

- 1.
- 2.
3. 7 14.3%
- 4.
- 5.
6. 2018-2019
- 7.
8. “ ”
- 9.
- 10.
- 11.
12. “ ”
- 13.
- 14.







1

8

(Oxford Economics) • (Ben May) :“

2017 ”

• (Donald Trump) “ ”

500

2019

8

“ , 3

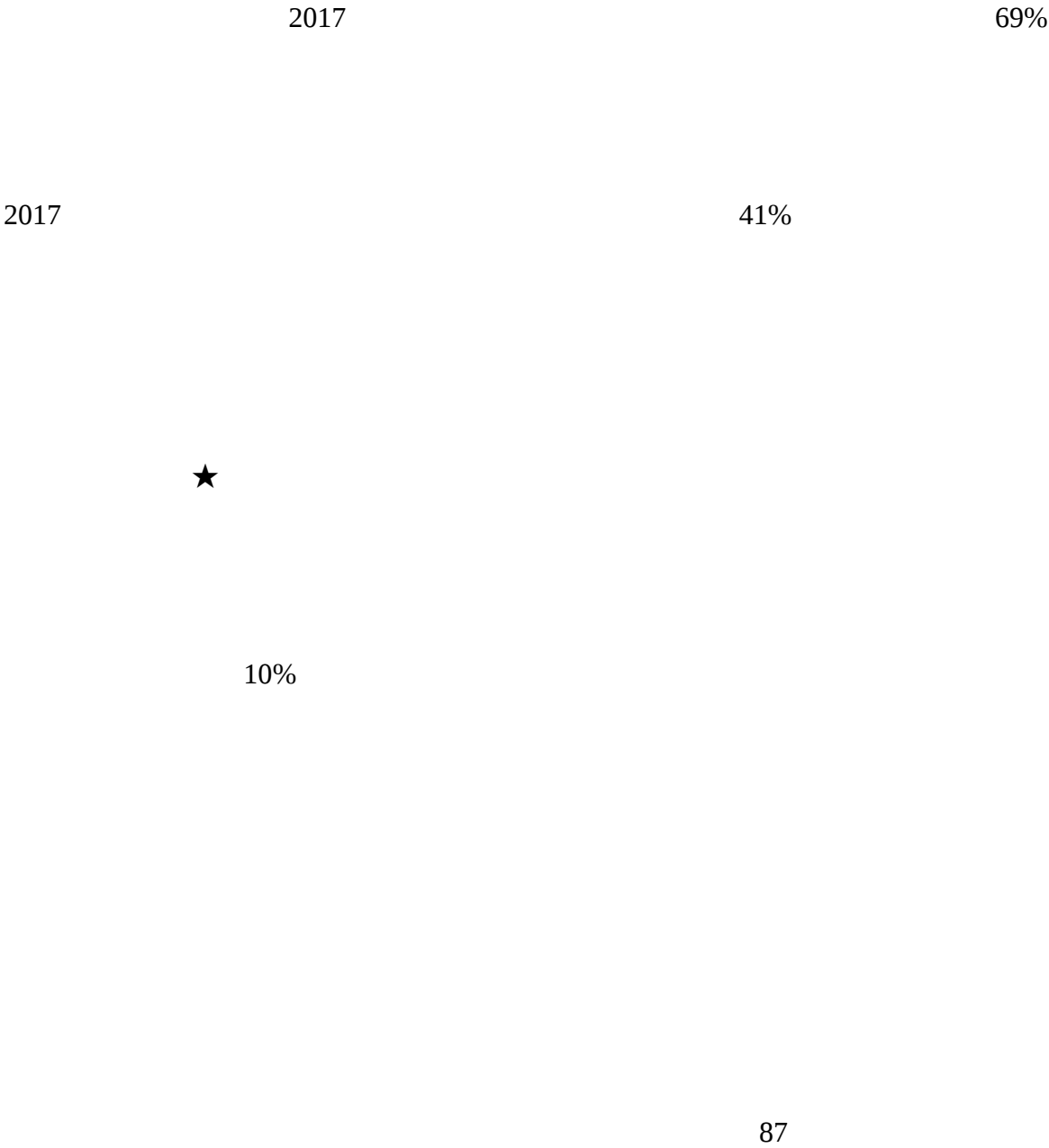
” (Capital Economics) Andrew wishard

7

6

8





2017

4%

8

30

| 版块 | 品类     | 2017出口总额<br>(亿美元) | 2017对美出口额<br>(亿美元) | 2017年对美<br>出口占比 |
|----|--------|-------------------|--------------------|-----------------|
| 纺织 | 服装     | 1.2               | 0.8                | 67%             |
|    | 家纺     | 0.8               | 0.5                | 63%             |
|    | 皮革     | 0.5               | 0.3                | 60%             |
|    | 鞋帽     | 0.3               | 0.2                | 67%             |
| 轻工 | 箱包     | 0.5               | 0.3                | 60%             |
|    | 玩具     | 0.3               | 0.2                | 67%             |
|    | 文具     | 0.2               | 0.1                | 50%             |
|    | 体育用品   | 0.2               | 0.1                | 50%             |
| 机械 | 通用机械   | 0.5               | 0.3                | 60%             |
|    | 专用设备   | 0.3               | 0.2                | 67%             |
|    | 交通运输设备 | 0.2               | 0.1                | 50%             |
|    | 电气机械   | 0.2               | 0.1                | 50%             |
| 合计 |        | 8.5               | 3.4                | 41%             |

| 版块   | 公司   | 外销规模<br>(百万) | 收入规<br>模(百<br>万) | 外销占<br>比 | 出口美<br>国收入<br>占比 | 相关涉及产品   |
|------|------|--------------|------------------|----------|------------------|----------|
| 白电板块 | 格力电器 | 18494        | 150020           | 12%      | 2%               | 空调       |
|      | 美的集团 | 103956       | 241919           | 43%      | 5%               | 白电及厨房小家电 |
|      | 青岛海尔 | 67044        | 155654           | 43%      | 1%               | 冰箱       |

<http://news.ehvacr.com/news/2018/0718/104763.html>

Top↑

3 7 14.3%

1-7

39038.1

17.1%

|         |       |       |        |         |       |  |  |       |  |
|---------|-------|-------|--------|---------|-------|--|--|-------|--|
| 1-6     | 0.1   |       |        |         |       |  |  |       |  |
| 1-7     |       |       |        | 11913.2 |       |  |  | 30.5% |  |
|         |       | 125.2 | 4.1%   |         | 27801 |  |  |       |  |
| 21.3%   |       |       |        | 9422.4  | 7.5%  |  |  |       |  |
| 10215.1 | 10.3% |       |        |         |       |  |  |       |  |
| 1-7     |       |       | 3366.7 |         | 53.4% |  |  |       |  |
| 33084.4 | 14.3% |       |        |         |       |  |  | 2587  |  |
| 17.8%   |       |       |        |         |       |  |  |       |  |
| 1-7     | 41    |       | 32     |         | 9     |  |  |       |  |
|         |       |       |        | 18%     |       |  |  | 4.5   |  |
|         |       | 1.4%  | 0.2%   |         |       |  |  | 36.1% |  |
|         |       |       | 29.2%  |         | 45.2% |  |  |       |  |
|         | 97.8% |       | 9%     |         | 23.1% |  |  |       |  |
| 1.6%    |       |       | 1%     |         |       |  |  | 0.9%  |  |
|         |       | 19.6% |        |         | 9.8%  |  |  |       |  |
| 1-7     |       |       |        | 60.5    |       |  |  | 9.9%  |  |
|         | 51.1  |       | 9.5%   |         | 6.46% |  |  |       |  |

0.3%

6

713.0

3.6%

2079.8

12.1%

538.5

3.9%

2018

1-6

97.4%

0.8%

2029.3

7.1%

6

97.5%

0.2%

353.5

3.9%

<http://news.ehvacr.com/news/2018/0822/104959.html>

Top↑

5

2018

478.55

12.44%

2018 3

?

?

?

7

PMI

51.2%

0.3

5

51.0%

.

21

14

PMI

PMI

15

60.0%

8 ;

15

7 27 “ ” “ ” “ ”

7 31 “ ”

;

“ ”

<http://news.ehvacr.com/news/2018/0822/104963.html>      Top↑

6 2018-2019

2018-2019

|         |      |    |   |      |   |    |
|---------|------|----|---|------|---|----|
| 2018    | 2018 | 10 | 1 | 2019 | 3 | 31 |
| (PM2.5) | 5%   |    |   |      |   | 5% |

(

“2+26” )

“ ”

(VOCs)

( )

1. “ ”

2018 12

2018

1000

225

355

150

48

294

4.3

( )

2018

10 35 50 / 10 50

150 / ;

“ ”

4. 2018 12

2018 10

( )

5. 2020

;

;

( )

“2+26” ;

“ ” ;

2018 10 “2+26” 392



2018 12

；

；

；

10% ；

8.

