

Global and China Solar Polysilicon Industry Chain Report, 2008

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Abstracts

The hiking price of oil pushes the new energies such as solar energy to the historically high. People are more concerned about fuel ethanol, solar water heater and solar battery industry. Solar polysilicon especially shows a bright prospect.

Today the markets in demand for solar battery mainly concentrate in the USA, Germany, Japan, Korea and Spain; those are in close relationship to the supporting policy. Meanwhile, the supply of high purity crystalline silicon is dominated by few giants such as Hemlock, Wacker and Tokuyama. Among the application fields of solar energy, China grasps the mature technology in solar water heater only; however, China has the same activity and enthusiastic as any other countries in exploring and developing solar PV industry.

In 2006, the output of solar battery in China was 438MWP, accounting for 17.1% of the world total. In 2007, the output of solar battery in China surpassed Japan and the USA, reaching 1088MWP, became the biggest producer in the world.

In term of 11 tons or more polysilicon producing 1MWP solar battery, China's self-produced polysilicon can only satisfy the production of 80MWP solar battery, but the solar battery produced in China was 1088MWP in 2007, which means the polysilicon for the rest of 1008MWP was rely on exports or other channels. Meanwhile, the price of polysilicon in China keeps rising, from 25 to 40 USD per kilogram in 2001- 2003, to 200 USD per kilogram in 2006; its average price reached 300 USD per kilogram in 2007. In late 2007 or early 2008, price of polysilicon hit a historically high at 400 USD per kilogram.

In correspondence to the hot investment plan of solar polysilicon and the price trend,

Chinese manufacturers generally have the following problems: lacking of core technology, low-level repetitive constructions and incomplete industry chain mix etc. Today, parts of the key equipments still rely on imports. For example, casting furnace, wire cutting machine tool and PECVD etc.

