



INTRODUCTION OF HIMIN SOLAR GROUP







Sun-Moon Mansion--Head office of Himin solar group

- As the leader in China for solar industry, Himin established in 1995 with more than 3000 employees. it insists on the mission of "for the blue sky of our Children, realize micro-emission earth" and always focuses on solutions for global energy substitution.
- Himin own 3 million square meters industry park-China solar valley. In which has built the first, most advanced and full automatic solar energy vacuum tube line with fully independent innovation in the world, the most advanced production line for solar water heater, solar collector, coated steel tube, solar panel, solar lighting and solar cooker etc.
- Himin's products have been exported to more than 100 countries including Germany, Austria, Italy, England, Sausi Arabia etc. and it will never stop pushing forward environment protection for huamn beings in the worldwide.



Research and development--Himin has strong scientific research strength

- High-tech company identified by the Chinese government
- > National intellectual property pilot enterprise
- Accredited laboratory of the CNAS
- China's Construction of Science and Technology
 Independent Innovation advantage Enterprises approved
 by the Ministry of Construction
- China National Solar Heat Utilization Engineering
 Technology Research Centre











Mainly companies of Himin Solar Group



- Himin Solar Co., Ltd
- Registered capital: RMB 500,000,000
- Date of establishment: 1996
- Mainly business: Solar thermal business, including solar water heater, solar hot water boiler system, solar collectors, solar vacuum tubes, CSP and solar oven



Mainly companies of Himin Solar Group

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-	(副本)
	統一社会信用代码 9137140016727461XX 6-1
名 称	皇明洁能控股有限公司
类型	有限责任公司
住 所	德州经济开发区漓江路
法定代表人	黄鸣
注册资本	壹亿元整
成立日期	1998年05月28日
营业期限	1998年05月28日至 年 月 日
经营范围	项目投资: 普通机械、钢材、建材(不含木材)、木暖管 件、五金、化工产品(不含危险、监控、易制毒及食用化 工产品)销售:太阳能电池片及组件、太阳能发电设备、 LEDY]具、灯具配件的研制、销售及安蒙:太阳能玩具、 城市与道路照明产品:货物进出口业务(依法须经批准的 项目,经相关部门批准后方可开展经营活动)。
	登记机关
示:1. 每年1月1日至6月30日	2016年 01 月 21 日 通过企业管用信息公示系统报送并公示上一年度年度报告,不易行道知。 8十条规定的企业有关信息形成回 30 个工作日内需要用社会公示个体工商户 农民专业合作社除外)。

- Himin Clean Energy Holdings Co., Ltd
- Registered capital: RMB 100,000,000
- Date of establishment: 1998
- Mainly business: Solar PV business, including solar panel, solar power system, solar lighting, solar lantern and solar gift



Mainly companies of Himin Solar Group



- Himin international business Co., Ltd
- Registered capital: RMB 50,000,000
- Date of establishment: 2014
- Mainly business: Importing and exporting business



Himin Has independent intellectual property system

Himin has 217 units of valid patents, and the patent conversion rate is more than 90%

Category	Number
patent of invention	25
utility model	107
appearance design	85
In total	217

Strong production capacity

• Solar vacuum tubes: 100,000units per day

OLAR VALLEY

- Solar water heater: 10,000 units per day
- Solar panels: 1500units per day
- Solar light: 500units per day
- Solar cooker: 500units per day



Full-automatic vacuum tube coating line



Vacuum tube coating control center



Fully automatic vacuum line



Automatic welding line



Automatic foaming wire



Automatic packing line

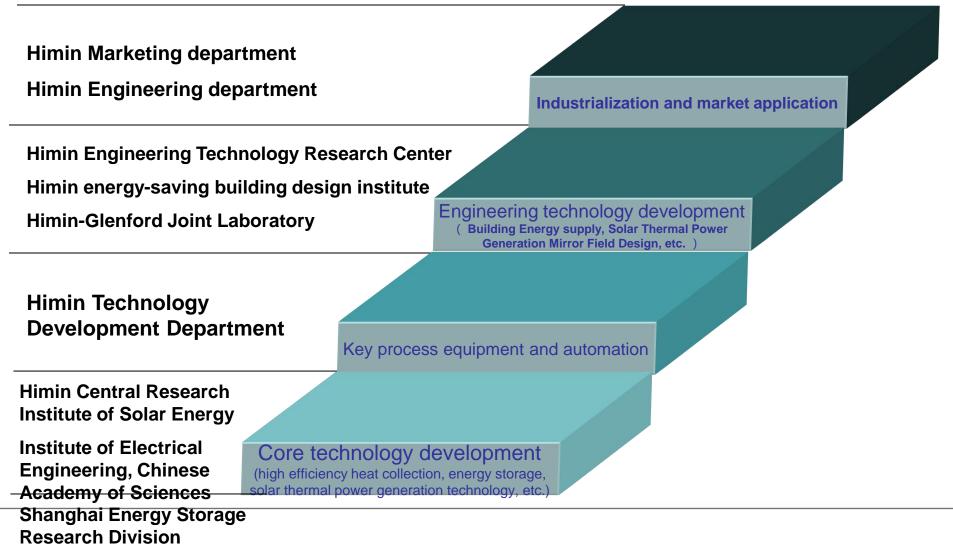


Automatic solid warehouse



Perfect technological innovation system

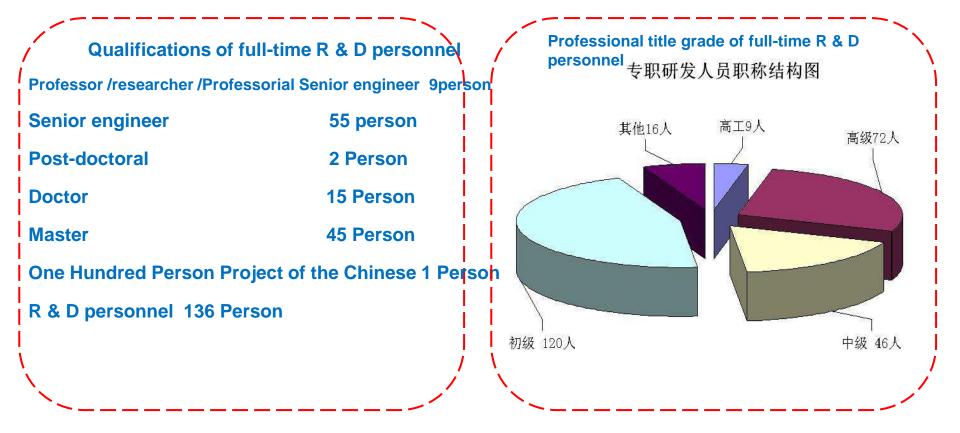
——With a whole set of innovation chain from core technology development to marketization





OLAR VALLEY

High-quality R & D team (263 in total)





Himin Test center--Leading Technology Assure the quality of products Test Control Test Tightening to Reassure Consumers