2020

80%

80% ”

2018 10 1

；

；

“ ”；

2018 12 90% 70%  
(2018 11 15 -2019 3 15 )

10.

；

；

11.

“ ”

2018 9

( )

12.

2018 12 ( ) ( ) 100%  
( ) 80%;

2018 12

2019 6

(OBD)





VOCs 640

VOCs 79 ;

VOCs

364 ; VOCs

144

20. VOCs

( ) VOCs 2019

1 1 VOCs

580 600 550 550 / ( )

;"2+26" 2019 1 1 VOCs

2019 1 1 VOCs 540

/ 420 /

21. VOCs VOCs

2018

9 VOCs 2018 12 VOCs

VOCs

;

VOCs ;

(LDAR)

2018 12 3‰

LDAR

76.6kPa

;

5.2kPa

76.6kPa

10% 20% 30% VOCs

10% 15% 20%

;

;

;

“ ”

( )

---

VOCs

； 20

32. 2018 10 VOCs

45

90%

VOCs 2018 10

“ ” 2018 12 10

2 ( )

- -

33. 2018 9

PM2.5 “ ” “

”

34.

“

”

( )

( ) ;

2018 9

“

”

( )

“ ”

;

“ ”

;

VOCs

;

“ ”

;

;

“ ”

( )

“2+26”

(PPP)

“ ”

10

( )

( )

2018 10

;

“ ”

“ ”

“ ”“ ”

“ ”

“ ”

( )

“ ”“ ”

“ ”

5 ;

;



23

2018 8 27 —2018 8 31

010-68552977

2018 8 27

<http://news.ehvacr.com/news/2018/0828/105007.html> Top↑

8

“ ”

“

”

“ ”

<http://news.ehvacr.com/news/2018/0807/104869.html>

Top↑

9

“

”

20%

2020

4700

“

”

“

”

40



10

( ) (

)

;

<http://news.ehvacr.com/news/2018/0831/105043.html>      Top↑

11

1

“ ” “ ”

“

”

“ ”

30%

80%

“

”

3000

3

[http://ww](http://www)

|       |           |        |       |        |
|-------|-----------|--------|-------|--------|
|       |           |        | R22   |        |
| “     | ”HFC      | R134a  | R507A | -10    |
| R507A |           |        |       |        |
|       | (R1270)   | (R290) |       |        |
|       |           |        |       | API619 |
|       | SH/T 3157 |        |       |        |

MR

<http://www.chinaiol.com/cold/s/0827/15200591.html> Top↑

13

DOE

TBT

WTO/TBT 8

2018 6

WTO/TBT 76

“ ”

“ ”

<http://www.compressoronline.cn/index.php?m=content&c=index&a=show&catid=106&id=8136> Top↑

14

“ ”

3

PM2.5

2020

2015

15%

PM2.5

2015

18%

80%

2015

25%

“ ”

“ ”



50

19

2018 50 12 247.77

40% 12 9

636.68%

10

PLUS50 7

“ ”

50

5% 19.8% 30%

50 PLUS50

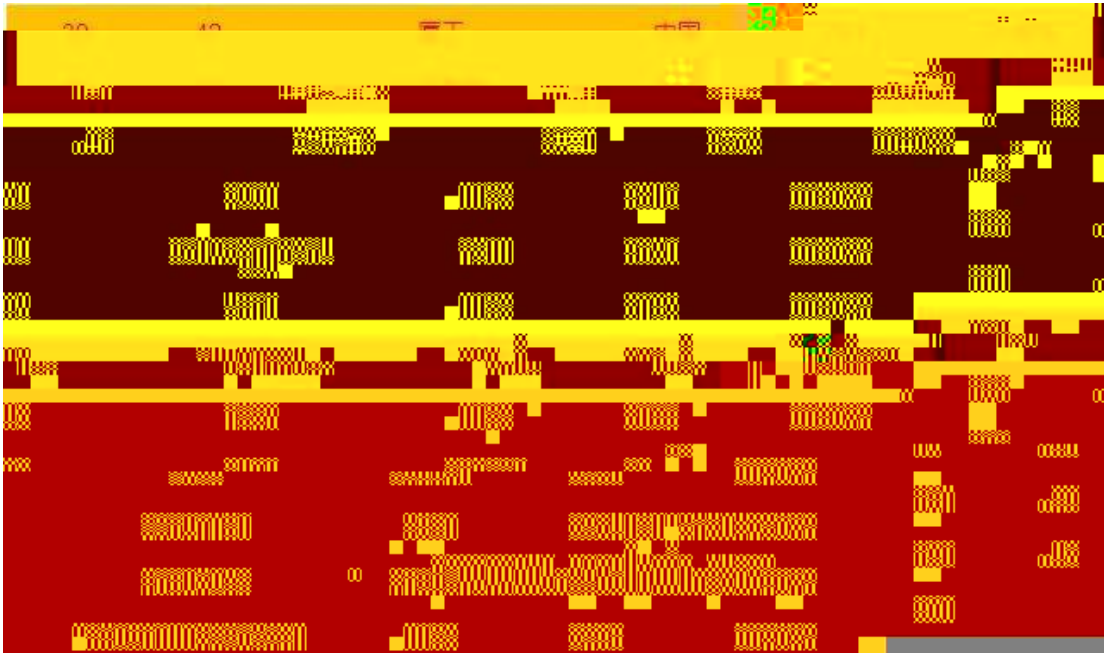
2018 50 /PLUS50

2018年营业收入

| 排名 | 公司        | 国家 | 营业收入 (百万美元) | 占比 (%) |
|----|-----------|----|-------------|--------|
| 1  | 卡特彼勒      | 美国 | 26837       | 19.30% |
| 2  | 小松制作所     | 日本 | 19244       | 11.90% |
| 3  | 日立建机      | 日本 | 8301        | 5.10%  |
| 4  | 沃尔沃建筑     | 瑞典 | 7810        | 4.80%  |
| 5  | 利勃海尔      | 德国 | 7393        | 4.60%  |
| 6  | 斗山工程机械    | 韩国 | 6232        | 3.80%  |
| 7  | 约翰迪尔      | 美国 | 5718        | 3.50%  |
| 10 | 杰西博 (JCB) | 英国 | 4640        | 3.30%  |

|    |       |    |      |       |
|----|-------|----|------|-------|
| 13 | 中联重科  | 中国 | 3796 | 2.30% |
| 14 | 维特根集团 | 德国 | 3690 | 2.30% |

|    |          |     |      |       |
|----|----------|-----|------|-------|
| 15 | 三一重工     | 中国  | 3600 | 2.20% |
| 16 | 卡特彼勒     | 美国  | 3500 | 2.10% |
| 17 | 斗山工程机械   | 韩国  | 3400 | 2.00% |
| 18 | 利勃海尔     | 德国  | 3300 | 1.90% |
| 19 | 约翰迪尔     | 美国  | 3200 | 1.80% |
| 20 | 小松制作所    | 日本  | 3100 | 1.70% |
| 21 | 日立建机     | 日本  | 3000 | 1.60% |
| 22 | 威克诺森     | 德国  | 1883 | 1.20% |
| 23 | 曼尼通      | 法国  | 1800 | 1.10% |
| 24 | 帕尔菲格     | 奥地利 | 1791 | 1.10% |
| 25 | 中国       |     | 1709 | 1.10% |
| 26 | 马尼托瓦克    | 美国  | 1581 | 1.00% |
| 27 | 多田野      | 日本  | 1500 | 1.00% |
| 28 | 可特拉斯·科普柯 | 瑞典  | 1417 | 0.90% |
| 29 | 亚美利加     | 法国  | 1417 | 0.90% |



<https://www.ysjw.cn/news/show-2807.html>      Top↑

---

2018 9

2018 10 1 2019 3 31

“2+26”

10 3

“ ”

50%

30%

2018 9

“ ”

“ ”

2018 10 1

.....

