



DESIGN SYSTEMS, INC.

Specializing in Manufacturing Process Design & Integration

Photovoltaic Technology

PV technology converts sunlight directly into electricity throughout the day, allowing you to produce your own electricity with no noise, air pollution, or moving parts. The basic building block is the PV cell, which is connected to other cells to create larger units called modules. Typically, modules are attached as panels onto your existing roof or are designed directly into the roof so they act as both a part of the roof or shingles and a solar module at the same time.

A PV system includes a collection of PV modules that is usually connected to the utility grid. Systems must be connected to the utility grid to be eligible for the cash incentive offered by the resident state. The PV modules produce direct current (DC) electricity, which the system then converts to alternating current (AC) electricity so it can be used to power your lights, appliances, and other home electrical needs.

The applications of Solar Power Energy are extremely broad. The Solar Power Energy can be used at home, commercial, farms, schools, hospitals, general manufacturing industry, automotive industry, government buildings, sports events, etc.



Design Systems Photovoltaic Technology Services:

- Design a unique system to meet your performance requirements.
- Conduct site surveys and identify potential PV applications.
- Identify the basic configurations and components required for PV system installations.
- Obtain solar radiation data and apply this information in estimating the performance of PV systems.
- Identify electrical and mechanical design issues associated with PV system installations.
- Successfully and safely complete PV system installations.

"BOTTOM-LINE" RESULTS:

- Infinite Energy Resource
- Reduce Operating Expense
- Reduce dependency on a centrally controlled power grid and energy infrastructure
- Reduce Pollution

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