Contents

1. BRIEF INTRODUCTION TO SOLAR POLYSILICON INDUSTRY

1.1 Brief Introduction to Solar Polysilicon

1.1.1 Silicon, Monocrystalline Silicon, Polysilicon and Amorphous Silicon

1.1.2 Utility of Polysilicon

1.1.3 Classification of Polysilicon

1.1.4 Related Terms on Polysilicon

1.1.5 Production Technique of Polysilicon

1.1.6 Quality Standard and Technical Indices

1.2 Solar Polysilicon Industry Chain

1.2.1 Construction Mode of Solar Polysilicon Industry Chain

1.2.2 Correlation of Polysilicon Industry Chain

1.3 Policy Circumstance of Solar Polysilicon Industry

1.3.1 Industrial Development Plan

1.3.2 Stock Listed Companies in 2007

1.3.3 Domestic Supervision Policy

1.4 Development of Solar Polysilicon Industry in the World

1.5 Development of Solar Polysilicon Industry in China

2. STATUS QUO OF SOLAR POLYSILICON MARKET

2.1 Analysis of the Material Market

2.2 Status Quo of Polysilicon Market in the World

2.2.1 International Market Pattern

2.2.2 Supply and Demand in the World

2.2.3 Forecast of World Polysilicon Market

2.3 Polysilicon Market in China

2.3.1 Domestic Market Pattern

2.3.2 Problems Facing the Domestic Polysilicon Companies

2.3.3 Supply and Demand in China

2.3.4 Forecast of China Polysilicon Market

2.4 Brief Summarization

3. MAIN MANUFACTURERS OF POLYSILICON

3.1 Comprehensive Introduction to Main Manufacturers of Polysilicon

3.2 Hemlock Semiconductor

3.2.1 Company Profile

3.2.2 Shareholding Structure

3.2.3 Upstream Material Supplier, Middle-stream Product and Down-stream Clients of Hemlock

3.2.4 Main Clients and Supply Chain

3.2.5 Development Strategy

3.2.6 Contact

3.3 Wacker Chemie

3.3.1 Company Profile

3.3.2 Production Expansion Plan 2007-2010

3.3.3 Performance in 2007

3.3.4 Main Clients and Supply Chain

3.3.5 Development Strategy and Summarization

3.3.6 Contact

3.4 Tokuyama

3.4.1 Company Profile and Organization Structure

3.4.2 Shareholding Structure

3.4.3 Operation Status in 2004-2007

3.4.4 Main Clients and Supply Chain

3.4.5 Development Strategy and Summarization

3.4.6 Contact

3.5 MEMC Electronic Materials

3.5.1 Company Profile

3.5.2 Global Nine Manufacturing Bases and Distribution of Sales Revenue

3.5.3 Operation Revenue and Profit Margin, 2004-2007

3.5.5 Development Strategy and Summarization

3.5.6 Contact

3.6 REC

3.6.1 Company Profile and Organization Structure

3.6.2 Production and Sales 2002-2007

3.6.3 Production Expansion Plan 2007-2010

3.6.4 Operation Revenue 2004-2007

3.6.5 Development Strategy and Summarization

3.6.6 Contact

3.7 Mitsubishi Materials & Mitsubishi Polycrystalline Materials(US)

3.7.1 Company Profile

3.7.2 Main Product Series

3.7.3 Forecast of the Prospect

- 3.7.4 Operation Revenue and Profit Margin, 2005-2007
- 3.7.5 Main Clients and Supply Chain
- 3.7.6 Development Strategy and Summarization
- 3.8 Sumitomo
 - 3.8.1 Company Profile and Organization Structure
 - 3.8.2 Operation Status in Main Departments in 2007
 - 3.8.3 Main Products in Solar Energy Field
 - 3.8.4 Operation Revenue and Profit Margin
 - 3.8.5 Development Strategy and Summarization
- 3.9 Luoyang Sino-silicon High Technology Co., Ltd
 - 3.9.1 Company Profile and Organization Structure
 - 3.9.2 Production and Sales 2002-2007
 - 3.9.3 Production Expansion Plan 2007-2010
 - 3.9.4 Contact
- 3.10 Emei Semiconductor Materials Factory
 - 3.10.1 Company Profile
 - 3.10.2 Production and Sales, 2002-2007
 - 3.10.3 Production Expansion Plan, 2007-2010
 - 3.10.4 Operation Revenue and Products
 - 3.10.5 Development Strategy and Summarization
- 3.11 Projects Planned to be Build in China and in the World
 - 3.11.1 Nippon Steel Corporation
 - 3.11.2 DC Chemical Co. Ltd
 - 3.11.3 ENDESA Generacion, Isofoton etc
 - 3.11.4 SiChuan Xinguang Silicon Techonology Co., Ltd
 - 3.11.5 Ningxia Sunshine Silicon Co., Ltd
 - 3.11.6 Shunda Semiconductor Development Co., Ltd.
 - 3.11.7 Linghai Jinhua Smelting Co., Ltd
 - 3.11.8 Polysilicon Projects in Wuhai City of Inner Mongolia
 - 3.11.9 Sichuan Chaolei Industry Co., Ltd.
- 3.12 Summarization

4. MAIN MANUFACTURERS OF SILICON INGOT AND PATCH

- 4.1 Brief Introduction to Silicon Ingot and Patch Manufacturers
- 4.2 ScanWafer(REC)
 - 4.2.1 Company Profile and Organization Structure
 - 4.2.2 Production and Sales, 2002-2006
 - 4.2.3 Operation Revenue and Profit Margin