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New Testing Center

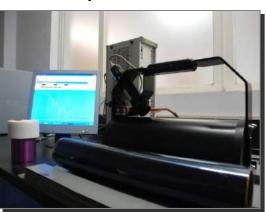


Advanced and complete development equipment

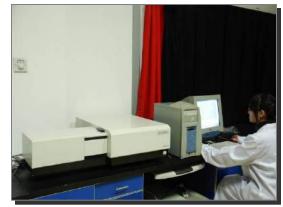


SOLAR VALLEY

Three-dimensional optical test bench



Rapid measuring instrument



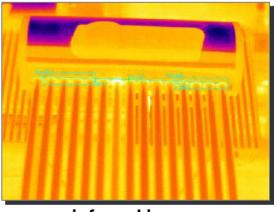
Ultraviolet-visible-near infrared spectrophotometer



film thickness gauge



infrared spectrophotometer



infrared imager





OLAR VALLEY

Thermal performance test platform



Material weathering laboratory



Full spectrum direct-reading plasma emission spectrometer



Chemical laboratory of solar material



On-line rapid measuring instrument



Valve laboratory





Himin Culture

FVVM

- Faith: Appreciate the nature and revere the truth
- Vision: Devote far ahead in global micro emission
- Value: Focus on sustainability
- Mission: For the blue sky of our children, realize micro emission earth



III. Himin honors

Successful hosting of the fourth World Sun City Congress

More than 5000 experts, officials and entrepreneurs from more than 50 countries

and regions gathered in Dezhou to discuss new energy development plans



The concern and support of the Chinese Government

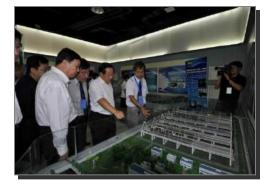


HIMIN SOLAR VALLEY World Yolkey in Future

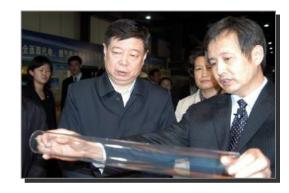
Former Chinese Chairman Hu Jintao visits Model of Badaling Solar Thermal Power Station (2009.3.20)



Chinese chairman Xi Jinping visits the Badaling Solar Thermal Power Station Model (2010.9.18)



Minister Wan Gang visited Himin to guide the work. (2010.9.16)



Jiang Yikang, secretary of the provincial party committee, visited the Himin to guide the work. (2008.4.20)



Jiang Daming, Governor of Shandong Province, visited Himin to guide the work. (2008.4.3)

The International Academy of Solar Technology was established in Himin in 2009

HIMIN SOLAR VALLEY



Chairman of Himin

Huang Ming- Solar King of China

- Board Chairman of Himin Solar
- Vice President of International Solar Energy Society (ISES)
- First Chinese Entrepreneur Who Addressed the UN Forum
- Deputy of the 10th and 11th National People's Congress
- Promoter of PRC Renewable Energy Law
- Winner of the 2011 Honorary Award "The Right Livelihood Awards"



Mr. Huang Ming, Nominated as vice president of ISES

HIMIN SOLAR VALLEY World Volley in Future

FOCUS ON SUSTAINABILIT



ISES International Solar Energy

ISES Vision: Rapid Transition to a Renewable Energy World

Society

Date: 31 December 2009 Phone: +49 - 761 - 45908-45 Fax: +49 - 761 - 45905-90 E-mail: president@ises.org



Dear Huang Ming,

ISES + Wesentastrate 50 + D-T0115 Freiburg

Himin Solar Energy Group Co. Ltd.

Mr. Ming Huang

37 Hubinbei Road

253090 Dezhou

China

Executive Committee Election & Approval 2009

It is my great pleasure to inform you that you have been approved by the Board of Directors of the International Solar Energy Society as Vice President for Solar Industry.

Your term of office will commence on 1 January 2010 and terminate on 31 December 2011.

I am looking forward to seeing you at the upcoming ExCo Meeting in Freiburg on 5-6 March 2010, where we will have our preparation for the ExCo priorities for the upcoming two years.

Best regards,

INTERNATIONAL SOLAR ENERGY SOCIETY

Monica Oliphant President International Headquarters Ville Facultain.
 Winserkolari, ED 20116 Finiburg Germany

Tail +49 TBT 49908-0 Fail +49 TBT 45908-9 E-mail heighest org Web: http://www.ises.org

President Norsca Cliphani

Executive Director Christine Hemstein

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VAT Identification No : DE 177 197 424

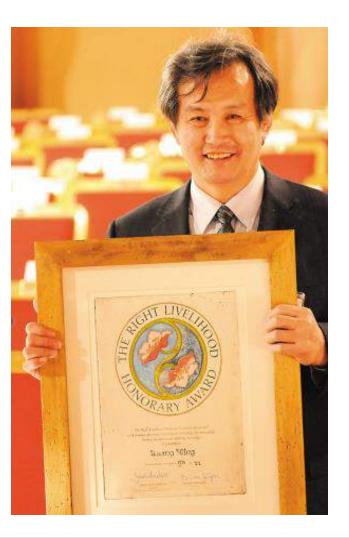


Himin Honor

In 2011, BBC News-Europe: Solar power pioneer Huang Ming wins "Alternative Nobel Prize"— Right Livelihood Award

This is the first award to Chinese for 30 years since the establishment of this award

In the same city, Nobel Prize was held two days later.





Chinese entrepreneur introduce China solar mode at UN



NO. 14 UN. Sustainable development congress in 2005

U.N. Asia-Pacific Business Forum in 2008



Great Concern to Chinese Solar Hi-tech from US



"Just recently, China became the home to the world's largest private solar research facility" From President Obama's State of Union Address in 2011



Former President Jimmy Carter saw the solar collector formerly atop White House which is now displayed in the solar museum when he visited China this September





Talk about Sino-US Development on Renewable Energy with CA Governor Schwarzenegger

Took part in the Good Morning America, famous American talk show with Californian Governor Mr. Schwarzenegger 与国际影视巨星、美国加州州长施瓦辛格在美国 访谈节目《早安美国》(Good Morning America)对话气候变化



Invitation from Dr. Angela Merkel, German Chancellor

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Ambassador of Germany--Mr Michael Schaefer visited Himin Company