2018

6

72192

585030.78

---

“

” 1

6 12 12 2

8 4 40 1

<https://www.ysjw.cn/news/show-2819.html> Top↑

20

5

IHSMarkit      JosefinBerg      30

EPC      LCOE

EnergyTrend

MIPS

Berg      2019

40

6    IHSMarkit      “      ”      MIP

9      2018      12      2019      17

MIP

<https://solar.ofweek.com/2018-09/ART-260008-8420-30264805.html>      Top↑

21      531      “      ”

531      2018

24    3GW      2017      GTM

research 2018 48 2GW 28 8GW

40 4 5GW

19GW

8 0 25

1 72 4 2 4

2 5 2 4

4

“ ”

“ ”

“ ”

531

” “ ”

<https://solar.ofweek.com/2018-09/ART-260009-8420-30268229.html> Top↑

22 | 20

1 30 WTO

|        |         |       |        |       |         |
|--------|---------|-------|--------|-------|---------|
| 2      | 77000MW |       |        |       |         |
|        |         | 2022  |        | 38 5  |         |
| 77 000 |         |       | 2022   | 10    |         |
|        | 2018 7  |       | 23 120 |       |         |
| 3 7    | 14 24   |       | 64 95  |       |         |
| 7      | 320 19  |       | 12 23  |       | 1720 31 |
|        | 9 08    | 9 29  |        | 31 53 | 296 66  |
|        | 10 04   | 14 24 |        | 64 95 |         |
| 7      |         | 2116  |        | 3     |         |

---

|      |    |      |    |      |    |             |                   |
|------|----|------|----|------|----|-------------|-------------------|
| 400  | 95 | 4    | 82 | 6601 | 69 | 79          | 41                |
| 1311 | 22 | 15   | 77 |      |    |             |                   |
| 4    | 7  | 2022 | 72 | 6    | 2  | $\hat{A}_0$ | $\hat{A}_0^\circ$ |

|       |          |       |           |
|-------|----------|-------|-----------|
| 2 08  | 34 12    | 1 19  | 17 03     |
| 7     |          | 1 53  | 1 04      |
| 29 7  | 0 28     | 35 79 | 0 21      |
| 10 43 |          |       |           |
| 8     | 65254 49 | 11 18 |           |
| 8 13  |          |       | 65 254 49 |
|       | 11 18    |       |           |
| 95 92 |          |       |           |
|       | 41 86    |       | 7 149 13  |
|       | 16 72    |       |           |
|       | 943 78   |       |           |
| 9     | 8 5      | 7     |           |
| 8 13  |          |       |           |

“5 31 ”

11 ST “ ”

8 14 ST YANGHUAIJIN

ST 312 383 022

6 61 271 773 229 00

12 2 8GW 2653

2018

2794MW 2018 2 015MW 38 7

60 6



17 17 3

17 3

“

20

166

4

”

18

“

”

19

0 81

8 10

0 0336

0 45

0 4744 0 4814

0 2324 0 2394

2018 5 1

5

2018

9

20

8 15

7

<https://solar.ofweek.com/2018-08/ART-260006-8440-30258405.html>

Top↑

23

2020

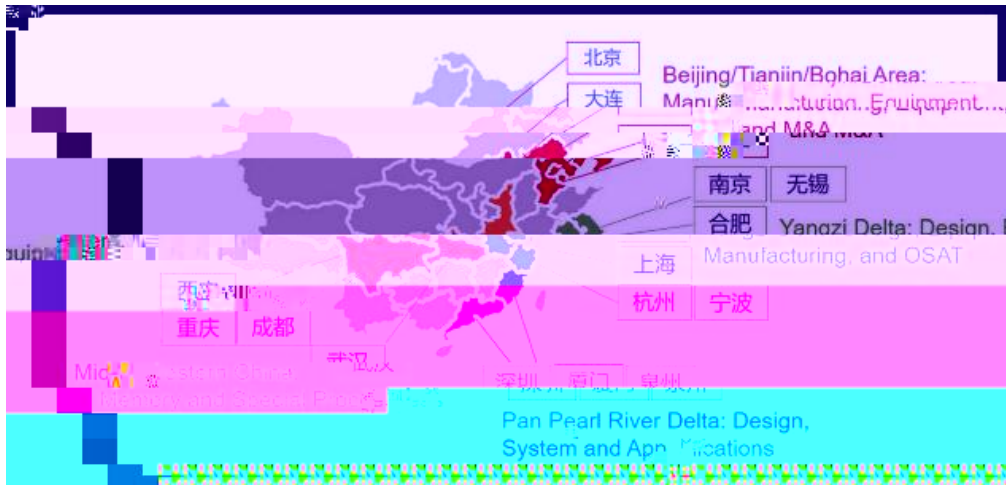
20

2018 9 4 —SEMI

IC

The China IC Ecosystem

|           |     |       |    |       |      |         |      |      |  |
|-----------|-----|-------|----|-------|------|---------|------|------|--|
| Report    | IC  |       |    |       |      |         |      |      |  |
|           | 16  | 2020  |    |       | 20   |         |      |      |  |
|           |     | 2020  |    |       | 200  |         |      |      |  |
|           |     | SEMI  |    |       |      |         |      | IC   |  |
|           | IC  |       |    |       | 2017 |         |      | 319  |  |
| IC        |     | 2020  |    |       | IC   |         |      |      |  |
|           |     |       |    | 1,400 | 215  |         | 2014 |      |  |
| 1500-2000 | 230 | 300   |    |       |      |         |      |      |  |
| IC        |     |       |    |       |      |         |      |      |  |
|           | IC  |       |    | 25    |      |         |      |      |  |
|           | 17  | 300mm |    |       | DRAM | 3D NAND |      |      |  |
|           | IC  |       |    |       |      |         |      |      |  |
|           |     |       | IC |       | 2016 |         |      | 2017 |  |
|           |     |       |    |       |      |         |      | 2015 |  |
| 2019      | 10  |       |    |       | Fab  |         | 14   |      |  |



IC

IC

IC

<http://www.semi.org/en/china-ic-ecosystem-report>

[http://www.semi.org.cn/news/news\\_show.aspx?ID=53889&classid=117](http://www.semi.org.cn/news/news_show.aspx?ID=53889&classid=117) Top↑

24

3

10

8

40%

5

50%

“

”

2014

2017 2600 20%

300

2014 220

1300

8 2017 40

2020

16%

13%

9%

2018 9 15

2018 9 5

[http://www.semi.org.cn/news/news\\_show.aspx?ID=53929&classid=117](http://www.semi.org.cn/news/news_show.aspx?ID=53929&classid=117)

Top↑

26

9 13

[http://www.semi.org.cn/news/news\\_show.aspx?ID=53991&classid=117](http://www.semi.org.cn/news/news_show.aspx?ID=53991&classid=117) Top↑

27 / /

270

AMOLED

465.8 22.9%

10 346.8 22%

“ ”

“ ”

369.4 32.9% 10

78.9%

7 10 “ 100

”

50

550

60 411.3 32% 10

75 213.6 54.1%

387 12

“ ”

4 12 28 14

675 “12 ”

14 —10/7 7

---

28

"

