



**Himin**, the world's largest solar manufacturer



# The Himin Solar Energy Group

The Himin Solar Energy Group was established in 1995 and has become a multifaceted leader in the global solar energy industry.

The company integrates research & development, testing, production and marketing of a range of solar products and technologies. This includes photovoltaic, solar thermal, solar vacuum tube, solar energy building technologies and Winpin energy-saving glass.

**Today Himin is the largest producer of solar water heaters and vacuum tubes in the world.**

**The annual production capacity of the Himin Solar Energy Group equals 50% of the world's annual solar thermal production.**

Annually, Himin has produced in excess of two million square metres of solar energy produce. The energy generated is equivalent to that of 20 million tons of coal per year, without the associated environmental pollution.



## The Incubator of the world's solar energy industry: Himin Solar Valley

To facilitate sustainable development of the solar energy industry, Himin plans to build the China Solar Valley project with a **land occupancy of 3,000,000 square metres** and an investment of several billion RMB as well as an annual output in excess of 100 billion RMB.

The Solar Valley development will include solar buildings, a solar production zone, a solar testing centre, China's Renewable Energy University, a photovoltaic application demonstration, a Solar Energy Museum and numerous other facilities. De zhou, where the Solar Valley is located, was named as 'China Solar City'. De zhou is now actively preparing for the 2010 World Solar City Congress with the support of Himin. This will be the **biggest solar energy building in the world** comprising a total area of 45,000m<sup>2</sup>. It has been selected as the host for the 4th World Solar City Congress in 2010.

On completion, Solar City will have five major components including the World Renewable Energy Research Centre, the Production Centre and the Science and Technology Museum. A Conference and Communication Centre will feature a comprehensive application of energy refrigeration, power generation, desalination, solar thermal, photovoltaic and other technologies. Himin's intention is to create a "Solar Silicon Valley" that will become the world's solar energy incubator.





## Himin Technology testing centre

With the exception of the advanced production line, Himin's complete industry system includes a sophisticated testing centre. The company's solar energy testing technical centre includes 15 large laboratories with more than 320 test procedures for raw material, parts, components and complete units. The testing standards of Himin are more advanced than those of the industry standard. Its simulation tests can imitate extreme outdoor environments, enabling Himin to define realistic product parameters and establish the highest quality systems. The founding and transparency of the testing centre has enabled the solar industry to move towards greater professionalism, systemisation and standards, symbolising the company's growth.



## Himin's automatic vacuum tube production line sets the standards in manufacturing.

The Himin Group's second vacuum tube production line is one of the company's most important manufacturing facilities with a projected design capacity of 30 million tubes per year. The main plant is approximately 42,800 square metres in extent. Independently developed by the Himin Group, it is the largest automatic solar vacuum tube production facility in the world. These products are exported to Australia, Germany, South Africa, Spain and Switzerland.

### Himin 3-Hi "Solar Core" Vacuum Tube

All Glass Evacuated SS-AIN Cermet Solar Vacuum Tubes are manufactured by using the interference absorption type of solar absorption layer

(Australia patent number of invention: Australian 646172, 1994 USA patent number of invention: US 646172, 1996),

and the technology of "metallic-membrane plating", such as SS and A1 duplex metallic target sputter manufactured Cermet absorption layer.

(International patent master class number: F24J 2/48 State patent number of invention: ZL96 1 02331.7).

It also adopts a new interference absorption type of super low emission ratio and selective absorption membrane layer, absorptance:  $a=0.96$ , emission ratio:  $\varepsilon \leq 0.06$ .





Sole Distributors of **Himin** Solar Products

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## NAST Environmental Projects (Pty) Ltd

NASTEP is a national company whose mission is the **provision of a responsible, integrated solar thermal solution** to residents of Sub-Saharan Africa as far as the supply and installation of the Himin range of solar and thermal products are concerned.

Nastep (Pty) Ltd has secured the sole distribution rights for the complete range of Himin products, which includes:

- Thermal geysers and heat collectors
- Photovoltaic panels
- A range of solar lights - traffic, garden and street lights
- Win-Pin Energy saving glass

Our range of geysers vary from complete stand alone units suitable for both flat and pitched roofs, to integrated split systems, as well as heat collectors **which can be fitted to existing electrical geysers.**

Installing a reputable solar heating system enhances the value of any property. The Himin range conforms to the following standards:

- solar water systems conform to the ISO 9001:2000 standards
- geysers have been awarded the European CE mark
- guaranteed for a period of five years
- geysers are manufactured from only the best quality materials
- inner tanks are manufactured from SUS304 stainless steel
- photovoltaic panels carry the European TUV mark
- geysers' heat collectors carry the German DIN mark

NASTEP (Pty) Ltd has established 19 franchises countrywide. Your local franchise will be able to meet every individual's need, from a full assessment of residential or commercial conditions, to the installation and commissioning of Photovoltaic Plaza farms.

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