Mr. Li Zhaoxing, Former Foreign Minister of China visited Solar Valley



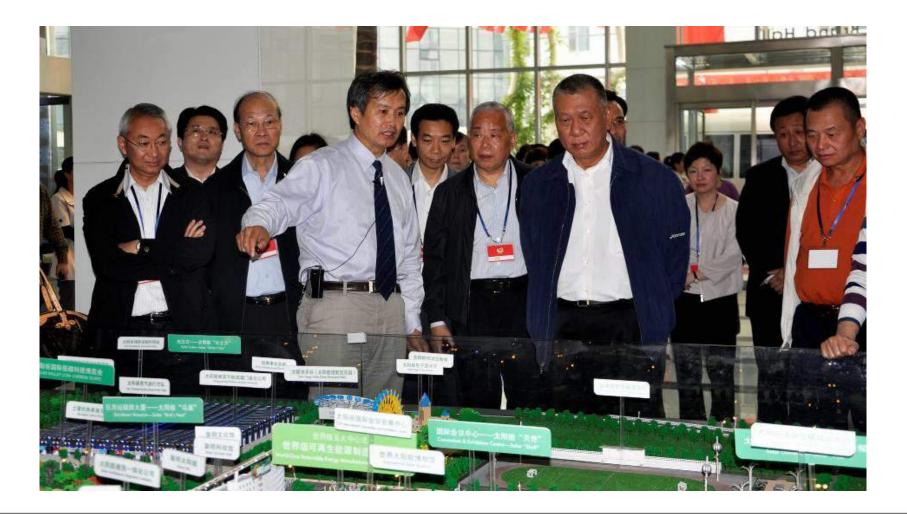


Meet With Chief Executive of Hong Kong, Mr. Tung Chee Hwa





Chief Executive of Macau Special Administrative Region, Mr. Ho Hau Wah Visits Himin Solar Valley





Mr. John Leslie Prescott, the Former UK Premier visited Himin solar museum



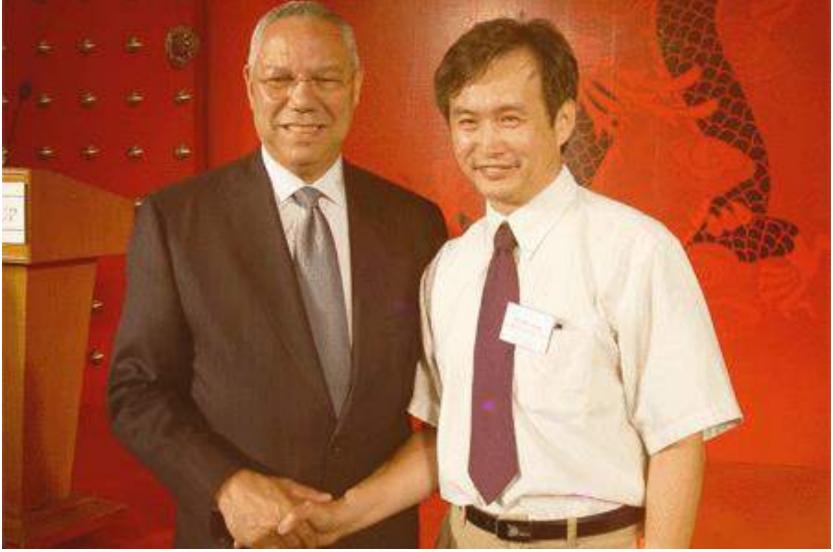


Meet With Former Ambassador of US to China, Mr. Clark T. Randt

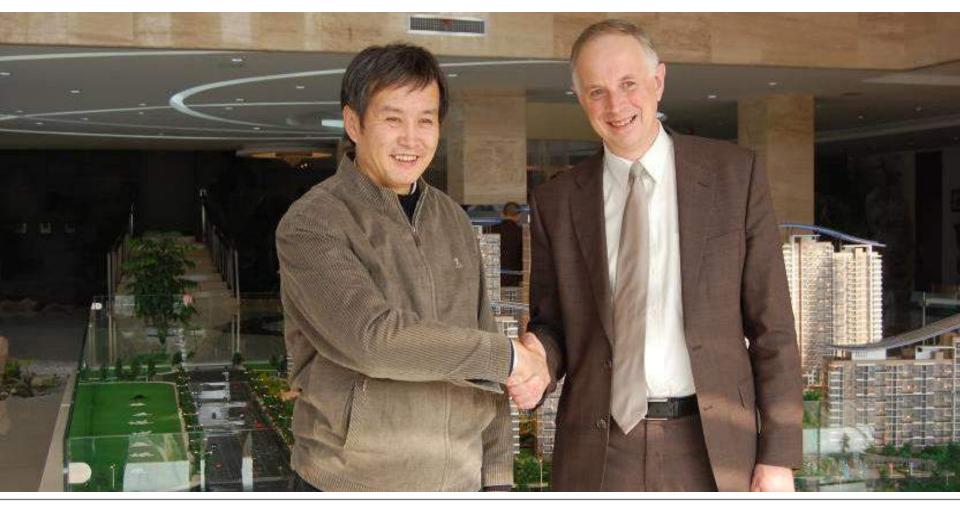




Meet with Former Secretary of US, Mr. Colin Luther Powell



Meet with Mr. Kornelis Blok, consultant of Himin UTOPIA GARDEN, and Peace Nobel Price winner as draftsman of *Kyoto Protocol*





Swedish Premier's Formal Visit to Himin Exclusive Shop in Naniing

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Meet with the Swedish Princess Victoria





Mr. Anders Muld, General Director of Swedish Energy Agency visit Himin





French National TV Station





German "Handelsblatt" reporter with Huang Ming





IV. Solar buildings in solar valley

Himin Solar Valley





Solar Thermal Power Plant 热发 电基地

> Solar Stadium 太阳能体育场

> > PV Production Line 光伏生产线

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ISCC Center太阳能贝壳

Sun-Moon Mansion 太阳能鸟巢—日月坛

Solar Micro-E Hotel 太阳谷微排国际酒店 World Expo. of Solar Architectures太阳能万国 建筑博览园

> Wetland Park 城市绿 肺—减河湿地公园

Solar SPA Center太阳能 鸟蛋—天地温泉



SUN-MOON Mansion--The world largest solar energy, it can save 88 percentage energy.

ALCONG.



