

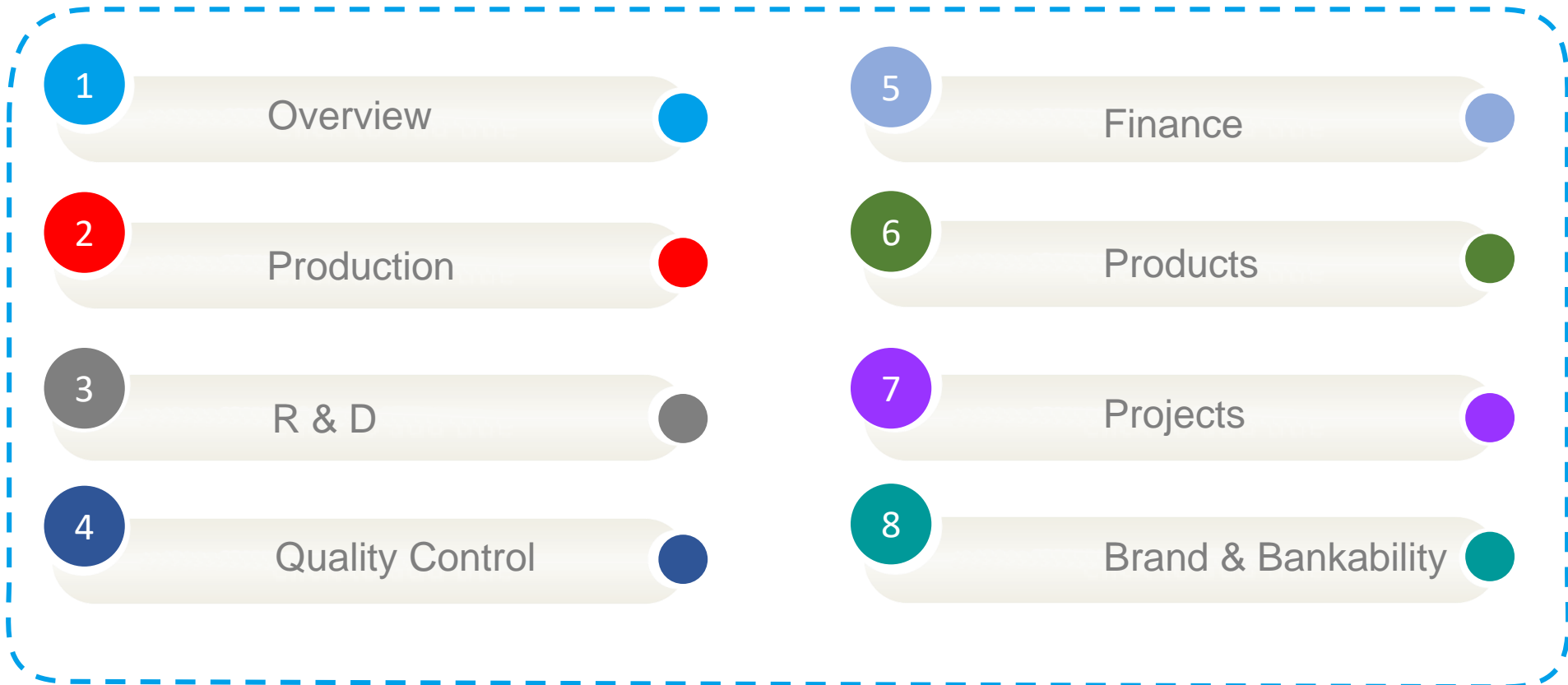
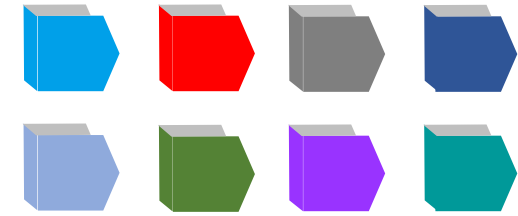


# Company Presentation

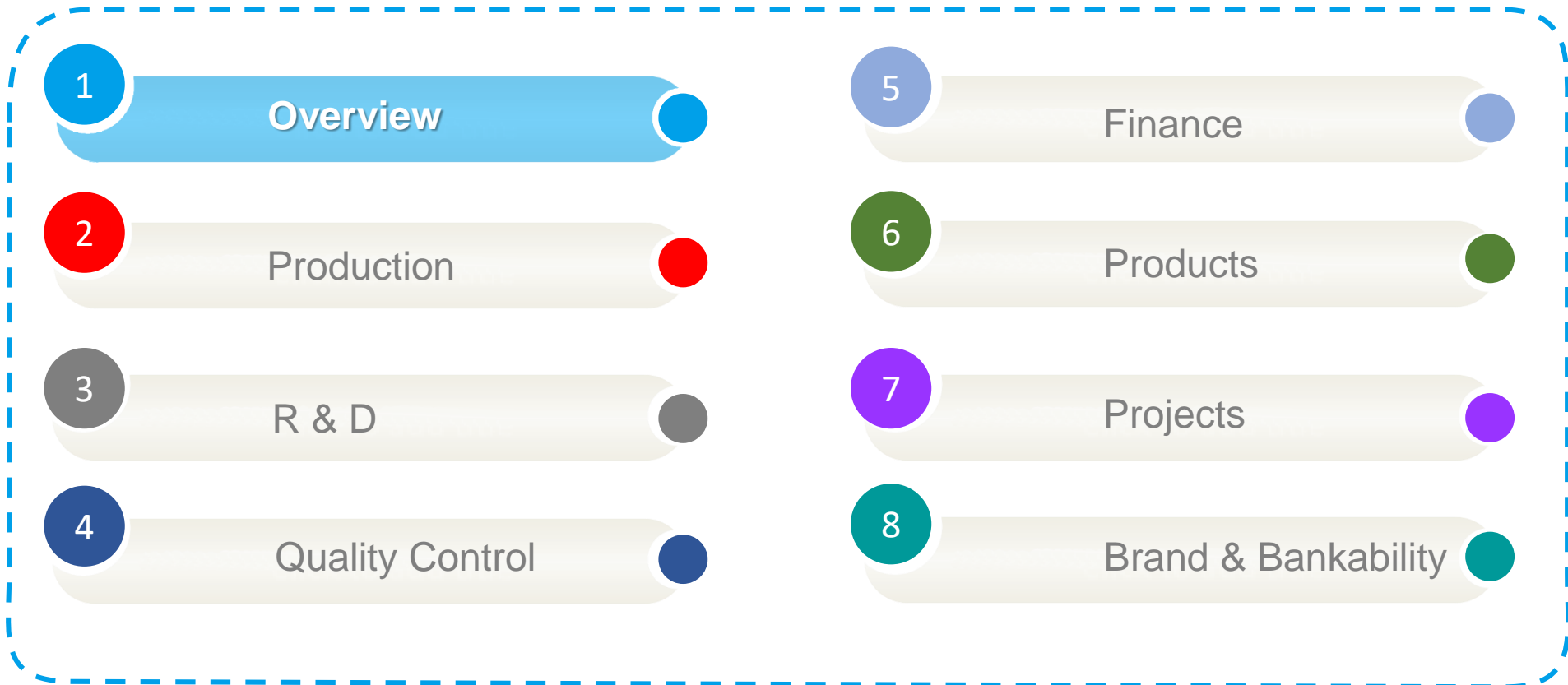
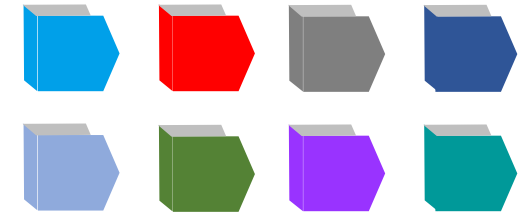
2019



