



ENN SOLAR ENERGY
COMPREHENSIVE SOLAR SOLUTIONS FROM START TO FINISH

www.ennsolar.com

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ENN Solar Energy is a leading manufacturer of an array of innovative solar energy products and provider of comprehensive solar solutions. We are backed by the multibillion-dollar resources of ENN's integrated group of clean energy companies.

ENN Solar Energy has developed cutting-edge solar modules that maximize the potential of the sun and provide secure, stable power for decades. Our researchers continue to advance the efficiency of our solar products, while our engineers design practical new ways of putting them to use.

At ENN Solar Energy we not only manufacture solar power products, we also offer clients start-to-finish services. With our many worldwide partners, we are able to help your solar project through financing, engineering, installation and long-term maintenance.



POWERING A BETTER FUTURE

While the burning of fossil fuels has caused a global climate crisis, it has also become the mother of invention. Solar installations are already feeding utility grids and powering millions of homes and businesses worldwide. We are part of this revolution in new power and working toward the day when electricity is 100% green.

To get to a greener world, ENN Solar Energy is ready to back your solar projects with all its considerable resources and knowledge. We work with you before and after the 'on' switch is flipped, providing comprehensive solar solutions that are fully attuned to your needs.



OUR SOLAR SOLUTIONS

ENN Solar Energy is a leader in developing innovative solar technologies and services. From engineering and designing large-scale solar-powered generating plants to innovative methods of integrating solar power into building design to leading-edge specialty applications that are finding surprising new uses for solar energy, ENN Solar Energy continues to push the boundaries of solar energy.



Large-scale Solar Power Plants

The feasibility of large solar arrays to generate electricity for the masses is well proven. In projects in China and around the world ENN Solar Energy is helping lead the way.

- ENN Solar Energy's thin-film solar modules superior performance in low-irradiance and high-temperature conditions enable it to produce more kilowatt hours than comparable crystalline modules at the same rated power.
- Ultra large-size solar panels up to 5.7 square meters reduce installation costs and provide multiple, mechanical mounting options.
- 24-hour remote monitoring ensures total efficiency is achieved and maintained in every panel in a complex array of solar modules.



Photovoltaic Building Solutions

ENN Solar Energy's cost-effective, aesthetically pleasing solar panels can beautify a building and reduce its environmental impact. The Building Integrated Photovoltaic (BIPV) solutions are an architect's dream. ENN Solar Energy can customize the tint, size and shape of our solar panels to seamlessly incorporate them into a building's façade or create stylish power generating additions that can enhance traditional architectural design.

- ENN Solar Energy's customized solutions include panels that can be cut to size and adapted to a variety of installation method.

- ENN Solar Energy's BIPV modules are insulated, double-paned with transparent tints to match exterior windows, sun lights and awnings.

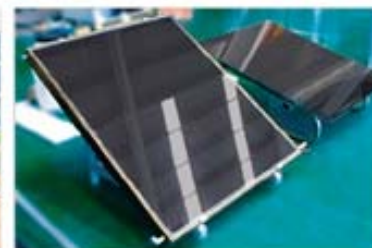
- ENN Solar Energy's BIPV modules meet the most stringent building codes and construction standards, and able to withstand the most severe weather conditions.



Specialty Applications

ENN Solar Energy's innovative thinkers have come up with surprising new ways of capturing the power of the sun. Bring your solar challenges to us and our engineers are sure to find an innovative solution.

We've worked on advanced hybrid photovoltaic/solar thermal power systems, saltwater desalination systems, solar charging station, and smaller, off-grid power plants.



OUR CORE PRODUCTS

Tandem Junction Si Thin-film Solar Modules

ENN Solar Energy's thin-film solar panels are produced at our state-of-the-art manufacturing facility in Langfang near Beijing. Our automated production process ensures each panel achieves the same high performance at the lowest possible cost. Our manufacturing process is also much more environmentally friendly and uses far less silicon than other modules.

Key Features

- Made of non-toxic materials while using only 1% of the silicon needed to produce crystalline modules.
- Available in four sizes up to 5.7m² to fit a wide range of uses.
- Power output rated at 480+watts.

Key Advantages

- Better high-temperature performance due to less negative temperature coefficient than crystalline modules.
- Superior power density and higher conversion efficiency.
- Greater low-light or diffused light performance than crystalline modules.
- Delivering 90%+ of the rated energy output over 10 years and 80%+ of the rated energy output over 25 years.

Building Integrated Photovoltaic (BIPV) Products

ENN Solar Energy's customized BIPV panels are produced to the same exacting standards as all our solar modules. They can be made to fit a surprisingly wide variety of applications to meet each customer's unique needs. They can be seamlessly and aesthetically integrated into a building's architecture to provide a safe, secure and efficient way of producing 100% green energy.

