

Mirai

1 3

2019

2020



6620

10

500

-

10

5

2018

63

1158

969

<https://solar.ofweek.com/2020-02/ART-260003-8130-30428043.html>

Top

## 8. 2020

4

2020-02-17

2020

GW

2019

114-130GW

121GW

2020

121-152GW

2021

100%

2019 1-12

51.91GW

23.41

5.04

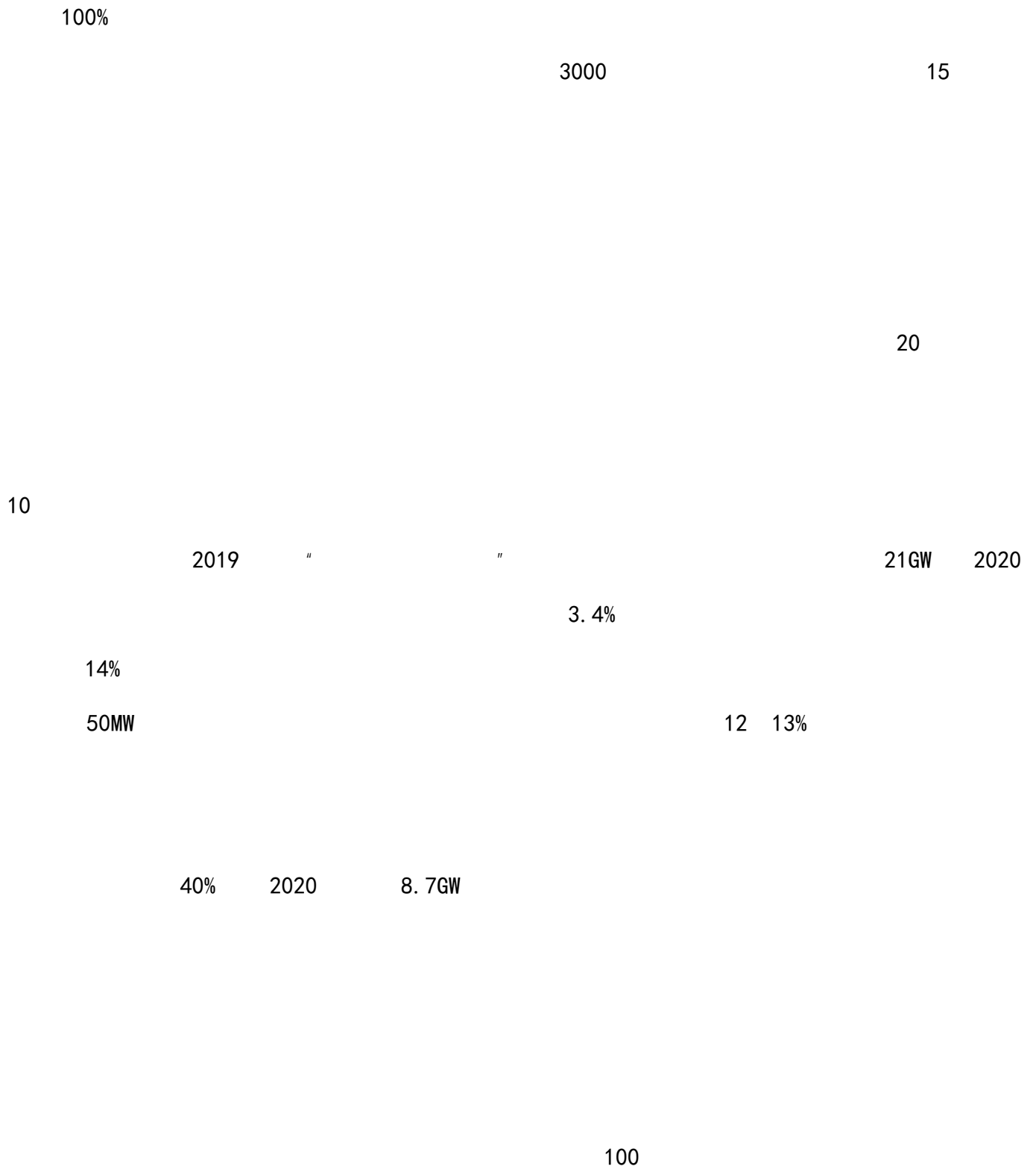
2.93

1.08

2019

300

40



EVA

2

( )

2020

2019

4 30

2020 2.2GW

<https://solar.ofweek.com/2020-02/ART-260002-8420-30427872.html> Top

1.

2020-01-01

5%~10%

↑



7.3~7.9MPa

305.4K

14.9MPa

1.9

12~17kg/s

70~80%

SANDIA

100kW

" " \_ \_ \_

<http://www.compressor.cn/News/gyjj/2020/0101/114032.html>Top

U35

136  
782 469 57 372  
62 314 17 96  
60  
42 LED  
ICT

[http://www.semi.org.cn/news/news\\_show.aspx?ID=58331&classid=117](http://www.semi.org.cn/news/news_show.aspx?ID=58331&classid=117) Top

**3. HIT PERC**

2020-01-09

1 7 ---  
HIT 10 HIT  
HIT

1 8 HIT

HIT

HIT

HIT

PERC

Topcon

HIT

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2020

HIT

PECVD    PECVD

HIT    PECVD

HIT

HIT

HIT

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HJT

PECVD

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HIT

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24 5GW

1 07GW

HIT

2020

8

2023

2025

10

HIT

PERC

PERC

2015

PERC

PERC

PERC

2017

2018

2019

PERC

22 5

23

2020

PERC

23

PERC 26  
PERC 24  
PERC 2020 PERC  
150GW  
3  
HIT

[https://solar.ofweek.com/2020-01/ART-260018-8500-30424751\\_2.html](https://solar.ofweek.com/2020-01/ART-260018-8500-30424751_2.html) Top

**4. 1 2020**

2020-02-05  
2020  
1  
1 2020  
15 10  
27.8GW 5 2020  
50GW 2019  
2019 2019  
300 / 15 10  
10

| 部门 | 政策 | 要点   |
|----|----|--|
|    |    | 2020年度行... 预计... 15亿元, 其中... 5亿元用于...<br>Y... 100% |

| 地区  | 部门        | 政策                             | 要点   |
|-----|-----------|--------------------------------|--|
| 内蒙古 | 内蒙古自治区能源局 | 《内蒙古自治区能源局关于光伏扶贫电站并网发电有关事项的通知》 | 按照光伏扶贫项目优先上网和全额收购的原则，光伏扶贫电站的上网电价电费结算按照合同约定，足额支付工作。对于纳入国家光伏扶贫电站和集中光伏扶贫电站并网发电的村级（含联村）光伏扶贫电站，补贴资金由电网企业或财政部门直接拨付至当地电网企业，由扶贫部门监督足额拨付光伏扶贫项目补贴资金。 |

/

| 地区 | 部门 | 政策 | 要点     |
|----|----|----|--------|
|    |    |    | 结合实际情况 |

| 地区  | 部门      | 政策        | 要点  |
|-----|---------|-----------|---|
| 江苏省 | 江苏人大常委会 | 《江苏省电力条例》 | 推进电力市场建设，培育多元化电力市场主体，建立公平、规范、高效的电力交易平台，引导各类市场主体有序参与电力市场交易。强调电力发展应当坚持绿色、安全、高效的原则，鼓励市场利用可再生能源和清洁能源。 |

| 地区    | 部门      | 政策             | 要点                            |
|-------|---------|----------------|-------------------------------|
| 青岛西海岸 | 青岛西海岸新区 | 《青岛西海岸新区清洁能源供热 | 鼓励各类投资主体与特许经营企业合作，参与清洁能源供热项目。 |

<https://solar.ofweek.com/2020-02/ART-260006-8120-30426692.html> Top

5.

