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INSTALLATION STEPS

- 1. Site Assessment/Order Placement**
- 2. System Design & Layout/Electrical Engineering**
- 3. Town Ordinances/Permitting/Grid Connection Approvals**
- 4. Infrastructure Construction**
- 5. Power Conditioning/Equipment Installation**
- 6. Panel Installation**
- 7. Power Electronics Connection/Interconnection**
- 8. Safety Inspection**
- 9. Preventative Maintenance Training**
- 10. Start Up**

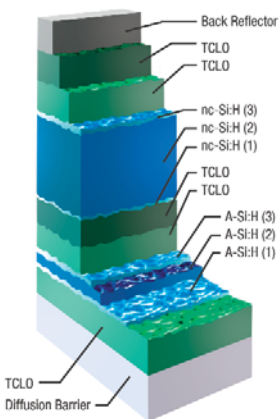
Changing the way the world looks at solar.



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Every day, in every corner of the planet, more and more people are embracing sustainable energy. Striving for carbon neutrality. Going green. In the midst of it all, the solar power industry is being revolutionized. Warner Energy has created today's most advanced, lowest-cost modules. And now we're making these modules available – along with our proven expertise – for use on solar farms. It's an idea whose time has come and it's the smart, rewarding way to answer the world's growing demand for sustainable power.

ANATOMY OF A BREAKTHROUGH: LIFTING THIN FILM TO A NEW LEVEL.



Thin film solar technology is the fastest growing segment of the solar energy market, and Warner Energy is at the forefront of this important trend. Thoroughly tested and perfected in the lab for more than a decade, our patented production methods have recently been hailed as a “breakthrough in the field”. What has the critics so impressed? Primarily, it's our lowest in-the-industry production cost. But we've also achieved new heights in reliability, low-light performance, and operating temperature range. The result is a thin

film solar module that finally delivers a viable alternative to traditional crystalline silicon technology.

The Warner Energy solar panels now represent the state of the art in photovoltaics. Using our proprietary thin film process, we've reduced raw material usage down to 1/300th of what's required for traditional solar cells. No need to use large amounts of expensive materials. No need for costly, time-consuming slicing of wafers. Clearly, the impact on production costs is staggering.

Advanced technology and processes allow for unprecedented throughput and further cost reductions. Plus, each Warner Energy module features a thin profile and light weight, simplifying installation and further reducing the final cost of the entire system.

WARNER ENERGY THIN FILM PANEL ADVANTAGES

- Lowest cost
- Excellent low light production
- Superior energy production in high temperature conditions
- No toxic or hazardous materials

OUR POLYCRYSTALLINE SOLAR MODULES ARE THE HIGH EFFICIENCY, LOW COST SOLUTION FOR COMMERCIAL SCALE PV SYSTEMS.

Warner Energy's experience developing thin film production lines informed our comprehensive review and evaluation of the crystalline market and helped us determine the ideal characteristics for a crystalline panel and a crystalline panel manufacturer. As a result of this review, Warner Energy has secured a proprietary line of high quality, low cost polycrystalline panels. These modules are produced using the latest equipment and processes, and our manufacturing partner has secured an exclusive supply of extremely high quality polycrystalline silicon.

The high efficiency of Warner's polycrystalline modules reduces balance-of-system costs: framing, installation labor, and maintenance. Warner's streamlined design and installation techniques make mounting simple and quick. Our polycrystalline panels are particularly well suited to sites with limited space and lower year round temperatures.

Warner's polycrystalline panels are the new standard for efficiency and affordability. The polycrystalline cells used in our modules pair the high efficiency of mono-crystalline modules with the cost effectiveness of polycrystalline cell generation. Our module assembly and superior quality control allow us to guarantee the performance of our panels for twenty five years and with a module capacity of 230W installation couldn't be simpler.

WARNER ENERGY POLYCRYSTALLINE PANEL ADVANTAGES

- High Efficiency
- Low Cost
- Lightweight
- Smaller Footprint

REAP A BOUNTIFUL HARVEST FROM YOUR SOLAR FARM.