Content



Content



## Company Overview

### About EGing

Founded in 2003, in Changzhou, China

1 single manufacturing campus

Listed on the Shanghai stock market (SH600537)

2 GW module production in 2016 (0.6GW capacity planning)

\$800 millions of revenue in 2015 (NP \$36 millions)

2,700 employees worldwide



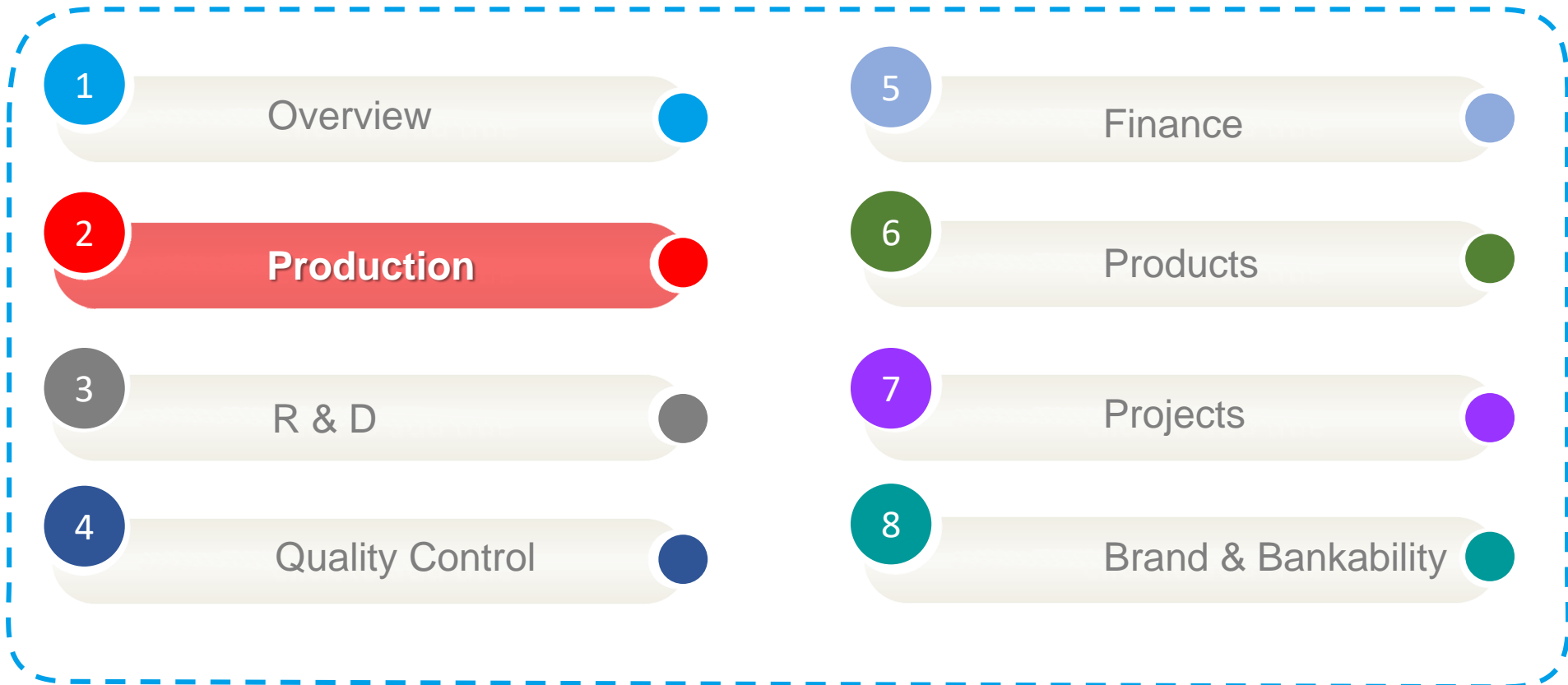
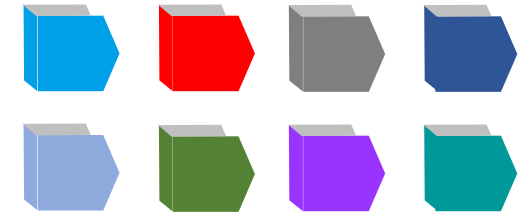
West campus



East campus

**World's Most Advanced Fully Automated Module Line**  
**Vertically Integrated Production Chain**

Content



## Production

### Fully automation

Equipped with the world's  
Most Advanced Fully  
Automated Module Lines  
from Reis Robotics Germany



Module



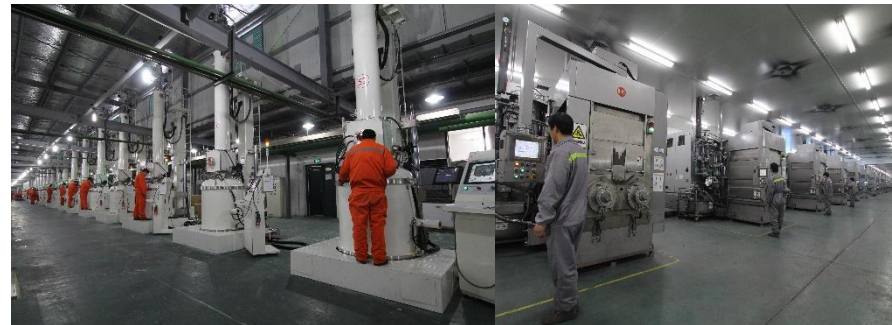
## Production

### Vertical integration

Integrated from ingot, wafer, cell to module with each annual capacity 2GW



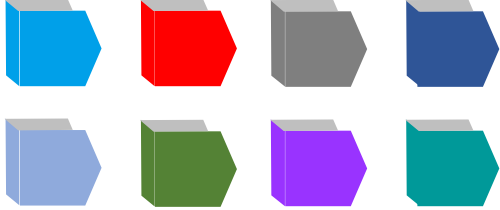
Ingot



Wafer



Cell



|   |                 |   |                     |
|---|-----------------|---|---------------------|
| 1 | Overview        | 5 | Finance             |
| 2 | Production      | 6 | Products            |
| 3 | R & D           | 7 | Projects            |
| 4 | Quality Control | 8 | Brand & Bankability |



R&D



EGing PV has Strong R&D capabilities enabled it to obtain over 500 patents and remarkable achievements across the solar PV value chain



