



# **Global and China Photovoltaic Glass Industry Report, 2017-2021**

**August 2017**

## **STUDY GOAL AND OBJECTIVES**

This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

## **REPORT OBJECTIVES**

- ◆ To establish a comprehensive, factual, annually updated and cost-effective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.
- ◆ To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.
- ◆ To complement the organizations' internal competitor information gathering efforts with strategic analysis, data interpretation and insight.
- ◆ To suggest for concerned investors in line with the current development of this industry as well as the development tendency.
- ◆ To help company to succeed in a competitive market, and

## **METHODOLOGY**

Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications. Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

## **INFORMATION SOURCES**

The primary information sources include Company Reports, and National Bureau of Statistics of China etc.

## Abstract

Photovoltaic glass (PV glass) finds application in solar cell modules, with its development depending on PV industry. Global new PV installed capacity reached 76.6GW in 2016, with a CAGR of 20.9% during 2011-2016; China witnessed new PV installed capacity of 34.5GW in 2016, a 45.0% share of the global total, with a CAGR of 76.7% during 2011-2016, far higher than the global average. China's new PV capacity will show an AAGR of above 25% during 2015-2020, providing a favorable development environment for PV glass, according to the planning of National Energy Administration of China.

China as the world's biggest PV glass manufacturer accounts for roughly 75% of global total capacity. Its PV glass output achieved 320 million m<sup>2</sup> in 2016, up 12.8% year on year, with a CAGR of 15.3% during 2011-2016, and is expected to keep an AAGR of around 10.0% during 2017-2021 powered by PV industry.

PV glass industry has a stable market competition pattern because of high entry threshold. Main manufacturers in China include Xinyi Solar, Flat Glass Group, Ancai Hi-tech, Zhuzhou Kibing Group and CSG Holding. In 2017, China's PV glass CR5 seize a combined market share of 68%, of which Xinyi Solar perches at the top with a share of 1/3.

Price of PV glass fluctuated in 2016 under the impact of downstream demand: firstly rose propelled by strong market demand in the first half of 2016, then dropped due to sluggish demand in the second half. The price is expected to continue fall during 2017-2018 as a result of weak demand and overcapacity.

By main products, production technology of ultra-clear patterned glass remains mature in China, with output occupying over 90% of the total PV glass. TCO glass and PV anti-reflective glass production technologies are held by foreign companies, and only a few Chinese players can produce such glass in large scale.

Besides solar power plants and energy-saving buildings, PV glass will also be widely applied in agriculture in the future such as intelligent PV greenhouses, which will improve agricultural output value and quality of agricultural products, in harmony with energy saving, greenness and cycle development goals.

Global and China Photovoltaic Glass Industry Report, 2017-2021 highlights the following:

- ◆ Overview of PV Glass (definition, classification, application, production technology, industry chain, etc.);
- ◆ Global PV and PV glass industry (development environment, market size, market structure, etc.);
- ◆ China PV and PV glass industry (policy, market size, competition pattern, market price, development trend, etc.);
- ◆ Main PV products including ultra-clear patterned glass, TCO glass and PV anti-reflective glass (market size, competition pattern, etc.);
- ◆ PV upstream sectors including silicon dioxide, sodium carbonate, limestone and aluminum oxide (market size, market structure, competition pattern, price, etc.);
- ◆ PV downstream sectors including solar cell and solar cell module (market status, competition pattern, etc.);
- ◆ 5 foreign and 19 Chinese PV glass manufacturers (operation, PV glass business, etc.).

Competition Pattern pf PV Glass Market in China, 2017



### 1 Overview of PV Glass

- 1.1 Definition and Classification
- 1.2 Application
- 1.3 Characteristics
- 1.4 Production Technology
- 1.5 Industry Chain

### 2 Status Quo of Global PV Glass Industry

- 2.1 Development Environment
  - 2.1.1 Policy Environment
  - 2.1.2 Industry Environment
- 2.2 Market Size
  - 2.2.1 PV
  - 2.2.2 PV Glass

### 3 Status Quo of China PV Glass Industry

- 3.1 Policy Environment
- 3.2 Market Situation
  - 3.2.1 PV
  - 3.2.2 PV Glass
- 3.3 Price
- 3.4 Development Trend