- 4.2.4 Main Clients and Supply Chain
- 4.2.5 Development Strategy and Summarization
- 4.3 Deutsche Solar
 - 4.3.1 Company Profile and Organization Structure
 - 4.3.2 Market Distribution 2006-2007
 - 4.3.3 Operation Revenue and Profit Margin
 - 4.3.4 Main Clients and Supply Chain
 - 4.3.5 Development Strategy and Summarization
- 4.4 M.Setek
 - 4.4.1 Company Profile and Organization Structure
 - 4.4.2 Production and Sales 2002-2006
 - 4.4.3 Distribution of Production Capacity Worldwide
 - 4.4.4 Main Clients and Supply Chain
 - 4.4.5 Forecast of Future Development
- 4.5 Kyocera
 - 4.5.1 Company Profile and Organization Structure
 - 4.5.2 Production and Sales 2002-2007
 - 4.5.3 Operation Revenue and Profit Margin
 - 4.5.4 Main Clients and Supply Chain
 - 4.5.5 Development Strategy and Summarization
- 4.6 BP Solar
 - 4.6.1 Company Profile and Organization Structure
 - 4.6.2 Production and Sales 2003-2007
 - 4.6.3 Operation Revenue in 2007
 - 4.6.4 Main Clients and SUPPLY Chain
 - 4.6.5 Development Strategy and Summarization
- 4.7 PV Crystalox
 - 4.7.1 Company Profile and Organization Structure
 - 4.7.2 Market
 - 4.7.3 Operation Revenue 2006-2007
 - 4.7.4 Main Clients and Contact
 - 4.7.5 Forecast of Future Development
- 4.8 Shell Solar
 - 4.8.1 Company Profile and Organization Structure
 - 4.8.2 Production and Sales 2002-2007
 - 4.8.3 Main Clients and Supply Chain
 - 4.8.4 Development Strategy and Summarization
- 4.9 Sanyo
 - 4.9.1 Company Profile and Organization Structure

- 4.9.2 Sanyo's Solar Ark
- 4.9.3 Operation Revenue and Profit Margin, 2004-2007
- 4.9.4 Main Clients and Supply Chain
- 4.9.5 Development Strategy and Summarization
- 4.10 JFE Steel
 - 4.10.1 Company Profile and Organization Structure
 - 4.10.2 Production and Sales 2002-2007
 - 4.10.3 Operation Revenue and Profit Margin 2004-2007
 - 4.10.4 Main Clients and Supply Chain
 - 4.10.5 Development Strategy and Summarization
- 4.11 Sumco
 - 4.11.1 Company Profile and Organization Structure
 - 4.11.2 Main Product Category
 - 4.11.3 Operation Revenue and Profit Margin 2004-2007
 - 4.11.4 Contact
 - 4.11.5 Forecast of Future Production Capacity
- 4.12 RWE Schott Solar
 - 4.12.1 Company Profile and Organization Structure
 - 4.12.2 Production Capacity Distribution Worldwide
 - 4.12.3 Operation Situation 2006-2007
 - 4.12.4 Main Clients and Supply Chain
 - 4.12.5 Forecast of Production Capacity
- 4.13 Sharp
 - 4.13.1 Company Profile and Organization Structure
 - 4.13.2 Proportion of Solar Products to Total Sharp Sales Profits
 - 4.13.3 Operation Revenue and Profit Margin 2004-2007
 - 4.13.4 Main Clients and Supply Chain
 - 4.13.5 Development Strategy and Summarization
- 4.14 Yingli Solar
 - 4.14.1 Company Profile and Organization Structure
 - 4.14.2 Operation Status 2003-2007
 - 4.14.3 Forecast of Production Capacity
- 4.15 LDK Solar Hi-Tech Co., Ltd.
 - 4.15.1 Company Profile and Organization Structure
 - 4.15.2 Production and Sales 2007-2008
 - 4.15.3 Main Clients and Supply Chain
 - 4.15.4 Forecast of Production Capacity
- 4.16 Ersol Solar Energy AG(ASi Industries GmbH)
 - 4.16.1 Company Profile and Organization Structure