Himin Micro-emission international

Hotel



节约能源,衣服 床品清洗后只留 阳光的味道。

certain, lighting 智能安防系统 system 窗帘、

乐、上网 显示当前所处环 灯光系统 境的相关状态。 Pv sun-shading 光电遮阳

即开即热连续阴 雨雪天气照常使 用。



Dream Gate--Gate of China Solar Valley



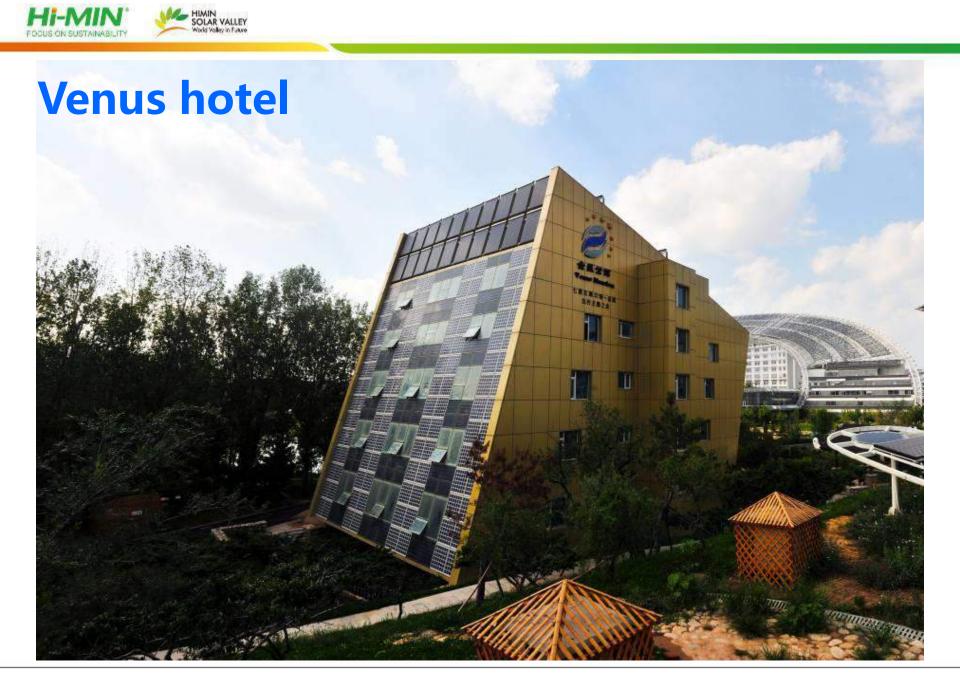


HIMIN SOLAR VALLEY World Valley in Future

Hi-N

















Neptune Villa





Douglas

Douglas, the famous America solar architect designer of the Douglas Villa

Jung an



1. UTLE (Ultra Low Emission) Solar vacuum

<u>tube</u>

>> Full automatic vacuum tube production line and advanced &

strict testing processing

>> Vacuum degree can reach to 5x10⁻⁴ Pa

>> The stagnation temperature higher than 270°C

>> Patent technology enable its working temperature from -40°C

to 40°C

>> 5 production lines guarantee production
capacity of100,000



Inner focusing film vacuum tube



2. Solar water heater—Never freeze in winter

- >> Inner tank material: SUS304 stainless steel ,0.5mm in thickness.
- >> Insulation material: polyurethane foaming.
- >> Outer tank material: plastic coated galvanized steel plate ,0.5mm in thickness.
- >> Frame material: plastic coated galvanized steel plate ,2.0mm in thickness.
- >> Vacuum tube material: borosilicate glass 3.3







3. Pressurized solar water heater



Split solar water heaters << Collectors: U-pipe/ heat pipe/ manifold <<Tubes: 1.8m, 2.1m (Upipe); 1.8m (heat pipe)

<<Capacity: 200L/300L



Flat panel Solar water

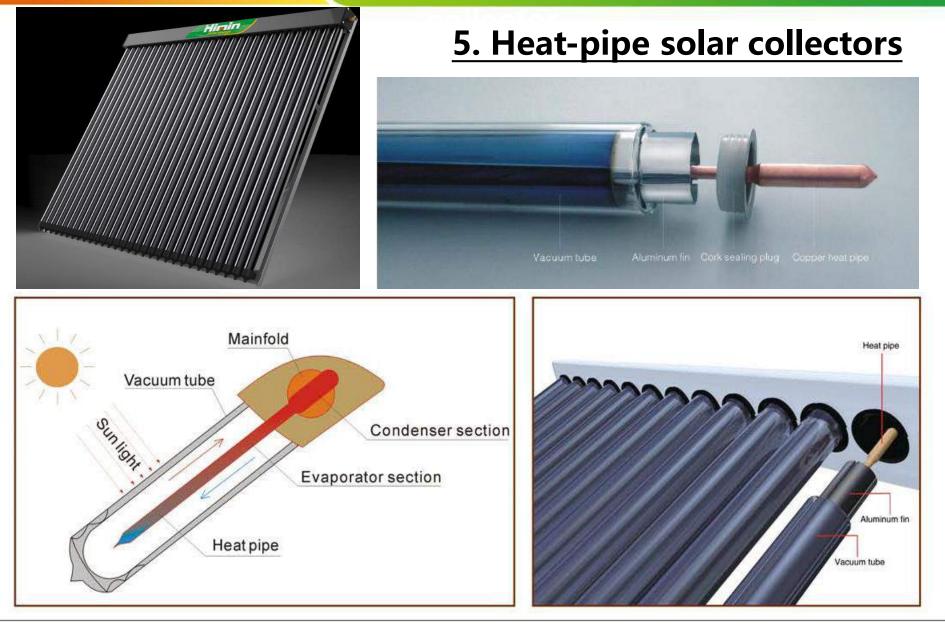
- **heater** pressurized operation
- enamel inner tank
- excellent anticorrosion performance
- anticorrosive protection of Magnesium
 rod
- □ blue film flat plate collector



4. U-pipe solar collectors









6. CPC solar collectors



The CPC collector is a medium temperature collector for industrial thermal field with temperature requirements between 80°C ~ 250°C. It is composed of vacuum tube, header module, frame and bracket. It USES solar heating medium and transmits heat to the system's hot water storage tank through circulation pipeline, thus obtaining hot water.



6. Solar hot water boiler

system

How to get cheap and green hot water problem in hospitals, schools and factories ?

Use Himin solar hot water system to replace the diesel, gas and carbon boilers, it will help to reduce energy consumption and increase benefits.

8-Non and 3-High of Hi

- 8-Non
- Non scald
- Non electric shock
- Non water leakage
- Non freezing
- Non assemble dangers
- Non corrosion
- Non excessive lead
- Non overheating

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<u>water boiler system:</u>

- 3-High
- Plenty hot water in winter
- Instant hot water
- Remote control data platform

Characteristics of Himin Solar Hot Water Boiler system

- 1. Hot water can be uniformly supplied to each place, with high intelligence and remote monitoring,
- 2. Constant pressure water supply, variable frequency, stable water outlet pressure,
- 3. Turn on the faucet and there's hot water coming out immediately,
- 4. Constant water temperature, anti-scald, anti-colds, to ensure that the elderly, children, infants bath water temperature is appropriate,
- 5. High health standards, prevention of Legionella

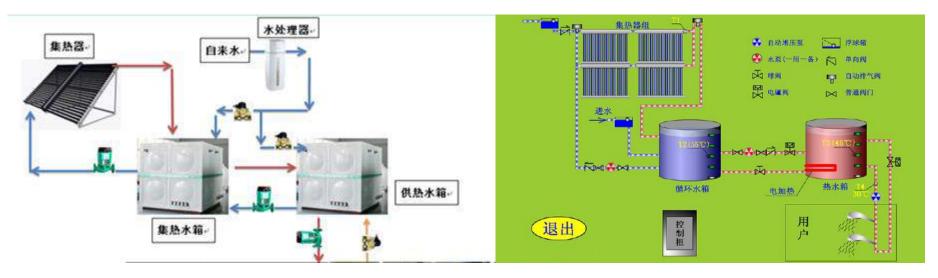
OLAR VALLEY

- 6. 24 hours hot water supply, Measurable water supply is available
- 7. Himin solar hot water system can provide hot water even in





Operation principle of solar hot water system



- Hot water collecting tank (high temperature) is connected to solar collector, The solar collector circulate and heat the water in the storage tank on sunny days, supply high-temperature water to the hot water supply tank (relative constant temperature) continuously.
- Hot water supply tank (relative constant temperature) could maintain the set temperature in 24 hours, so that hot water is available at any time.
- The water tank is equipped with auxiliary electric heating. When the weather of the cloudy and rainy days, the solar heating is insufficient, the electric heating starts the auxiliary heating, so that hot water supply is guaranteed at any time.