### 4 Main PV Glass Products

- 4.1 Ultra-clear Patterned Glass
  - 4.1.1 Profile
  - 4.1.2 Market Size

#### 4.1.3 Competition Pattern

#### 4.2 TCO Glass

- 4.2.1 Profile
- 4.2.2 Market Size
- 4.2.3 Competition Pattern
- 4.3 PV Anti-reflective Glass
  - 4.3.1 Profile
  - 4.3.2 Market Size
  - 4.3.3 Competition Pattern

### 5 Main Upstream Sectors

- 5.1 Silicon Dioxide
  - 5.1.1 Overview
  - 5.1.2 Market Size
- 5.2 Sodium Carbonate
  - 5.2.1 Overview
  - 5.2.2 Market Size
  - 5.2.3 Market Structure
  - 5.2.4 Competition Pattern
  - 5.2.5 Problems
  - 5.2.6 Price
- 5.3 Limestone (Calcium Carbonate)
  - 5.3.1 Overview
  - 5.3.2 Market Size
  - 5.3.3 Market Structure
- 5.4 Alumina
  - 5.4.1 Overview
  - 5.4.2 Market Size

#### 5.4.3 Market Structure

#### 5.4.4 Market Price

- 5.5 Others
  - 5.5.1 Carbon
  - 5.5.2 Mirabilite

### 6 Main Downstream Applications

- 6.1 Solar Cell
  - 6.1.1 Global
  - 6.1.2 China
- 6.2 Solar Cell Module
  - 6.2.1 Market Status
  - 6.2.2 Competition Pattern

### 7 Major PV Glass Companies Worldwide

- 7.1 AGC
  - 7.1.1 Profile
  - 7.1.2 Operation
  - 7.1.3 PV Glass Business
  - 7.1.4 Development in China
- 7.2 Saint-Gobain
  - 7.2.1 Profile
  - 7.2.2 Operation
  - 7.2.3 PV Glass Business
  - 7.2.4 Development in China
- 7.3 NSG
  - 7.3.1 Profile
  - 7.3.2 Operation

7.3.3 PV Glass Business	8.4.3 PV Glass Business	8.11.3 PV Glass Business
7.3.4 Development in China	8.5 Almaden	8.12 Guangdong Golden Glass Technologies Limited
7.4 PPG Industries	8.5.1 Profile	8.12.1 Profile
7.4.1 Profile	8.5.2 Operation	8.12.2 Operation
7.4.2 Operation	8.5.3 PV Glass Business	8.12.3 PV Glass Business
7.4.3 PV Glass Business	8.6 Jiangsu Xiuqiang Glasswork Co., Ltd.	8.13 Luoyang Glass Co., Ltd.
7.4.4 Development in China	8.6.1 Profile	8.13.1 Profile
7.5 Sunarc	8.6.2 Operation	8.13.2 Operation
7.5.1 Profile	8.6.3 PV Glass Business	8.14 Shanghai Yaohua Pilkington Glass Group
7.5.2 Operation	8.7 China Glass Holdings	8.14.1 Profile
7.5.3 Development in China	8.7.1 Profile	8.14.2 Operation
	8.7.2 Operation	8.14.3 PV Glass Business
<b>8. Major Chinese PV Glass Companies</b>	8.7.3 PV Glass Business	8.15 Flat Glass Group Co., Ltd.
8.1 Xinyi Glass Holdings	8.8 Shandong Jinjing Science & Technology Co., Ltd.	8.15.1 Profile
8.1.1 Profile	8.8.1 Profile	8.15.2 Operation
8.1.2 Operation	8.8.2 Operation	8.15.3 PV Glass Business
8.1.3 PV Glass Business -- Xinyi Solar Holding	8.8.3 PV Glass Business	8.16 Others
8.2 CSG Holding	8.9 Zhuzhou Kibing Group Co., Ltd.	8.16.1 Henan Yuhua PV New Materials Co., Ltd.
8.2.1 Profile	8.9.1 Profile	8.16.2 Henan Succeed Photovoltaic Materials Co., Ltd.
8.2.2 Operation	8.9.2 Operation	8.16.3 Zhejiang Hehe Photovoltaic Glass Technology Co., Ltd.
8.2.3 PV Glass Business	8.9.3 Glass Business	8.16.4 CNBM (Yixing) New Energy Resources Co., Ltd.
8.3 Topray Solar	8.10 Henan Ancai Hi-tech Co., Ltd.	
8.3.1 Profile	8.10.1 Profile	
8.3.2 Operation	8.10.2 Operation	
8.3.3 PV Glass Business	8.10.3 PV Glass Business	
8.4 AVIC Sanxin	8.11 IRICO Electronics	
8.4.1 Profile	8.11.1 Profile	
8.4.2 Operation	8.11.2 Operation	