- 4.16.2 Operation Revenue and Profit Margin, 2002-2006
- 4.16.3 Development Strategy and Summarization
- 4.17 Photowatt International SAS
 - 4.17.1 Company Profile and Organization Structure
 - 4.17.2 Technical Advantage
 - 4.17.3 Contact
- 4.18 Jinglong Group
 - 4.18.1 Company Profile and Organization Structure
 - 4.18.2 Production and Sales 2002-2007
 - 4.18.3 Operation Revenue and Profit Margin
 - 4.18.4 Main Clients and Supply Chain
 - 4.18.5 Forecast of Production Capacity
- 4.19 Space Energy
 - 4.19.1 Company Profile and Organization Structure
 - 4.19.2 Contact
- 4.20 Swiss Wafer
 - 4.20.1 Company Profile and Organization Structure
 - 4.20.2 Market
 - 4.20.3 Main Clients and Supply Chain
- 4.21 Topsil Semiconductor Materials A/S
 - 4.21.1 Company Profile and Organization Structure
 - 4.21.2 Operation in 2003-2007
 - 4.21.3 Main Clients and Supply Chain
- 4.22 Others
 - 4.22.1 Wafer World
 - 4.22.2 IB Vogt GmbH
 - 4.22.3 LG Siltron
 - 4.22.4 Maharishi Solar Technology Pvt. Ltd.
 - 4.22.5 Renesola
 - 4.22.6 JSC Pillar
- 4.23 Summarization

5. SOLAR BATTERY, MODULE AND SYSTEM

- 5.1 General Introduction to Solar Battery Market
- 5.2 General Introduction to Solar Module
- 5.3 General Introduction to Solar System
- 5.4 Q-Battery
 - 5.4.1 Company Profile and Organization Structure

- 5.4.2 Production and Sales 2005-2007
- 5.4.3 Operation Revenue and Profit Margin
- 5.4.4 Main Clients and Contacts
- 5.5 Sanyo
 - 5.5.1 Company Profile and Organization Structure
 - 5.5.2 Production and Sales 2002-2006
 - 5.5.3 Main Clients and Contacts
 - 5.5.4 Development Strategy and Summarization
- 5.6 Mitsubishi
 - 5.6.1 Company Profile and Market Structure
 - 5.6.2 Main Products and Contacts
- 5.7 RWE SCHOTT Solar
 - 5.7.1 Company Profile and Organization Structure
 - 5.7.2 Operation Revenue and Profit Margin
 - 5.7.3 Main Clients and Supply Chain
 - 5.7.4 Development Strategy and Summarization
- 5.8 BP Solar
 - 5.8.1 Company Profile and Organization Structure
 - 5.8.2 Operation Status 2005-2007
 - 5.8.3 Products and Contacts
- 5.9 Suntech Power
 - 5.9.1 Company Profile and Organization Structure
 - 5.9.2 Operation Revenue and Profits
 - 5.9.3 Products and Contacts
 - 5.9.4 Development Strategy and Summarization
- 5.10 Motech
 - 5.10.1 Company Profile and Organization Structure
 - 5.10.2 Production and Sales 2004-2007
 - 5.10.3 Main Products and Contacts
- 5.11 Shell Solar
 - 5.11.1 Company Profile and Organization Structure
 - 5.11.2 Production and Sales 2000-2006
 - 5.11.3 Products and Contacts
- 5.12 Isofoton
 - 5.12.1 Company Profile and Organization Structure
 - 5.12.2 Operation Revenue and Profit Margin
 - 5.12.3 Main Clients and Supply Chain
 - 5.12.4 Development Strategy
- 5.13 Deutsche Battery