(1). Himin projects for

Stadium Chairman MAO Memorial Hall Solar hot water







2008 Beijing Olympic Game Shootin Gymnasium solar hot water projet



2008 Beijing Olympic Game Pentathlon Stadium solar hot water project







2008 Beijing Olympic Game Bicycle Stadium solar hot water project



Grenada National Stadium solar hot water project

Shanghai World Expo UK Pavilion solar PV and solar hot water project



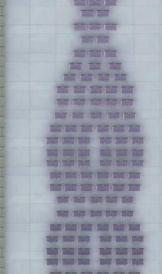
(2). Himin projects for factory





Coca Cola Wuhan factory solar hot water project

Coca Cola zhengzhou factory solar hot water project











Pepsi~Cola Harbin factory solar hot water project



Malaysia Mosit Chicken slaughterhouse solar hot water project

Water tank room of Pepsi~Cola Harbin factory solar hot water project





Shanghai baosteel group factory solar hot water project





Sinosteel group factory solar hot water project



Solar heating project for oil storage tank of Shengli oil-field





Morgan Mills Co. LTD factory solar hot water project



Beijing Yanshan Petrochemical factory solar hot water project



Siemens High Voltage Switchgear Co., Ltd factory solar hot water project



WILLEY (3). Himin projects for Government agencies and military





Xinjiang Foreign Trade Building solar hot water project



Publicity Department of the Communist Party of China solar hot water project Publicity Department of the Communist Party of China solar hot

water project





Solar hot water project for









National Security Department of Hebei Province solar hot water project



Solar hot water project for military



(4). Himin projects for

hotel XI an Huashan Hotel solar hot water



Inner Mongolia Lanbao Hotel solar hot water project

Solar hot water project for Yunlong hotel in Yunnan province



Solar hot water project for Lanzhou hotel in Lanzhou city

Solar hot water project for Lanzhou hotel in Lanzhou city (South building)











Solar hot water project for Wansheng hotel in Gansu province





Solar hot water project for Hyatt hotel (5-stars) in Guiyang city

Solar hot water project for Ningwo hotel (5-stars) in Gansu province











Solar hot water project for Tianxiyuanyi hotel in Xichang city

Solar hot water project for Lidu holiday hotel (4-stars) in Linyi city

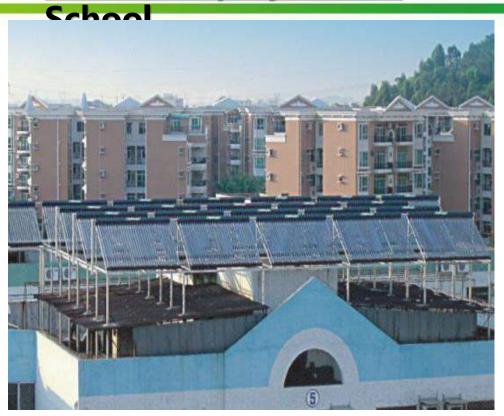


(5). Himin projects for



Solar hot water project for Xiamen national accounting





Solar hot water project for Biguiyuan school in Guangdong

Solar hot water project for Jiangmen middle school





Solar hot water project for Quzhou middle school in





Solar hot water project for Bazhou Special-education schools, Xinjiang

Solar hot water project for Shandong Jiaotong University





Solar hot water project for Xuzhou middle school in Jiangsu



Solar hot water project for Nanjing Foreign Languages University

Solar hot water project for Lanzhou Petrochemical Kindergarten





Solar hot water project for Dalian University of Technology





Solar hot water project for Himin solar technology university, Dezhou city







Solar hot water project for Binzhou medical university



Solar hot water project for Binzhou medical university (Yantai school)



(6). Himin projects for

Hospital

Solar hot water project for Xiamen hospital





Solar hot water project for Malaysia hospital (Ministry of Health, Malaysia)









(7). Himin projects for Swimming



Solar hot water project for China park swimming pool, Shanhai city







Solar hot water project for Huairou swimming pool, Beijing city



(8). Himin projects for Public





Solar hot water project for public bathroom in villages



(9). Himin projects for Public



Solar hot water project for public bathroom in villages





(10). Himin projects for tourist



Solar hot water project for Shanghai Chongming island wetland park



Solar hot water project for Heyang wetland Park, Weinan city, Shanxi province

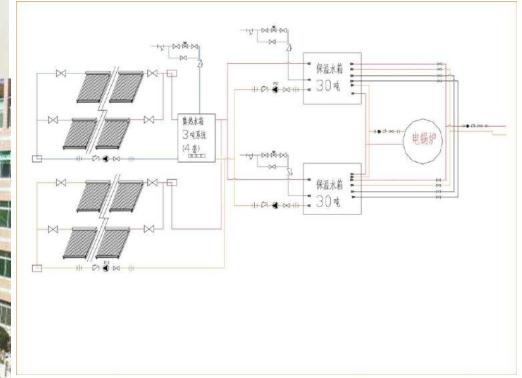
Solar hot water project for Mengshan Forest Park, Linyi



(11). Himin projects for room



Solar room heating project for Radio Authority, Lasa, Tibet





(12). Himin projects for drying





Solar drying project for Qingdao Tiandihui food factory



Solar drying project for Sludge disposal project of Jinan Government

Solar desulphurizer drying project for Jiangsu Hengsheng new material company



EXAMPLEY (13). Himin projects for Real estate community and





Solar hot water project for Fuyang yalin apartment in Zhejiang province

Solar hot water project for Shenhua group real estate high building





Solar hot water project for Licai yihe real estate project, Xianyang city







Solar hot water project for Huaming Town government,

Solar hot water project for Jinboyuan community in Yunnan province



Solar hot water project for Chunjianghuayue community, Xinyu city, Jiangxi province





Balcony split solar hot water project for Beijing Fifth Design Institute





Balcony split solar hot water project for Hefei Minghang family community

Balcony split solar hot water project for Qingdao Yixinyuan community



Balcony split solar hot water project for Changsha Hanlinyuan community

















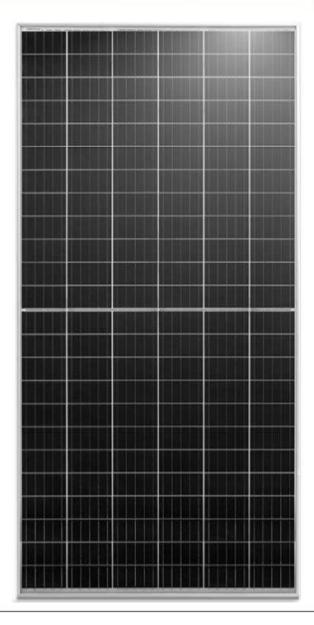












- Model: Monocrystalline/Polycrystalline
- Type: Full cells and half cells
- Power: 10W-590W
- Linear Performance Warranty
- 12-year Product Warranty
- 25-year Linear Power Warranty
- Approvals and certificates: TUV: IEC61215_IEC 61730