- 
- Classification of PV Glass
  - Application of PV Glass in Crystalline Silicon Battery Module
  - Application of PV Glass in Thin-film Battery Module
  - Application of PV Glass in BIPV
  - Production Technology of PV Glass
  - PV Glass Industry Chain
  - PV Industry Policies in Major Countries, 2015-2017
  - PV Power Generation Purchase Price in Japan, 2017
  - PV Subsidy Policies in Japan, 2017
  - PV Building Incentive Policy System in Japan
  - Global PV Installed Capacity, 2010-2021E
  - Cumulative Grid-connected PV Installed Capacity in Major Countries, 2016
  - New Grid-connected PV Installed Capacity in Major Countries, 2016
  - Global PV Demand Distribution, 2017
  - Global Consumption of Main PV Glass Products and YoY Growth, 2012-2021E
  - Global PV Glass Demand Structure by Product, 2016/2021E
  - Revenue of Major PV Glass Companies Worldwide, 2011-2016
  - Main PV Industry Policies in China, 2015-2017
  - PV Subsidy Policies of Main Provinces/Municipalities in China, 2017
  - European Union's MPI Adjustment Plan for China, 2017
  - New and Cumulative PV Installed Capacity in China, 2009-2020E
  - New PV Installed Capacity Structure in China, 2016
  - PV Installed Capacity in China by Province/Municipality, 2016
  - PV Installed Capacity in China, 2010-2021E
  - PV Glass Output and YoY Growth in China, 2010-2021E

## Selected Charts

- 
- PV Glass Demand in China, 2015-2021E
  - Revenue and Net Income of Major PV Glass Companies in China, 2016
  - Capacity of Major PV Glass Companies in China, 2017
  - Competition Pattern of PV Glass Market in China, 2017
  - Changes in Main PV Glass Production Lines in China, 2017
  - PV Glass Import Volume and YoY Growth in China, 2013-2016
  - PV Glass Export Volume and YoY Growth in China, 2013-2016
  - Cost Structure of Solar PV Module
  - Price Trend of PV Glass in China, 2016-2017
  - Price Trend of Ultra-clear Patterned Raw Glass (3.2mm) in China, 2016-2017
  - Classification and Application of PV Glass
  - Sketch Map of Ultra-clear Patterned Glass
  - Unit Consumption of Ultra-clear Glass for Solar PV Cell
  - Global Consumption of Ultra-clear Patterned Glass, 2010-2021E
  - Ultra-clear Patterned Solar Glass Consumption in China, 2010-2021E
  - Ultra-clear Patterned Solar Glass Capacity in China, 2013-2017
  - Changes in Ultra-clear Patterned Glass Production Lines in China, 2016-2018E
  - Structure of Thin-film Solar Cell
  - Performance Comparison between Three Kinds of TCO Glass
  - Cost Structure of Thin-film Solar Cell
  - Global TCO Glass Consumption, 2010-2021E
  - TCO Glass Industrialization in China
  - Major TCO Glass Manufacturers and Their Capacity in China
  - Major TCO Conductive Glass Manufacturers Worldwide
  - Structure of Anti-reflective Coated Glass