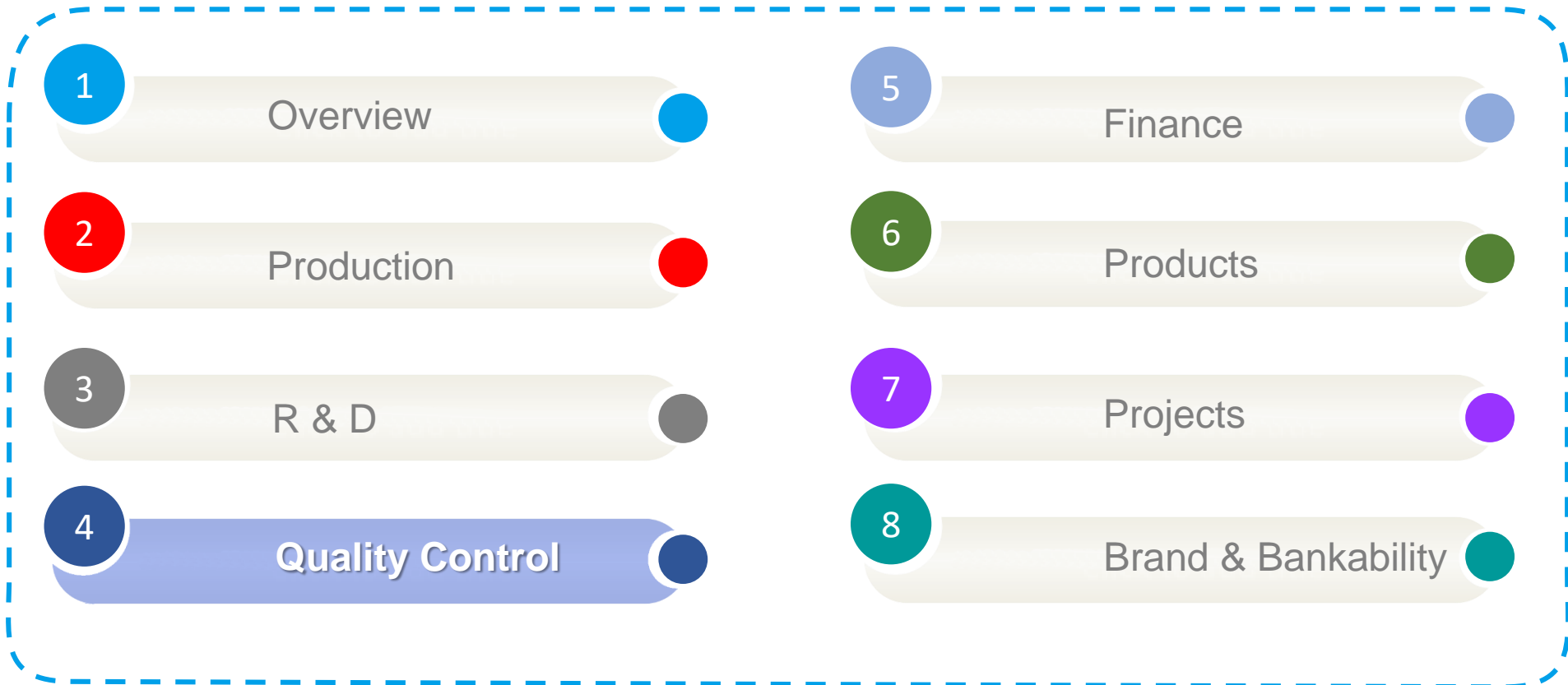
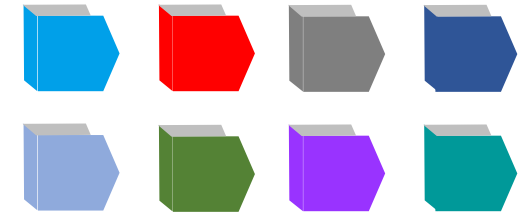
Jiangsu EGing PV Engineering Research Academy was founded in 2006 with 300M RMB investment and covers 50,000 m<sup>2</sup>.

“International Technology Cooperation Base” awarded by Ministry of Science and Technology of the People’s Republic of China

In-house VDE certified testing Laboratory

In-house CNAS certified testing Laboratory

Content





## QUALITY CONTROL

### Building Quality into all Aspects

EGing maintains one of the highest industrial standards for the design, performance, and workmanship of its solar products to ensure a reliable power supply of the PV system for well over 25 years



Every cell and module is subjected to at least 36 steps of the most stringent quality inspection procedures

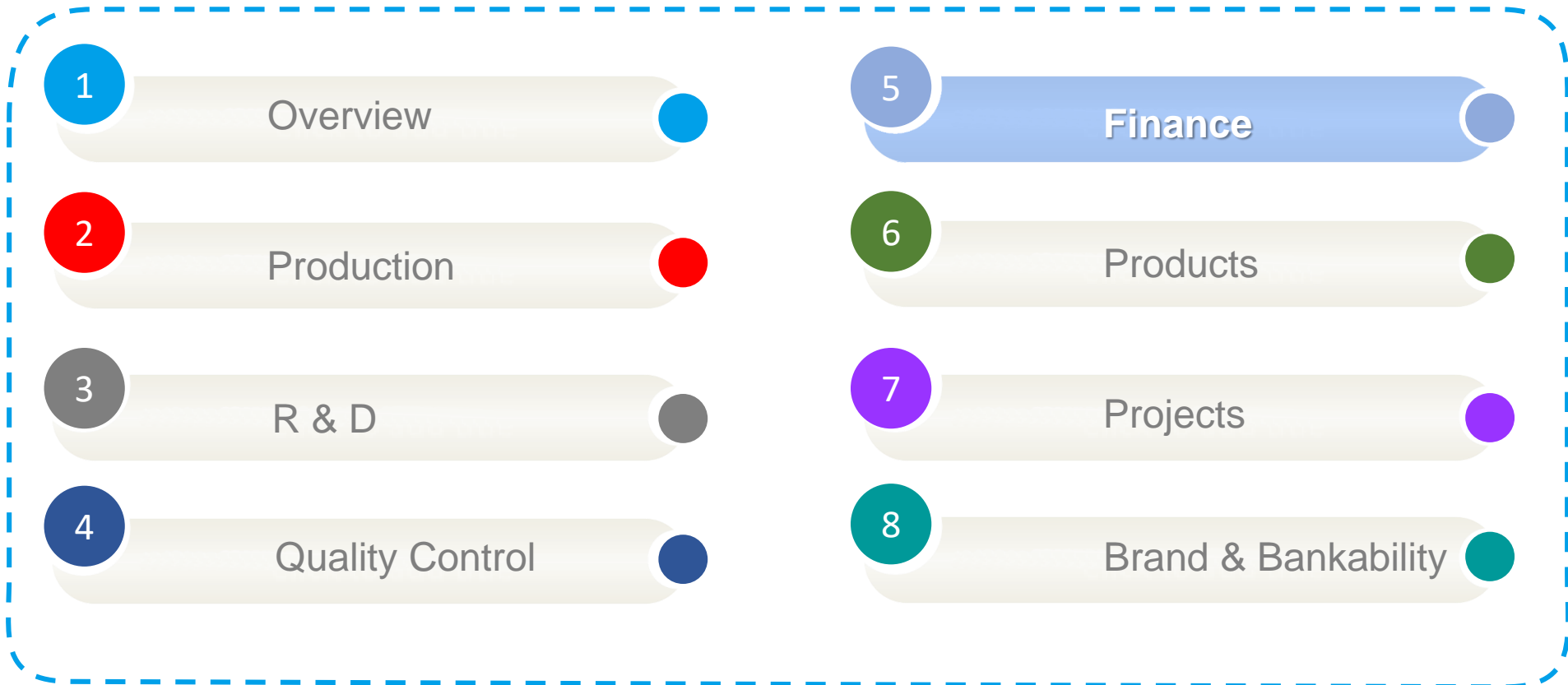
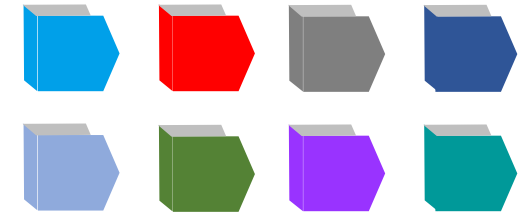
Undergoes comprehensive in-house testing in the most advanced VDE certified testing lab for raw materials and modules

