



**WANXIANG**

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# Wanxiang Solar



- Profile of Wanxiang
- Wanxiang New Energy Business
- Wanxiang Solar In China
- Wanxiang Solar In America



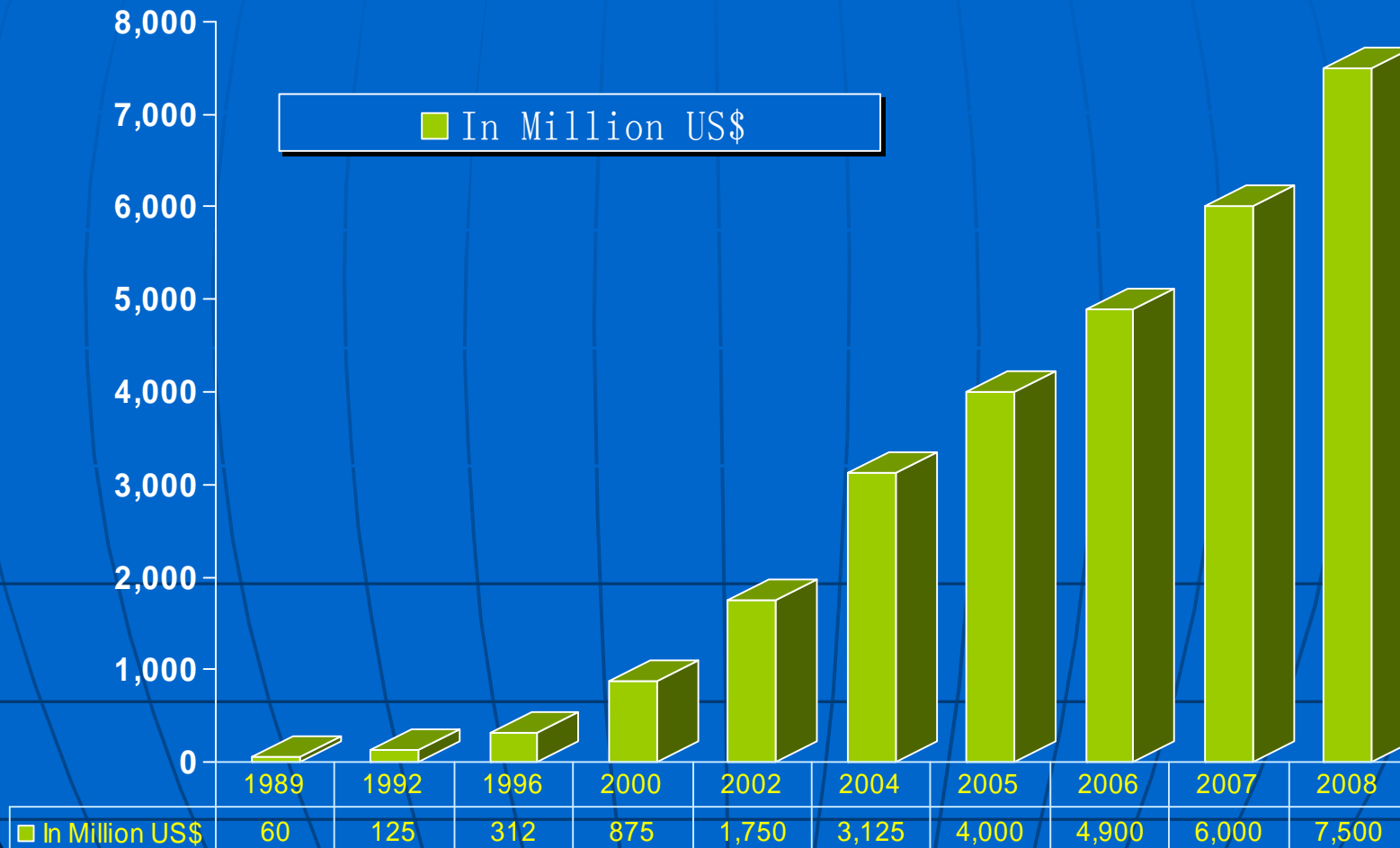
## Wanxiang Group

- *One of top 3 Non-State-Owned companies*
- *Headquartered in Hangzhou, China*

- **Established in 1969**
- **Approx. 45,000 employees**
- **A Global Company**
- **One of the 120 Pilot Group members by the State Council**
- **No. 1 in China Automotive parts industry**
- **The most comprehensive financial services and investment company in China**