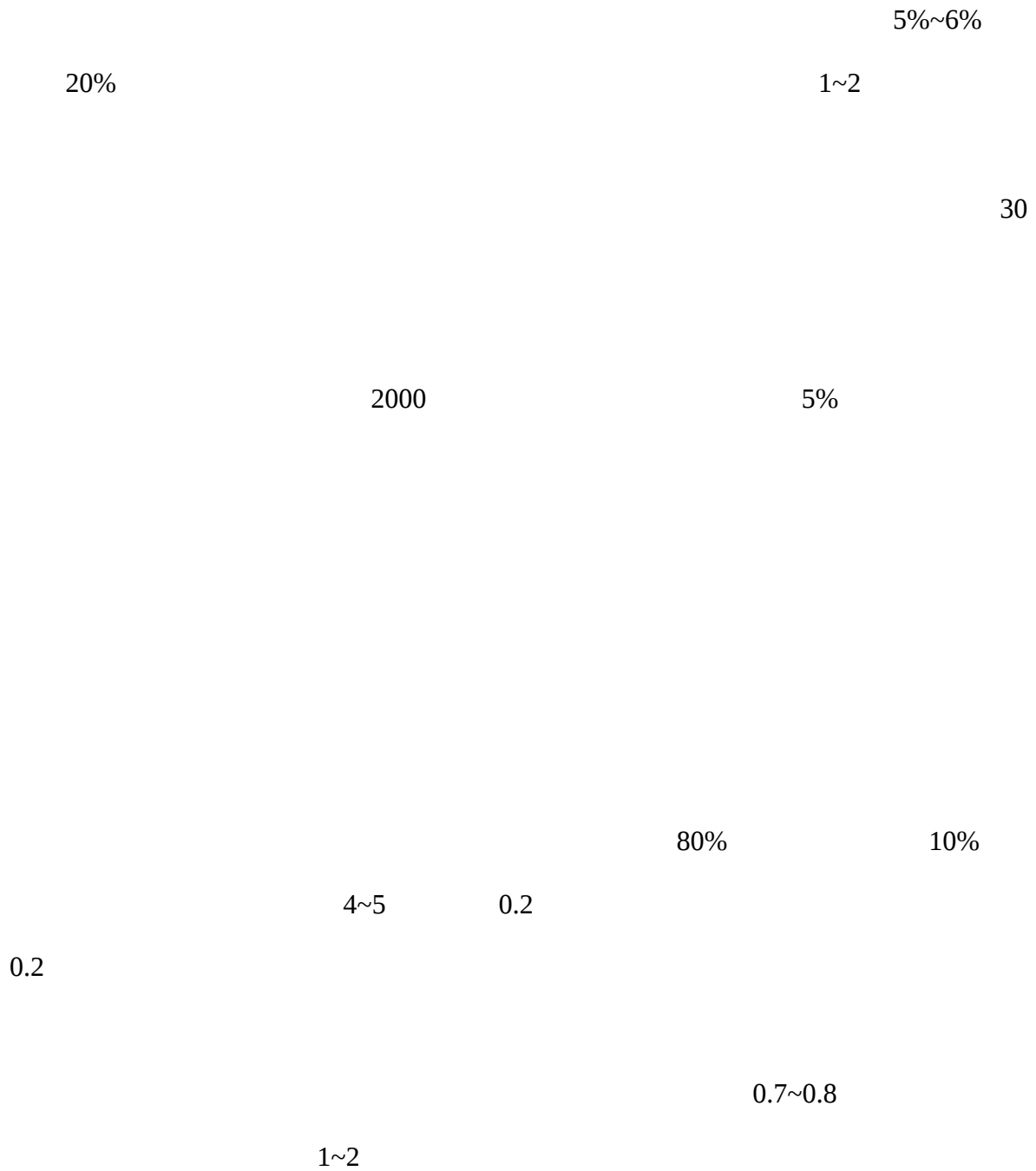
"--

“

”

|       |        |       |           |                  |      |
|-------|--------|-------|-----------|------------------|------|
|       | Mirai  |       | “         | ”                |      |
|       |        | Mirai |           | Yoshikazu Tanaka |      |
| “     | Mirai  |       |           | --               |      |
|       |        |       | ”         |                  |      |
|       |        |       |           | 11000            | 8000 |
| 60000 | (40    | )     |           |                  |      |
|       | FCV    |       |           |                  | FCV  |
|       | 2020   |       | Mirai     |                  |      |
|       |        |       | “         | ”                |      |
|       |        |       |           |                  | 2025 |
| SUV   |        |       |           |                  |      |
|       |        |       |           |                  | 2020 |
|       | Mirai  | 500km | 700-750km |                  | 2025 |
|       | 1000km |       |           |                  |      |

<http://www.compressoronline.cn/index.php?m=content&c=index&a=show&catid=108&id=8123> Top↑





<http://www.compressoronline.cn/index.php?m=content&c=index&a=show&catid=106&id=8138> Top↑

2 2018 “ ”

2018 “ ”

(

1.

1

1

2

1

2.

1

2

2

2

2

“ ”

“ ”

1.

2.

“ ” 3. “

”