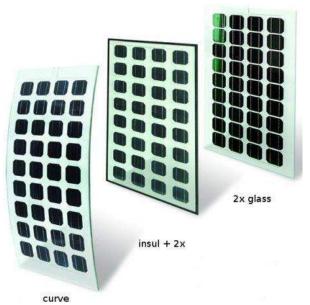
Himin Solar Module--Black Module



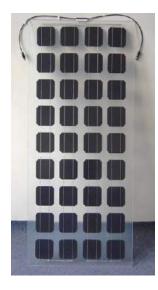


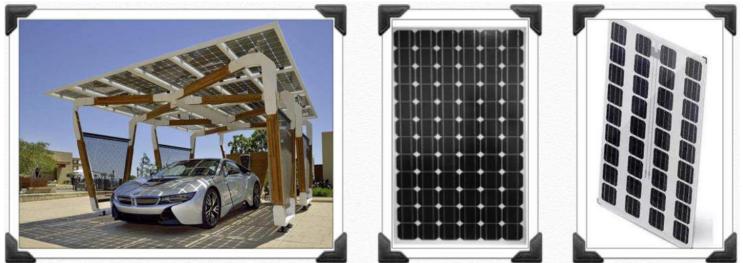
Himin BIPV Solar Module

Transparent Solar Module











Certificates for Himin solar modules





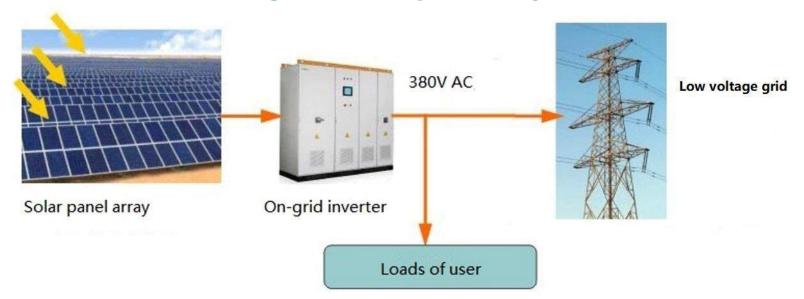






2. Himin Solar Power system

(1). On-grid solar power system







Solar power system for hospitals, schools and factories

- On-grid solar power system: Green energy, Environmental protection, Energy saving, Zero pollution,
- Micro-grid solar power system: Save energy+ Emergency standby power supply

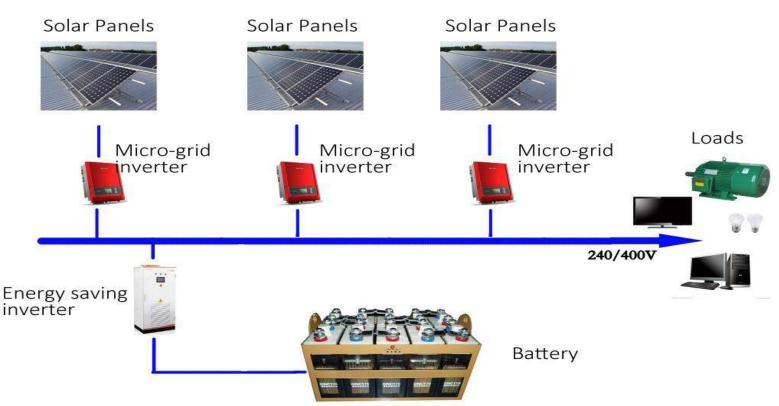


Operational principle

- **principle** • The on-grid solar power system will connect to the utility.
- At day time, the DC electricity that generated by solar panels will be combined by combiner box and send to inverter, the inverter will output AC electricity and supply green energy to the loads.
- At night, the solar power system will automatic stop work and the load will be powered by electricity from utility grid.
- The electricity generated by solar power system will make sure the using of users first, If there's any remaining power, you can sell it to the grid for revenue.
- In this way, the on-grid solar power system could help users save electricity cost and get benefit.

(2). Micro-grid solar power system

SOLAR VALLEY

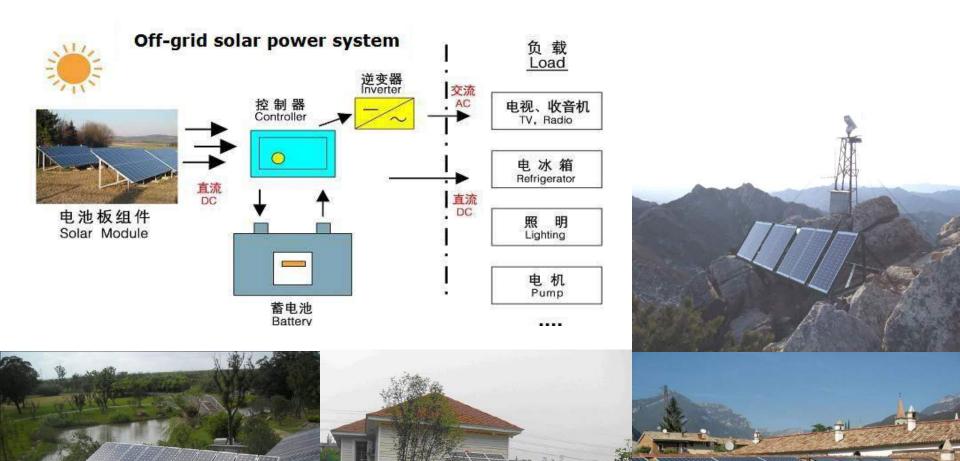


The Micro-grid solar system consists of solar panels, on-grid inverters, energy storage converters, intelligent control cabinets, batteries, and so on. Solar panels convert solar energy into electrical energy under light, supplying power to the loads through inverter and charging the battery through energy storage converter;

At night or when the electric power failed, the battery will supply power to the load through a bi-directional converter.