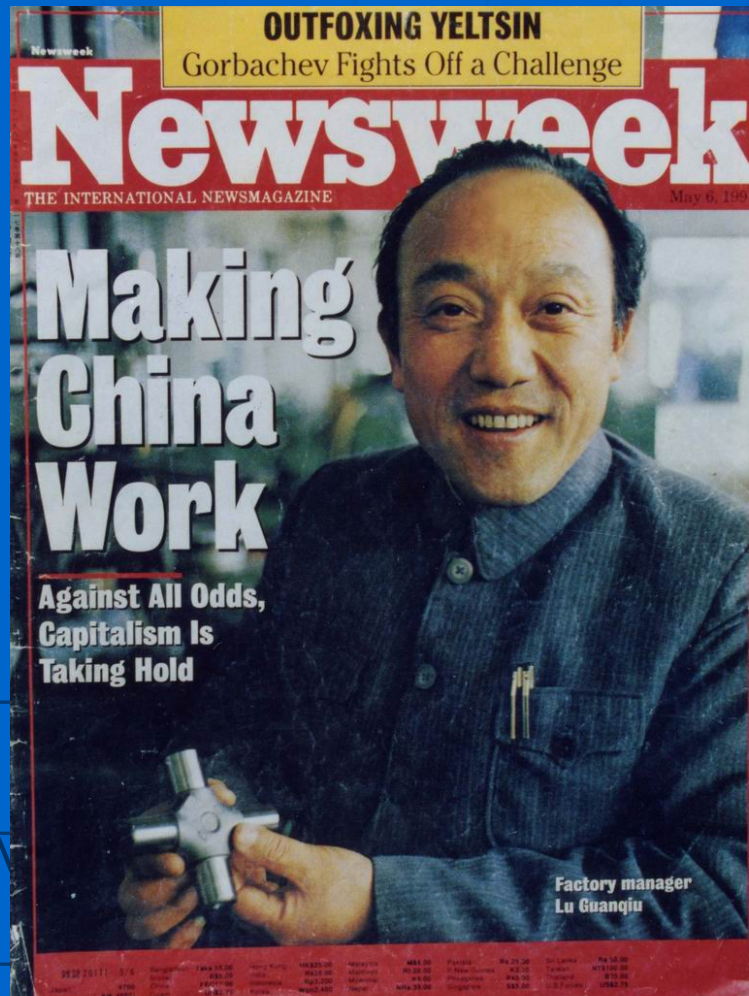


# Wanxiang's Revenue Growth (Since 1989)





## Founder of Wanxiang



- Dr. Lu Guanqiu
- Founder and Chairman of the Board of Directors
- Featured on the cover of Newsweek in May, 1991
- Elected to State Congress for several sessions
- Deputy Chairman of State Entrepreneur Association



## Founder of Wanxiang

Dr. Lu Guanqiu -- Founder and Chairman of Wanxiang Group, a representative of China private companies, is greatly supported by the Chinese Government



Dr. Lu GuanQiu and Mr. Jiang Zemin -- Former Chinese President



Dr. Lu GuanQiu and Mr. Hu Jintao -- Chinese President



Dr. Lu GuanQiu and Mr. Zhu Rongji-- Former Chinese Premier



Dr. Lu GuanQiu and Mr. Wen Jiabao --Chinese Premier



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*Profile of Wanxiang*

## Example of Wanxiang Manufacturing

- Location: Hangzhou
- 3 Industrial Bases Covering Area of 21,500,000 Sq. Feet
- Operations: 10





