



# Solar panels and battery bank

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Battery storage for your home is a modern reality. Energy generated by solar panels can now be stored in a "rechargeable" battery fixed to a wall in or outside your home, and then used when the sun isn't shining.

Ultimately, a battery storage system in an energy-efficient home could remove the need for grid power altogether. In fact, AES Solar has installed solar-plus-battery-solutions for off-grid homes in locations where there is no mains electricity supply at all.

AES Solar is a Tesla Powerwall Certified Installer, which means we offer an advanced solar-plus-battery solution that enables you to store the abundant free power of the sun to vastly reduce your reliance on fossil fuels - potentially to zero!

At AES Solar, we ensure installing a Tesla Powerwall is straight-forward and stress-free, whether it's at the same time as your solar panels or as an add-on. We take care of everything from carrying out surveys, system design & quotation to installation and maintenance.

The SolarEdge Home Battery sets new standards for system efficiency, safety, and ease of use - making it an essential part of any SolarEdge residential installation. Their SolarEdge Energy Bank 10kWh battery is designed to easily connect with their award-winning inverters, delivering industry-leading efficiency to ensure power when and where it's needed most.

The Giv-Bat 9.5 is GivEnergy's bestselling battery pack and offers a very competitive cost/kWh. With its market-leading battery warranty, you can use your battery as much as you want for 10 years and still be covered.

The price of solar panels has been decreasing in recent decades, and they can now generate electricity at a lower cost than fossil fuel power stations. However, solar panels have technical limitations like any other generation system:

The technical limitations of solar PV systems can be eliminated by adding a battery bank. You can store electricity when your solar panels are productive and use it later: at night, on cloudy days, during blackouts, etc. Stand-alone solar panels cannot operate 24/7, but a charged solar battery can be used regardless of sunshine conditions.

For example, the Tesla Powerwall is a popular solar battery with a storage capacity of 13.5 kilowatt-hours (kWh). The official price published by the Tesla UK website is £6,000, and the installed price can range from £9,000 to £13,000.



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The payback period of a solar battery varies widely depending on your electric tariff and energy usage habits. However, there is also a non-financial reason to install a battery: having a backup power source that does not depend on fuel deliveries.

In many cases, a home battery can increase the savings achieved by a solar panel system. Even if a battery does not increase your savings by a significant amount, it can be used as a backup power source during blackouts. Here are some general scenarios where installing a solar battery makes sense from a technical or financial standpoint:

If your solar PV system generates more electricity than what your home needs, the difference is sent to the National Grid. The Smart Export Guarantee (SEG) scheme ensures you are paid for this excess energy, but most electric companies offer low tariffs. As a result, the kilowatt-hours (kWh) sent to the grid are much less valuable than the kWh you use directly.

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