

China Photovoltaic Power Generation Industry Market Forecast and Investment Strategy Planning Report, 2013-2017

目 录

CONTENTS

Chapter 1: Development Overview of Photovoltaic Power Generation Industry

1.1 Definition and Structure of Photovoltaic Power Generation Industry

- 1.1.1 Definition of Photovoltaic Power Generation Industry
- 1.1.2 Structure of Photovoltaic Power Generation Industry
- 1.1.3 Life Cycle of Photovoltaic Power Generation Industry

1.2 Meaning of Developing Photovoltaic Power Generation Industry

- 1.2.1 Global Consensus - Developing Renewable Energy
- 1.2.2 Energy Problems and Challenges China Facing
 - (1) Fast Growing Energy Demand
 - (2) Toughness of Energy Supply and Demand
 - (3) Coping with Stress on Climate Change and Green Gas Emission Reduction
- 1.2.3 Resource Advantages of Photovoltaic Power Generation
 - (1) Utilization Methods of Solar Energy
 - (2) Resource Conditions of Photovoltaic Power Generation
 - (3) Development Potentials of Photovoltaic Power Generation
- 1.2.4 Large-scale Production Conditions for Photovoltaic Power Generation
 - (1) Increasingly Mature Photovoltaic Power Generation Technology
 - (2) Scale Production Progress of Photovoltaic Power Generation Has Been Started
 - (3) Soon to Connection to Grid at an Equal Price

1.3 Benefit Analysis of Photovoltaic Power Generation Industry

- 1.3.1 Economic Benefits Analysis of Photovoltaic Power Generation Industry
 - (1) Cost Comparison Analysis with Other Kinds of Power Generation
 - (2) Analysis of Economic Use Scope of Photovoltaic Power Generation Application
- 1.3.2 Analysis of Social Benefits of Photovoltaic Power Generation Industry

1.4 Analysis of Supporting Facilities Construction of Photovoltaic Power Generation Industry

- 1.4.1 Analysis of Power Grid Construction
 - (1) Analysis of Power Grid Investment Size
 - (2) Analysis of Smart Power Grid Construction
 - (3) Analysis of Ultra-high Power Grid Construction
 - (4) Analysis of Micro-grid Power Grid Construction
- 1.4.2 Analysis of Power Grid Energy Storage Facilities Construction

Chapter 2: Analysis of Development of Global Photovoltaic Power Generation Industry

2.1 Analysis of Development of Global Photovoltaic Power Generation Industry

- 2.1.1 Stimulus Policies of Global Photovoltaic Power Generation Industry
- 2.1.2 Development Overview of Global Photovoltaic Power Generation Industry
- 2.1.3 Analysis of Supply and Demand of Global Photovoltaic Power Generation Industry
- 2.1.4 Analysis of Installed Capacity of Global Photovoltaic Power Generation
 - (1) Accumulated Installed Capacity of Global Photovoltaic Power Generation
 - (2) New Installed Capacity of Global Photovoltaic Power Generation
- 2.1.5 Analysis of Competition of Global Photovoltaic Power Generation Industry
 - (1) National Competitive Landscape of Photovoltaic Power Generation Industry
 - (2) Enterprise Competitive Landscape of Photovoltaic Power Generation Industry
- 2.1.6 Development Prospects Forecast for Global Photovoltaic Power Generation Industry
 - (1) Uncertain Prospects for Development of Global Photovoltaic Power Generation Industry
 - (2) Opportunities Prospects for Development of Global Photovoltaic Power Generation Industry
 - (3) Recent Development Trend Forecast for Global Photovoltaic Power Generation Industry
 - (4) Middle and Long-term Development Trend Forecast for Global Photovoltaic Power Generation Industry