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*Profile of Wanxiang*



Industrial Base I in Hangzhou, China

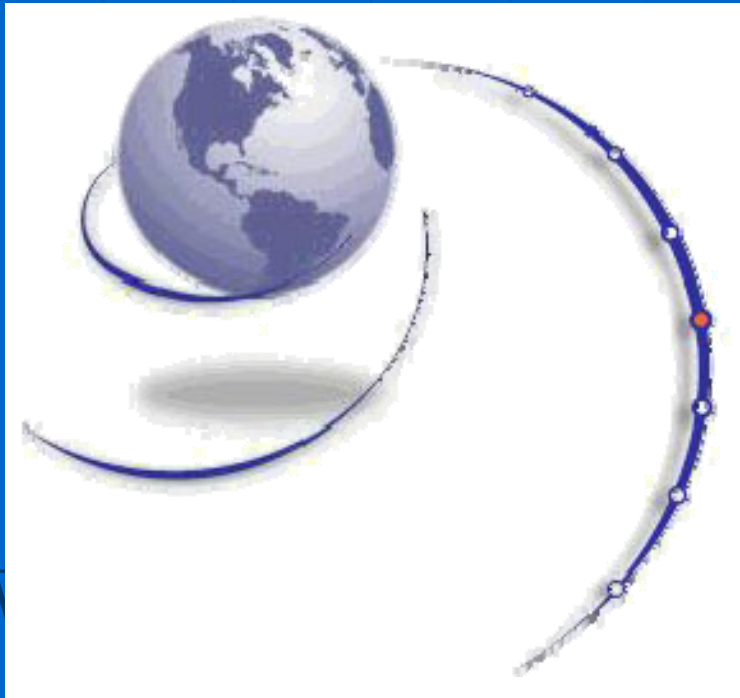


# Wanxiang Worldwide





## Wanxiang America Corp.



- **2007 Aggregated Revenue**
  - ✓ **Approx. \$883 million USD**
- **2008 Projected**
  - ✓ **Approx. \$1,300 million USD**
- **2007 Aggregated Work Force**
  - ✓ **Approx. 4,000 employees**
- **2008 Projected**
  - ✓ **Approx. 4,500 employees**



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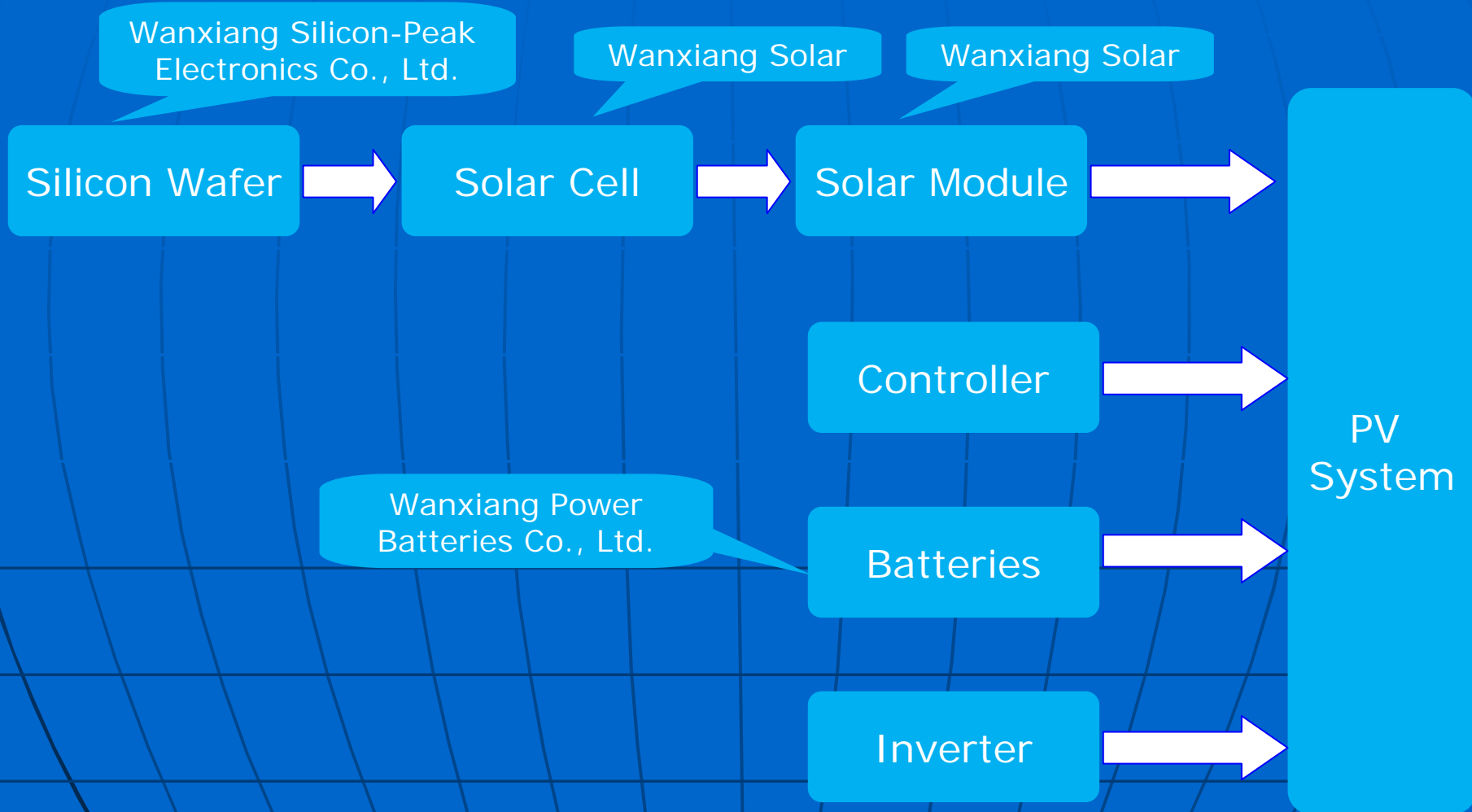