<http://www.compressor.cn/News/hyxx/2018/0628/105391.html>

49%

2020

21.7%

2017

2386

2018

2987

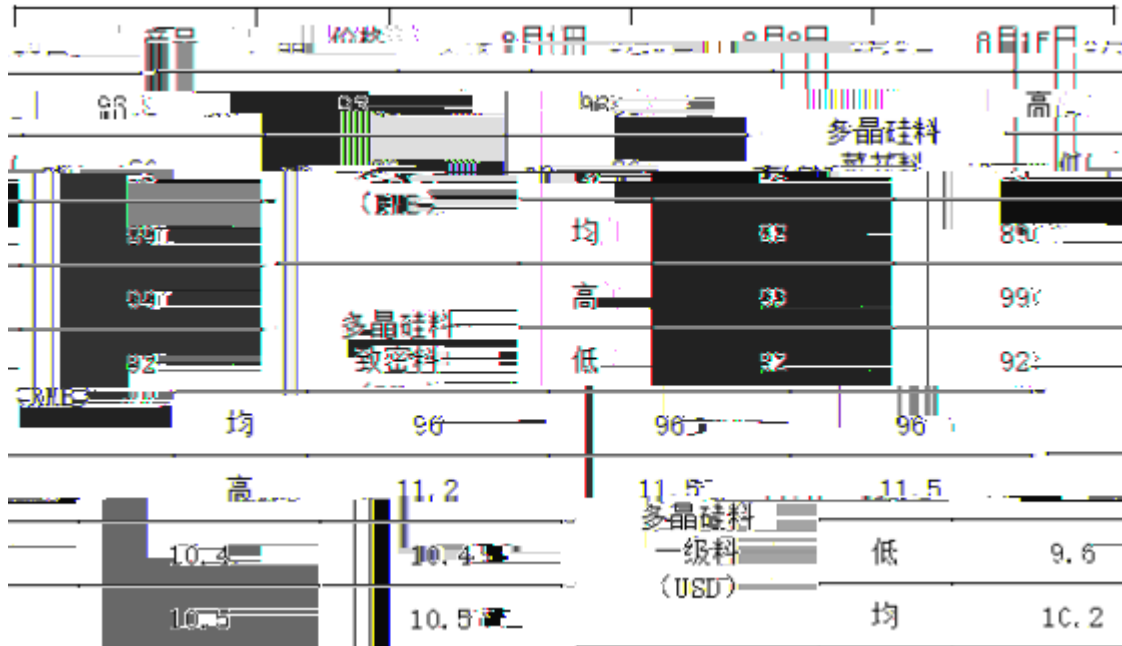
2020

4700

2020

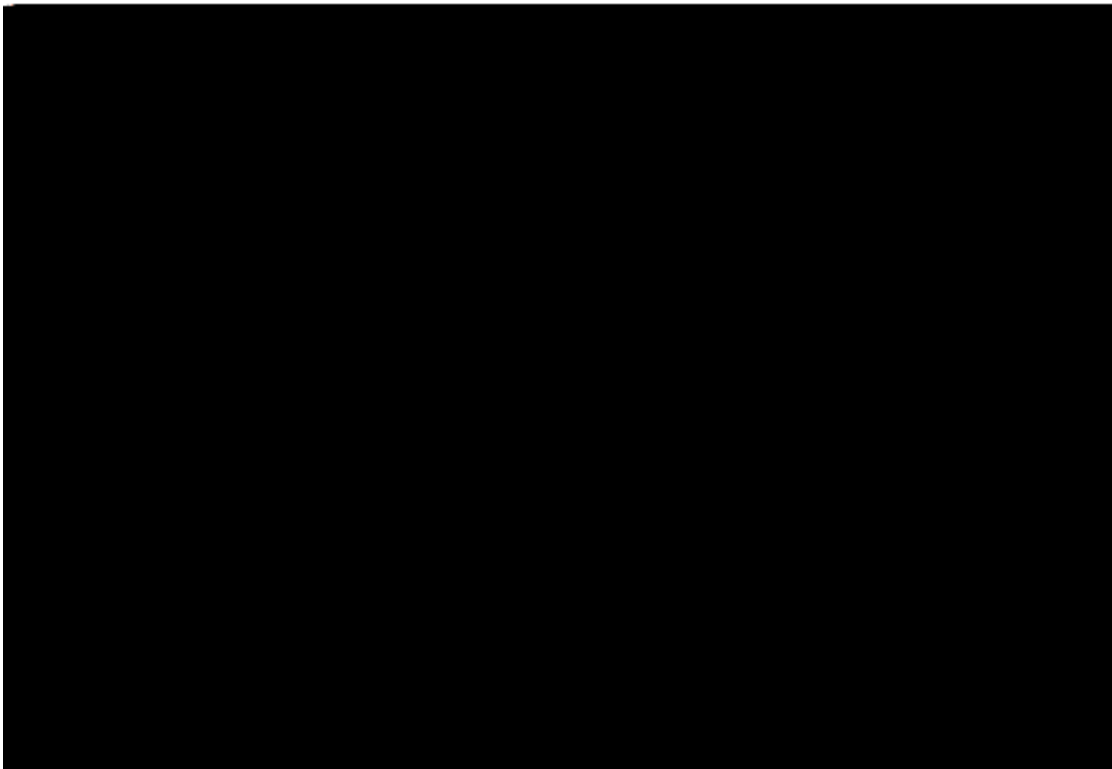
1200

<http://www.chinaiol.com/cold/s/0905/11201057.html> Top↑



| 产品              | 价格     | 8月1日   | 8月8日   | 8月15日  |
|-----------------|--------|--------|--------|--------|
| 多晶硅料            | 96.000 | 96.000 | 96.000 | 96.000 |
| 致密料             | 96.000 | 96.000 | 96.000 | 96.000 |
| 多晶硅料一级料 (USD)   | 10.4   | 10.4   | 10.5   | 10.5   |
| 多晶硅料二级料 (USD)   | 9.6    | 9.6    | 9.6    | 9.6    |
| 多晶硅料三级料 (USD)   | 9.2    | 9.2    | 9.2    | 9.2    |
| 多晶硅料四级料 (USD)   | 8.8    | 8.8    | 8.8    | 8.8    |
| 多晶硅料五级料 (USD)   | 8.4    | 8.4    | 8.4    | 8.4    |
| 多晶硅料六级料 (USD)   | 8.0    | 8.0    | 8.0    | 8.0    |
| 多晶硅料七级料 (USD)   | 7.6    | 7.6    | 7.6    | 7.6    |
| 多晶硅料八级料 (USD)   | 7.2    | 7.2    | 7.2    | 7.2    |
| 多晶硅料九级料 (USD)   | 6.8    | 6.8    | 6.8    | 6.8    |
| 多晶硅料十级料 (USD)   | 6.4    | 6.4    | 6.4    | 6.4    |
| 多晶硅料十一级料 (USD)  | 6.0    | 6.0    | 6.0    | 6.0    |
| 多晶硅料十二级料 (USD)  | 5.6    | 5.6    | 5.6    | 5.6    |
| 多晶硅料十三级料 (USD)  | 5.2    | 5.2    | 5.2    | 5.2    |
| 多晶硅料十四级料 (USD)  | 4.8    | 4.8    | 4.8    | 4.8    |
| 多晶硅料十五级料 (USD)  | 4.4    | 4.4    | 4.4    | 4.4    |
| 多晶硅料十六级料 (USD)  | 4.0    | 4.0    | 4.0    | 4.0    |
| 多晶硅料十七级料 (USD)  | 3.6    | 3.6    | 3.6    | 3.6    |
| 多晶硅料十八级料 (USD)  | 3.2    | 3.2    | 3.2    | 3.2    |
| 多晶硅料十九级料 (USD)  | 2.8    | 2.8    | 2.8    | 2.8    |
| 多晶硅料二十级料 (USD)  | 2.4    | 2.4    | 2.4    | 2.4    |
| 多晶硅料二十一级料 (USD) | 2.0    | 2.0    | 2.0    | 2.0    |
| 多晶硅料二十二级料 (USD) | 1.6    | 1.6    | 1.6    | 1.6    |
| 多晶硅料二十三级料 (USD) | 1.2    | 1.2    | 1.2    | 1.2    |
| 多晶硅料二十四级料 (USD) | 0.8    | 0.8    | 0.8    | 0.8    |
| 多晶硅料二十五级料 (USD) | 0.4    | 0.4    | 0.4    | 0.4    |

| 产品            | 价格 | 8月1日  | 8月8日  | 8月15日 |
|---------------|----|-------|-------|-------|
| 多晶硅片<br>(RMB) | 高  | 2.550 | 2.550 | 2.520 |
|               | 低  | 2.400 | 2.420 | 2.400 |
|               | 均  | 2.500 | 2.500 | 2.500 |
| 多晶硅片<br>(USD) | 高  | 0.330 | 0.330 | 0.330 |
|               | 低  | 0.320 | 0.322 | 0.320 |
|               | 均  | 0.325 | 0.325 | 0.322 |
| 单晶硅片<br>(RMB) | 高  | 3.400 | 3.280 | 3.280 |
|               | 低  | 3.120 | 3.120 | 3.120 |
|               | 均  | 3.150 | 3.150 | 3.150 |
| 单晶硅片<br>(USD) | 高  | 0.450 | 0.420 | 0.420 |
|               | 低  | 0.390 | 0.395 | 0.395 |
|               | 均  | 0.405 | 0.405 | 0.405 |



0 6

95 kg

110 kg

“ ”



---

8                      2    1       W



3

4

8 20

3

8

10

10

2017 1 2018 7

5

8 24

---

2018 9 3

300

500

10

0 85

0 85

0 15

2018 7 1

11

8 8

5

12

2018 8 1

2 2

2 2

2 2

2 2

13

2018 2020

2020

45

14

0 81

8 10

0 0336

0 45

0 4744 0 4814

0 2324 0 2394

15

2020

500MW

2020

450MW

100MW

570MW









”

“

”

“

”

“

”

[http://www.semi.org.cn/news/news\\_show.aspx?ID=54005&classid=117](http://www.semi.org.cn/news/news_show.aspx?ID=54005&classid=117) Top↑

7

5

2018 5 31

2018-2022

<http://news.ehvacr.com/news/2018/0808/104878.html> Top↑

8

| (2017-2018) |      | 2017 |  |
|-------------|------|------|--|
| 40          |      |      |  |
| 2020        |      | 72   |  |
| 2017        | 40   | 32   |  |
| 10          |      | 3    |  |
| 2017        | 2018 |      |  |
| 9120        | 52   | 6    |  |

---

|      |      |      |      |     |      |
|------|------|------|------|-----|------|
|      |      | 2020 | 5000 | /kW | 2030 |
| 600  | /kW  |      |      |     |      |
|      |      |      |      |     | 2020 |
| 1000 | /kW  | 2030 | 150  | /kW |      |
| 2020 |      |      | 3000 | /kg | 2030 |
| 1kg  |      |      | 1800 |     |      |
|      |      | 2030 |      |     |      |
|      |      |      | 40   | /kg | 2020 |
|      | 20   | /kg  | 2030 | 9   | /kg  |
|      |      |      |      |     | 2020 |
|      |      |      |      |     | 2t   |
|      | 1000 | 2030 | 350  |     |      |

12m)

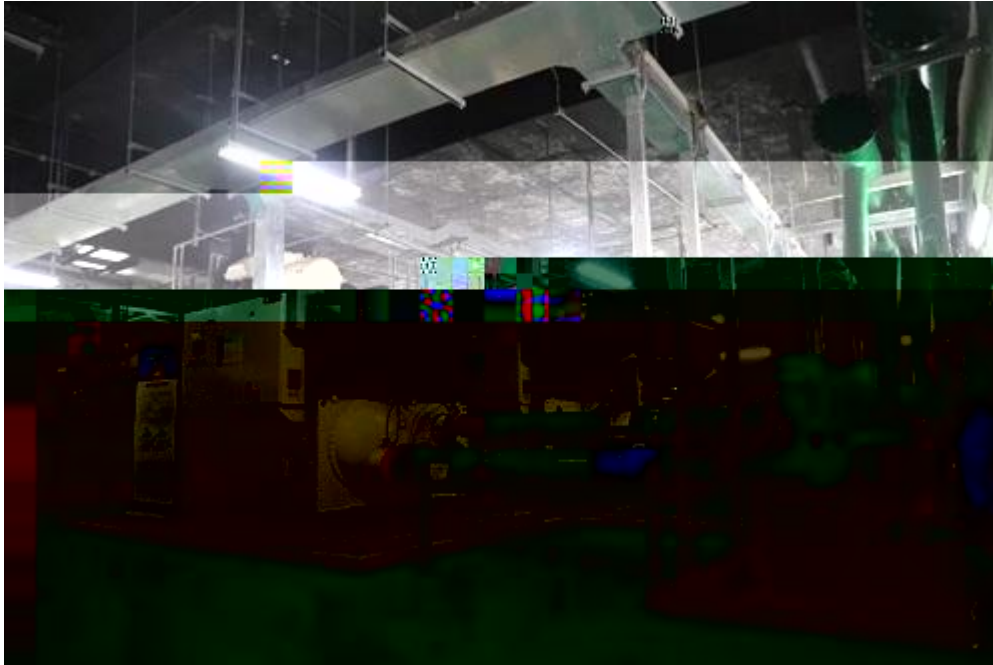
60

15L, 66

----

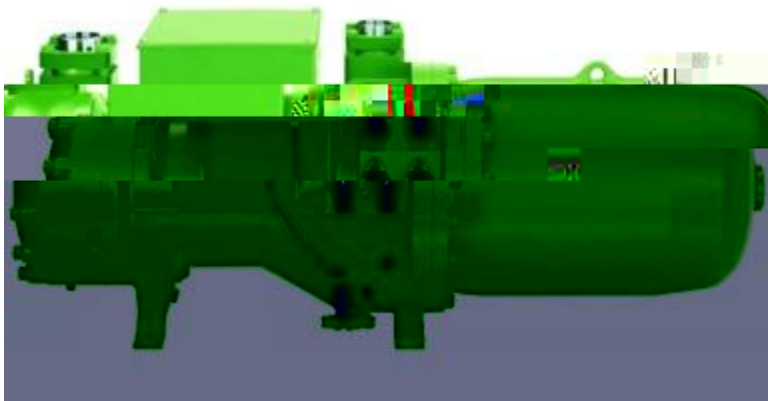
“ ”

