



# Custom Power Solar

## Residential and Commercial Solar Power Systems For Plug-In Vehicles



**Custom Power Solar** specializes in solar power systems for plug-in electric and hybrid vehicles. We offer a range of products from smartphone chargers to on-grid and off-grid solar power systems with battery back-up. Never go without power again!

### **Solar Power Charging Electric Vehicles**

For every 15 mi per day of commute, add 1kw of solar power system to offset the power needed by your car. Most vehicles have similar power use per mile, but if you do a lot of hill climbing, you may need more. We can mount the solar modules on a carport over your car, or on your existing roof.

### **Solar Power with Battery Backup**

A battery backed-up solar power system uses a bank of batteries that stores power from your solar array. When the grid fails and when electric power is no longer being fed to your home or business, the batteries and solar array supply power. In the event of a power outage, battery power is restored by solar power each day. With careful management you can operate indefinitely off grid.

In the San Francisco Bay Area, we know another

large earthquake is inevitable - a battery backed-up solar power system gives you the peace of mind to know you will have power to run your home or business in the event of a power outage, whether just a simple line failure or as a result of a major earthquake.

### **Payback**

The payback time for a solar system can be as little as 3-5 years. At Custom Power Solar we use the latest technology to provide you with the lowest cost solar system to meet your needs.

### **Quiet and Instantaneous Power**

The battery backed-up system operates instantly & quietly - unlike generator systems which have to power up the generator to feed power.

### **Reduce your electric bill**

To reduce your electric bill on an annual basis to zero and have a typical 1-2 day backup battery system, a good rule of thumb is take your annual electric cost and multiply by 2.5-3 to get the watt size of the solar array. If you're adding a plug-in vehicle, add 1kw for every 15 miles of commute. For example, if your annual bill is \$3000, multiply by 2.5 to get a 7.5kw array. If you have a 30 mile round trip commute add another 2kw. The total is then 9.5kw.

# Residential and Commercial Solar Power Systems

## Cash Rebates

Cash rebates are available for a limited time on battery storage solar systems. Rebates range from \$15,000-\$30,000 for typical residential systems. With



25kwh Battery Bank



4kw Dual Inverter

these rebates a solar system with battery backup can be installed for the same cost as a solar-only system.

But the rebates are limited - first come, first served!

**Call now for a free estimate.**

## Sizing

Most residential systems have more than enough roof space to generate power to zero your electric bill. Modern technology has the capacity to deal with virtually any shading situation. Using Google

Maps we can take your address and look at the size of your roof space to find the best fit.

## Alternative Mounts

A driveway, garage, or parking area can be used for solar power. In agricultural areas unused farm land, barns, warehouses, and access corridors can also be used.

## Monitoring

You will have instant access to current production of your system through web access and see exactly how much your system is producing at any time.

## Plug-In Hybrids and Electric Vehicles

It's clear that the future of transportation is moving towards plug-in hybrids and all electric vehicles. A typical vehicle uses 0.25-0.35kwh per mile. At electric rates of \$0.11/kwh this is the rough equivalent of less than \$1/gal. Your solar system can reduce your home or business electricity bill to zero as well.

## The Value of Power

PG&E is currently switching all customers to Time of Use (TOU) metering. This means the rate charged typically gets MUCH higher during peak power periods, typically 12-6pm from late March to September. This rate can be 3-5 times the off-peak rate if you exceed baseline. Fortunately, this is the time solar power systems produce the greatest amount of power. In Northern California west-facing and even north-facing roof sections will provide valuable solar generated power.

## Lifetime

Solar modules are rated to degrade less than 10% over 20-25 years. In real life testing, they last much longer. There are systems over 40 years old with 80% of their original power. Expect to replace the batteries once every 10 years, and inverters every 10-15 years.

## Time to Install

A typical home system can be in place in as little as a month. PG&E and permitting procedures can add up to another month, depending on the area and workload.

**Power your car and home with solar power - Call now for a free estimate!**

1442A Walnut St. #368  
Berkeley, CA 94709  
[www.custompowersolar.com](http://www.custompowersolar.com)



Tel (510) 912-4662  
Made in the USA  
[info@custompowersolar.com](mailto:info@custompowersolar.com)