2020-02-16

[2020]5

2020. 2. 13

2020. 2. 8

2 3



# 210

6.

30%

000

202



400%

100%

[http://bao.hvacr.cn/202002\\_2085911.html](http://bao.hvacr.cn/202002_2085911.html) Top

8.

2020-02-26

2020 10

12

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2015

2015 161



100

50%

2006 6 14

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300 100

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20%

50%

2 30%

4 2 24

6

20

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[http://bao.hvacr.cn/202002\\_2086038.html](http://bao.hvacr.cn/202002_2086038.html) Top

## 10. Oversight 2

2020-02-24

( :EMR) " Oversi ght

2"

Frank Landwehr : "

“ ”

2019

V

EK

R32

Hi-Mod A2

2019

17.5%

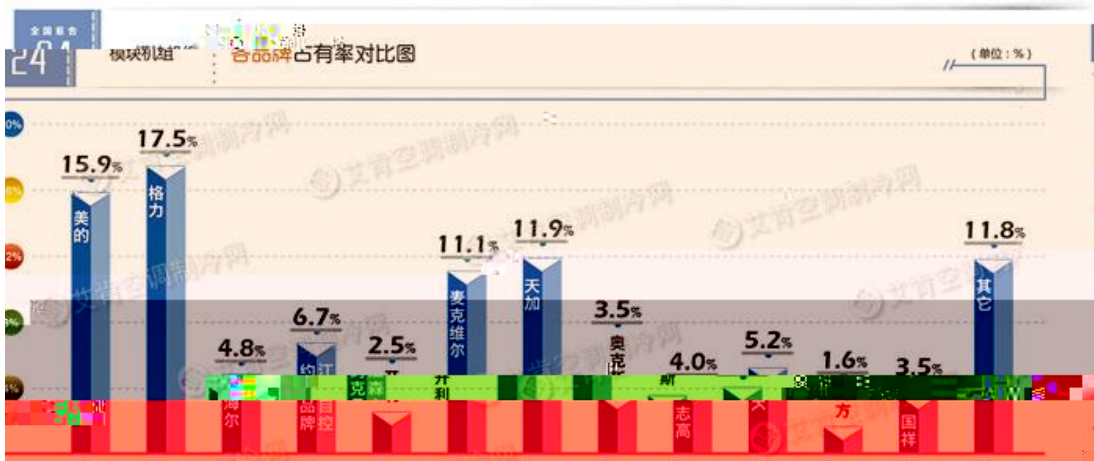
15.9%

10%

EK

5

( 24)



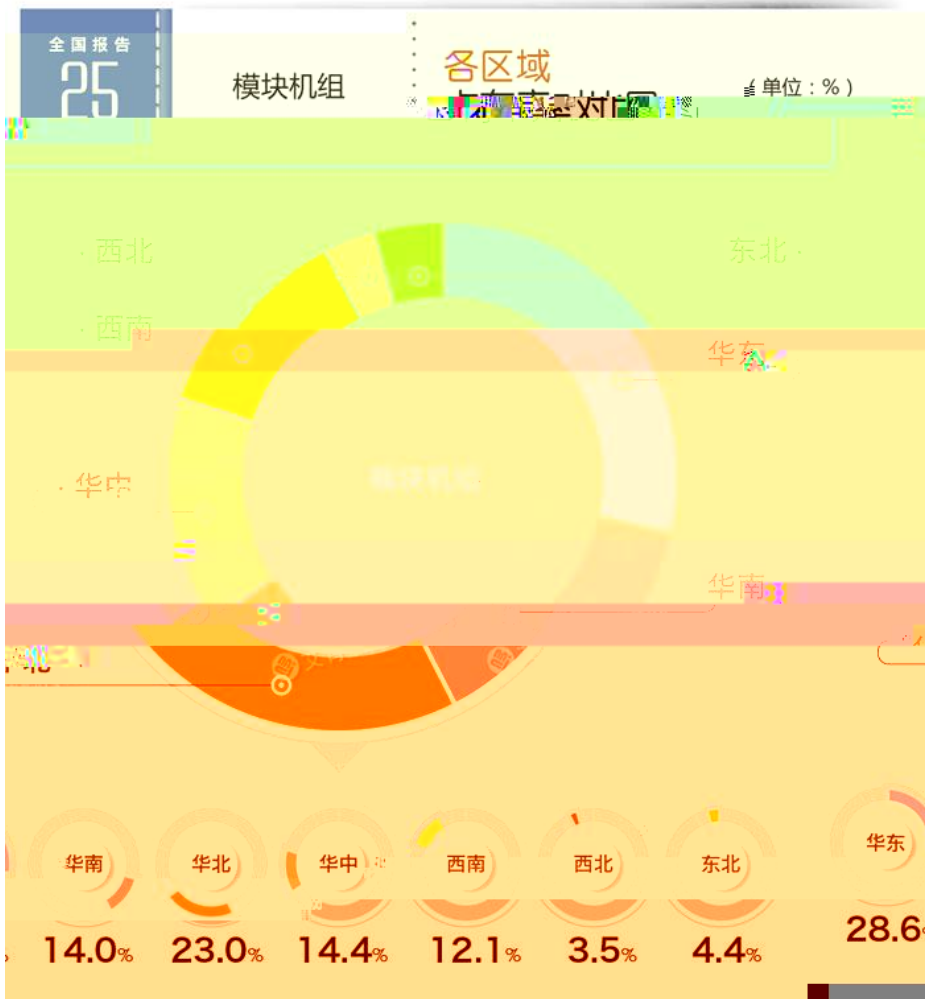
28.6% 23.0%

14%

10%

5%

( 25)



<http://www.aircon.com.cn/news/htmlfiles/73193.shtml>Top

12.

|        |       |        |        |
|--------|-------|--------|--------|
| 2020   | 1     | 18.80  | 42.86% |
| 35.28% | 18.20 | 44.36% | 38.11% |
| 46.59% |       | 37.50% | 3.45   |
| 40.59% |       |        | 31.57% |
| 1      |       |        |        |
| 12     |       | 1      |        |
|        |       |        | 1      |
| 30%    |       |        |        |