In-house tests extreme conditions such as tropical humidity, desert heat, coastal salt mist or agricultural ammonia enveloped atmosphere

Each module is subjected to 3 levels of EL test, after stringing, before and after laminating respectively to ensure free of micro-crack

Equipped with the world's best inspection equipment from Europe such as stringer, laminator, flash tester, EL tester etc

Content



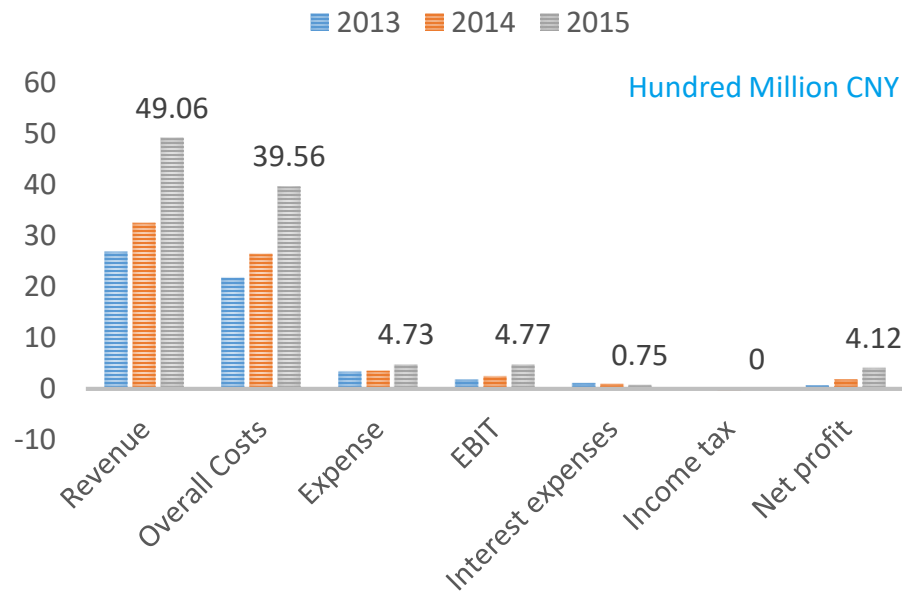


## Company Overview

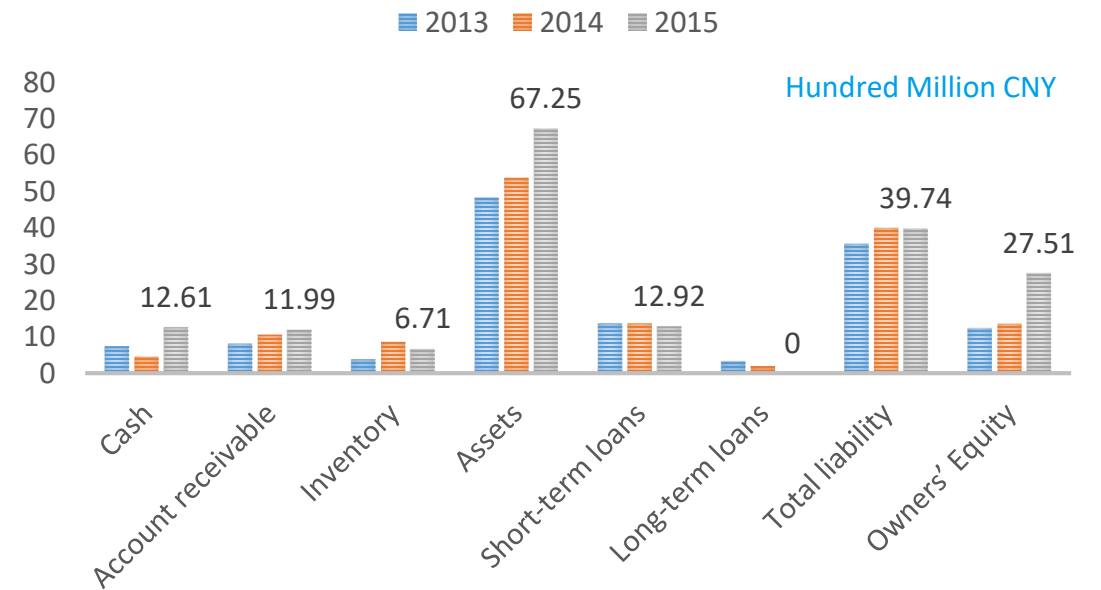
### Finance

From the main indicators of income and balance sheet, EGing shows very strong increasing on sales and profit, and excellent debt-to-assets ratio