- 5.13.1 Company Profile and Organization Structure
- 5.13.2 Contact
- 5.14 Photowatt
 - 5.14.1 Company Profile and Organization Structure
 - 5.14.2 Operation Revenue and Profit Margin
- 5.15 Ersol
 - 5.15.1 Company Profile and Organization Structure
 - 5.15.2 Operation Revenue in 2008
- 5.16 GE Energy
 - 5.16.1 Company Profile and Organization Structure
 - 5.16.2 Operation Revenue and Profit Margin, 2003-2007
- 5.17 United Solar
- 5.18 Sunways
 - 5.18.1 Company Profile and Organization Structure
 - 5.18.2 Operation Revenue and Profit Margin in 2007
 - 5.18.3 Development Strategy
- 5.19 E-ton Solar
 - 5.19.1 Company Profile and Organization Structure
 - 5.19.2 Development Strategy and Summarization
- 5.20 Yingli
 - 5.20.1 Company Profile and Organization Structure
 - 5.20.2 Operation 2003-2007
 - 5.20.3 Main Clients and Contacts
 - 5.20.4 Development Strategy
- 5.21 China Sunergy
 - 5.21.1 Company Profile and Organization Structure
 - 5.21.2 Development Strategy and Summarization
- 5.22 Others
 - 5.22.1 Topray Solar
 - 5.22.2 Yunnan Tianda Photovoltaic Co., Ltd.
 - 5.22.3 Ningbo SunEarth Solar Power Co., Ltd.
 - 5.22.4 Shanghai Solar Energy S&T Co., Ltd
 - 5.22.5 Shanghai Topsolar Green Energy Co., Ltd
 - 5.22.6 Wuxi Shangpin solar science & Technology CO.,LTD
 - 5.22.7 Jiangsu Linyang Solarfun Co., Ltd
- 5.23 Summarization

6. CONSUMPTION MARKET OF SOLAR BATTERY

- 6.1 Global Consumption Market of Solar
 - 6.1.1 Photo Voltaic
 - 6.1.2 Government Policy on Solar
- 6.2 Germany
 - 6.2.1 National Policy and Plan
 - 6.2.2 Review and Prospect of Solar Consumption
 - 6.2.3 Development Strategy
- 6.3 Japan
 - 6.3.1 National Policy and Plan
 - 6.3.2 Review and Prospect of Solar Consumption
 - 6.3.3 Development Strategy
- 6.4 USA
 - 6.4.1 National Policy and Plan
 - 6.4.2 Review and Prospect of Solar Consumption
 - 6.4.3 Development Strategy
- 6.5 China
 - 6.5.1 National Policy and Plan
 - 6.5.2 Review and Prospect of Solar Consumption
 - 6.5.3 Development Strategy
- 6.6 Spain
 - 6.6.1 National Policy and Plan
 - 6.6.2 Review and Prospect of Solar Consumption
 - 6.6.3 Development Strategy
- 6.7 Italy
 - 6.7.1 National Policy and Plan
 - 6.7.2 Review and Prospect of Solar Consumption
 - 6.7.3 Development Strategy
- 6.8 France
 - 6.8.1 National Policy and Plan
 - 6.8.2 Review and Prospect of Solar Consumption
 - 6.8.3 Development Strategy
- 6.9 Australia
 - 6.9.1 National Policy and Plan
 - 6.9.2 Review and Prospect of Solar Consumption
- 6.10 Britain
 - 6.10.1 National Policy and Plan
 - 6.10.2 Review and Prospect of Solar Consumption
- 6.11 Greece
 - 6.11.1 National Policy and Plan

- 6.11.2 Review and Prospect of Solar Consumption
- 6.12 Other Countries and Areas
 - 6.12.1 India
 - 6.12.2 Austria
 - 6.12.3 Finland
 - 6.12.4 Denmark
 - 6.12.5 Norway
 - 6.12.6 Sweden
 - 6.12.7 Holland, Belgium and Luxemburg
 - 6.12.8 New Member of European Union
 - 6.12.9 Korea
 - 6.12.10 Taiwan
- 6.13 Summarization

