# 170 kWh lg chemical energy storage

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As subject matter experts, we provide only objective information. We design every article to provide you with deeply-researched, factual, useful information so that you can make informed home electrification and financial decisions. We have:

Incorporated third-party data and information from primary sources, government agencies, educational institutions, peer-reviewed research, or well-researched nonprofit organizations.

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A qualified EnergySage-approved installer can give you the best information about the RESU and RESU Prime home battery system and other energy storage options available to homeowners today.

The LG Chem RESU and RESU Prime pair well with solar panel systems, especially if your utility has reduced or removed net metering, time-of-use rates, or demand charges. Installing a storage solution like the LG Chem RESU or RESU Prime with a solar energy system allows you to maintain a sustained power supply during the day or night as long as you store enough power from your panels when the sun is shining.

As with many other home battery products, these batteries are sized for day-to-day use at your home and are often paired with a home solar panel system. When your solar panels produce more electricity than you can use in your home, you can store the excess electricity in the battery system instead of sending it back into the grid. Later, when your panels aren"t producing enough electricity to meet your home"s needs, you can use the electricity stored in your battery instead of having to buy it from your utility company.

When you"re evaluating solar batteries, you"ll want to keep in mind various important metrics and technical specifications. Among the most important are the size of the battery (power and capacity), its chemistry, depth of discharge, and roundtrip efficiency.

Two of the most important metrics are power and usable capacity. Power (measured in kilowatts, or kW) determines the maximum amount of electricity that a battery can output at a single time, while usable capacity (measured in kilowatt-hours, or kWh) is a measure of the maximum amount of electricity from your battery on a full charge. The LG Chem RESU 10H boasts a maximum power rating of 5.0 kW to go along with 9.3 kWh

of usable capacity.

Think of your battery like water running through a pipe. Energy capacity is the amount of water available to push through the pipe, while power is the size of the pipe itself. Larger pipes allow more water to flow through at once, which depletes the water faster. Similarly, a battery with a high power rating can deliver more electricity at one time but will burn through its available energy capacity faster too.

A battery"s power determines what appliances you can run with at once, while usable capacity determines how long those appliances can be run. Batteries with a higher power rating are capable of powering more robust appliances or many appliances at once, while batteries with a higher usable capacity can store more total energy and thus can run your appliances for longer periods of time without needing to recharge.

The functionality of one solar battery next to another can vary; some batteries have excellent off-grid capabilities, while others offer software solutions for rate arbitrage. Here the important qualities of the LG Chem RESU:

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