## Selected Charts

- 
- Performance of PV Anti-reflective Glass
  - Capacity of Major PV Anti-reflective Glass Manufacturers in China
  - Major Manufacturers of Anti-reflective Coating for Ultra-clear Rolled Glass Worldwide
  - Global Silicon Output and YoY Growth, 2007-2017
  - Global Silicon Output by Country, 2015-2016
  - Global Silicon Dioxide Capacity, 2009-2021E
  - Global Silicon Dioxide Consumption Structure by Country, 2016
  - Major Precipitated Silica Producers Worldwide
  - Silicon Dioxide Market Size and YoY Growth in China, 2009-2021E
  - Silicon Dioxide Output and YoY Growth in China, 2009-2021E
  - Silicon Dioxide Output Structure in China by Product, 2008-2017
  - Precipitated Silica Output Structure in China by Company Type, 2016
  - Fumed Silica Output Structure by in China Company Type, 2016
  - Sodium Carbonate Output and YoY Growth in China, 2010-2021E
  - Sodium Carbonate Output Structure in China by Product, 2016
  - Sodium Carbonate Output Structure in China by Production Process, 2016
  - Price Trend of Sodium Carbonate in China, 2015-2016
  - Price Trend of Sodium Carbonate in China, 2017
  - Distribution of Limestone Resources in China
  - Global Limestone Consumption, 2011-2021E
  - Global GCC Capacity Structure by Country, 2016
  - Global PCC Capacity Structure by Country, 2016
  - Calcium Carbonate Output Structure in China by Product, 2016
  - Distribution of Bauxite Resources Worldwide
  - Distribution of Bauxite Resources in China

## Selected Charts

- Global Aluminum Oxide Output by Region, 2016
- Aluminum Oxide Output and YoY Growth in China, 2010-2021E
- Aluminum Oxide Supply-Demand Pattern in China, 2012-2016
- Aluminum Oxide Output Structure in China by Province/Municipality, 2016
- Global Aluminum Oxide Price Trend, 2015-2017
- Diamond Reserves in Major Countries
- Applications of PV Glass
- Global Solar Cell and Module Price Trend, 2011-2017
- Classification of Solar PV Cell
- Performance Comparison between Thin-film Battery and Crystalline Silicon Battery
- Global Solar Cell Output and YoY Growth, 2010-2021E
- Global Solar Cell Output Structure by Product, 2010-2021E
- Capacity of Major Thin-film Solar Cell Manufacturers Worldwide, 2016
- Solar Cell Output and YoY Growth in China, 2011-2021E
- Capacity of Major Solar Cell Manufacturers in China, 2016
- Solar Cell Export Value Structure in China by Country/Region, 2016
- Global Solar Cell Module Output, 2010-2021E
- Global Solar Cell Module Output Structure by Product, 2016
- Solar Cell Module Export Volume in China by Region, 2011-2016
- Solar Cell Module Export Structure in China by Province/Region, 2016
- Capacity and Output of Major Solar Cell Module Manufacturers Worldwide, 2016
- Glass Production Lines of Asahi Glass Co., Ltd. (AGC) by Region
- Revenue and Operating Income of Asahi Glass Co., Ltd. (AGC), 2008-2017
- Revenue Breakdown of Asahi Glass Co., Ltd. (AGC) by Business, 2010-2017
- Revenue Breakdown of Asahi Glass Co., Ltd. (AGC) by Region, 2011-2016

## Selected Charts

- Major Subsidiaries of Asahi Glass Co., Ltd. (AGC) in China
- Marketing Network of Asahi Glass Co., Ltd. (AGC) in China
- Revenue and Net Income of Saint-Gobain, 2009-2017
- Revenue Breakdown of Saint-Gobain by Business, 2009-2017
- Revenue Breakdown of Saint-Gobain by Region, 2009-2017
- Market Position of Saint-Gobain's Flat Glass Business
- Saint-Gobain's Revenue and Profits from Flat Glass Business, 2015-2016
- Revenue and YoY of Saint-Gobain in China, 2002-2016
- Layout of Saint-Gobain in China
- Major Companies of Saint-Gobain in China Involved in Glass Business
- Revenue and Net Income of NSG, FY2009-FY2017
- Revenue Breakdown of NSG by Business, FY2009-FY2017
- Revenue Breakdown of NSG by Region, FY2013-FY2016
- Revenue Breakdown of NSG's Major Products by Region, FY2016
- Operation of NSG's Architectural Business, FY2015-FY2016
- Subsidiaries of NSG in China
- Factory Distribution of PPG by Region, 2016
- Revenue and Net Income of PPG, 2008-2017
- Revenue Breakdown of PPG by Business, 2009-2017
- Revenue Breakdown of PPG by Region, 2011-2016
- PPG's Cooperation in Glass Business in China
- AR Glass Transmission Rates of Sunarc (by Field)
- Revenue and Net Income of Xinyi Glass Holdings Limited, 2007-2017
- Revenue Breakdown of Xinyi Glass Holdings Limited by Product, 2007-2017
- Revenue Breakdown of Xinyi Glass Holdings Limited by Region, 2007-2017