TABLES/FIGURES

- Global Polysilicon Industry Chain in 2007
- Accumulated Installed Capacity of Photovoltaic Worldwide and the Growth, 1994-2007
- Photovoltaic Related Industries in China
- Polysilicon Solar Battery Industry Chain Map
- Value Structure in Photovoltaic Industry Chain
- Profit Distribution before Tax in Global Photovoltaic Industry Chain, 2005-2010
- Geography Distribution of Solar Energy in China
- Expansion Trend of Solar Grade Silicon Material Production Worldwide, 2003-2010
- Expansion Trend of Electronic Grade Silicon Material Worldwide, 2003-2010
- Construction of Main Silicon Material Company Worldwide, 2006-2009
- Construction of Main Silicon Material Company in China, 2007-2010
- Production Capacity of Seven Main Silicon Material in the World, 2007
- Spot Price of Solar Polysilicon, 2003-2008
- Shareholding Structure of Hemlock
- Upstream Material Supply, Middle stream Products and Downstream Clients of Hemlock
- Solar Polysilicon Product of Hemlock
- Main Product and Application Field of Polysilicon Branch in 2007
- Application Field of Wacker Polysilicon Products-Electronic and Solar Grade
- Electronic Application Field of Wacker Polysilicon/ Monocrystalline Silicon and Potential User
- Prediction made by Wacker on the Growth and Competition of 300mm less Wafer
- Production Capacity Plan of Wacker on Polysilicon and Monocrystalline, 2005-2010

Main Product Revenue of Tokuyama, 2005-2006
Sales Revenue of Tokuyama in 2007
Growth of Total Assets, 2003-2007
Revenue from Silicon Material and Advanced Material, 2002-2006
Nine Manufacturing Bases of MEMC in the World
Sales Revenue of MEMC in 2007
Real and Planned Output of MEMC, 2005-2010
Demand and Supply in Polysilicon Market, Estimated by MEMC
Technical Files of MEMC
Prospect of MEMC
Organization Structure of REC
Operation Status of REC, 2004-2007
Mitsubishi Electronic Material Department and Product Series
Prospect of Mitsubishi Electronic Material Department
Sales of Mitsubishi Electronic Material Department and Main Products in 2007
Operation Revenue of Mitsubishi Material Department 2006-2007 Fiscal Year
Establishment, Assets, Subsidiary, Headquarters and Employee of Sumitomo
Operation Status of Each Sumitomo Department in 2007
Production Workflow of Polysilicon in Sumitomo
Main Financial Indices of Sumitomo, 2002-2007
Development Trend of Sumitomo Polysilicon Business
Shareholding Structure of SiChuan Xinguang Silicon Technology Co., Ltd.
Shareholding Structure of Ningxia Sunshine Silicon Industry Co., Ltd
Market Shares of World TOP 12 Wafer Manufacturers
Operation Workflow from Silicon to Wafer
Changes in Thickness of Wafer and Efficiency of Solar Battery, 2003-2010
Typical Companies in China Solar Polysilicon-Silicon Ingot/Wafer-Battery-Module Industry, 2007
Market Shares of World Solar Battery Manufacturers in 2007
Position of REC Wafer in REC
Financial Data of REC Wafer, 2006-2007
Global Market of SolarWorld
Production Technical Workflow of M.Setek Wafer
Production Capacity of M.Setek in the World
Profit Ratio of Solar Energy Department and Main Products in 2007
Profit Ratio of Solar Energy Department and Main Products in 2008
Sales of Products in Each Region in 2008
Sales of Kyocera, 2003-2007
Profit of Kyocera, 2003-Mar 2008

Profit of BP in 2007
Brief Introduction to PV Crystalox
Market of PV Crystalox
Sanyo Solar ARK
Main Products of SUMCO
Production Capacity of Schott Solar in the World
Shareholding Structure of Sharp in 2007
Proportion of Solar Energy Products in Sales Profits of Sharp in 2007
Organization Structure of Yingli
Brief Introduction to Jiangxi LDK Solar Co., Ltd
Operation Status of Jiangxi LDK Solar Co., Ltd 2007-2008 Q1
Main Clients of Jiangxi LDK Solar Co., Ltd
Forecast of Jiangxi LDK's Production Capacity
Organization Structure of Ersol Group
Main Indices of Ersol, 2006-2007
Production Capacity of Ersol, 2006-2012
Sales Value of Ersol in 2007
Development Strategy of Ersol
Clients and Target Market of Ersol
Technical Strategy of Ersol, 2005-2010
Performance Comparison between Photowatt Solar Module and Other Brands
Production and Sales Network of Space Energy Corporation
Basic Information on Space Energy Corporation
Introduction to Swiss Wafer
Forecast made by Swiss Wafer on Solar Energy Market
Classification of Solar Battery
Technical Workflow of Manufacturing Polysilicon Solar Battery
Output of Large PV Solar Battery in the World, 2005-2010
Top Ten PV Battery in 2007
Statistics and Forecast of Solar Battery Output in Japan, America and Europe, 2004-2010
Sales Volume and Growth Trend of PV Module in Each Regions
Statistics of Sales Volume and Growth in Each Region
Production Capacity of Main Module Producers in China, 2007
Comparison of Cost for Power Generation by Different Means
Price Trend of PV Power and Normal Power, 1990-2040
Accumulative Installed Capacity of PV Solar Energy and the Growth, 1994-2007
Accumulative Installed Capacity, Annual Installed Capacity and the Growth, 2000-2009
Four Cluster of PV Industry in China

