



Residential energy storage monrovia

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Energy storage (also known as battery back-up, a home battery, or a solar battery) gives you the ability to store energy produced by your solar system to use at a later time of your choosing. Solar energy storage has been around for decades. However, more and more recently it has become more available as a cost-effective measure for homeowners to decide how they will use their own power.

Adding a battery backup system to your existing or newly-installed PV solar panel system helps protect your home against power outages by providing energy to your home produced by your solar system to keep your lights on and your refrigerator running when the grid goes down.

A home battery can also be set to discharge daily when the sun goes down as a way to continue operating your house with self-produced electricity during the time of day when utility rates are high.

A home battery system allows you to set-up and adjust the delivery/discharge schedule to meet your changing needs, whether that's to prepare for an outage, take advantage of the arbitrage ability that comes with using stored energy during peak rate times, or perform full discharges as required by some rebate programs that make buying a home battery much more affordable.

Powerwall consists of a 14 kWh lithium-ion battery pack, liquid thermal control system, an integrated inverter and software that intelligently dispatches electricity to meet your needs.

HES Solar is a Tesla Powerwall Certified Installer, and an Enphase Encharge Certified Installer. This means we offer several customized solar-plus-battery solutions that allow you to access solar power and lower your reliance on fossil fuels and dependence on grid-provided electricity availability.

Any solar energy generated from your solar system and not being immediately consumed by your household is sent to your home battery or battery system to charge it. This happens when your solar panels are producing more energy than your house is using.

Without a battery, this energy would be sent back through the grid to the utility company and purchased by the utility. For the home with a battery, the excess energy charges the battery until it is full, and then additional energy is sent back through the grid to be purchased by the utility company. Most home batteries convert AC electricity into DC electricity for storage. When the stored energy is needed, the battery's inverter converts it back into AC electricity to be used by your home.

When your energy needs exceed the electricity produced by your solar panels your battery will discharge and power the home if programmed for that, or maintain its full charge and your home will be powered by the utility through the grid.



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HES Solar strives to provide Southern California homeowners with peace of mind knowing their solar panel system has the top combined product, power, and installation warranty. The warranties cover a durable and reliable solar system designed to give you more electricity and more energy in less space while maintaining the aesthetic appeal of your home.

The Tesla Powerwall is designed to qualify for the Federal Investment Tax Credit (ITC) when it is installed onto an existing or new solar system and is charged 100% with solar energy.

We are a San Diego-based, family-owned solar company. We have been an energy innovator since 2001 and can handle projects from small, rooftop solar panel additions to large-scale commercial microgrid systems.

Contact us for free full report

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