## **New Energy Business**

- **Start Renewable Energy Business since 2000**
- **Largest manufacturer of medium/large size silicon ingot and wafer cutting in China**
- **Power batteries manufacturing and best power battery technology in China**
- **Electric Vehicle won 23 awards in 2007 Shanghai Challenge Bibendum**
- **Build and operate 3 natural gas power plants**
- **PV manufacturing (started 2005)**

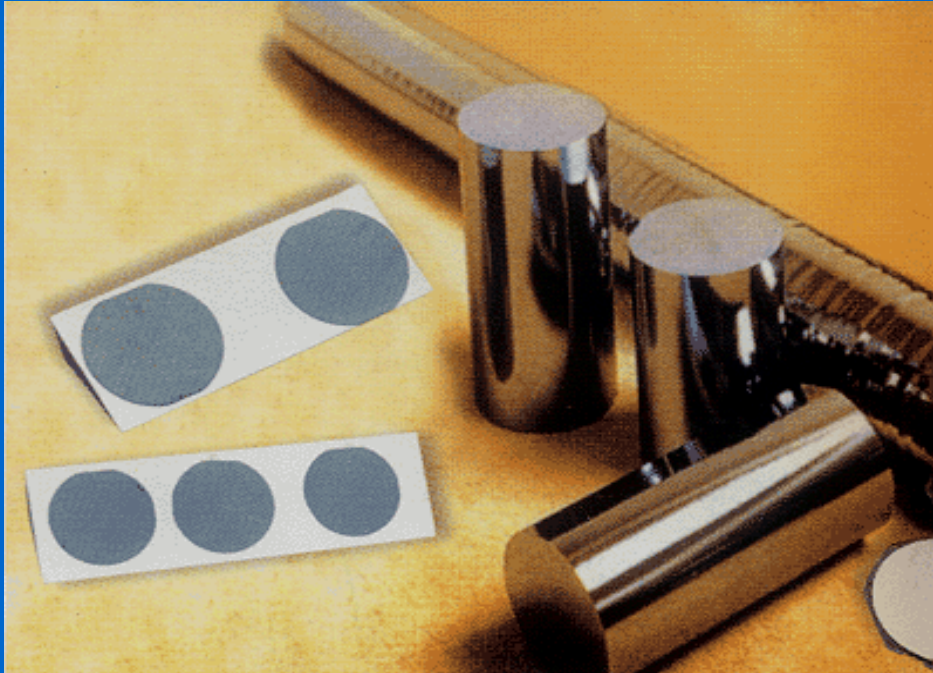


# Contribution To PV





## Ingots Products



- CZ mono-crystalline silicon ingot and wafer
- Exclusive supplier of silicon wafer to spaceship Shenzhou-7, from which Chinese astronaut made the first-ever space walk
- Supply solar silicon wafer to Sharp /Suntech



## Wanxiang Electric Vehicle and Power Batteries



- Awarded by the High Tech Research and Development (863) Program of China
- Produce high-power high-capacity polymer lithium batteries
- The electric buses have been working around the West Lake which is the first commercial demonstration route of lithium battery bus in China.
- Electric visiting vehicles have been distributed over the country and exported abroad.



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*Wanxiang New Energy Business*

## Wanxiang Natural Gas Power Plants

- Operations: 3
- Location: Zhejiang Province
- Total Investment: \$130 MM
- Total Capacity: 300 MW





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## Wanxiang PV Industrial Park



Located in Hangzhou,  
Zhejiang Province, China

- Total area: 164 acre
- PV building: 500,000 ft<sup>2</sup>
- In establishment
- Total 300MW cell & module





## 2008-2010 Expanding

<b>Time</b>	<b>Tech Type</b>	<b>Products</b>	<b>Capacity (MW/a)</b>	<b>Investment (Million \$US)</b>
<b>2007</b>	<b>Crystalline silicon</b>	<b>Module</b>	<b>30</b>	<b>25</b>
<b>2008-2009</b>	<b>Crystalline silicon</b>	<b>Cell and Module</b>	<b>100</b>	<b>100</b>
<b>2010-2011</b>	<b>Crystalline silicon</b>	<b>Cell and Module</b>	<b>300</b>	<b>200</b>



