



Solar Power - Project Management, System Selection, Design and Installation

Soup-to-Nuts Project Support

RELIABLE POWER FOR GENERATIONS TO COME

Seventh Generation Systems Integration is a renewable energy engineering firm that partners with you to design and build integrated energy systems that work in concert with your aspirations, community, environment, and financial priorities.

With more than a decade of boots-on-the-ground experience in renewable and energy efficiency technologies, the staff at Seventh Generation tailors your solution to fit the needs of your project. Seventh Generation is a national leader in renewable energy system design and implementation. We have installed more than 1200 kW of small wind and solar capacity throughout Wisconsin and the U.S.



Our team of experienced professionals will guide your project to go from soup to nuts, from the first course to the last. We oversee each stage, from planning and design, through commissioning and maintenance, ensuring the smoothest process possible.

SOLAR POWER PROJECTS

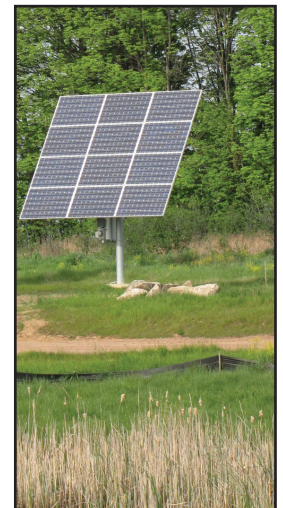
A solar project begins with an analysis of the local resource, electric usage, utility rate, and system siting. Systems are made up of racks of photovoltaic panels connected to an

inverter to shuttle electricity onto the grid. Each collection of panels, called an “array”, is mounted on a fixed-axis rack or on a rotating-axis “tracker” to follow the sun. Normally, the former is less costly, but the latter captures more of the sun’s energy. In addition trackers have moving parts, making them subject to more maintenance and repairs. The cost of the project and the power generated are determined by the system design.

The sun shines everywhere, so solar power can be captured in urban and rural areas equally. The primary factor in designing your solar energy system is maximum access to sunlight. Secondly, local electricity demands and system structure come into play. Wherever your location, solar power provides a multitude of benefits, from cleaner power generation and self-sufficiency to money in your pocket.

SOLAR POWER SERVICES

Seventh Generation is skilled in resource assessment and system design, backed by years of experience with clients from across the spectrum, from homes, farms and schools to communities, tribes, and developers. Our expertise provides the partnership you need for a successful project with decades of reliable energy production. SGSI will guide you through the project process, from soup to nuts. We offer services



Find your Solar window at PV Watts

<http://rredc.nrel.gov/solar/calculators/PVWATTS/version1/>

When you want to know how much electricity you can generate from the sun, there is a great tool available on the web to estimate your solar power potential.

Developed in conjunction with the National Renewable Energy Laboratory, the PV Watts calculator is the industry standard in estimating solar potential.

Whether you are a site assessor or a prospective system owner, you can use this calculator to:

- Understand the specific parameters around solar power generation
- Determine the system size requires for your site

at every step of the way, from development and design, to installation and commissioning. Call today to talk with our professional staff about any of our services:

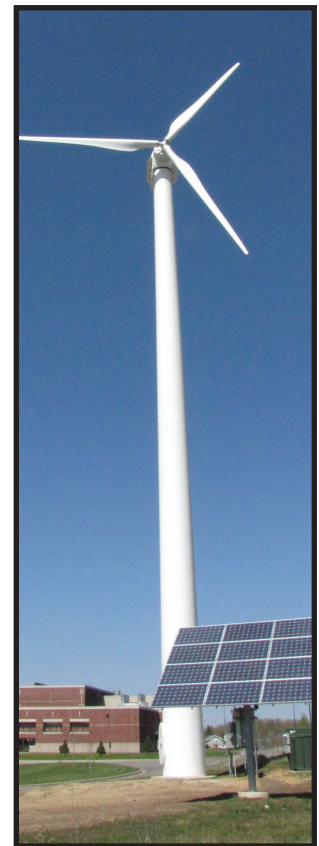
- Solar resource analysis
- Site assessment and system selection
- Financial analysis, incentives, tariffs and grant-writing
- Project permitting and zoning support
- Utility-interconnection and transmission access
- Equipment procurement
- Engineering and electrical design
- Installation, commissioning and maintenance

Seventh Generation maintains on-going relationships with manufacturers, solar power advocates, utility representatives, and financing agents, to support the growth of small and community solar power.

COMMUNITY INVESTMENT

We take our lead from what communities need. In today's world, many communities, farms, and businesses are looking for a solid investment that will help to carry the bottom line forward. With the rising costs of energy, solar power provides leverage against uncertainty. Once the system is installed and generating power, it's easy to predict the cost of your energy generated of site, for the life of the system, easily 25 years or more!

Small and Community solar power is set to be an integral part of tomorrow's energy future. Seventh Generation is at the leading edge of this technology, empowering you to develop locally owned on-site generation and stabilize your energy costs for the decades to come.



Click on **Calculate** if default values are acceptal after selecting your system specifications. Click **Help** for information about system specification use a DC to AC derate factor other than the defa click on **Derate Factor Help** for information.

Station Identification:

WBAN Number: 14920
City: La_Crosse
State: Wisconsin

PV System Specifications:

DC Rating (kW):
DC to AC Derate Factor: **DERATE FACTOR HELP**
Array Type:
Fixed Tilt or 1-Axis Tracking System:
Array Tilt (degrees): (Default = Latitude)
Array Azimuth (degrees): (Default = South)

Energy Data:

Cost of Electricity (cents/kWh):

Calculate

HELP

Reset Form