

ESS

Energy Storage Systems

Battery Energy Storage Systems (ESS) are utility-scale reservoirs of energy. The most common ESS look like shipping containers and are filled with racks of lithium-ion batteries that store and transmit energy to the grid.

How Can ESS Help?



Consistency

Consumers need energy at different times of the day. When using ESS, energy providers can store energy to distribute later.



Emergency Backup

ESS can serve rapidly as a generator to keep the grid running or assist with getting it online faster in the case of a major outage.



Grid Services

ESS can provide voltage control, frequency regulation, and reserve capacity to the grid during critical energy need events.



Peak Shaving

ESS can lower energy costs by augmenting energy supply during peak demand times.





Community Benefits

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Local schools and government supported through taxes paid by Qcells.

Jobs

Created during construction and through the life of the project.

Stabilization

The grid power made energy more consistent and affordable.

Redundant Safety And Regulations

ESS is a safe and reliable system because of the rigorous industry standards, regulations, built-in safety mechanisms, and cooperation with local fire departments. There are several redundant safety features that provide both active and passive mechanisms to prevent and contain a potential fire.



Contained

Physical Containment

Physical containment of ESS by the metal containers that house equipment.



Automated

Fire Detection

Each battery has 24/7 automated fire detection and extinguishing capabilities built-in.



Controlled

Suppression Systems

Containers come equipped with cooling, ventilation, and fire suppression systems.

Qcells, headquartered in Irvine, California, offers the full spectrum of solar solutions – from the core technology of panels to utility-scale project development and investment. We bring a decade of global leadership in solar PV and energy storage to deliver utility-scale power generation plants customized for local regions. We partner with landowners, communities, and local officials to build the future of energy, together.

Ready to Ready to Discuss Your Property?

Connect with our Team:

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