# The Factory and Process



**Mono-Crystalline  
silicon ingot  
production**



**Wafer slicing**



**Automatic Cell  
Tabbing and stringing**



**Automatic lamination**



**Module simulation**

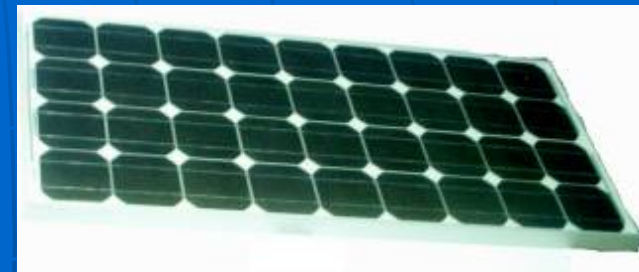


## The Products

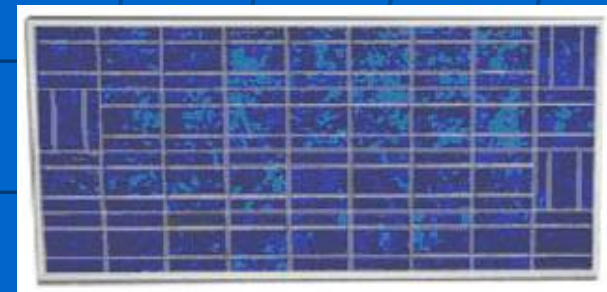
- 30 MW Capacity in 2007
- Supply both mono and multi solar modules
- Power output from 20W through to 300W
- Hundreds of different models
- Customer specified design and manufacturing



**Mono**



**Multi**





## The Quality

### Standard and Qualification

- Design and Production per IEC 61215
- UL Listed
- TUV Safety class II Certificated
- CE certified in Germany and China
- ISO 9000/14000/18000 System
- ZERO Records of Customer complain



## THE WARRANTY

- **25 Years of 80% Power Output !**
- **10 Years of 90% Power Output !**
- **5 Years of Quality Assurance !**
- **The Promise of a 40-year Old Multinational !**



## THE SERVICE

- **Hundreds of Products for your Choice !**
- **Customerized Design and Manufacturing !**
- **PV Power System Total Solution Support !**
- **Worldwide After-Market Service !**
- **Quality Liability (only available in European Market) :**
  - Is Insured By well-known Insurance Company:**
    - Ping An Insurance (Group) Company of China !**
  - In April 2007, Ping An was ranked the 440th overall by the "Forbes Global 2000"**



## *Why Select Wanxiang Solar ?*

- THE QUALITY !
- THE PRICE !
- THE WARRANTY !
- THE SERVICE !



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*Wanxiang Solar Projects*

# Examples of PV Projects Using Wanxiang Solar Panel



- **Installation location: Cesfer, a city of 185 miles away from Madrid, Spain**
- **System size: 2mW DC**
- **Panel: Wanxiang WXS205S, 205W**





- **Installation location: Cesfer, a city of 185 miles away from Madrid, Spain**
- **System size: 3mW DC**
- **Panel: Wanxiang WXS175S, 180W**





- **Installation location: Vic, a city of 300 miles away from Madrid, Spain**
- **System size: 1.5mW DC**
- **Panel: Wanxiang WXS175S, 180W**





- **Installation location: Moglia, Italy**
- **System size: 100kW DC**
- **Panel: Wanxiang WXS175S, WXS180S**





- **Installation location: Augsburg, Germany**
- **System size: 10kW DC**
- **Panel: Wanxiang WXS175S**





- **Installation location: Elgin, IL, USA**
- **Building type: warehouse building**
- **System size: 4kW DC**
- **Panel: Wanxiang WXS160S, 160W**





- Installation location: Merrillville, IN, USA
- Building type: government building
- System size: 5kW DC
- Panel: Wanxiang WXS160S, 165W





- **Installation location: Wheeling, IL, USA**
- **Building type: office building**
- **System size: 10 kW DC**
- **Panel: Wanxiang WXS165S, 165W**





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*Wanxiang Solar Projects*

- **Installation location: Medina, MN, USA**
- **Building type: government building**
- **System size: 100 kW DC**
- **Panel: Wanxiang WXS185S, 185W**





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# Business Plan of Wanxiang Solar in America

## Rockford Logistics Park



**Rockford, Illinois**

**40 Acres of Fully Developed  
Land Near the Chicago/Rockford  
International Airport**

**- Fully Improved, including  
roads & rough grading**



**Plant Location: Rockford, IL  
Secured Land: 20 acres**



# Business Plan of Wanxiang Solar in America

	2009	2010	2011	2012
<b>Production Lines</b>	2	4	8	10
<b>Capacity (MW)</b>	20	40	80	100



**THANKS!**