Industry

2.2 Analysis of Development of Traditional Photovoltaic Power Generation Market

- 2.2.1 Analysis of Development of Germany Photovoltaic Power Generation Industry
 - (1) Policies of Germany Photovoltaic Power Generation Industry
 - (2) Analysis of Feed-in Tariff in Germany
 - (3) Analysis of Germany PV Installed Capacity
 - (4) Analysis of Germany PV Projects Cost
 - (5) Investment Sources for Germany PV Projects
 - (6) Returns Ratio Estimation of Germany PV Projects
 - (7) Development Prospects for Germany Photovoltaic Power Generation Industry
- 2.2.2 Analysis of Development of Spain Photovoltaic Power Generation Industry
 - (1) Policies of Spain Photovoltaic Power Generation Industry
 - (2) Analysis of Feed-in Tariff in Spain
 - (3) Analysis of Spain PV Installed Capacity
 - (4) Development Prospects for Spain Photovoltaic Power Generation Industry
- 2.2.3 Analysis of Development of Japan Photovoltaic Power Generation Industry
 - (1) Policies of Japan Photovoltaic Power Generation Industry
 - (2) Analysis of Feed-in Tariff in Japan
 - (3) Supply and Demand of Japan Photovoltaic Power Generation Industry
 - (4) Analysis of Japan PV Installed Capacity
 - (5) Analysis of Japan PV Installed Cost
 - (6) Prospects for Japan Photovoltaic Power Generation Industry
- 2.2.4 Analysis of Development of Italy Photovoltaic Power Generation Industry
 - (1) Policies of Italy Photovoltaic Power Generation Industry
 - (2) Analysis of Feed-in Tariff in Italy
 - (3) Analysis of Italy PV Installed Capacity
 - (4) Analysis of Italy PV Installed Cost
 - (5) Prospects for Italy Photovoltaic Power Generation Industry
- 2.2.5 Analysis of Development of Czech Photovoltaic Power Generation Industry
 - (1) Policies of Czech Photovoltaic Power Generation Industry
 - (2) Analysis of Feed-in Tariff in Czech
 - (3) Analysis of Czech PV Installed Capacity
 - (4) Analysis of Czech PV Installed Cost
 - (5) Prospects for Czech Photovoltaic Power Generation Industry
- 2.2.6 Analysis of Development of France Photovoltaic Power Generation Industry
 - (1) Policies of France Photovoltaic Power Generation Industry
 - (2) Analysis of Feed-in Tariff in France
 - (3) Analysis of France PV Installed Capacity
 - (4) Analysis of France PV Installed Cost
 - (5) Returns Ratio Estimation of France PV Projects
 - (6) Development Prospects for France Photovoltaic Power Generation Industry

2.3 Analysis of Emerging Photovoltaic Power Generation Markets

- 2.3.1 Analysis of Development of USA Photovoltaic Power Generation Industry
 - (1) Policies of USA Photovoltaic Power Generation Industry
 - (2) Analysis of Feed-in Tariff in USA
 - (3) Analysis of USA PV Installed Capacity
 - 1) Analysis of USA PV Installed Capacity
 - 2) Regional Distribution of USA Installed Capacity
 - 3) Application Segments of USA Installed Capacity
 - (4) Analysis of USA PV Installed Cost
 - (5) Prospects for USA Photovoltaic Power Generation Industry
- 2.3.2 Analysis of Development of India Photovoltaic Power Generation Industry
 - (1) Policies of India Photovoltaic Power Generation Industry
 - (2) Analysis of Feed-in Tariff in India
 - (3) Analysis of India PV Installed Capacity
 - (4) Analysis of India PV Installed Cost
 - (5) Prospects for India Photovoltaic Power Generation Industry

Chapter 3: Analysis of Development of China Photovoltaic Power Generation Industry

3.1 Analysis of Development Environment of China Photovoltaic Power Generation Industry

- 3.1.1 Analysis of Policy Environment of Photovoltaic Power Generation Industry
 - (1) Competent Departments of Photovoltaic Power Generation Industry