On average, a 1MWp solar farm operating continuously with Warner Energy technology could provide all the power needed for 800 homes for a year. Demand for green power has never been higher. Certain utilities are required to purchase the electricity you generate in excess of your needs. Ideally suited for your company, organization, municipality or investment group, this could very well be the world's most lucrative farm.

More than 20,000 solar modules are required for a 1 MWp solar farm, and arranging them requires a very specific and thorough understanding. Our experienced engineers have unparalleled knowledge of solar farms in general, as well as the performance characteristics of the particular modules that will make up the farm. We'll design a site-specific layout to ensure optimal production in all environments and geographic conditions. As soon as site plans are submitted, we work quickly to get construction planning underway.

Your layout will most likely be very close to the standard Warner Energy solar farm design, which involves wiring individual modules into "strings" of 8 panels. These strings are typically wired together into micro-arrays (7 strings) and sub-arrays (10 micro arrays). This prepares the system to allow the modules to feed into the high voltage inverter system, which converts module energy into grid synchronous electricity.

WE'LL GET YOU GOING – IN ANY LOCATION, ANY ENVIRONMENT.

Testing and retesting is a way of life at Warner Energy. Not only do we test our panels to ensure reliable performance in real world conditions, but we also test a variety of mounting technologies to determine which options are best for a given site.

Warner Energy panels can be installed on any commercially available or custom mounting solution. Such flexibility allows panels to be used in even the most extreme conditions and locations.

Proper mounting is crucial to ensure optimum performance. That's why Warner Energy engineers will review the installation process in detail, to make sure that a precise plan is in place before installation begins.

For example, panels must be spaced to avoid any shadowing effect. They also need to be positioned at the proper angle to maximize the density of the solar energy striking the panel. These and other factors have been carefully studied, and the most productive methods are incorporated into each solar farm installation.

A PV SOLUTION TO FIT YOUR ENVIRONMENT.

Warner Energy can help you choose the right system for your site with simple, clear options and an expert design team to guide you through the process.

Our two distinct PV lines can accommodate any and all settings:

Warner Energy's Polycrystalline panels use top grade cells to deliver maximum energy on a minimal footprint. These modules are designed for a customer with limited space or anyone trying to get the most wattage out of a given surface. Warner Energy and its dedicated partners have also worked hard to reduce balance of system costs, keeping our polycrystalline systems cost effective even for very large commercial or open field installations.

Thin Film technology offers some unique and exciting advantages as well. The relatively low efficiency of thin film modules makes them impossible to install when a site has major space constraints, however, most commercial, industrial, and residential rooftops have plenty of space for a thin film installation. Thin film panels produce more energy in low light and high temperatures, yielding more kWh per kW than crystalline cells. The panels also cost significantly less, keeping total system cost extremely low.

CONVERT TO GRID-QUALITY, HIGH VOLTAGE POWER IN A SNAP.

Efficiently and reliably collecting energy is what Warner Energy panels do best...but it's not enough. To sell that energy to your local utility, you also need a smooth, easy process for converting it to an acceptable form. That's why we designed the solar farm power electronics to complement our optimized panels and create a seamless conversion solution.

The electricity generated by the individual panels is low voltage direct current. It must be converted to grid-quality, high voltage, alternating current. We've identified and selected the most reliable and effective equipment on the market to condition the energy generated and ensure that high quality electricity is delivered to the grid. At the same time, our power conditioning system also maximizes performance of the entire solar farm and minimizes downtime.

Using a series of inverters, the Warner Energy system converts current from the modules into grid-ready electricity. Through painstaking testing programs, we've determined exactly which inverters maximize performance of the Warner Energy panels. These inverters have state-of-the-art Maximum Power Point Tracking software (MPPT), that ensures peak performance of the entire solar farm throughout the day.

Proper loading from the inverters is absolutely critical to total solar farm energy production. Understanding this – with invaluable assistance from the Warner Energy team – makes all the difference in solar farm design.

A Warner Energy solar farm is unlike anything you've seen. The time for smart, sustainable energy is now, and the opportunity to benefit from this trend is right here for the taking. Warner Energy is changing the way the world looks at solar. To learn more, contact us today.