(3). Off-grid solar power system





Himin solar PV

projects

520KW-Maribor, Slovenia





85KW-Marche, Italy







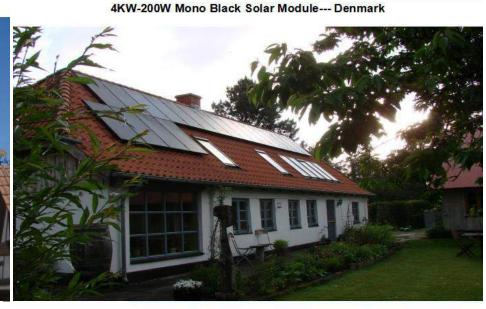
28.8KW – Garmisch-Partenkirchen Germany

40.5KW -Friedrichshafen Germany





14.1KW –Germany



Jinan Yaoqiang International Airport



6KW-200W Mono Black Solar Module--- Denmark

111/03/29

19





2MW-China Solar Valley, Dezhou City

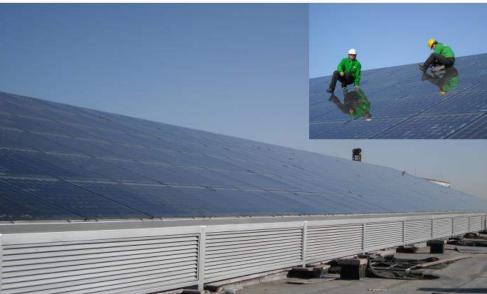
200KW-VALENCIA-SPAIN



25KW-Singapore



150KW BIPV – Beijing China





Solar car shadow



On-grid solar power system+ Car shadow

Make full use of the hospitals, schools and factories site to achieve multiple purposes



Solar project with BIPV solar panels--Solar roof for sunny room





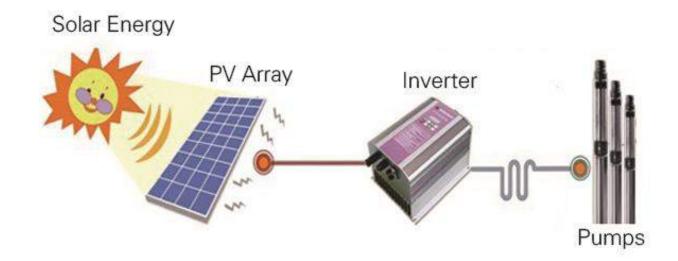


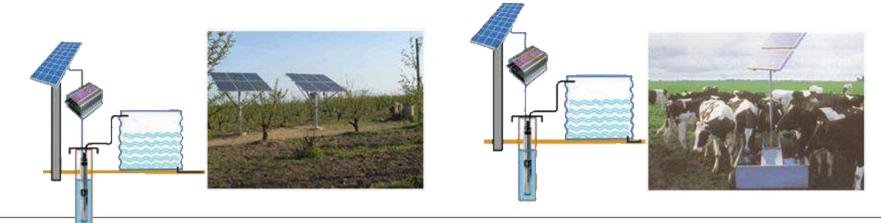


The sunny room use translucent solar panels as its roof, so that the sunlight can shine directly through the roof into the room, people could enjoy sunlight in the room.

At the same time, solar panels of the roof can generate electricity for use in the hospitals, schools and factories















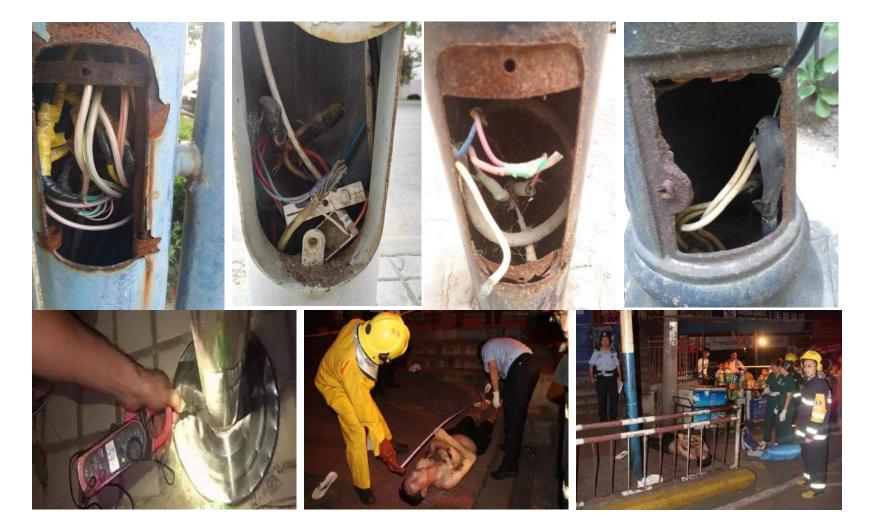




Potential security hazards of street lights at present

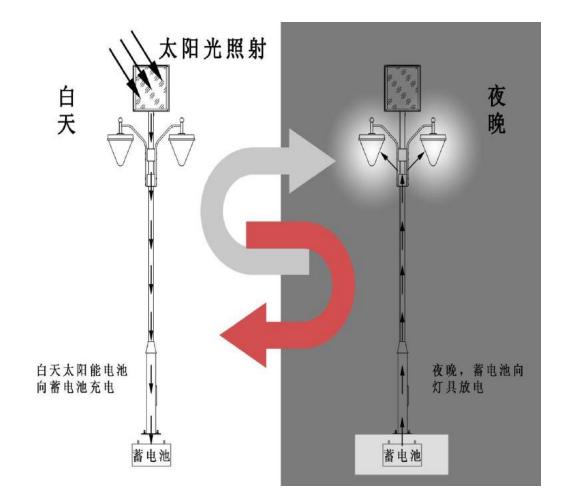
- In rainy season, the climate is humid, traditional electric street lamps are in hot and humid environment for a long time. They are easy to fall off the paint layer, corrosion and fracture, even leakage of electricity, and so on.
- 2. Even if solar streetlights are used, If the quality of solar street lamps is not up to standard, any small problem can cause the whole lamp not to work properly or even scrap. For example: light pole corrosion, lamp poor quality, controller failure, battery short life, Solar panels damaged by moisture, etc.





Potential security hazards of street lights at present

Why Himin solar street light



OLAR VALLEY

• Safety: absolutely no electric shock, fire and other accidents; the voltage of solar light are 12V-24V, which is lower than the human safety voltage 36V, very safe.

- Energy Saving: inexhaustible Solar Energy.
- Environmental protection: no pollution, no noise, no radiation.
- Convenience: simple installation, no need to set up lines, and no worry of power cut-off.
- High grade: science and technology products, green energy, hospitals, schools and factories image will be improved.
- Less investment: one-time

the second law a dama second



Features of Himin solar liahts

3-advantages:

- High stability,
- high efficiency
- high durability

5-preventative measures:

- Anti-corrosion of light post
- Anti-moisture and premature Anti-interference up to 3000V, thereby guaranteeing performance is reliable
- power attenuation of solar panel
- **Anti-malfunction of** controller
- **Anti-short battery life**
- Anti-poor quality of lamp

Anti-moisture and premature power attenuation of solar panel

By using high quality crystalline silicon solar panels, a lifetime of more than 25 years is ensured

The efficiency of solar panel is more than 16 %, and the power attenuation is less than 20 % over 25 years. Refuses poor quality lights holder

The protection class of light holder can reach IP65, strict detection, professional waterproofing, and original security anti-theft system;

High efficiency and energy saving LED lights were selected due to the fact that it uses 60% less electricity compared to conventional lights. The efficiency of the product is the highest with a low power light source, with a possible life span of 100,000 hours.

Anti – light pole's corrosior

High quality structural steel, with accurate calculation of light-pole strength according to 50 years wind force

The light-pole is treated by hot dip galvanizing, and plastic powder spray, using imported anticorrosive plastic powder. This guarantees strong adhesion and no discoloration

Anti - electric control failure

Includes float charging function, enhancing the charging efficiency of the system

Intelligent charging function increases the charging voltage regularly, thereby prolonging the battery life. Anti - short battery life

The special solar energy storage battery has a strong recharging performance, even after long usages, even without immediate or timely charging; the capacity can be fully recharged.