- (2) Policies Related to Photovoltaic Power Generation Industry
 - (3) Development Planning of Photovoltaic Power Generation Industry
 - (4) Policy Trend of Future Photovoltaic Power Generation Industry
 - 3.1.2 Analysis of Economic Environment of Photovoltaic Power Generation Industry
 - 3.1.3 Analysis of Trading Environment of Photovoltaic Power Generation Industry
 - 3.2 Development Overview of China Photovoltaic Power Generation Industry**
 - 3.2.1 Overall Development Information of Photovoltaic Power Generation Industry
 - 3.2.2 Main Development Features of Photovoltaic Power Generation Industry
 - 3.2.3 Problems in Photovoltaic Power Generation Industry
 - (1) Problem in Manufacturing Industry
 - (2) Problems in Market Links
 - 3.2.4 Impact of Factors on Development of Photovoltaic Power Generation Industry
 - 3.2.5 Analysis of Photovoltaic Power Generation Industry's External Dependence
 - 3.3 Analysis of Management Capability of China Photovoltaic Power Generation Industry**
 - 3.3.1 Analysis of Profitability of Photovoltaic Power Generation Industry
 - 3.3.2 Analysis of Operational Capability of Photovoltaic Power Generation Industry
 - 3.3.3 Analysis of Debt-paying Ability of Photovoltaic Power Generation Industry
 - 3.3.4 Analysis of Development Capability of Photovoltaic Power Generation Industry
 - 3.4 Market Analysis of China Photovoltaic Power Generation Industry**
 - 3.4.1 Analysis of Installed Capacity of Photovoltaic Power Generation Industry
 - (1) Total Installed Capacity of Photovoltaic Power Generation Industry
 - (2) Grid Installed Capacity of Photovoltaic Power Generation Industry
 - (3) Off-grid Installed Capacity of Photovoltaic Power Generation Industry
 - 3.4.2 Analysis of Market Competition of Photovoltaic Power Generation Industry
 - 3.4.3 Analysis of Potential Market of Photovoltaic Power Generation Industry
 - (1) Analysis of Potential Market of Photovoltaic Power Generation Industry
 - (2) Exploiting Potential Market of Photovoltaic Power Generation Industry
 - 3.4.4 Analysis of Market Capacity of Photovoltaic Power Generation Industry
 - 3.4.5 Analysis of Market Prospects of Photovoltaic Power Generation Industry
- Chapter 4: Analysis of Industrial Chain of Photovoltaic Power Generation Industry**
- 4.1 Industrial Chain Overview of Photovoltaic Power Generation Industry**
 - 4.2 Analysis of Polycrystalline Silicon Market**
 - 4.2.1 Analysis of Capacity Scale of Polycrystalline Silicon
 - (1) Capacity Scale of Global Polycrystalline Silicon
 - (2) Capacity Scale of China Polycrystalline Silicon
 - 4.2.2 Analysis of Output Scale of Polycrystalline Silicon
 - (1) Output Scale of Global Polycrystalline Silicon
 - (2) Output Scale of China Polycrystalline Silicon
 - 4.2.3 Analysis of Market Demand for Polycrystalline Silicon
 - (1) Market Demand for Global Polycrystalline Silicon
 - (2) Market Demand for China Polycrystalline Silicon
 - 4.2.4 Analysis of Import and Export Market of Polycrystalline Silicon
 - (1) Analysis of Import Market of Polycrystalline Silicon
 - (2) Analysis of Export Market of Polycrystalline Silicon
 - 4.2.5 Competitive Landscape of Polycrystalline Silicon Market
 - (1) Market Competition of Global Polycrystalline Silicon
 - (2) Market Competition of China Polycrystalline Silicon
 - 4.2.6 Analysis of Development Prospects for Polycrystalline Silicon
 - 4.3 Analysis of Silicon Ingot/ Slice Market**
 - 4.3.1 Analysis of Supply of Silicon Ingot/Slice
 - 4.3.2 Analysis of Demand of Silicon Ingot/Slice
 - 4.3.3 Analysis of Market Competition of Silicon Ingot/Slice
 - 4.3.4 Analysis of Market Trend of Silicon Ingot/Slice
 - (1) Enterprise Developing into Large-scale Operation
 - (2) Continuing Increase of Silicon Ingot/Slice Production Capacity
 - (3) Localization Level of Equipment Accessories Continuing to Increase
 - 4.4 Analysis of Solar Cell Market**
 - 4.4.1 Analysis of Capacity Scale of Solar Cell
 - (1) Capacity Scale of Solar Cell