COP 6.0



CSW

1



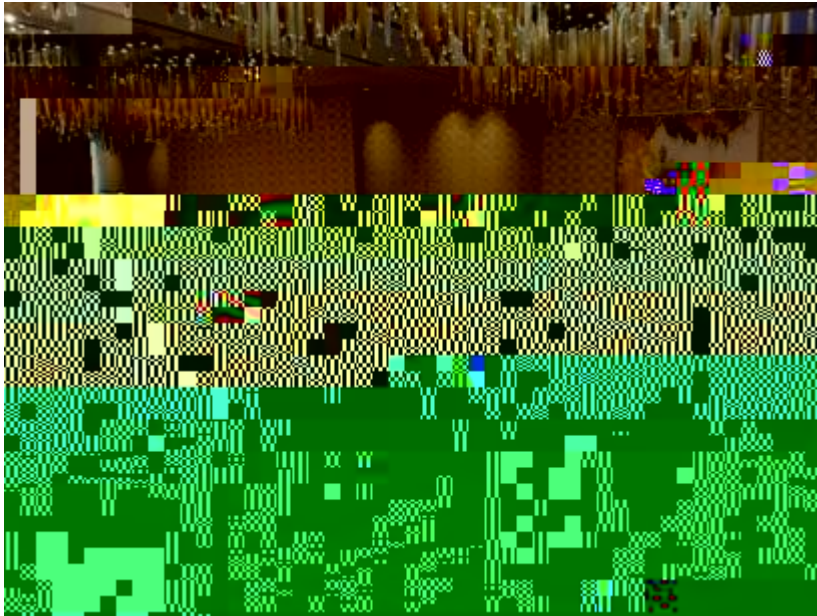
R134a

20°C



<http://www.chinaiol.com/cold/s/0810/53199900.html> Top↑

|   |     |      |       |      |     |
|---|-----|------|-------|------|-----|
| 2 | CO2 |      |       |      |     |
|   |     | UNDP |       | FECO |     |
|   |     |      |       | “    | CO2 |
|   | ”   | 07   | 30-31 | CO2  | 20  |



HCFCs

HFCs

GWP

CO<sub>2</sub>

CO<sub>2</sub>

10

CO<sub>2</sub>

CO<sub>2</sub>

CO<sub>2</sub>

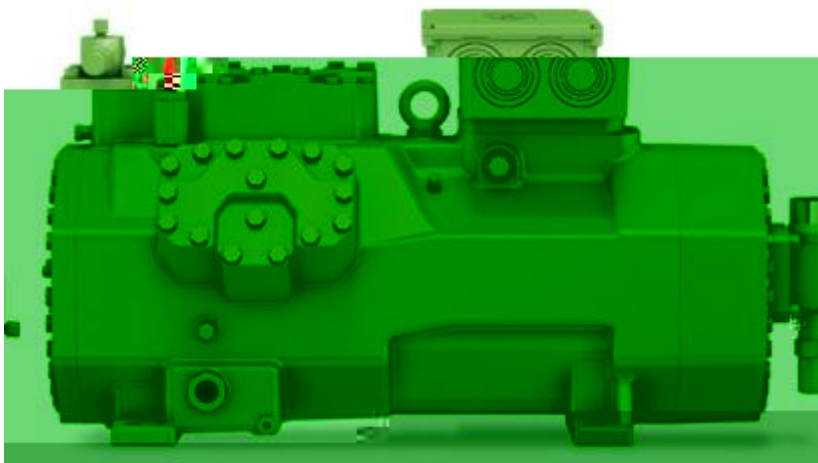
CO<sub>2</sub>



CO<sub>2</sub>

CO<sub>2</sub>

CO<sub>2</sub>



CO<sub>2</sub>

CO<sub>2</sub>

<http://www.chinaiol.com/cold/s/0810/07199902.html> Top↑

8 23 2018

-60℃

-60℃



“

”

-30℃

-60℃

-60℃ 25℃ -18℃ 30~40 -60℃ 5

3

-60℃



-18℃

-60℃

<http://www.chinaiol.com/cold/s/0824/09200511.html> Top↑

4

9 21

“ ”

15

“ ”

2003

15

35%

“

” “ ” “ ” “ ”

“ ”

“ ” “ ”

---

WCFX



DCLCDX



HFC-134a

CCS TOUCH

I-VISION

WCOX

-110~25℃

WCDSX-D

<http://cac.chinaiol.com/s/0921/29201666.html> Top↑

6

9 18 “2018 ” “ ”

20 \_\_\_\_\_

“ ”

“ ” “ ”

“ 2010

”

“ ”

“

”

“

”

“ ”

“

”

“ ”

“

”

“ ”

“ ”

“ ” “ ”

“ ”