### INCOME STATEMENT



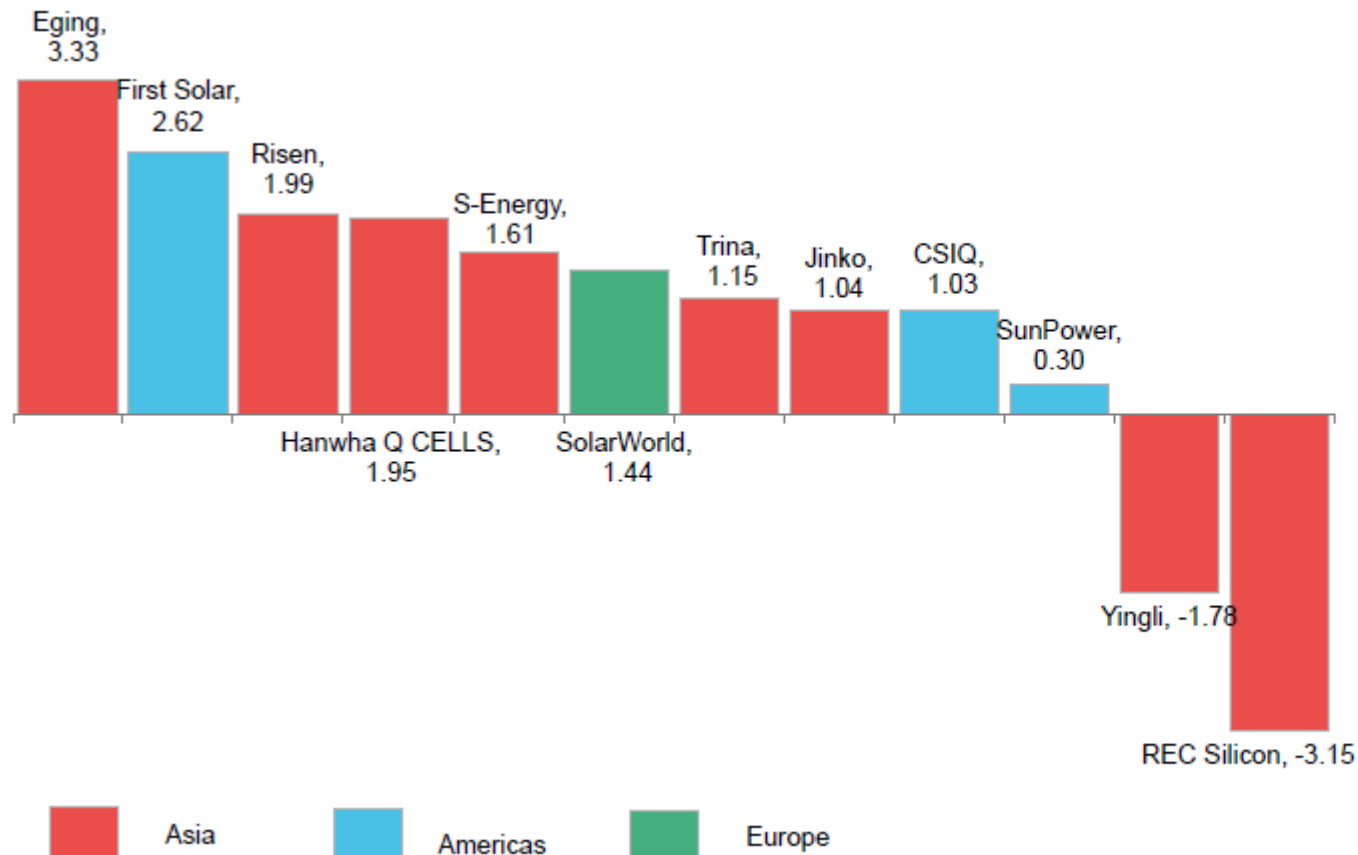
### BALANCE SHEET



## Company Overview

### Finance

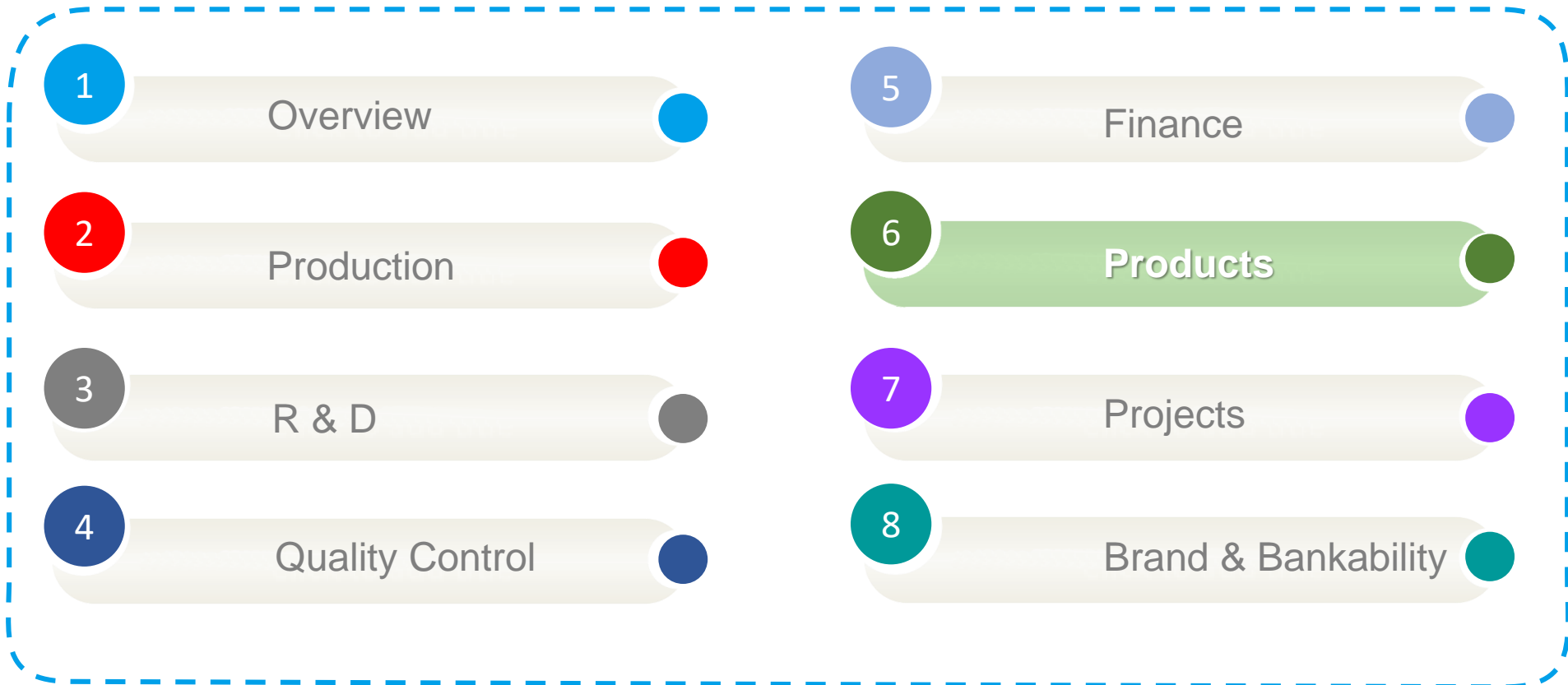
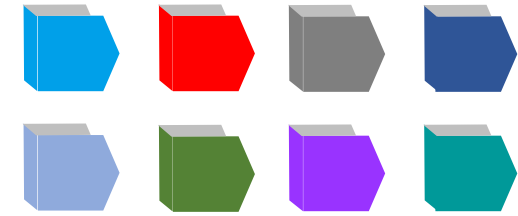
Altman-Z scores of selected solar companies, as of latest filing, February 2017. Eging was ranked the best.