Key Features

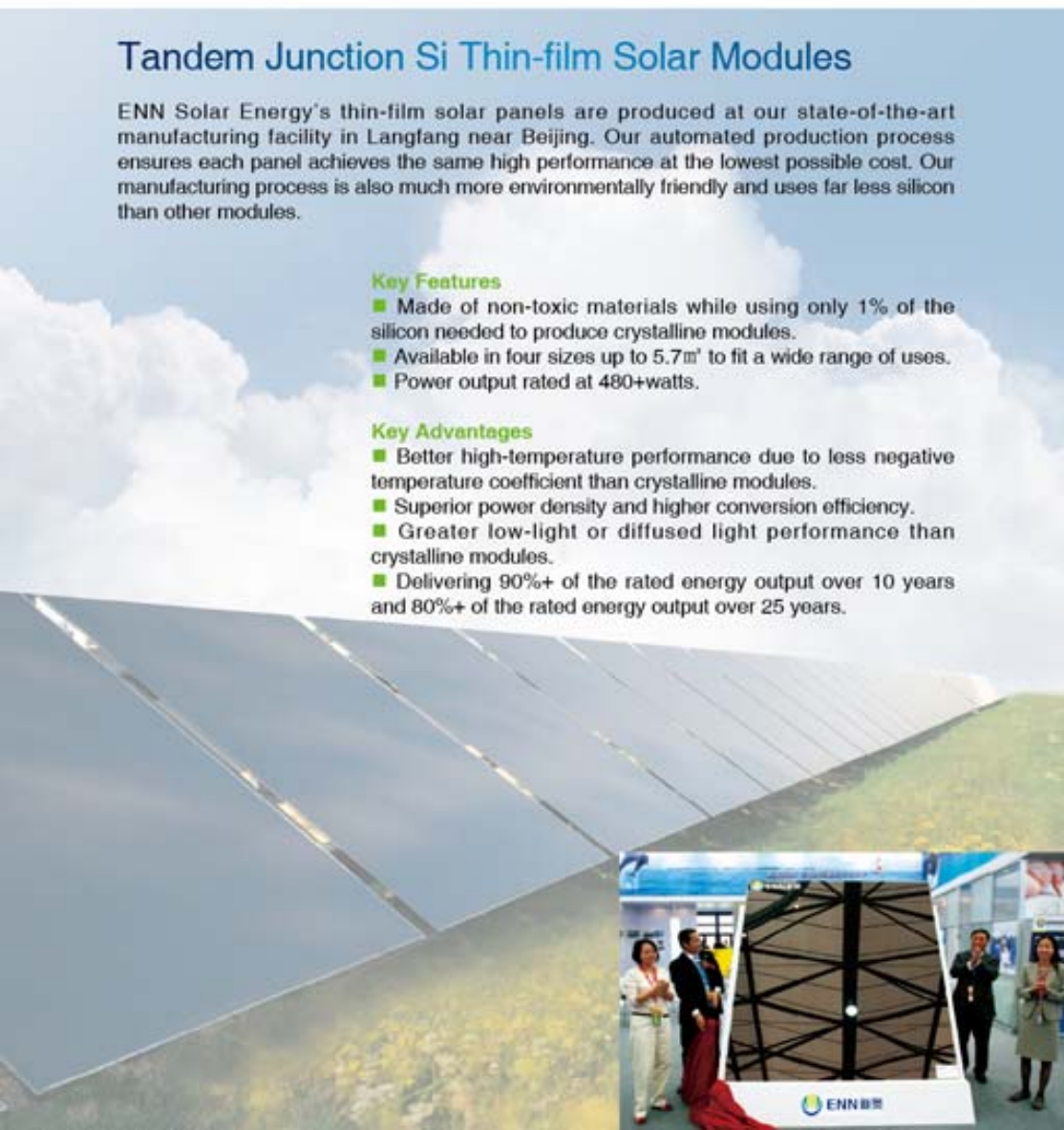
- Aesthetically pleasing, seamless exterior integration.
- Superior low-light performance and lower temperature coefficient.
- Strong, durable, warranted lifespan.
- Customized tint and sizes, semi-transparent, double-paned tempered glass for added strength.

Key Advantages

- Customized solar modules and BIPV solutions to meet each customer's unique needs.
- Comprehensive services include project consulting, system design, monitoring and maintenance.
- Versatility allows for easy installation on building façades, awning, windows, roof-tops, customized structures.

