

## Global and China Solar Polysilicon Industry Chain Report, 2008



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.

Polysilicon Projects in China

**Production Capacity of Major Polysilicon (for Solar Battery) Manufacturers Worldwide 2003-2010**

Company	2003	2004	2005	2006	2007	2008E	2009E	2010E
Hemlock	2000	2100	2100	3000	5000	7100	9500	14000
Asimi(REC)	0	150	200	1500	1500	3000	3000	3000
SGS	1900	2200	2200	2200	2200	8500	8500	8500
MEMC	0	0	0	1100	1100	1400	1500	5000
Wacker	1600	1800	1900	2800	2800	5500	8500	15500
Tokuyama	1000	1200	1400	1400	1400	1500	1900	1900
Mitsubishi	300	300	300	300	350	350	350	350
<b>Total</b>	<b>6800</b>	<b>7750</b>	<b>8100</b>	<b>12300</b>	<b>14350</b>	<b>27350</b>	<b>33250</b>	<b>48250</b>

Source: ResearchInChina

	Manufacturer	Planned Production Capacity	Phase I Production Capacity
		(ton/year)	(ton/year)
Production Capacity already	Emei Semiconductor Materials	4500	1500
	Luoyang Sino-silicon	300	300
Constructed	Xinguang Silicon	1260	1260
	Xuzhou Zhongneng	1000	1000
Production Capacity under Construction	Luoyang Sino-silicon Phase II	3000	1000
	Yunnan Aixin Silicon	10000	1000
	Fujian Guixing Silicon	200	200
	Chongqing Wanzhou (Jiangsu Daquan)	6000	1500
	Yangzhou Shunda	6000	1500
	Asia Silicon	6000	1500
	Wuxi Zhongcai Group	300	300
	Sichuan Leshan (Tongcheng Stock)	10000	1000
	Sichuan Xinjin (Tianwei Chuantou)	3000	3000
	Sichuan Leshan (Ledian Tianwei)	3000	3000
Production Capacity	Hubei Jinmen(Wuhan Jiawei)	1500	1500
	Hubei Yichang(CSG Holdings)	4500	1000
Planned to be built	Jinzhou Longhai ,Liaoning	1000	1000
	Shizuishan, Ningxia	4000	1000
	Hohhot, Inner Mongolia	1500	1500
	Xin Jiang TBEA	12000	1500
	Yiyang, Hunan	5000	1000
	Dongchuan, Qinghai (Huanghe Hydraulic Power)	1000	1000
	<b>Total</b>		<b>85060</b>

Source: ResearchInChina

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.

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