## Selected Charts

- Marketing Network of Xinyi Solar Holdings Limited in China
- Daily Melting Capacity of Ultra-clear PV Raw Glass of Xinyi Solar Holdings Limited, 2013-2017
- Ultra-clear PV Raw Glass Capacity of Xinyi Solar Holdings Limited, 2014-2017
- Solar Glass Revenue of Xinyi Solar Holdings Limited, 2012-2017
- Solar Glass Revenue Structure of Xinyi Solar Holdings Limited by Region, 2012-2016
- Solar Glass Production Lines of Xinyi Solar Holdings Limited, 2017
- Scale of Grid-connected PV Power Plants of Xinyi Solar Holdings Limited, 2014-2018E
- PV Power Plant Projects of Xinyi Solar Holdings Limited, 2017
- Global Marketing Network of CSG Holding
- Revenue and Net Income of of CSG Holding, 2007-2017
- Revenue Breakdown of CSG Holding by Product, 2008-2016
- Revenue Breakdown of CSG Holding by Region, 2008-2016
- Gross Margin of CSG Holding by Product, 2008-2015
- PV Glass Subsidiaries of of CSG Holding
- Revenue and Net Income of Shenzhen Topraysolar Co., Ltd., 2008-2017
- Revenue Breakdown of Shenzhen Topraysolar Co., Ltd by Product, 2009-2016
- Three Overseas Marketing Companies of Shenzhen Topraysolar Co., Ltd.
- Revenue Breakdown of Shenzhen Topraysolar Co., Ltd by Region, 2009-2016
- Gross Margin of Shenzhen Topraysolar Co., Ltd. by Product, 2009-2016
- Three Major Production Bases of Shenzhen Topraysolar Co., Ltd.
- Revenue from PV Glass Business of Shenzhen Topraysolar Co., Ltd., 2010-2016
- Financials of Major PV Glass Subsidiaries of Shenzhen Topraysolar Co., Ltd., 2014-2015
- Industrial Structure of Aviation Sanxin Co., Ltd.
- Revenue and Net Income of Aviation Sanxin Co., Ltd, 2007-2017
- Revenue Breakdown of Aviation Sanxin Co., Ltd by Product, 2008-2016

## Selected Charts

- Revenue Breakdown of Aviation Sanxin Co., Ltd by Region, 2008-2016
- Gross Margin of Aviation Sanxin Co., Ltd by Product, 2008-2016
- Specialty Glass Production Bases of Aviation Sanxin Co., Ltd
- Production Bases of Aviation Sanxin Co., Ltd
- Revenue and Net Income of Aviation Sanxin Solar PV Glass Co., Ltd. 2011-2016
- Revenue and Net Income of Changzhou Almaden Co., Ltd., 2008-2017
- Revenue Breakdown of Changzhou Almaden Co., Ltd. by Product, 2012-2016
- Revenue Breakdown of Changzhou Almaden Co., Ltd. by Region, 2009-2016
- Production and Sales Volume of PV Glass of Changzhou Almaden Co., Ltd., 2012-2016
- Revenue and Gross Margin of PV Glass Business of Changzhou Almaden Co., Ltd, 2012-2016
- Marketing Network of Jiangsu Xiuqiang Glasswork Co., Ltd. Worldwide
- Revenue and Net Income of Jiangsu Xiuqiang Glasswork Co., Ltd., 2008-2017
- Revenue Breakdown of Jiangsu Xiuqiang Glasswork Co., Ltd by Product, 2009-2016
- Revenue Breakdown of Jiangsu Xiuqiang Glasswork Co., Ltd by Region, 2010-2016
- Solar Glass Products of Jiangsu Xiuqiang Glasswork Co., Ltd
- Marketing Network of Solar Glass of Jiangsu Xiuqiang Glasswork Co., Ltd in China
- Production and Sales Volume of PV Glass of Jiangsu Xiuqiang Glasswork Co., Ltd, 2012-2016
- Revenue of Solar Glass Business of Jiangsu Xiuqiang Glasswork Co., Ltd, 2009-2016
- TCO Glass Capacity of Jiangsu Xiuqiang Glasswork Co., Ltd, 2011-2016
- Leading Products of China Glass Holding Limited
- Revenue and Net Income of China Glass Holding Limited, 2007-2016
- Revenue Breakdown of China Glass Holding Limited by Product, 2010-2016
- Revenue Breakdown of China Glass Holding Limited by Region, 2008-2016
- Gross Margin of China Glass Holding Limited by Product, 2010-2016
- Main PV Production Lines of China Glass Holding Limited

