

Research Report on China Solar Cell Industry, 2008

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Abstracts

From the perspective of the whole market value, the global market value has broken through 10 billion dollars, reaching 10.6 billion dollars. However, there are some disturbing factors. In the first-half of last year, the price of every process of solar cell industrial chain had a tendency to increase. However, after the mid last year, the module price of solar cell had begun to ease, mainly due to factors such as the fact that the solar cell price had gone beyond consumer's acceptable price, and the instable willingness of each government to continue or increase the subsidies of alternative energy.

The Chinese solar cell manufacturers mainly concentrate in Yangtz River Delta and Pearl River Delta. In 2006, the production capacity of Wuxi Suntech is 220 MW; and 100 MW in Ningbo Solar Power; 100 MW in Jiangsu Linyang New Energy; 30 MW in Yunnan Tianda Photo-voltaic Tech; 50 MW in Shanghai Topsolar; 50 MW in Jasolar; 30 MW in Shanghai Solar Energy; etc.

The domestic enterprises still remain in small scale phase to utilize the solar energy, with long distance to marketization with large scale. It is reported that the aim of renewable energy utilization in china is to make the solar energy reach 15% share of the total energy in 2020.

Among renewable energies, the solar power generation's required initial investment for equipment is huge, which makes the generation cost relatively higher. It is said that, nowadays, the cost of solar power generation is about 7 to 12 times as expensive as that of bio-mass generation (biogas generation), 6 to 10 times as expensive as that of win power generation, even 11 to 18 times as expensive as that of traditional coal power generation. In this case, ordinary firms and individuals can't afford the investment of the solar power generation equipment. Even affordable, they will not have the initiative to invest as the lack of incentive mechanism. As the enactment and

implementation of , and the rapid expansion of domestic photo-voltaic industry, the market demand of photo-voltaic will also have rapid growth. Besides the stable growth of application of telecommunication industry and off-line user in western china where there is no electricity, in the next 10 to 20 years, the application of photo-voltaic generation mainly in big and medium sized cities will grow rapidly, including the integrated photovoltaic building, photovoltaic generation plant and photovoltaic landscape lighting, and the volume will ultimately surpass the remote regions.

Furthermore, the application of solar cell and portable electric appliance will also grow gradually. Although China's photovoltaic product will mainly be for exportation and the domestic market share is small relatively, in the next 5 to 10 years, China's photovoltaic application market will inevitably grow drastically under policy support, just as other countries nowadays still use economic and legal measures to insure the rapid market growth. And as long as the continuous lowering of the photovoltaic generation cost, photovoltaic will become one of the basic energies ultimately. The time span may be 20 or 40 years, which means that photovoltaic industry will be a sunrise industry in long term not only in china but also in the whole world. The prospect of photovoltaic market is limitless.

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