- The Z-score formula may be used to predict the probability that a firm will go into bankruptcy within two years. A score below 1.8 means the company is probably headed for bankruptcy, while companies with scores above 3 are not likely to go bankrupt.
- From the chart, most of the solar companies are at the low zone



Content



## Products

### Rainbow Cells

Mono, up to 21.8% efficiency

Poly, up to 20.8% efficiency

5BB-Design reduces cell series resistance and stress, improves the efficiency of modules

Application of double-printing technology to improves solderability

Excellent anti-PID performance

Lower Cell-To-Module loss

## Technology Innovation

### PERC 5BB



### PERC+ BlackSilicon



Coming soon the 12BB, Half-cell products in 3Q17

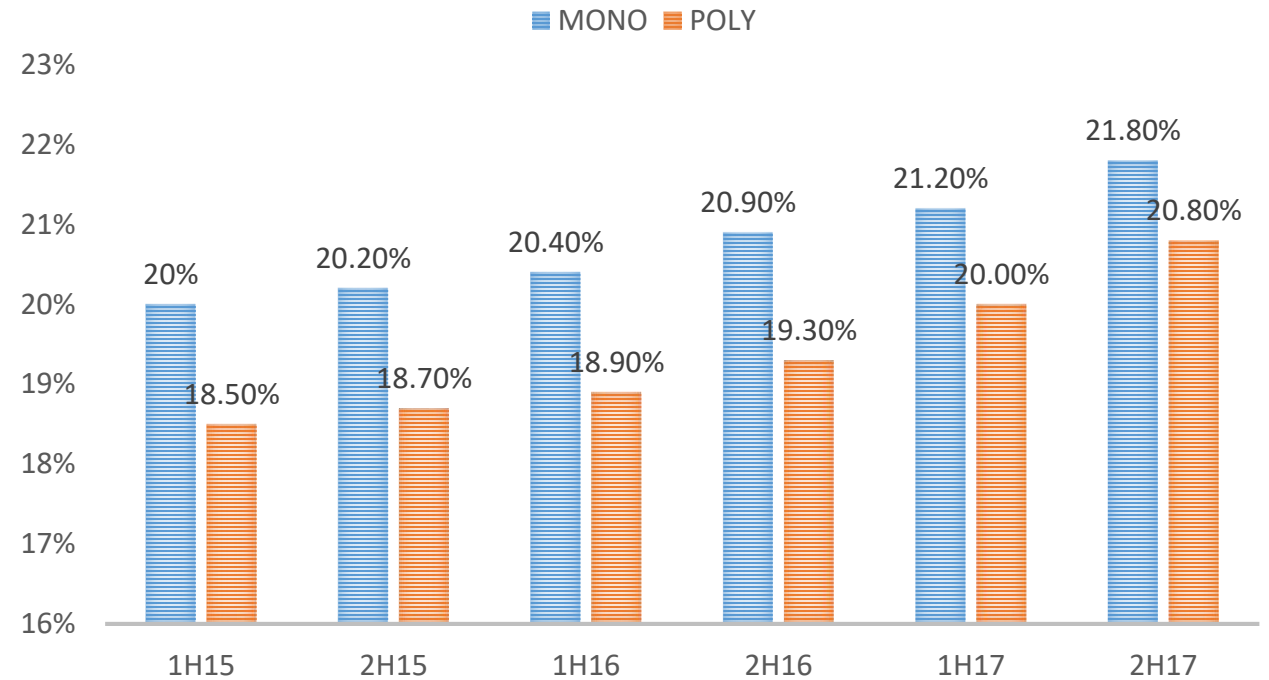
## Products

### Rainbow Cell Roadmap

In 2Q15 EGing launched the commercial production of Rainbow200 high efficiency module production, cell efficiency 20.0% and panel efficiency 17.4%.

The next generation Rainbow218 is coming now, 21.8% of cell efficiency for mono

### ROADMAP OF RAINBOW SERIES EFFICIENCY



## Products

### Standard Poly Modules

Poly 60 cell: 250-270wp

Poly 72 cell: 300-320wp



#### High Cost-performance

BOM materials all comes from tier1 manufactures to ensure the quality

100% in-house cells are used to lower the cost and make the panels more uniform

JV company with silver paste manufacturer in Japan and strategic relationship with DuPont

Long-term contract of polysilicon to lower the silicon cost per watt

## PID-Free



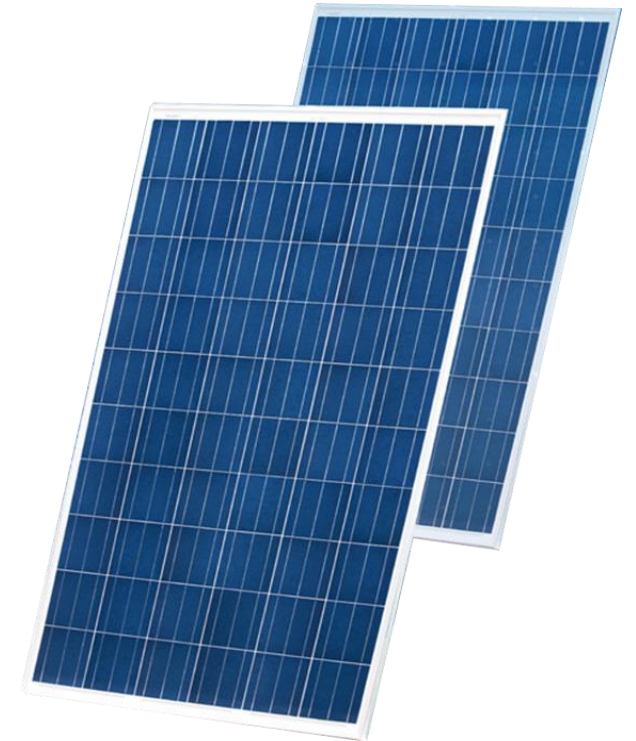
#### High Reliability

Fully automated production facilities using state-of-the-art plant technology from Germany

Three level electroluminescence (EL) tests guarantee fault-free modules

Double-printing cell processing to Lower contact resistance and optimize soldered connections

Excellent anti-PID performance





## Products

### Rainbow Poly Modules

Poly 60 cell: 275-285wp

Poly 72 cell: 325-340wp



#### High Efficiency

Outstanding Cell efficiency 20.8%,  
Module 18.7%

Approx. 10% more power output  
per unit, >20Wp per panel than  
industry average

Reduction of land costs 8%,  
installation costs 6% and BOS cost  
5%

<2% annual power degradation, PID  
test achieve the best level [Class A]



#### High Reliability

Fully automated production  
facilities using state-of-the-art plant  
technology from Germany

Three level electroluminescence  
(EL) tests guarantee fault-free  
modules

Double-printing cell processing to  
Lower contact resistance and  
optimize soldered connections

Optimized low-light output  
performance

## Premium, 20W>industry average



## Products

### Rainbow Mono Module

Mono 60 cell: 295-315wp

Mono 72 cell: 340-370wp



#### High Efficiency

Outstanding Cell efficiency 21.8%,  
Module 19.2%

Approx. 10% more power output  
per unit, >20Wp per panel than  
industry average

Reduction of land costs 10%,  
installation costs 9% and BOS cost  
8%

<2% annual power degradation, PID  
test achieve the best level [Class A]



#### High Reliability

Fully automated production  
facilities using state-of-the-art plant  
technology from Germany