Partnership of Q-Battery, 2001-2005
Development of Battery Business, 2001-2008
Output Trend of Q-Battery, 2005-2007
Operation Status of Q-Battery, 2006-2007
Growth of Solar Battery Output in Sanyo, 2001-2005
Market Shares of Solar Battery by Regions
Main Business Revenue, 2006-2007
Operation Status of BP Solar, 2005-2007
Shareholding Structure of Suntech Power
Operation of Suntech Energy, 2003-2007
Cash Flow of Suntech Energy, 2005-2007
Output of Suntech Energy Solar Battery, 2007-2010
Organization Structure
Output of Shell Solar Battery, 2000-2006
Operation Revenue of Isofoton, 2000-2005
Important Events of Deutsche Battery, 2001-2006
Financial Results of Photowatt in 2005, by Departments
Financial Target in 2006
Operation Status in Q1, 2008
Development Course of Sunways, 2000-2007
Sales Channels of Sunways
Operation Revenue in Q1, 2008
Production Plan in 2008, by Quarters
Production Plan to 2010
Product Series of E-ton Solar
Operation Status of Yingli, 2003-2007
Operation Status of Sunergy Nanjing, 2005-2006
Expansion of Sunergy's Production Capacity, 2006-2008
Distribution Network of Shanghai Topsolar Green Energy Co.,Ltd
Proportion of Solar Energy to the Energy Structure, 2000-2100
Power Generation and Cost by Six Energies, Coal, Nuclear, AND Solar etc
Rapid Growth of Solar Battery Industry
Installation of PV Generation System and Forecast in Main European Countries, 2004-2010
Installation of PV Generation System and Forecast in China, 1985-2010
Solar PV Route Map in the USA, 2003-2050
Utilization Plan of Solar Energy in China, 2006-2020
Installed Capacity of Solar and Power Generation Plan in China, 2004-2050
Performance of Stock Listed Companies in PV Companies in China, 2007

Value Estimation of PV Companies in China, 2007-2008
Production Capacity of PV Companies and Product Structure Adjustment in the World, 2006-2010
Production Capacity Expansion and Market Demands in the World, 2005-2010
Solar Battery Output, Solar Polysilicon Demand, 2005-2010
High Purified Polysilicon and Ingot and Wafer Manufacturers in China
Polysilicon Output, Solar Energy Used, Demand and Shortage in China, 2004-2010
Some Investment Plans Involving Polysilicon Project
Four Major Clients of Hemlock and Corresponding Products
Output Forecast of Wacker, 2007-2010
Sale of Wacker in the Overseas Market, 2004-2007
Production Base, Product Category and Application of Wacker
Shareholding Structure of Tokuyama
Asset Structure of Tokuyama
Production and Sales of Tokuyama, 2002-2007
Operation Status of MEMC, 2003-2007
Sales Revenue of MEMC, 2005-2007, by Different Regions
Production and sales of REC, 2002-2007
Output Forecast of REC, 2008-2010
Contact of ASimi and SGS
Operation Status of Material Department in Mitsubishi, 2005-2007
Product Category and Contact in Japan and America
Revenue of Sumitomo, 2002-2007
Production and Sales of Polysilicon in Luoyang Sino-silicon, 2002-2007
Forecast of Polysilicon Output in Luoyang Sino-silicon, 2007-2010
Production and Sales of Polysilicon in E'mei Semiconducting Material Factory, 2002-2007
Forecast of Polysilicon Output in E'mei Semiconducting Material Factory, 2007-2010
Related Enterprises of E'mei Semiconducting Material Factory
Product Information of E'mei Semiconducting Material Factory
Wafer Demand and Sales Value of Semi-conductor
Wafer Business of REC Wafer, and the Production and Sales
Forecast of Wafer Output in Scanwafer, 2007-2010
Profits in Each Subsidiary of SolarWorld, 2006-2007
Statistics and Forecast of Wafer Output in Deutsche Solar, 2005-2010
Main Clients of M.Setek
Forecast of Wafer Output in M.Setek, 2007-2010
Production and Sales of Kyocera Wafer, 2002-2007
Forecast of Production and Sales of Kyocera Wafer, 2008-2010