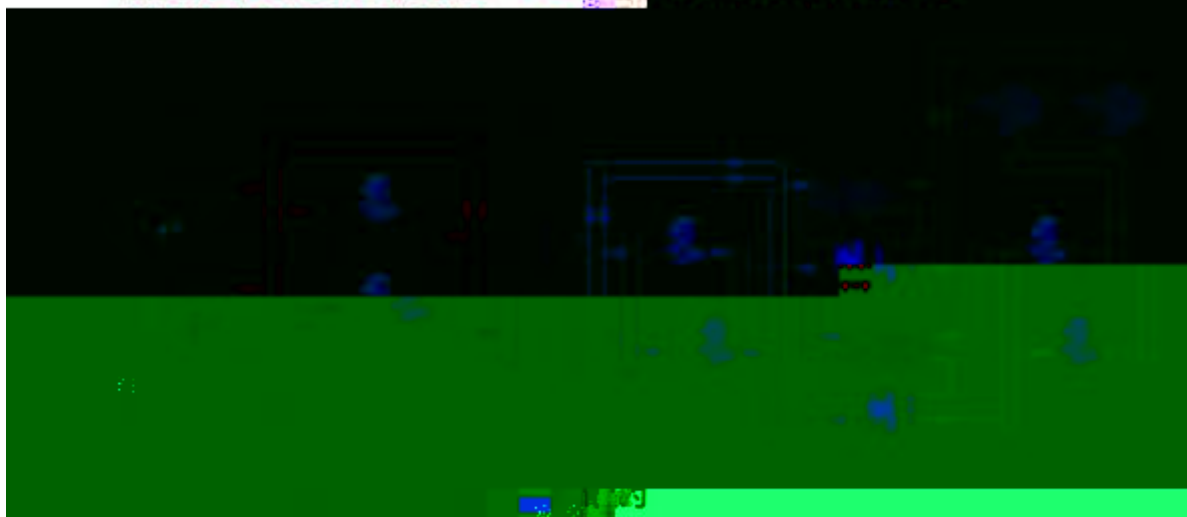
“

7

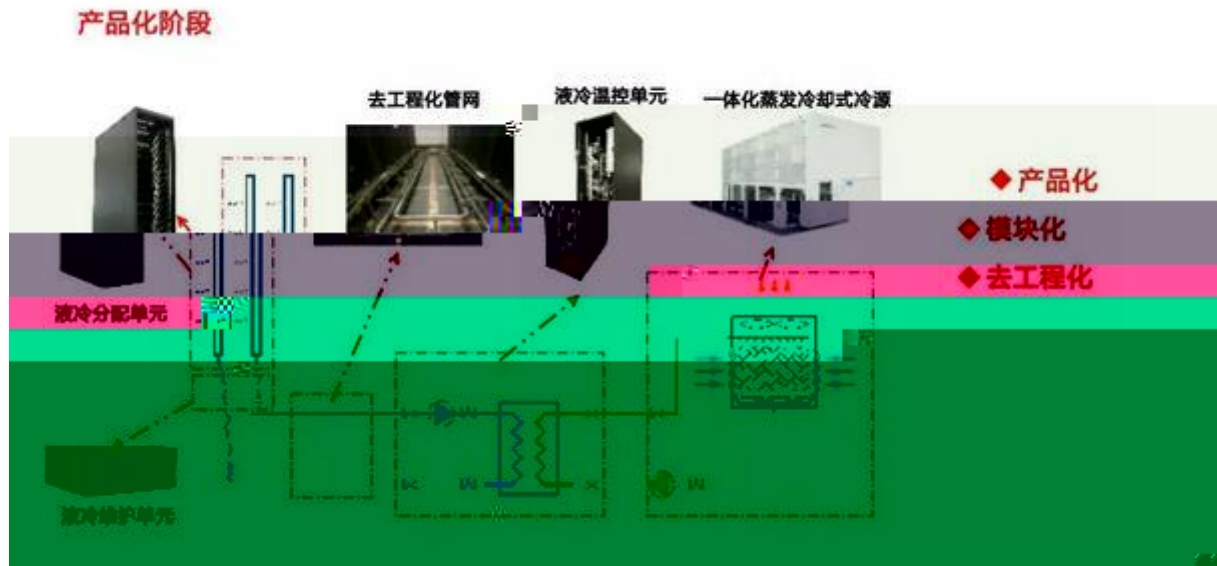
9 14 ICEA “2018 ICT 200 5G ICT +freecooling +freecooling

- 1
- 2
- 3

蒸发冷却式冷水主机系统 VS 传统水冷冷水主机系统



- 降低无效热损
- 降低无效水耗
- 去工程化
- 简化运维



“ ”



数据中心制冷 & 节能整体解决方案专家



房间级精密空调



行级精密空调



机架式空调



蒸发冷却式冷水机组



电力电子设备



热泵空调



自然冷却风冷冷水主机



间接蒸发冷却空气处理机



打造数据中心  
制冷领域“高质量”代名词

0757-23531888

www.shenling.com

★ 冷冻解决方案 ★ 蒸发冷却解决方案 ★ 自然冷却解决方案 ★



中国移动通信集团



云基地集装箱项目



潮州枢纽云计算中心项目



昆明枢纽

建设指挥部

项目

◆ 河北保定移动IDC项目

◆ 北京蓝汛IDC项目

◆ 中国联通阿里巴巴（北京）数据中心项目

◆ 重庆电信新牌坊机房项目

◆ 重庆移动龙洲湾机房项目

◆ 深圳联通机房项目

◆ 上汽电信南汇机房改造项目

◆ 九州汽车集团股份有限公司（二期精密空调项目）

◆ 广西电信铁山坪机房项目

◆ .....

<http://cac.chinaiol.com/s/0920/32201604.html> Top↑

8

15

“ ”

15

“ ”

3

8 27

1

8°C

4°C

50°C

2019

9 30

T2

“ ”

<http://cac.chinaiol.com/s/0829/17200722.html> Top↑

9

“ 4.0”

9 19

(

)

(

)

<http://www.chinaiol.com/cold/s/0912/02201299.html> Top↑

11



“

”

！

2006 8

100

<http://www.chinaiol.com/cold/s/0829/01200710.html> Top↑

12

7 16

Alabama Baldwin

|             |                       |         |                 |   |
|-------------|-----------------------|---------|-----------------|---|
|             | 65000                 |         | 2019            | 2 |
|             | Loxley                |         | 62              |   |
|             | 1100                  |         |                 |   |
| Kaishan USA | CEO, Keith Schumacher | “       |                 |   |
| Loxley      |                       |         | ”               |   |
| “           |                       |         |                 |   |
|             |                       | ”       |                 |   |
| “           | Loxley                | ”Loxley | Billy Middleton | “ |
|             |                       |         |                 |   |
|             | ”                     |         |                 |   |
| Baldwin     | CEO Lee Lawson        |         | Baldwin         |   |
|             |                       | 2017    | Baldwin         |   |
| MSA         | 11                    | 3       | SmartAsset      |   |
| 2009        |                       |         | “               | ” |

<http://www.compressoronline.cn/index.php?m=content&c=index&a=show&catid=107&id=8073>



15 TM

2018 7

TM

“

”

TM

<http://www.compressoronline.cn/index.php?m=content&c=index&a=show&catid=107&id=8130> Top↑

16 7

2018

69

7

69

7

7

<http://www.compressoronline.cn/index.php?m=content&c=index&a=show&catid=106&id=8068> Top↑

17

2018 7

-

,

5

2007

100

-

“

Nicolas Bonleux

1840

BPRT SHRT

“

” “ ”

16GW

20GW

21.08

/

“ ” “ ”

<http://www.compressoronline.cn/index.php?m=content&c=index&a=show&catid=106&id=8062> Top↑

19

1.6

GE

ATB

SIR

OLI

GE

1.6

“SIM”

SIM

GE

1750

100%

100%

10

SIM

GE

SIM

SIM

1+1

2

4.0

20

“

”

1.5

50

3



6

5%



2.5

1.3

4

8

1.2

8

<https://www.ysjw.cn/news/show-2805.html>    Top↑

22

|

8    17

18

1

2017    12    27

1120

1080

100

4    8GW

2018

45GW

83GW

63    2

TOP10



67                      2017                      55

7 2 2

7

1 7 51 8 800

$$10 \quad 5 \qquad \qquad \qquad 2 \quad 2$$

1 7

16    1                          29    8

43 90 17 0

$$5 \quad 4 \qquad \qquad \qquad 2 \quad 2$$

21    2       139    1

8 16

Buffalo

2016 26 SolarCity

SolarCity

SolarCity · ElonMusk

SolarCity 6

9 SolarCity 12

HomeDepot SolarCity

|      |           |     |
|------|-----------|-----|
| 2015 | SolarCity | 253 |
|------|-----------|-----|

76

72

9 19

16

1 246 066 96

12 24

91 935 44

16 14

88 994 56

15 85

Buffalo

2016

26

SolarCity

SolarCity

2017 8

Buffalo

SolarCity

.

Elon Musk

SolarCity

6

9

SolarCity

12

Home Depot

SolarCity

2015

SolarCity

253

76

<https://solar.ofweek.com/2018-08/ART-260008-8460-30258505.html> Top↑

24

8 18

12

11

25

<https://solar.ofweek.com/2018-08/ART-260002-8460-30258622.html> Top↑

25

3GW

3 3GW

2018

2012

COMSYS

200

47

3 3GW

430

350

PID

PERC

PERC

PERC

“

”

<https://solar.ofweek.com/2018-08/ART-260008-8460-30257388.html> Top↑

26

“ ” “

” “ ”

“ ”

8+12

“ ”

“ ” “ ” “ ”

“ ” 2018 3 2 4 3  
3 6 25 3  
7 21 4 “ ”  
8 12 —

2019 1

[http://www.semi.org.cn/news/news\\_show.aspx?ID=53702&classid=117](http://www.semi.org.cn/news/news_show.aspx?ID=53702&classid=117) Top↑

27 “ ”

8 13

PowerPC CPU

PowerPC

C\*Core CPU

C2000/C8000/C9000

CPU

“ ”

2014 9

3

2017

67

1188

4

5%

11

3200

350

6

28

12

1987

2

6

2

4

[http://www.semi.org.cn/news/news\\_show.aspx?ID=53678&classid=117](http://www.semi.org.cn/news/news_show.aspx?ID=53678&classid=117) Top↑

28

7 30

7 30





2210

70

2210

“ ”

“ 2018 6

2210 1054 60

326 569 31 674 5

150 ”

2017 2018 -2019

100 594

“

31

|    |              |                               |                |                  |   |
|----|--------------|-------------------------------|----------------|------------------|---|
|    | 9            | 5                             | --             | Hydrogen Council |   |
|    | Air Products | SINOPEC                       | (thyssenkrupp) |                  |   |
| 15 |              | (Mitsubishi Heavy Industries) | Re-Fire        |                  | 7 |

Re-Fire

2017

|                    |     |             |         |       |
|--------------------|-----|-------------|---------|-------|
| Anglo American plc |     | Air Liquide | Iwatani | Linde |
| Shell              |     | Statoil     | Total   |       |
|                    | 18% | 6Gt         |         | 2.5   |
| 3000               |     |             |         |       |



K

50

65°C      125°C

RC2-Z   LB   LT   RG

LB

LT

LB-PLUS

LB-PLUS

-35~0°C

LT

COP      26%

LT-S-L

LT

LT-S-L

8%

10%

1

2

3





LT-S-L

LT

:

1

2

3

o1-18°C —LB VS RC2

o2-35°C —LB VS LT

o3 — VS LT

1

2

3

1 RC2-G R134a 80°C 15°C

2 LT-S-H R134a 90°C 15°C

3 RC2-T 100°C

4 LT-S-A -35°C 60°C

1

2

3

t

:

Top↑

4 342.00 4.70%

2018-07-04

7 2

832605 342.00 4.70%

,3,420,000.00 ,0

2018 6 29 2018 12 28

, ,

2017 12 31 2.31 1.23

7017.03 20.83% 793.00 29.38%

002158

Top↑

5      2018

2018-07-11

973

2017

2020

1000

17

2018    2

\_\_\_\_\_

2018    5

Mirai



DCDC FCU

Ballard Plug Power Hydrogenics

Doosan

EWII

.....

