

GE  
Energy

## ■ Brilliance™ Solar Electric Power Systems

*Everything you need to generate your own electricity at home*



ecomagination™



imagination at work

## Brilliance™ Pre-packaged Systems



GE Energy offers a range of complete solar electric power systems. Along with ease of installation and service, our industry leading systems provide a safe and reliable source of renewable power. These pre-packaged systems are designed to supply years of maintenance-free operation. Each system comes complete with modules, power electronics, mounting kits, a power meter to monitor performance, and complete documentation for contractors and homeowners. Available with or without an Uninterruptible Power Supply (UPS), these pre-packaged systems make solar electric power affordable and simple.

### Brilliance™ Standard Systems

GE Energy's standard solar electric systems are designed to be compatible with a wide variety of roof types and materials. These systems feature solar modules integrated into arrays that can be sized to meet a wide range of power requirements. The systems are ideal for either new construction or retrofit applications and are quick and easy to install. GE Energy's solar electric systems include all the components necessary for a complete installation.



# Brilliance™ Roof Integrated Solar Electric Power Systems

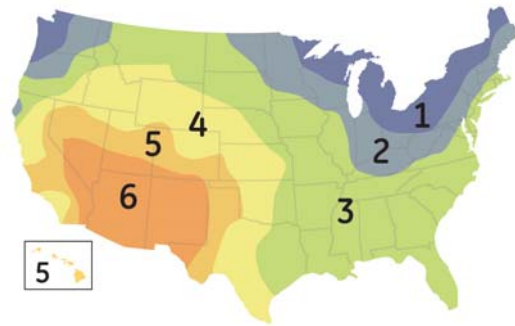
Generate solar electric power at home with roof-integrated solar systems by GE Energy. Roof-integrated solar systems are designed to seamlessly blend into the profile of a concrete roof tile, replacing the tiles and generating electricity in the process. This approach simplifies installation, reduces installation cost and enables the solar power array to integrate into the finished roof.

## How Solar Works

Every day, the sun shines onto the array of solar electric modules, and electricity is generated and delivered to meet the building's electrical load. In most cases, all of this power will be absorbed to serve the daily electrical requirements of the building. Excess power generated by the solar system can be fed to the local electric utility company and may be used to off-set the retail rate paid for electricity. Wherever a tiered rate or variable rate of electricity exists, this off-set can result in substantial savings in the cost of midday power.

## Output and System Specifications

Every GE Energy solar electric power system is engineered for maximum performance. System performance will vary according to geographic location, weather fluctuation, roof orientation, amount of direct sunlight, and other influencing factors. The following chart uses simulation calculations and optimal conditions to illustrate regional power output levels per kW of generation using GE's solar electric power systems.



1 kW (DC) GE Energy Solar System

Zone	Average Monthly kWh (AC) Production Range	Zone	Average Monthly kWh (AC) Production Range
1	80-90	4	115-125
2	90-100	5	125-135
3	105-115	6	135-145
Approximate Required Roof Space [ft²]		100	



## ■ Brilliance™ - The Solar Appliance

GE Energy makes solar simple with the Brilliance™ Solar Electric Systems – offered in sizes from 1 kW to > 10 kW. All systems include a GE Energy 25 Year Limited Power Production Warranty on the GE solar electric modules and a 10 Year limited Warranty on the Brilliance™ Solar Electric Grid-Tie Inverter – Standard.

Additional benefits include:

- Produce your own cleaner, quieter electricity
- Reduce or eliminate your electricity bills
- Guard against rising energy costs
- Add value to your home

## ■ Tax Credits/Incentives and Rebates

Credits, rebates and incentives vary in their availability and should be investigated thoroughly. The Brilliance™ system qualifies for the 2006 Federal Energy Bill tax credit and all related state and local utility rebate programs. A popular website that tracks regional and national programs is [www.dsireusa.org](http://www.dsireusa.org)\*.

\* This link is provided for convenience, and is not maintained by GE Energy. GE Energy is not responsible for the content of external web sites.

## ■ Local Decisions

Each installation needs to assess location-specific requirements. It is important to identify the following before getting started:

- Amount of open, clear roof or ground space with direct sun access
- Roof condition
- Local building and electrical code requirements
- Utility electric program, or rate structure
- Available federal, national or local credits, rebates and incentives

## ■ FAQ

Q. What size solar system (in kW) do I need to power my home?

A. To approximate the system size needed, multiply your average daily electrical demand (in kWh) by 0.25.

Q. Will a system produce enough energy to provide all of my electric needs?

A. GE's Brilliance™ solar electric power system can supply 100 percent of your energy needs, but cutting your electricity by 40 to 50 percent is typically the most cost-efficient approach for home solar power.

To learn more about GE Energy's Solar Products, contact your local GE representative at:

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