1

30%

1

3.45

31.57%

<http://acc.chinaiol.com/u/0306/46220680.html> Top

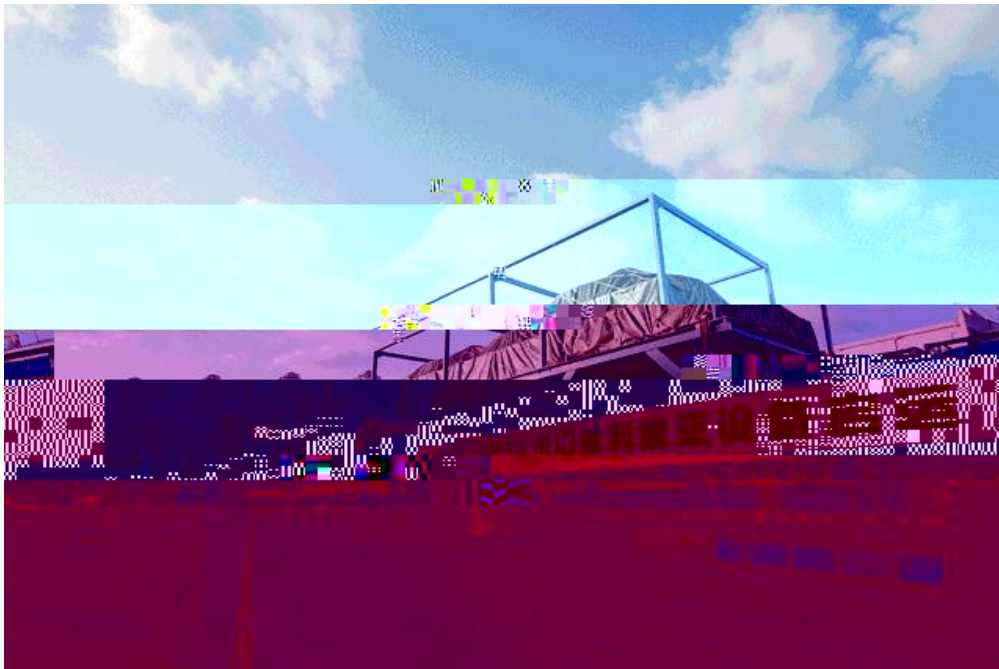
1.

2020-01-20

1 14

CMEC

40



2019 10 CMEC

86

1 17

64

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YLB)



