



Solar Panels



Overview

About Solar Panels

"A small solar electric or photovoltaic (PV) system can be a reliable and pollution-free producer of electricity for your home or office. And they're becoming more affordable all the time. Small PV systems also provide a cost-effective power supply in locations where it is expensive or impossible to send electricity through conventional power lines." - United States Department of Energy http://www.eere.energy.gov/consumer/your_home/electricity/index.cfm/mytopic=10710 12/26/07

Responsible energy use has become everyone's concern, but in today's environment, responsibility no longer means sacrifice. Today, "responsible" means "intelligent." With a variety of solutions that can be customized to each customer's needs, we provide systems that reduce emissions, decrease energy costs and increase reliability.

What kind of solar technologies are available to choose from?

We offer a variety of photovoltaic modules including standard monocrystalline, Thin Film and BIPV. The modules come in numerous sizes and different efficiencies. With your solar system you will need an inverter, charge controller and tracking system. Although this sounds complicated, you, your builder and the factory will work with an experienced Green Energy Consultant to design and install a system based on your specific needs.

How much is this going to cost?

It is difficult to provide a specific cost for solar panel electrical systems. Keep in mind that this is still an emerging technology and the systems are expensive. Systems are available in many sizes and features so your home will be designed according to your needs.



KEY BENEFITS

-  Reduce emissions
-  Decrease energy costs
-  Increase reliability

See your independent builder for pricing





How long does it take to recover cost?

Recovering your costs will vary depending on the energy costs in your state and any incentives that the state and federal government may offer for installing alternative energy systems. In addition to cost savings, consider the added value of your home when you install these systems.

What incentives are offered by the Federal and State governments?

The Federal government offers many incentives for different sectors including residential, commercial and industrial applications. At the state level the incentives vary from state to state. If a state is pro green energy then it is more likely that the incentives will be higher and more of them will be available. Check with your state government to see what incentives are applicable.

How long does it take to install?

For systems up to 4 kW in size, installation typically takes anywhere from 3-5 days. Installers will be working on your rooftop but do not require power to be shut off. For systems larger than 4 kW in size, installation typically takes anywhere from 5-10 days.

How does the installation affect my home?

Our solar systems will add value to your building. For every \$1000.00 of energy savings, the value of your property will increase by \$20,000.00. There are states that will give property tax incentives for installing a PV system. Similarly, PV modules can enhance the image of your home, or they can be installed to blend in with the surroundings.

Will power be cut off during the installation?

Almost all of the installation process can be completed without interfering with your electricity. The final phase of the installation will require a momentary shutoff of your grid power, which generally should not exceed a few minutes.

Who does the installation?

The installation will be provided by our trained and certified renewable energy specialists.

What is the warranty?

There are several types of warranties that come with the systems. These include product warranties covering defects by the manufacturer, system warranties covering the proper operation of equipment for a specific time period, and performance warranties ensuring the output efficiency of the system over its life.

What if I have a problem, who do I contact?

If you have any issues or concerns with any component of the system you can contact one of our Green Energy Consultants. They will be able to guide you through any difficulty that you may encounter.

How durable are the panels under extreme weather conditions?

The solar panels are designed to perform under rugged weather conditions. They can withstand class 4 hurricane winds and hail up to an inch in diameter.

*Photography is for illustration purposes only.
Actual product may vary from what is shown.
Product offerings are subject to change without notice.
Claims and specifications were provided by the product's
manufacturer. Contact your state and/or federal agen-
cies for tax incentives associated with these products.*

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Building Dreams to a **Greener Standard™**

Lighting that turns itself off.

Pass & Seymour



P&S Sensors reduce energy consumption — and add convenience.

When someone steps into a closet, pantry or storeroom, having the lights come on automatically adds safety and convenience. When lights aren't needed, having them turn off automatically saves energy and money. This energy saving convenience is especially helpful when there are small children in the home that often forget to turn lights off. With P&S Sensors, it's easy.

According to the Energy Information Administration of the U.S. Department of Energy (EIA), lighting accounts for 15.5 percent of all electricity consumed in the U.S. In the residential sector, lighting accounts for 9 percent of electricity consumption, in the industrial sector 7 percent, in the commercial sector 39 percent, and among "other" uses 5 percent (mostly street and highway lighting).

Passive Infrared Sensors

Using a patented fresnel lens which minimizes optical aberrations, each Pass & Seymour/Legrand PIR sensor breaks its coverage area into zones. Upon detecting an infrared energy change within a zone, one of the elements in the dual-element pyroelectric sensing device of an occupancy sensor generates a positive pulse. Within milliseconds, the other element produces a negative pulse and the lights are turned on. Vacancy sensors turn lights off when the room is vacant for a period of time, or when there is no infrared energy detected within a zone.

Passive infrared sensors are unable to detect occupancy around barriers, and are more effective when sensing movement across their field of sight rather than towards or away from it.



KEY BENEFITS

- Reduces energy consumption
- Attractive sensors blend well into the room
- Adds a measure of safety and convenience

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Monthly Savings*

\$164

(Approximate)

Payback Period is 2 yrs 10 Months at Today's Energy Prices*





Features

All Pass & Seymour/Legrand PIR occupancy sensors feature:

- Patented fresnel lenses with multi-segment design
- Dual-element pyroelectric sensors
- Low-profile design
- Daylight filter systems
- Adjustable settings for time and sensitivity
- Custom Detection Signature Analysis for high immunity to RFI and EMI, and reliability



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*Payback period is based on one, two bulb (60 watts each) fixture being automatically turned off for 8 hours per day where it may otherwise have been left on. Monthly savings are based on the upgrade cost of the occupancy sensor in a typical 30 year mortgage at 6%. Many factors will affect your actual savings. Use these figures only as a guide. An electric rate of \$.09/kw hour was used in both estimates.

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