Output Forecast of BP Solar Wafer, 2008-2010
Production and Sales of BP Solar, 2003-2007
Forecast of PV Crystallox Polysilicon Output, 2007-2010
Production and Sales of Shell Solar Wafer
Forecast of Shell Solar Wafer Output, 2007-2010
Operation Revenue and Profit Margin of Wafer from Sanyo
Forecast of Sanyo Solar Wafer Output, 2007-2010
Production and Sales of JFE Steel Wafer, 2002-2007
Operation Revenue and Profit Margin of JFE Steel Wafer, 2004-2007
Forecast of JFE Steel Solar Wafer Output, 2007-2010
Basic Information of SUMCO
Operation Revenue and Profit Margin of SUMCO Wafer, 2004-2007
Production Capacity in SUMCO Solar Wafer, 2008-2010E
Operation Revenue of RWE Schott Solar, 2006-2007
Production Capacity of RWE Schott Solar Wafer, 2007-2010E
Operation Revenue and Profit Margin of Sharp Solar Wafer, 2004-2007
Forecast of Sharp Solar Wafer Output, 2007-2010
Operation Status of Yingli, 2003-2007
Currency Flow of Yingli, 2003-2007
Production Capacity of Yingli Wafer, 2008-2010E
Production and Sales of Hebei Jinglong Wafer Business, 2002-2007
Operation Revenue and Profit Margin of PV Crystallox Wafer, 2004-2006
Forecast of Hebei Jinglong Wafer Output, 2008-2010
Shareholding Structure of Topsil in Dec 2007
Branch Companies of Topsil and Ownership Relations
Main Operation Indicators, 2003-2007
Main Product Varieties of LG Siltron Wafer
Product Varieties of JSC Pillar
Development Strategy of JSC Pillar
Estimated Value of Each International/Chinese PV Company
Ranking of Countries, by Output of Battery and Module in 2005
Output of Solar Battery among Domestic Producers in 2006
Main Domestic Battery Module Producers, Production Capacity and Market Share in 2005
Stock Listed Companies in Mainland China that involved in Solar Energy Business
Shareholding Structure of Q-Battery on Dec 31, 2007
Output of Isofoton in 2006
Operation Revenue of Ersol Battery Department in 2008
Development Course of GE

Operation Revenue of GE, by Departments, 2003-2007
Operation Status of Jiangsu Linyang, 2007-Q1, 2008
Application Field of Solar Battery
Stimulating Policy on Solar Energy in Germany, 1990-2006
Stimulating Policy on Solar Energy in Japan, 1990-2006
Target Transference Efficiency of PV Module/Battery in Japan, 2010-2030
Stimulating Policy on Solar Energy in the USA, 1978-2006
Main PV Projects in China
On-grid Price of PV Power in Greece, 2006-2020
Development Target of PV Market in European Union, 2050
Large Capacity PV Power Generation Market in the World, 2002-2008
Development Target of World PV Industry, 2004-2010

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