The battery is designed with thick plates to enhance corrosion resistance and greatly improve the lifespan of the battery;

HZL-43

The original secondary activation technology prolongs the battery life to the maximum extent



- The anti-wind design of street lamp is up to 12 grade, the surface treatment adopts hot-dip galvanizing and spraying plastic, the life of lamp pole is up to 20 years ;
- Intelligent charge-discharge control system
- Unique waterproof fight the production grade of lamp could up to IP65, 12i-54
- Unique Waterproof and Theft-proof structure for Battery



Himin solar light projects



















2. Solar garden light





More designs are available, OEM is acceptable







Langfang sanitarium solar energy lighting



Xiamen Gulangyu solar energy lighting

Binzhou villa solar lighting







Changhe park solar lighting



Anqing Yangtze river bund park solar lighting

Anqing Yangtze river bund park solar lighting





- Solar lawn lamp is a green energy landscape lighting which integrates energy saving, environmental protection, lighting and beautification, it can be installed in the hospitals, schools and factories lawn and garden.
- The light source adopts LED, to realize circular discoloration,
- Automatic control, energy saving,
- Convenient installation and simple construction.



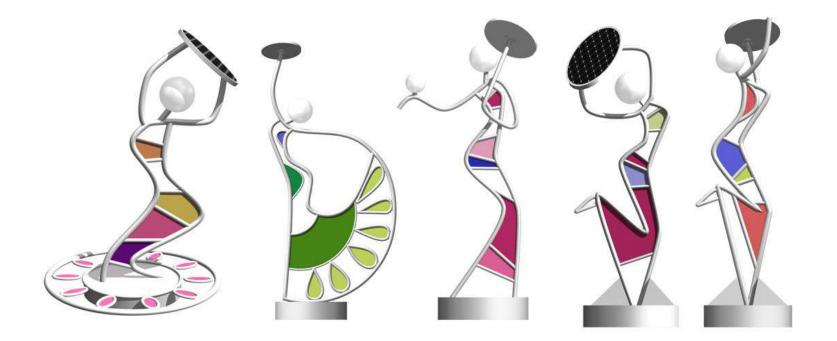








Solar dance lamp for lawn and garden brightening and beautification



- The shape of the solar dance lamp is integrated into the dance movement and has a strong sense of innovation and visual impact.
- Dynamic dance modeling combined with photovoltaic lighting technology, to achieve the perfect combination of technology and art. It is sculpture by day and light by night.



Solar insect killing

Solar insect killing light

Light control & rain control insecticidal light, with no need for manual duty.

Physical pest control, non-toxic and harmless, energy conservation, and environment protection with a long performance life







Solar high-pole light





Solar gifts





Gift for Children

Solar toys









Solar decorations







Solar

Camping

Even in cloudy days

Popcorn

&Nuts

dia

3 - 6 mins 8 - 15 mins

Soup

NA

20 mins~





BBQ

-

10 - 30 mins

Coffee&Tea

15 - 25 mins

T

San&Ham

5-20 mins







星期集团 全球鼓出

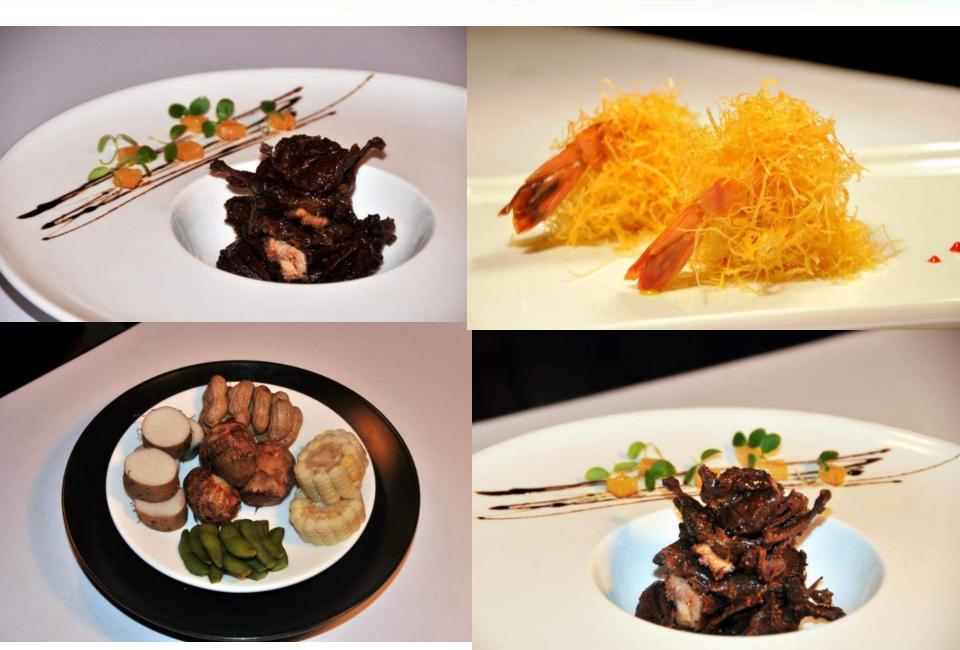








Solar food















Himin CSP

BERN XIER

71171



40**±**0.3m

m

2000±5m

m

2200±5m

m

Thickness

Length

0.6 0.5

0.4

0.3

0.2

0.1

0.0

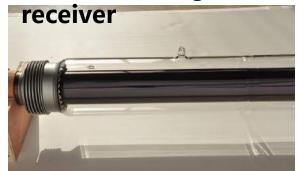
Reflexion

Himin coated steel tubes

Fresnel



Parabolic trough



Absorptio n	≥94% (AM1.5)	Receiver tube length(mm)	4060	Effective length for heat collection(mm)	>3860(room temperatur e)
Emission	≤8% (300°C)	Outer diameter of	70	Outer diameter of	120
Coating stability	At 350°C,performa nce degradation ≤2%	collector tube(mm)		glass tube(mm)	
		Vacuum degree(Pa)	<0.01	Glass tube transmittanc e(%)	95%(AM1. 5)
Himin, U α =95%, ε (300°C)=9% Himin, 183h, 300°C α =95%, ε (300°C)=7% Himin, 183h, 300°C, auf Fingerabdruck α =95%, ε (300°C)=8% Himin, 183h, 300°C, auf Fingerabdruck nach Reinigung mit Ethanol α =95%, ε (300°C)=7% 10		Emission	<12% (400°C)	Absorbtion	≥95%(AM1 .5)
		Operating temperature(°C)	400°C (oil medium) 500°C (molten salt medium)	Heat loss(w/m)	≤280

Wellenlänge µm



The Fresnel solar thermal power plant & the most advanced auto. vacuum tube production line



Himin coated steel tubes in PE1 solar thermal project







Project for SHP Australia







Thanks for your visit China solar valley!