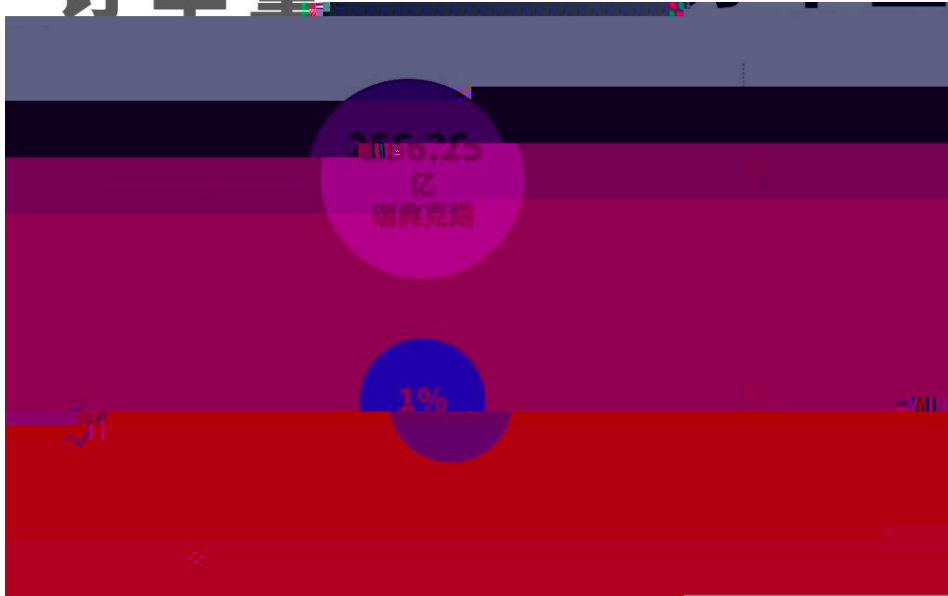


<https://solar.ofweek.com/2020-02/ART-260008-8120-30427022.html> Top

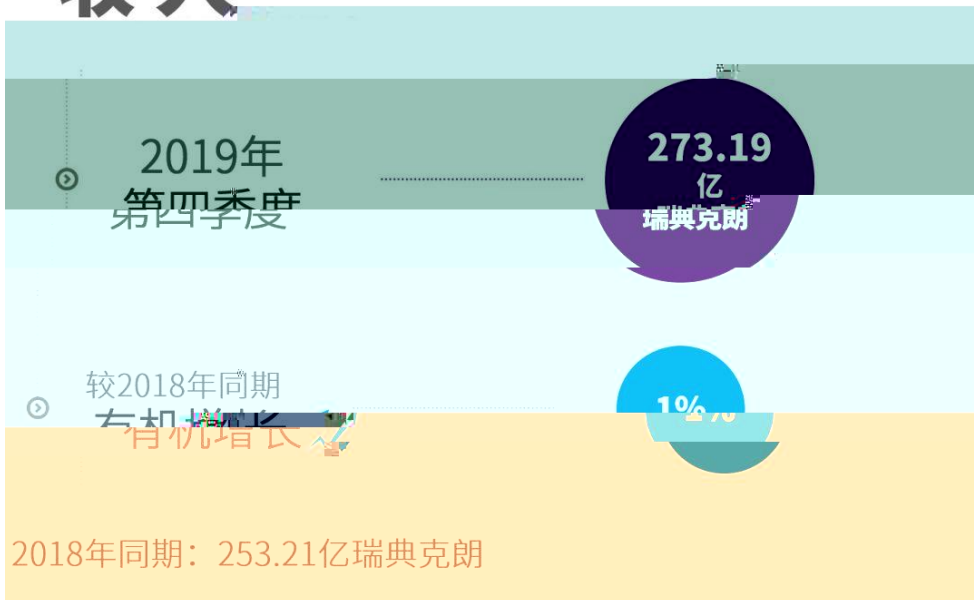
**5. PHEIC**



# 订单量

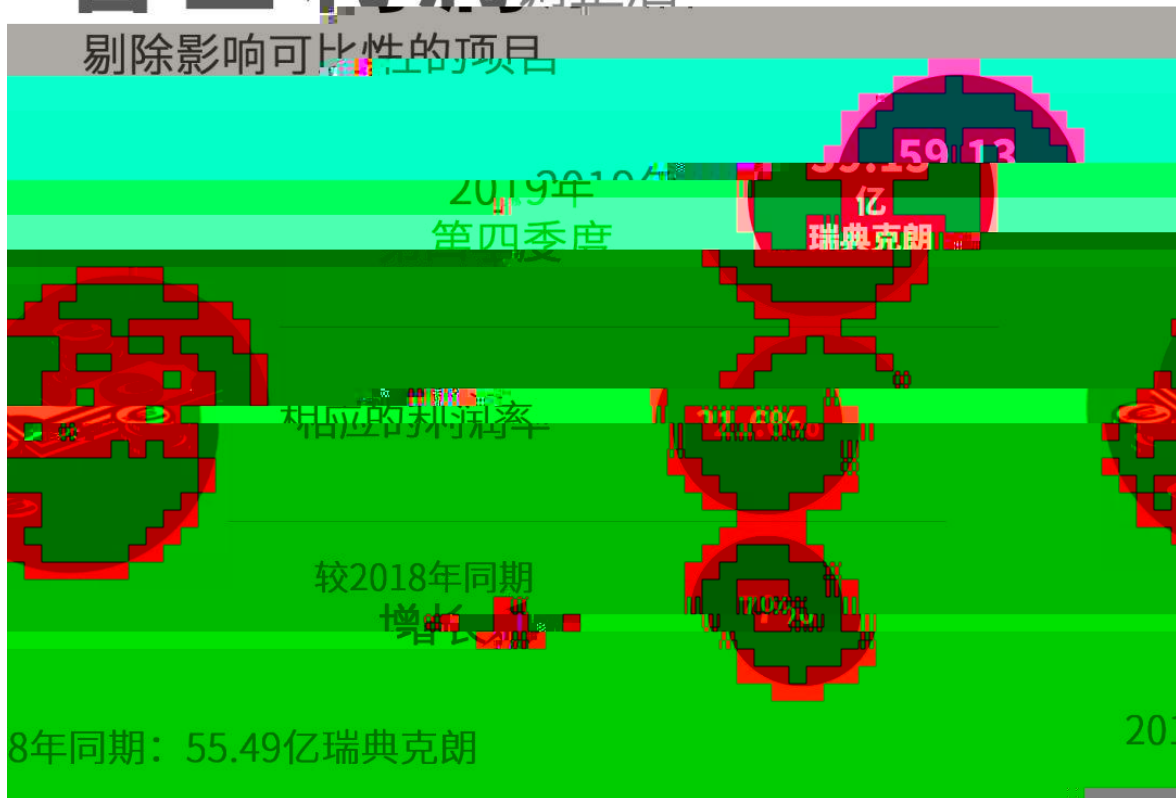


# 收入



# 营业利润调整后

剔除影响可比性的项目



1873

2019

1,040

100

39,000

[https://mp.weixin.qq.com/s/L2IB4zI\\_MUKhBBae55ut5w](https://mp.weixin.qq.com/s/L2IB4zI_MUKhBBae55ut5w)

Top

7. "

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17.8

NO. 1

2020-02-24

2020

2 23

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100%



|      |   |      |      |      |   |      |
|------|---|------|------|------|---|------|
|      |   |      | 2019 |      |   | 2020 |
| 65GW | / | 2021 | 20GW | 30GW | " | 1.5  |
| "    |   |      |      |      |   |      |

|      |       |  |      |      |      |
|------|-------|--|------|------|------|
| 2019 |       |  | 36GW | 10GW | 16GW |
|      | 2019  |  |      |      |      |
| 13GW | 23GW  |  |      |      |      |
|      | NO. 1 |  |      |      |      |

<https://solar.ofweek.com/2020-02/ART-260002-8420-30428732.html> Top

**8. R1233zd**

2020-02-26

|     |         |     |
|-----|---------|-----|
| HFO | R1233zd | 10  |
|     |         | AHR |

R1233zd

Trane

Carrier



3 1



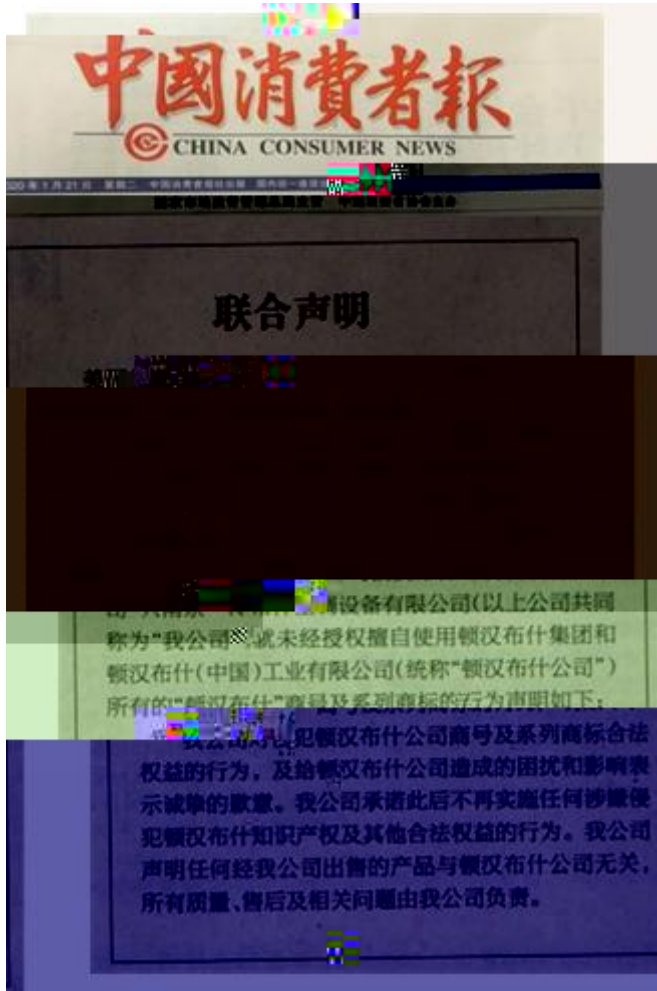
~

<https://www.hvacrhome.com/news/show.php?itemid=48423>

1  
2  
3  
4

51

200



11.

1.38

2020-02-27

|                |       |                  |      |                  |        |
|----------------|-------|------------------|------|------------------|--------|
| 2              | 27    | 2019             | 1-12 | 90.56            |        |
| 3.67%          |       | 4.86%            |      |                  | 1.38   |
| 106.37%        |       | 13.75%           |      |                  |        |
|                |       | 9,055,903,216.06 |      |                  | -3.67% |
| 179,669,442.09 |       | 159,827,479.05   |      |                  |        |
| 138,003,725.62 |       |                  |      |                  |        |
|                |       | 8,710,085,339.19 | 2018 | -15.27%          |        |
|                |       |                  |      | 2,389,513,003.92 | 2018   |
|                | 7.99% |                  |      |                  |        |

Top

12.

80

2020

2020-01-21

|     |      |       |    |     |
|-----|------|-------|----|-----|
|     |      | 60-80 |    |     |
| CLK |      |       | 80 | --- |
| CLK |      |       |    |     |
| CLK | 2000 | 2013  |    |     |
| "   |      |       |    |     |

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<http://cac.chinaiol.com/u/0121/89219734.html>

Top

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### 3. 2020-2026

2020-01-07

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1500

2020-2026

2020-2026

2020-2026







2020

(9.21, 0.05, 0.55%) :