Three level electroluminescence  
(EL) tests guarantee fault-free  
modules

Double-printing cell processing to  
Lower contact resistance and  
optimize soldered connections

Optimized low-light output  
performance

## Premium, 20W>industry average



# Products

## Certificates---product



TUV



MCS



VDE



UL



CE



JET



CB

# Products

# Certificates---testing



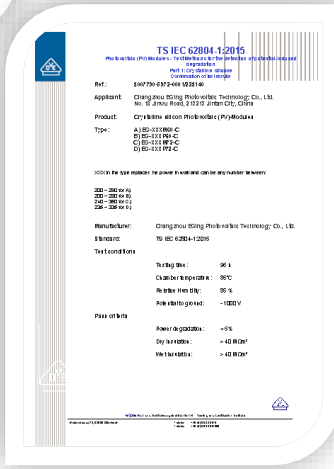
VDE Lab



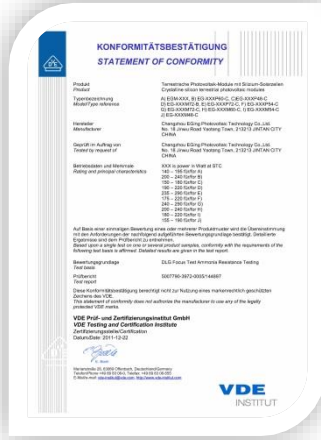
ROHS



Salt Mist



PID



Ammonia

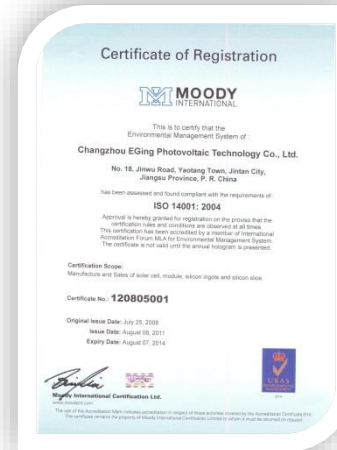


# Products

## Certificates---management



OHSAS 18001



ISO14001:2004



ISO 9001:2008



IECQ



Products



Certificates---awards



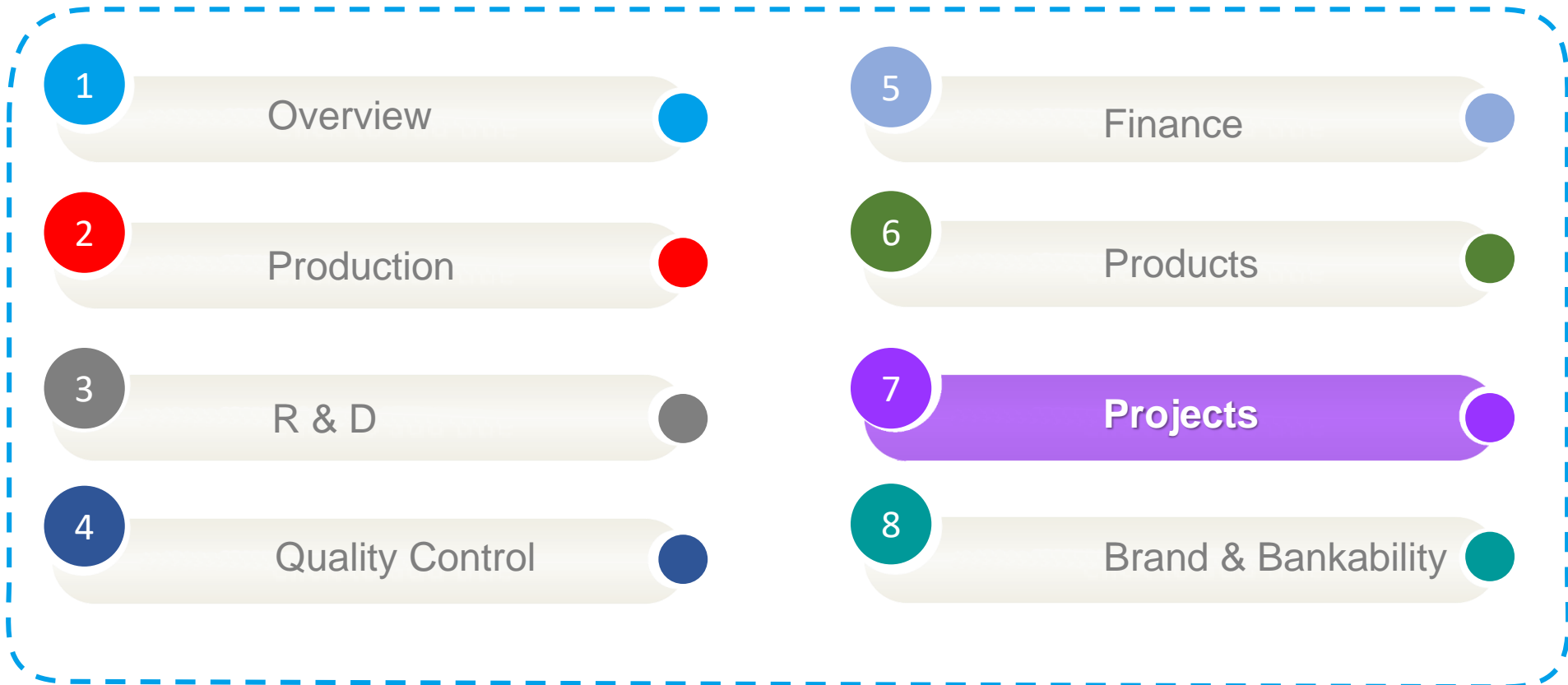
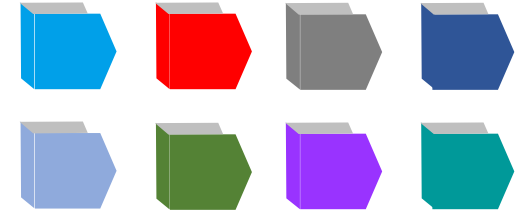
Social  
Responsibility

Customers  
Services

Technological  
Innovation

Products  
Reliability

Content



Project References

Global Footprint

# Worldwide installation

10GW



\*Data till 1Q11  
wafer and cell shipments are excluded



## Project References

### Case Study

EGing is supplying both its premium and standard panels to the utility, commercial and residential applications, explore more about it at <EGing Project References>