Our Commitment to Quality

Our highly professional team of engineers, technicians and designers ensure the highest quality in every product and service we offer. From our procurement of raw materials to our manufacturing process and product tracking, we meet the highest and most stringent standards. Our quality management systems have been recognized by industry organizations and certificate-granting agencies around the world.



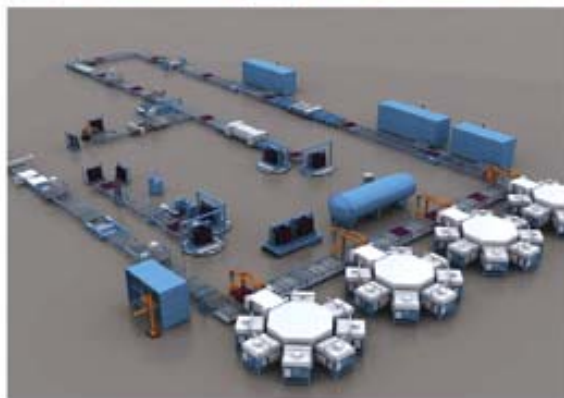
Talented Team

ENN Solar Energy's innovations in solar energy have been spearheaded by our talented team of scientists and engineers, many of whom have earned doctorates at world-leading universities. Our managers and technicians have extensive experience working with photovoltaic products, semiconducting devices, material sciences and thin-film technology. We are all dedicated to maximizing value for clients by producing top-notch solar products and integration services.



Leading-edge Technology

ENN Solar Energy operates the world's most advanced automated production line for the manufacture of silicon based thin-film photovoltaic solar modules. To maintain our panels' unmatched conversion efficiency, and to stay ahead of the technology curve, we have formed strategic partnerships with leading research institutions, including the Chinese Academy of Science, Tongji University, Stanford University and the National Renewable Energy Laboratory.



Global Presence

With offices in Europe, North America, Middle East, Africa and Asia we have deep knowledge of local market conditions, requirements and demands, enabling us to provide informed and responsive services to our clients.

Strategic Alliances

ENN Solar Energy is helping lead our parent company, ENN, in an ambitious international expansion. ENN's group of clean energy companies give us direct access to clean energy suppliers, engineering and logistics services and vast financial resources, allowing us to provide comprehensive, integrated solutions to all our clients.



OUR STRENGTHS



OUR PROJECTS



Germany Mastershausen and Neustadt Power Plants

- ▶ ENN Solar Energy is the sole provider of large solar modules for the 3.2MW ground-based Mastershausen PV plant, which began feeding the power grid in late 2010.
- ▶ At the 600KW Neustadt power plant ENN Solar installed and grid-connected more than 1,000 solar modules in just two months.
- ▶ ENN Solar Energy has been involved in these projects every step of the way. From assessment, design and approval, to financing, solar module manufacturing, construction engineering to the operation and maintenance of the plant.



OUR PROJECTS

United States Power Plant in New Jersey

- ▶ With an installed capacity of 5MW, phase one of this project will be one of the largest grid-connected plants using thin-film solar modules in USA.
- ▶ Sitting atop a New Jersey landfill site the project is a shining example of 'brownfield' reuse.
- ▶ ENN Solar Energy was able to overcome a variety of unique site challenges in the planning and design of the project.

Italy Rooftop Solar Plant

- ▶ ENN Solar Energy worked with UK partner Fonten Solar on this 10MW plus, grid-connected solar power project that will be situated on the roof tops of dozens of buildings in the Lazio and Umbria regions of Italy.
- ▶ By introducing an innovative business model ENN Solar Energy was able to ensure that all stakeholders, from investors, operators, contractors and end users benefited from this project.



OUR PROJECTS



OUR PROJECTS



China
Electricity Generation
System for Shanghai
Eco-home at World
Expo 2010 Shanghai.

► ENN Solar Energy designed and installed the PV rooftop and façade panels for the Shanghai Eco-home in the Urban Best Practices Area of World Expo 2010.

► ENN Solar Energy was the first to integrate high-efficiency, thin-film solar panels into the façade of a building, proving their feasibility.



China
PV systems at Tongji
University

► ENN Solar Energy's PV system installed at Tongji University's Science Tower and International Students Dormitory showcase PV green technology and architectural aesthetics.

► The Science Tower's PV roof, PV curtain and PV awning cover an area of more than 6,300m² with an installed capacity of 650KW.