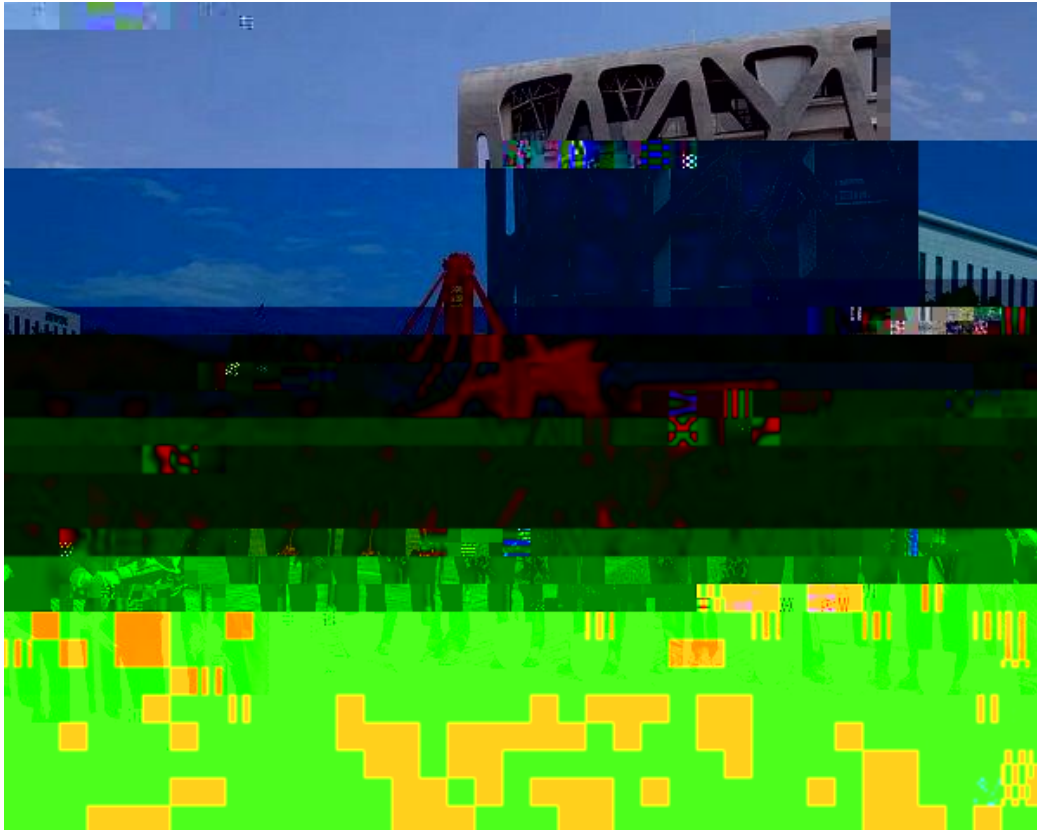
60%

(102.800, 8.80, 9.36%) :

<http://guba.sina.com.cn/?s=thread&tid=165547&bid=1536> Top

6.

|      |        |      |        |
|------|--------|------|--------|
| 2020 |        |      | 322    |
| 16%  |        |      | 58%    |
|      | GG I I | 2019 |        |
|      |        | 58%  | 2018   |
|      |        |      | 30.40% |
|      | GG I I |      |        |



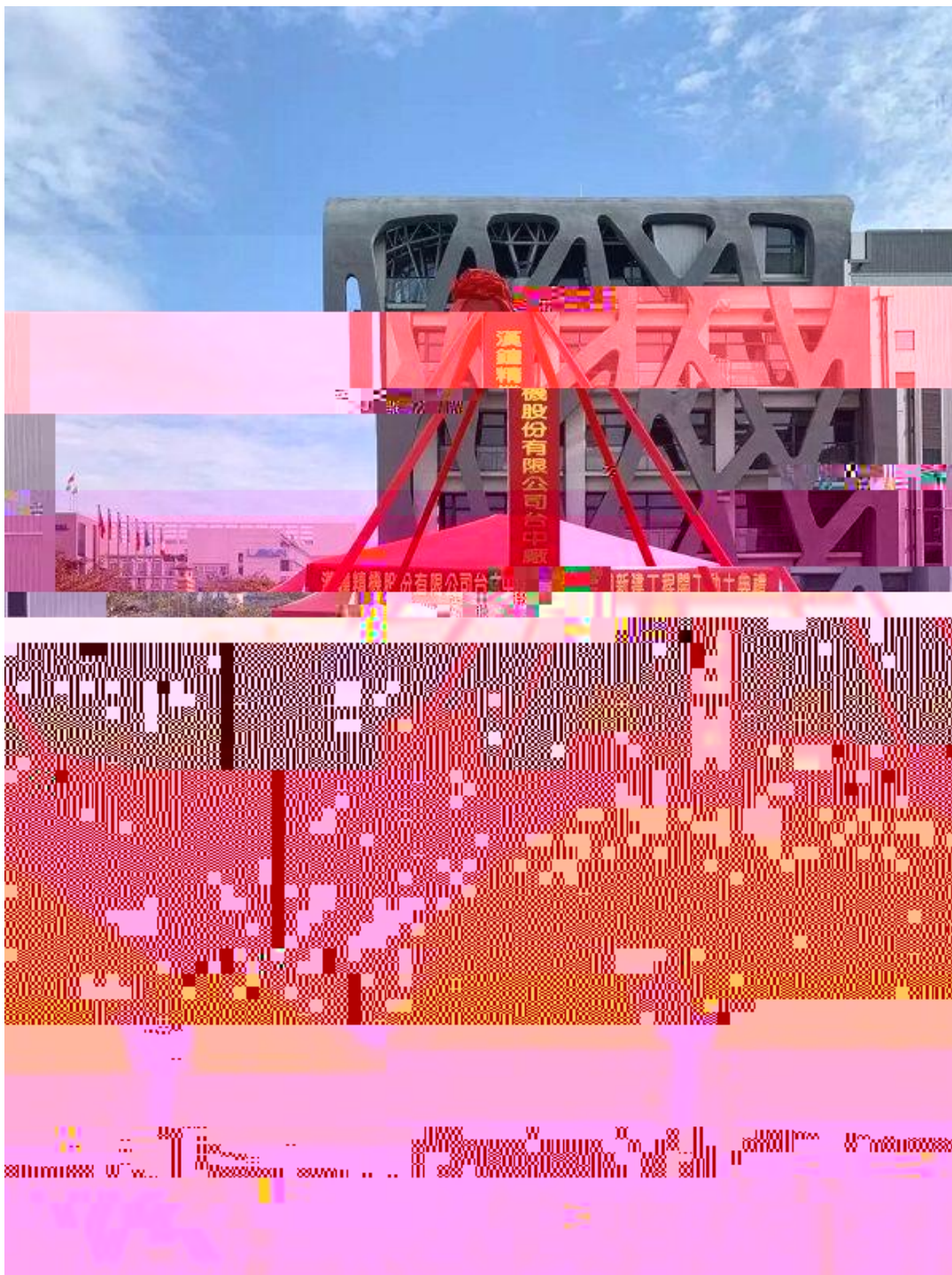
2020 02 12

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AS/RS

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<http://www.vkhvacr.com/index.php?a=show&c=index&catid=22&id=32483&m=content>

8. 2019

2020-02-24

2 24

2019

18.07

1. , : ,  
, 2025

1

|           |    |       |      |       |
|-----------|----|-------|------|-------|
|           |    | IRENA | 2018 | 480GW |
| 2009-2018 | 20 |       |      | CPIA  |
| 2019      | 10 |       | 2018 |       |

|       |    |     |      |     |
|-------|----|-----|------|-----|
|       |    |     | 2018 |     |
| 2018  |    | 531 |      | 531 |
| ..... |    |     | 2019 |     |
| 2019  | 11 |     |      |     |

2.