## Selected Charts

- Revenue and Net Income of Shandong Jinjing Science & Technology Stock Co., Ltd, 2006-2017
- Revenue Breakdown of Shandong Jinjing Science & Technology Stock Co., Ltd by Product, 2016
- Revenue Breakdown of Shandong Jinjing Science & Technology Stock Co., Ltd by Region, 2008-2016
- Glass Production Lines of Shandong Jinjing Science & Technology Stock Co., Ltd
- Global Marketing Network of Zhuzhou Kibing Group Co., Ltd
- Revenue and Net Income of Zhuzhou Kibing Group Co., Ltd, 2008-2017
- Revenue Breakdown of Zhuzhou Kibing Group Co., Ltd by Product, 2008-2016
- Revenue Breakdown of Zhuzhou Kibing Group Co., Ltd by Region, 2008-2016
- Production Bases of Zhuzhou Kibing Group Co., Ltd.
- PV Glass Production Lines of Zhuzhou Kibing Group Co., Ltd
- Revenue and Net Income of Henan Ancai Hi-tech Co., Ltd, 2008-2017
- Revenue Breakdown of Henan Ancai Hi-tech Co., Ltd by Product, 2012-2016
- Revenue Breakdown of Henan Ancai Hi-tech Co., Ltd by Product, 2012-2016
- Revenue and Gross Margin of PV Glass Business of Henan Ancai Hi-tech Co., Ltd, 2010-2016
- Revenue and Gross Profit of IRICO Group Electronics Company Limited, 2008-2016
- PV Glass Production Lines of IRICO Group Electronics Company Limited
- Revenue of PV Glass Business of IRICO Group Electronics Company Limited, 2010-2016
- Revenue and Net Income of Guangdong Golden Glass Technologies Limited, 2008-2017
- Revenue Breakdown of Guangdong Golden Glass Technologies Limited by Product, 2010-2016
- Revenue Breakdown of Guangdong Golden Glass Technologies Limited by Region, 2014-2016
- Revenue of PV Glass (Module) Business of Guangdong Golden Glass Technologies Limited, 2010-2016
- Revenue and Net Income of Luoyang Glass Co., Ltd, 2008-2017
- Marketing Network of Shanghai Yaohua Pilkington Glass Group Co., Ltd.
- Subsidiaries of Shanghai Yaohua Pilkington Glass Group Co., Ltd.
- Revenue and Net Income of Shanghai Yaohua Pilkington Glass Group Co., Ltd., 2007-2017

## **Selected Charts**

- 
- Revenue Breakdown of Shanghai Yaohua Pilkington Glass Group Co., Ltd. by Product, 2015-2016
  - Revenue Breakdown of Shanghai Yaohua Pilkington Glass Group Co., Ltd. by Region, 2008-2016
  - Gross Margin of Shanghai Yaohua Pilkington Glass Group Co., Ltd., 2006-2016
  - Operations of Major PV Glass Subsidiaries of Shanghai Yaohua Pilkington Glass Group Co., Ltd., 2014-2016
  - Revenue and Net Income of Flat Glass Group Co., Ltd., 2012-2016
  - Revenue Structure of Flat Glass Group Co., Ltd. by Product, 2014-2016
  - Revenue Structure of Flat Glass Group Co., Ltd. by Region, 2014-2015
  - Main PV Glass Production Bases of Flat Glass Group Co., Ltd.
  - Industrial Chains of Henan Succeed Photovoltaic Materials Corporation



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