### Download



EGing Project References



100MW, China  
Biggest fishery solar  
project in China  
Commissioned in  
3Q15

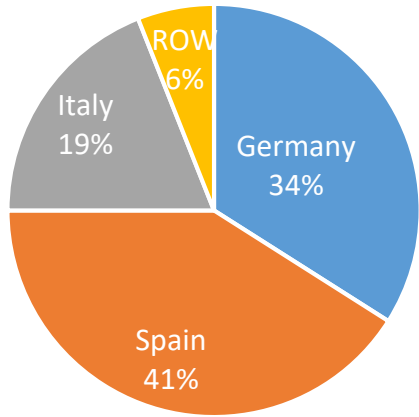


60MW, Denmark  
Biggest solar project  
in Denmark  
Commissioned in  
1Q16

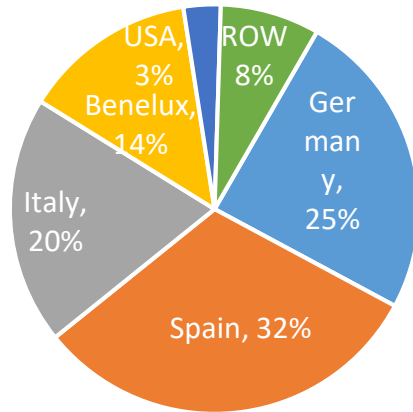
# PROJECTS



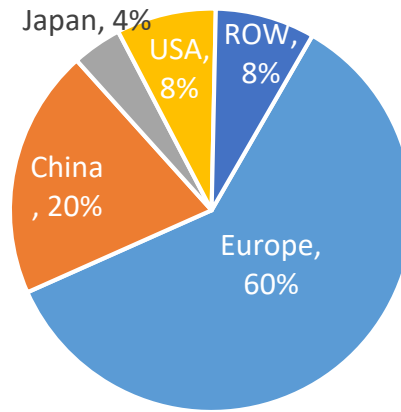
## Geographic Diversification



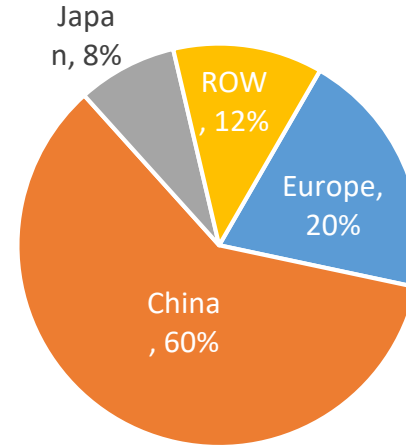
**2011**  
400 MW



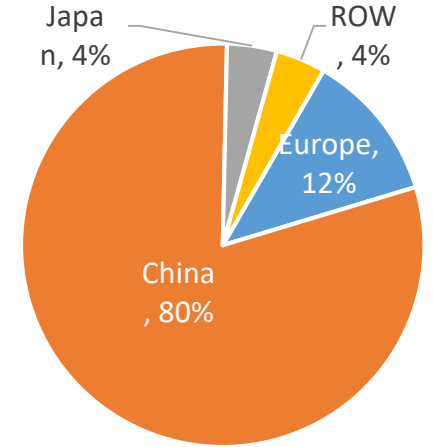
**2012**  
600 MW



**2013**  
800 MW



**2014**  
1000 MW



**2015**  
1500 MW

Module shipment since 2005, EU market dominated

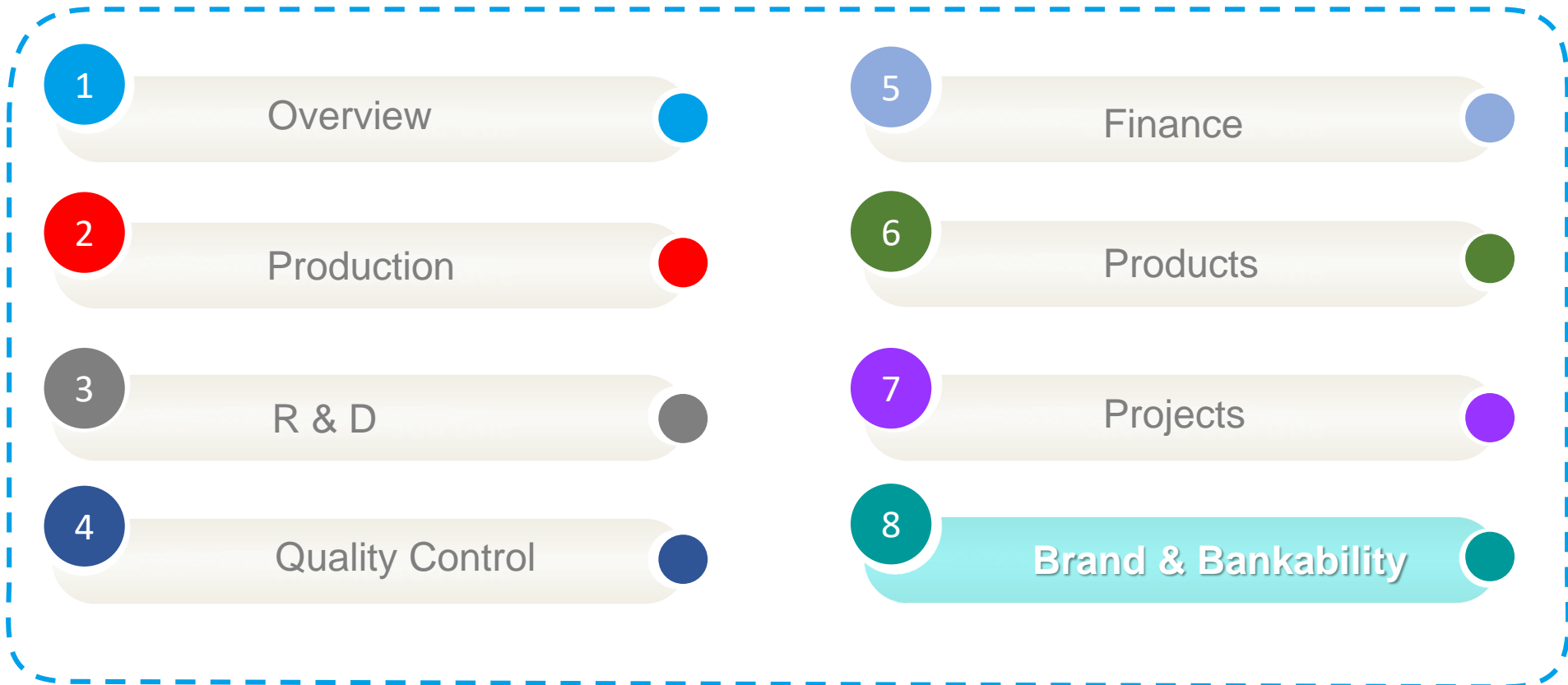
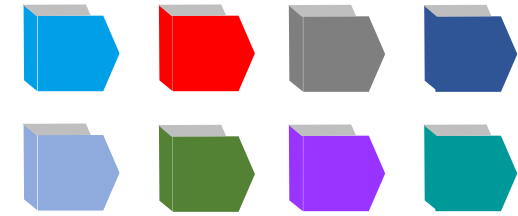
JP market keep stable shipment since 2012

EU market declined since 2014, EGing still keep stable shipment about 200MW the MIP quota per year

EU market declined since 2014, EGing still keep stable shipment about 200MW the MIP quota per year

CN market keep solid position since 2013, Top5 panel supplier in domestics

Content



## BANKABILITY



1

BNEF Tier1

2

Listed 2years continuous

3

White list in various banks



## BRAND



1

China PV Brand Top10

2

Since FY12

3

Listed 4years continuous





**Thank you!**