2019

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LED

CVD ALD

80-7000m<sup>3</sup>/h

CVD/ETCH

v

hms

| 序  | 代码   | 名称             | 最新    | 涨幅%   | 涨跌     |
|----|------|----------------|-------|-------|--------|
| 51 |      |                | 2270  | 6.14  | 12.05  |
| 59 |      |                |       | 6.46  | 10.05  |
|    |      |                |       | 17.13 | 10.02  |
|    |      |                |       | 21.00 | 10.01  |
|    |      |                |       | 1.91  | 43.77  |
|    |      |                |       | 3.98  | 76.69  |
|    |      |                |       | 8.97  | 166.33 |
|    |      |                |       | 15.12 |        |
| 08 | 1.34 | 8 002414 高德红外  | 51.70 |       |        |
| 08 | 4.70 | 8 002214 天智科技  | 23.10 |       |        |
| 08 | 2.10 | 10 002430 兴霖科技 | 17.96 |       |        |

+ pe pb+

3.5

110 /

1000

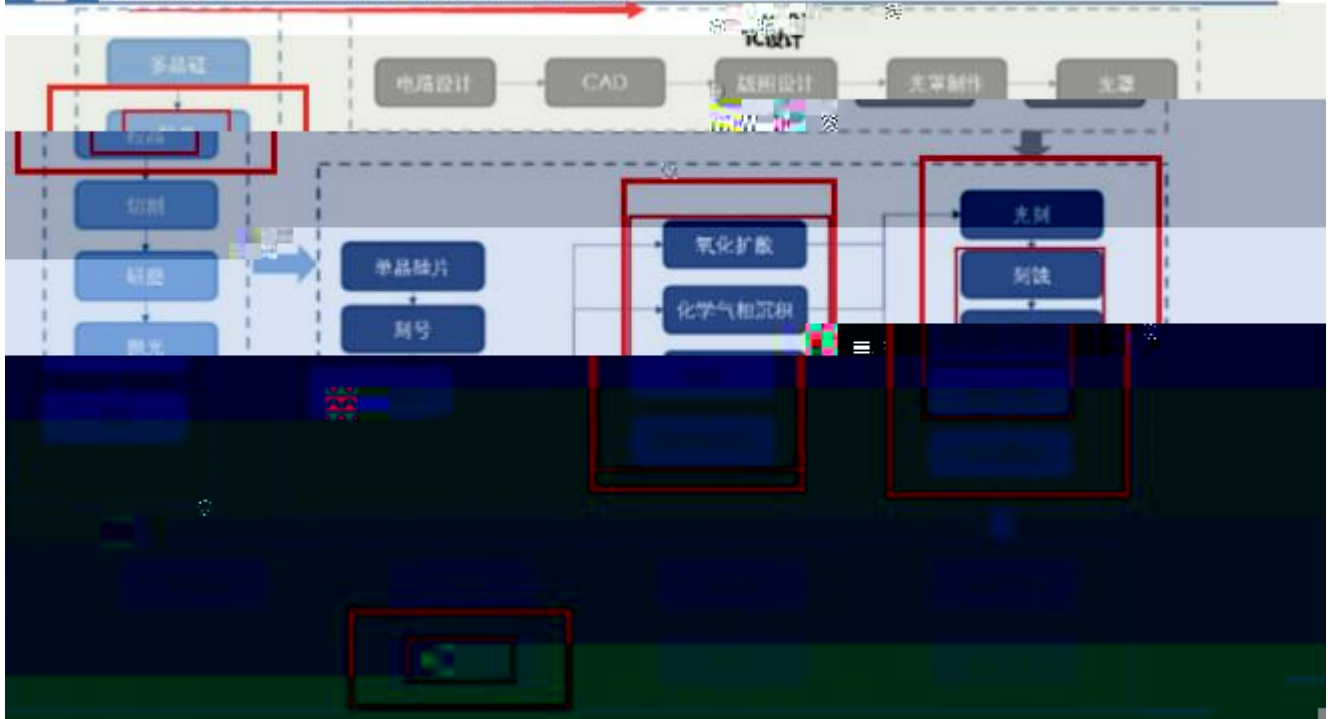
50 /

12

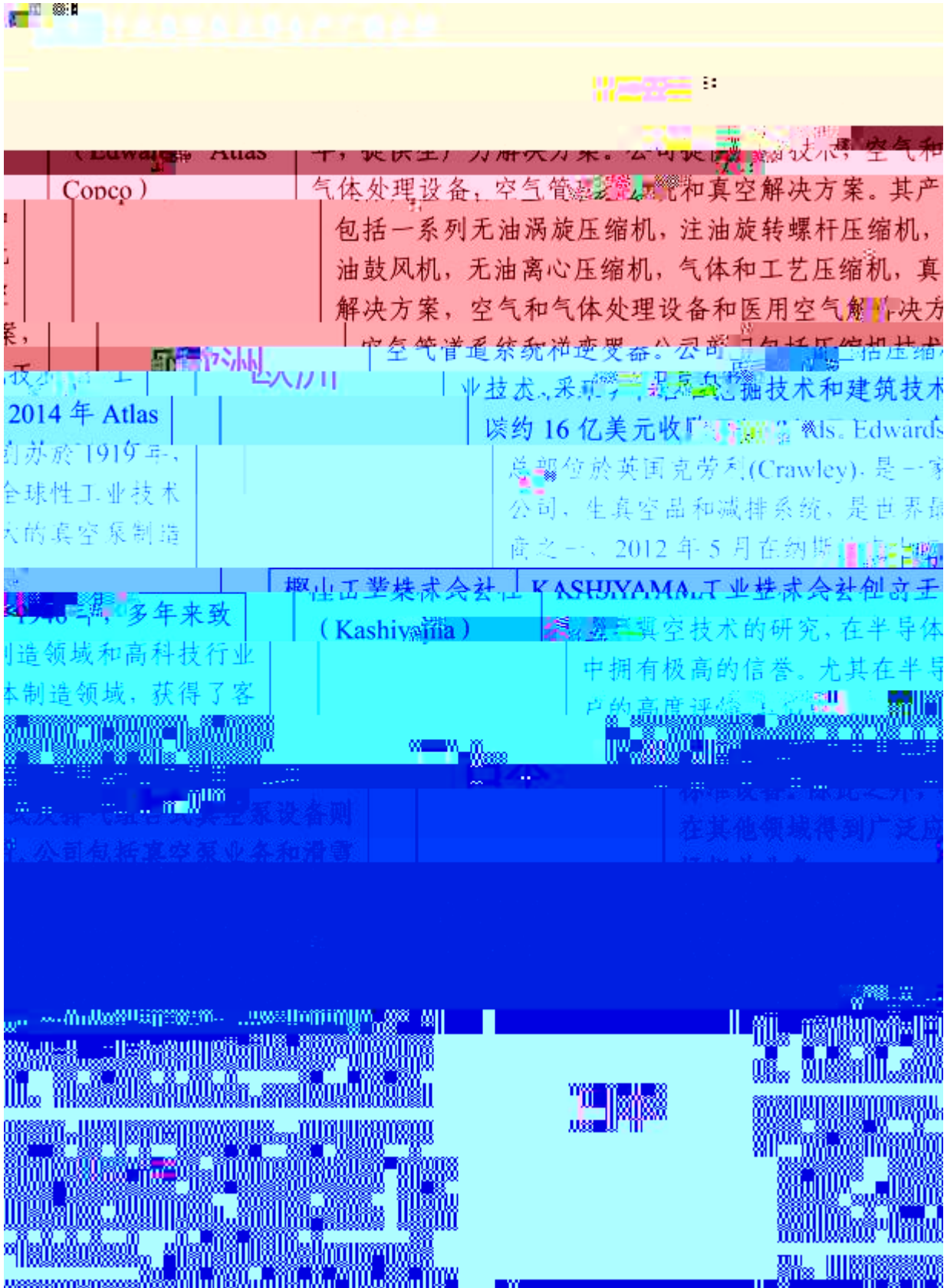
12

150

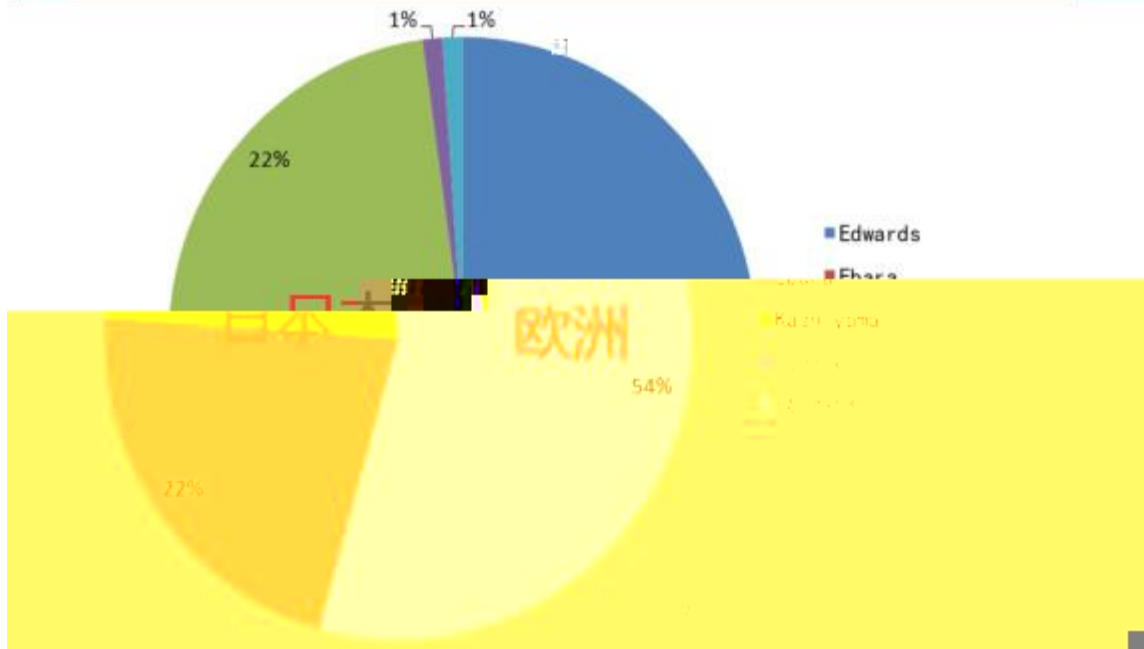
图 12: 干式真空泵在半导体领域的应用环节



5%



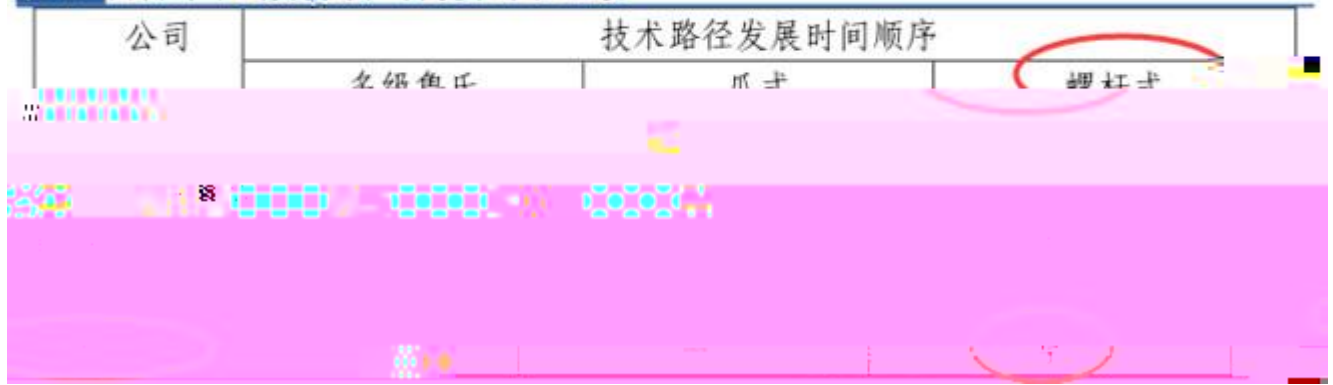
干式真空泵厂商市场份额



真空泵是半导体产业的重要组成部分，请问公司的真空泵已用于那些知名的半导体厂商？公司的真空泵是否可以替代进口？



表 6: 国内外干式真空泵厂商技术路径比较



LED

a

led

公司干式真空泵在泛半导体领域的应用行业



Extreme Ultraviolet

EUV

EUV

EUV

|      |     |      |      |      |     |
|------|-----|------|------|------|-----|
|      |     | 10nm | 7nm  |      |     |
| 10nm | 700 | 1000 |      |      | 60% |
|      |     |      |      | 2018 | 7nm |
|      |     |      |      |      | EUV |
|      |     | EUV  | 2018 | 5nm  | EUV |



投资者问 汉钟精机 (002158):

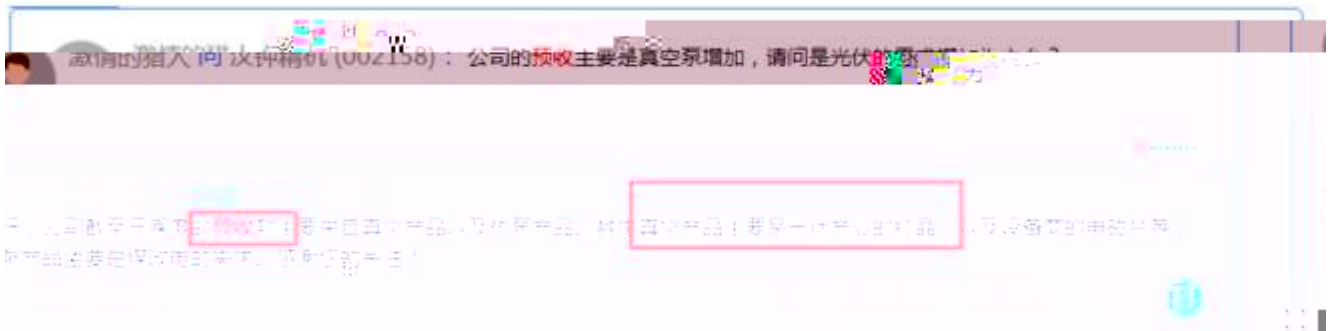
2020-02-21 18:54:52

董秘您好：真空泵是下一代EUV光刻技术的必选项。ExtremeUltraviolet极紫外光刻（EUV）是下一代光刻主流技术。请问公司真空泵是否可以应用于这项技术之中，目前国内有客户了吗？谢谢！