Connectivity                      .....

TE

4.5R%0

300

4 20-21 ▼

2018

TrendBank ▼

TrendBank unima

/

Top↑

6

2018-07-17

Wind 2016 5 31 2016 7

11 45.79% 39.68 2016 7

12 2018 7 13

48.41% 42.94

2016

9 4

5

5

2 ,3

,

17897

1418

2020

21.7%

|       |       |       |
|-------|-------|-------|
|       | 30%   | 14    |
| 12    |       |       |
|       |       | 289   |
| 290.7 | 21.2% | 29.5% |
| 12.4% |       |       |

Top↑

7 A

5

2018-07-18

1

MLF

1:1 MLF

 $AA+$ 

AA

 $AA+$ 

2

3

“

”

18

“

”

T3

4

“ ”

5 IPO  
IPO

IPO

6 CSX  
6 13 2 1  
60 1227.90

1% 68.76  
600 0.5% 387.06

2800

OLED

8

15%

3275

2000

(7.63 +0.93%, )

(5.61 -0.71%, )

7 17

11680 /

41.08%

12500 /

(7.28 +6.43%, )

(5.24 +0.58%, )

18

“ ”

“ ”

“ ”

2016 1

(9.50 +2.26%,



|                  |      |                 |     |
|------------------|------|-----------------|-----|
| (5.66 +2.91%, )  |      |                 |     |
| (7.49 +0.00%, )  |      | 50%             |     |
| (8.79 +1.38%, )  | 7.25 |                 | 49% |
| (0.00 +0.00%, )  | 4.71 |                 |     |
| (5.18 -0.77%, )  | 1.66 | PPP             |     |
| A(7.94 +2.19%, ) |      |                 |     |
| (44.40 +0.93%, ) | 6.6  |                 |     |
| (4.26 +0.95%, )  | 1.83 |                 |     |
| (0.00 +0.00%, )  | 1.8  |                 |     |
| (15.20 +3.33%, ) |      | 6               |     |
| (3.60 +3.75%, )  | 7.36 |                 |     |
| (15.81 +2.60%, ) |      |                 |     |
| (19.40 +0.00%, ) |      | (5.50 -0.90%, ) |     |
| .....            | Top↑ |                 |     |

8

2018-07-20

|      |      |      |      |
|------|------|------|------|
| 2017 | 1418 | 2018 | 2158 |
|      |      | 4700 |      |



A

1



002463

PCB

( )

(27.42%)

603306 ( )

,

603799

002158

1943

1969-1994

1994

2011 11

000536

2005

1971

1989

2008

44.51 /

60

A

300260

ASME BPE

603922

2003 ,

,

ED

603929

2002

2008

IC

603160

2002







“ ”

A

LKJ15S



300 /

1000 /

Top↑

12

2018-08-30

3

|  |       |                 |          |
|--|-------|-----------------|----------|
|  |       | 11-7            | 2018 021 |
|  |       | 18 F<br>1-1 1-2 | 2018 022 |
|  | 23 25 | 1               | 2018 023 |

Top↑

14 “ ” A

2018-08-22

[ ] 8:30

1. “ ” A 5
2. A 6
3. 5
- 4.[ ]
- 5.PTA 40% 4
6. 5G 6 5G
7. 4
- “ ” A 5
- ( “ ”)6 29
- 8 ( ) ( “
- ) IPO
- A

002371                      300604                      300666                      603690

603929

A                      6

300                      500

“

”                      50

A

50

50                      600030                      600036                      601211                      601288

601318                      601336

5

“ ”

30%    2021                      18.7

002065                      300075                      300212                      600171

600602

[                      ]

0.8%                      0.5%                      0.9%                      (CNH)

04:59 6.8351

PTA 40% 4

PTA PTA1809 PTA1809

2500 40% PTA1809 4.58%

PTA -PTA

PTA 000703 002493 600346 601233

5G 6 5G

8 20

5G

5G

4 5G

5G

2018

5G

5G 300570 002913 603559 300312

300563 002792

4

2017

1200

1.3

20%

2020

4700

75%

“

GDP ”

2030 15.7 GDP 7

2035 27% GDP 27

3 2018 8 24

2018 8 24 2729.43 0.18% 8484.74

0.20% 1044.38 0.25%

4 2018 8 24

5 2018 8 24

5.1

002529 2018

17111.61 0.46%

2618.12 0.56%

ST 600421 2018

-34104.54 100.20% -339.52

002613 2018

6.25 41.81% 1.01 542.86%

0.76 393.33% 0.0813

393.50% 5.14%

000903 2018

---

|         |           |        |          |          |
|---------|-----------|--------|----------|----------|
|         | 318941.73 | 9.47%  | 20323.01 |          |
| 19.98%  | 20303.63  | 4.63%  |          | 17650.49 |
|         | 5.93%     |        |          |          |
|         | 300193    |        | 2018     |          |
|         | 45116.07  | 12.49% |          | 10262.47 |
|         | 21.46%    |        | 8634.50  |          |
| 20.68%  |           |        |          |          |
|         | 603855    |        | 2018     |          |
|         | 67199.76  | 21.99% |          |          |
| 5543.33 |           | 72.83% |          |          |
|         | 4258.86   | 48.02% |          |          |
|         | 300210    |        | 2018     |          |

5.80%

0.92%

603277

2018

2018

68616.60

3.51%

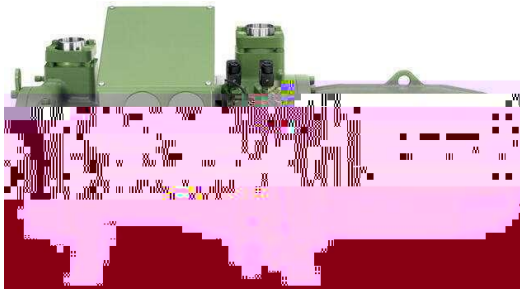
11648.39

0.83% ..... Top↑

16

2018-08-27

|      |            |      |            |     |
|------|------------|------|------------|-----|
| 1994 |            |      |            |     |
| 1997 | Hailfingen |      | EEC1836/93 |     |
| 1998 |            |      |            |     |
| 1999 | CO2        |      |            | CSH |
| 2003 |            | ESH7 |            |     |
| 2003 |            | CO2  |            |     |
| 2005 |            |      |            |     |
| 2008 |            |      |            |     |
| 2009 | R410A      | /    |            |     |
| 2009 | CSW        |      | R134a      |     |
| 2009 | HSK        |      |            |     |
| 2010 | R134a      |      | ECOLINE    | CSH |
| 2010 | 2600       |      | 5          |     |



1

1968

UL CE

PED

ISO-9001

2004 039

2005 2 23 ,

(2005)29 , 130 , HERMES EQUITIES CORP.

CAPITAL HARVEST TECHNOLOGY LIMITED 65

2005 2020 2005 5

, (2005)34 , HERMESEQUITIES

CORP. 3.75 ( 0.75%),

1.25 1.25

CAPITAL HARVEST TECHNOLOGY LITIMED

3.75 ( 0.75%)

,

2005 5 30

024506

4





<https://baijiahao.baidu.com/s?id=1608949480644837003&wfr=spider&for=pc> Top↑

17

2018-08-29

7.2%

7

|       |        |   |     |       |        |        |      |      |
|-------|--------|---|-----|-------|--------|--------|------|------|
|       | 2018   | 7 |     | 11123 |        | 45.28% |      | 8745 |
|       | 26.74% |   | 479 |       | 38.84% |        | 1383 |      |
| 2.47% | 2018   | 6 |     | 548   |        | 28.34% |      | 3198 |