- (2) Capacity Distribution of Solar Cell
- 4.4.2 Analysis of Output Scale of Solar Cell
 - (1) Output Scale of Global Solar Cell
 - (2) Output Scale of China Solar Cell
- 4.4.3 Analysis of Market Demand for Solar Cell
- 4.4.4 Analysis of Market Segments of Solar Cell
 - (1) Market Segments Structure of Solar Cell
 - (2) Analysis of Crystalline Silicon Solar Cell Market
 - (3) Analysis of Thin-film Solar Cell Market
- 4.4.5 Competitive Landscape of Solar Cell Market
- 4.4.6 Analysis of Import and Export Market of Solar Cell Market
 - (1) Analysis of Export Market of Solar Cell Market
 - (2) Analysis of Import Market of Solar Cell Market
- 4.4.7 Problems in Solar Cell Market
- 4.4.8 Analysis of Development Trend of Solar Cell
- 4.4.9 Analysis of Development Prospects for Solar Cell

4.5 Analysis of PV Module Market

- 4.5.1 Analysis of Capacity Distribution of PV Module
- 4.5.2 Analysis of Output Scale of PV Module
- 4.5.3 Analysis of Market Demand for PV Module
 - (1) Market Demand for Global PV Module
 - (2) Market Demand for China PV Module
- 4.5.4 Analysis of Export Market of PV Module
 - (1) Analysis of Total Export Volume of PV Module
 - (2) Export Nations Distribution of PV Module
 - (3) Analysis of PV Module Exporting to Market in Europe
 - (4) Analysis of PV Module Exporting to Market in America
 - (5) Analysis of PV Module Exporting to Market in Oceania
 - (6) Analysis of PV Module Exporting to Market in Asia
 - (7) Analysis of Key PV Module Export Enterprises
 - 1) Analysis Export Sources of PV Module
- 4.5.5 Competitive Landscape of PV Module Market
- 4.5.6 Analysis of Market Prospects for PV Module Market

4.6 Analysis of Photovoltaic Power Generation Application Market

- 4.6.1 Analysis of Photovoltaic Power Generation Station Market
 - (1) Construction of Photovoltaic Power Generation Station
 - 1) Bidding of Photovoltaic Power Generation Station
 - 2) Construction of Photovoltaic Power Generation Station
 - (2) Analysis of Advantages and Disadvantages of Photovoltaic Power Generation Station
 - (3) Problems in Construction of Photovoltaic Power Generation Station
 - (4) Analysis of Market Competition of Photovoltaic Power Generation Station
 - (5) Market Demand Prospects for Photovoltaic Power Generation Station
- 4.6.2 Analysis of BIPV Application Market
 - (1) Analysis of BIPV Construction Status
 - (2) Analysis of Key BIPV Enterprises
 - (3) Analysis of BIPV Market Demand
 - 1) Analysis of International BIPV Market Demand
 - 2) Analysis of Domestic BIPV Market Demand
 - (4) BIPV Development Prospects Forecast
- 4.6.3 Analysis of Other Application Markets
 - (1) Analysis of Rural Electrification Application Market
 - (2) Analysis of Communication and Industry Application Market
 - (3) Analysis of PV Products Application Market

Chapter 5: Analysis of Value Chain of Photovoltaic Power Generation Industry

5.1 Value Chain Overview of Photovoltaic Power Generation Industry

5.2 Analysis of Profitability Level of Polycrystalline Silicon

- 5.2.1 Analysis of Cost Composition and Trend of Polycrystalline Silicon
- 5.2.2 Analysis of Price Trend of Polycrystalline Silicon
- 5.2.3 Analysis of Profitability Level Polycrystalline Silicon

5.3 Analysis of Profitability Level of Silicon Ingot/Slice

- 5.3.1 Analysis of Cost Composition and Trend of Silicon Ingot/Slice
- 5.3.2 Analysis of Price Trend of Silicon Ingot/Slice
- 5.3.3 Analysis of Profitability Level of Silicon Ingot/Slice

5.4 Analysis of Profitability Level of Solar Cell

- 5.4.1 Analysis of Cost Composition and Trend of Solar Cell
- 5.4.2 Analysis of Price Trend of Solar Cell
- 5.4.3 Analysis of Profitability Level of Solar Cell

5.5 Analysis of Profitability Level of PV Module

- 5.5.1 Analysis of Cost Composition and Trend of PV Module
- 5.5.2 Analysis of Price Trend of PV Module
- 5.5.3 Analysis of Profitability Level of PV Module

5.6 Analysis of Investment Benefits of PV Station

- 5.6.1 Analysis of Cost Composition and Trend of PV Station
- 5.6.2 Analysis of PV Feed-in Tariff
- 5.6.3 Analysis of Investment Benefits of PV Station