汉钟精机 (002158) 回答 投资者

您好！公司真空泵可以用于极紫外光刻，目前公司也在积极推广自己的极紫外光刻使用汉钟干式真空泵。感谢您的关注（来自：深交所互动易）

30%



18 3 2000w 19 3 8000

|                        |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|
| 资产总计                   | 34.01亿 | 33.50亿 | 31.57亿 | 32.53亿 | 32.56亿 |
| 流动负债                   |        |        |        |        |        |
| 短期借款                   | 4.818亿 | 4.041亿 | 3.628亿 | 3.909亿 | 3.762亿 |
| 以公允价值计量且其变动计入当期损益的金融负债 | --     | --     | --     | --     | 5.909万 |
| 应付票据及应付账款              | 4.905亿 | 4.797亿 | 3.803亿 | 3.970亿 | 4.016亿 |
| 其中：应付票据                | 0.149亿 | 0.112亿 | 0.112亿 | 0.112亿 | 0.112亿 |
| 应付账款                   | 4.756亿 | 4.685亿 | 3.691亿 | 3.858亿 | 3.904亿 |
| 预收款项                   | 8613万  | 8956万  | 12022万 | 12022万 | 12022万 |
| 应付职工薪酬                 | 6428万  | 5129万  | 4704万  | 4702万  | 4838万  |

531  
2021

400% 1/3  
1 20% 2  
1% 2% 150 \*2%=3 6 2020 8  
4

<https://xueqiu.com/6438041284/142160854> Top

## 12.

2020-02-25

2 25 2019 18.07  
4.34% 2.47 21.82%  
2.91 23.39%  
2.47 21.82% 12.66% 1.43  
0.4641 21.46%

[http://ggjd.cnstock.com/company/scp\\_ggjd/tjd\\_bbdj/202002/4494904.htm](http://ggjd.cnstock.com/company/scp_ggjd/tjd_bbdj/202002/4494904.htm) Top

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11.1 GE

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11.1.4

11.2 ORMAT TECHNOLOGIES

11.2.1

11.2.2

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11.2.4

11.3

11.3.1

11.3.2

11.3.3

11.3.4

11.4

11.4.1

11.4.2

11.4.3

11.4.4

11.5 a

11.5.3

| DCDC   |       | 2020    |       | 2020  |           |
|--------|-------|---------|-------|-------|-----------|
|        |       |         |       | 3     |           |
|        | 2020  | 5000    | /kW   |       | 20%-30% 4 |
| 2019   | 22    | 2018    | 13    | 43    |           |
|        | 25%   | 500kg/d |       | 700   |           |
| 2      | Q1    |         |       | 1     | 10        |
|        |       |         | 17    |       |           |
|        | 19    | 2020Q1  |       | 2     |           |
|        |       |         |       | 5     |           |
| 45kW   |       | 1.6     | FCV   | 1     | 3         |
| 3      |       |         |       |       |           |
|        | 1     | 11      |       | "     |           |
| 2020   | "     |         |       |       |           |
|        | 1     |         |       | 2     |           |
|        |       | 3       |       | - - - |           |
| 4      |       |         |       |       |           |
|        | 5     |         |       | 6     |           |
|        |       |         |       | "     | "         |
|        |       | 3.5     |       |       |           |
| 4      |       |         |       |       |           |
|        | 1     | 27      |       |       | 3000      |
|        |       |         | 35000 |       |           |
|        | MEA   |         |       |       |           |
| 8x 360 | 35000 |         | 12    |       |           |
|        |       |         |       |       | 2019      |
|        | LCS   |         |       |       |           |
|        |       |         |       |       |           |
| 5      |       | Ballard |       |       |           |

A

|            |                |      |          |    |         |
|------------|----------------|------|----------|----|---------|
|            | BLDP/PLUG/FCEL | 1    | 2020     | 6  |         |
| PLug Power | 1.72           | 100  |          | 2  | Ballard |
|            | +              | 2019 | 16       |    | 1,920   |
| 1.34       |                | 3    | FCEL2019 | 11 | 6       |
|            |                |      |          |    | 6000    |

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HYGS

BLDP

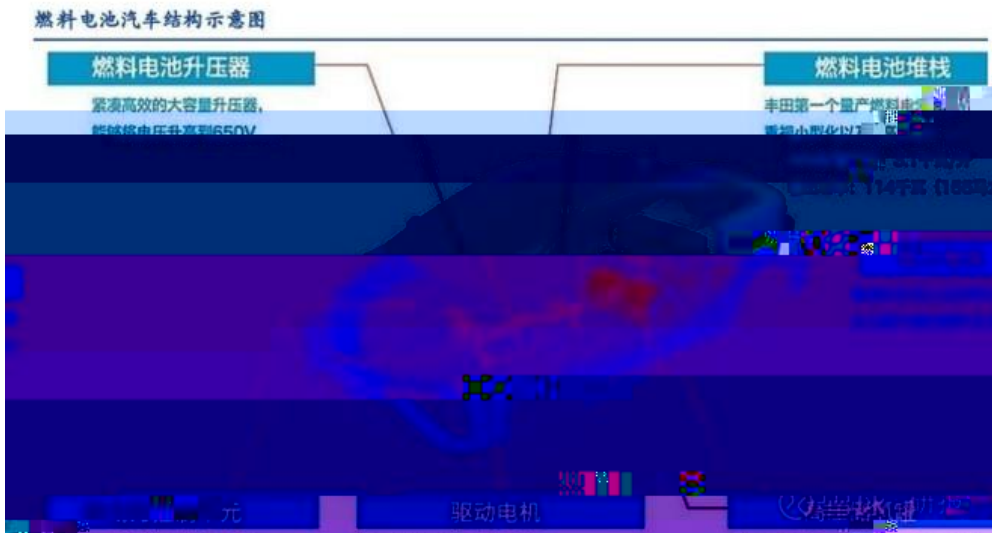
BLDP

+

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18.

2020-02-13



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1

600459. SH

3

2

002733. SZ

Pt-Pd/

0189. HK :

600846. SH :

3

000969. SZ :

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4

5

002639. SZ :

OPCON

**002158. SZ** :10

6

002274. SZ : 1000

300228. SZ :

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19.

2020-02-16

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|         |        |       |         |         |       |        |
|---------|--------|-------|---------|---------|-------|--------|
|         | 10     |       |         |         | 10    |        |
| 200.00  |        |       | 2932.00 |         |       | 116.51 |
| 1285.47 |        | 10    |         | 1265.63 |       |        |
|         |        |       |         | 10      | 15    | ST     |
|         | 10     | 15    | 6       |         |       |        |
|         |        |       | 10      |         |       | 10     |
|         | 8      |       | ST      |         |       |        |
|         |        | 10    |         |         | 10    | 9      |
|         |        |       |         |         |       | 4      |
|         |        | 3     | 3       | 2       |       |        |
|         |        |       | 10      |         | 9.36% |        |
| 5.69%   |        | 10    |         |         |       | 34.43% |
| 16.83%  | 14.89% |       |         |         | 4.44% | 1.46%  |
|         | 10     |       |         |         |       | 4      |
|         |        | 14.79 |         |         |       |        |
|         |        | 3.56  | 3.02    |         |       |        |
|         | 10     |       |         |         |       |        |
|         |        |       |         |         |       | 10     |
|         |        |       |         |         |       | %      |
| 300012  | 1      | 1     | 200.00  | 2932.00 | -1.46 |        |
| 300478  | 4      | 1     | 116.51  | 1285.47 | 13.26 |        |
| 300103  | 3      | 1     | 142.51  | 1265.63 | 8.90  |        |
| 000725  | 15     | 10    | 128.03  | 600.63  | 14.81 |        |
| 601877  | 3      | 3     | 16.00   | 473.15  | 11.92 |        |
| 002408  | 1      | 1     | 58.53   | 372.25  | 7.01  |        |



403%

12.4%

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