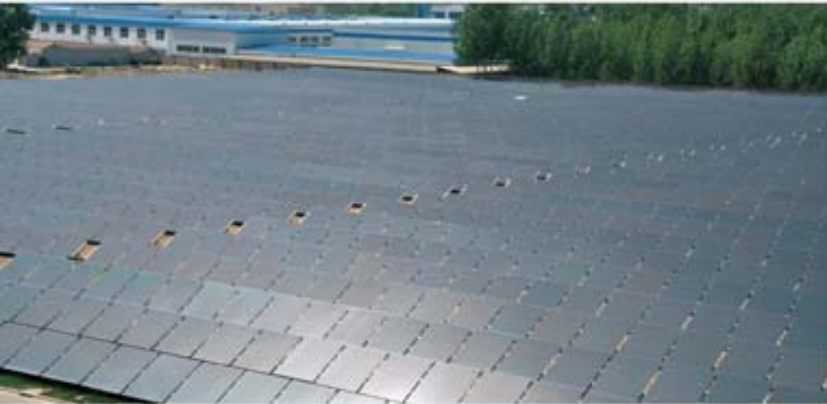
► At the International Students Dormitory PV panels provide power for corridor lighting. The panels were mounted between the window shutters to provide an esthetic cover for exterior air conditioning units.



OUR PROJECTS

China 1MW Power Plant in Langfang

- ▶ The 1MW plant located in Langfang generates 1500MWH of electricity annually.
- ▶ All the 5.7m² silicon-based thin-film solar modules were provided by ENN Solar Energy Energy.
- ▶ Designed and constructed by ENN Solar Energy, the plant demonstrates fire, lightning and corrosion resistance and provides an environmental friendly, economically viable source of energy.



OUR PROJECTS

China Rooftop Solar Plant in Gansu

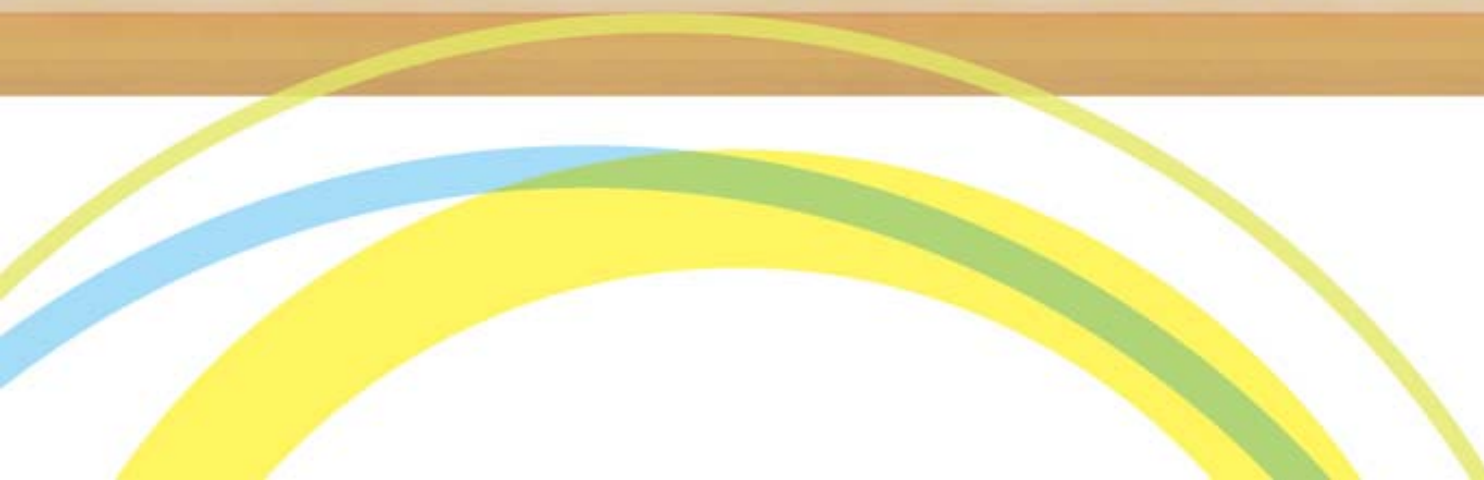
- ▶ ENN Solar Energy overcame difficult climate conditions in its collaborative project with the Changma Power Plant. Situated in the Yumen desert in Gansu Province, ENN Solar Energy's panels proved effective under high-temperature variations.
- ▶ This was the first project to integrate high-efficiency, silicon-based thin-film solar modules on a roof.



I believe, tomorrow
The sky can fly the kites,
Children can gambol in clean waves.
For everyday after tomorrow,
I'll be with you,
Take sincerity and kindness to treat everything.

Make good use of the existing energy,
And our ingenuities,
We are trying to take clean energies,
To enhance life quality,
And power our tomorrow.
Powering a better future.

POWERING A BETTER FUTURE





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