Chapter 6: Analysis of Technology Development of Photovoltaic Power Generation Industry

6.1 Analysis of Polycrystalline Silicon Technology

- 6.1.1 Analysis of Polycrystalline Silicon Manufacturing Process
- 6.1.2 Analysis of Polycrystalline Silicon Manufacturing Technologies
 - (1) Technical Features, Problems and Development Trend of Modified Siemens Process
 - (2) Technical Features, Problems and Development Trend of Silane Method
 - (3) Technical Features, Problems and Development Trend of Vapor-to-Liquid Deposition Method
 - (4) Technical Features, Problems and Development Trend of Tetrachlorosilane and Zinc Reduction Method
 - (5) Metallurgical Routes For Preparation Of Solar-Grade Polycrystalline Silicon
 - (6) Analysis of Silane Fluidized Bed Method

6.2 Analysis of Silicon Slice Technology

- 6.2.1 Analysis of Wafer Cutting Technology
 - (1) Analysis of Wafer Cutting Technology Status
 - (2) Development Trend of Wafer Cutting Technology Status
- 6.2.2 Analysis of Wafer Cleaning Technology

6.3 Analysis of Solar Cell Technology

- 6.3.1 Analysis of Solar Cell Conversion Efficiency
- 6.3.2 Analysis of Crystalline Silicon Solar Cell Technology
 - (1) Analysis of Crystalline Silicon Solar Cell Technology Status
 - (2) Analysis of Crystalline Silicon Solar Cell Technology Development Trend
- 6.3.3 Analysis of Thin-film Solar Cell Technology
 - (1) Analysis of Silicon Thin-film Solar Cell Technology
 - 1) Status of Silicon Thin-film Solar Cell Technology
 - 2) Trend of Silicon Thin-film Solar Cell Technology
 - (2) Analysis of CdTe Thin-film Solar Cell Technology
 - 1) Status of CdTe Thin-film Solar Cell Technology
 - 2) Trend of CdTe Thin-film Solar Cell Technology
 - (3) Analysis of CIGS Thin-film Solar Cell Technology
 - 1) Status of CIGS Thin-film Solar Cell Technology
 - 2) Trend of CIGS Thin-film Solar Cell Technology
- 6.3.4 Analysis of Organic and DSSC Technology
 - (1) Analysis of DSSC Technology
 - (2) Analysis of Organic Technology
 - (3) Analysis of Organic-inorganic compound Cell Technology

6.4 Analysis of Solar Module Encapsulation Technology

- 6.4.1 Basic Technologies Requirement of Solar Module Encapsulation
- 6.4.2 Analysis of Solar Module Encapsulation Technology
 - (1) Analysis of Glass Encapsulation Technology
 - (2) Analysis of Non-glass Encapsulation Technology
 - (3) Analysis of Other Encapsulation Technologies
- 6.4.3 Analysis of Key Problems in Solar Module Encapsulation

6.5 Analysis of Solar PV Station Technology

- 6.5.1 Large-scale Grid-connected PV Power Station Technology
 - (1) Principles and Features of Large-scale Grid-connected PV Power Station
 - 1) Principles of Large-scale Grid-connected PV Power Station
 - 2) Features of Large-scale Grid-connected PV Power Station
 - (2) Key Technologies of Large-scale Grid-connected PV Power Station
 - 1) Key Technologies of Large-scale Grid-connected PV Power Station
 - 2) Core Technologies of Large-scale Grid-connected PV Power Station
- 6.5.2 Analysis of Other Solar PV Station Technologies
 - (1) Photovoltaic Array Maximum Power Point Tracking Technology
 - (2) Concentrated PV Technology
 - (3) Island Effect Testing Technology
- 6.6 Technological Standards, Certification System and Quality Control Insurance System**
 - 6.6.1 Current National PV Technological Standards
 - 6.6.2 Analysis of Certification System and Quality Control Insurance System

如需了解报告详细内容，请直接致电前瞻客服中心。

全国免费服务热线：400-068-7188 0755-82925195 82925295 83586158

或发电子邮件：service@qianzhan.com

或登录网站：<https://bg.qianzhan.com/>

我们会竭诚为您服务！