

CESA

CALIFORNIA ENERGY STORAGE ALLIANCE

ABOUT CESA

California Energy Storage Alliance (CESA) is a 501c(6) membership-based advocacy group committed to advancing the role of energy storage in the electric power sector through policy development, education, outreach, and research. Our mission is to make energy storage a mainstream resource to advance a more affordable, efficient, reliable, safe, and sustainable electric power system. With over 100 members strong, CESA members include customer-focused residential, commercial, and industrial energy storage solution providers representing a wide variety of technologies, use cases, energy sizes, and durations.

BOARD OF DIRECTORS



GENERAL & START-UP MEMBERS

- | | | | |
|-------------------------------------|-------------------------------|-------------------------|-----------------------|
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ASSOCIATE MEMBERS



ENERGY STORAGE 101

The power grid is a complex system in which electricity supply and demand must always be equal, and frequent adjustments to the electricity supply must be made to meet different demand levels. In California, for example, demand changes occur daily between periods of high usage (evenings) and low usage (early mornings), as well as seasonally, such as when air conditioning usage spikes during hot summers. Energy storage can help address these fluctuations and create a more flexible and reliable grid system.

As California moves towards its SB 100 goal of achieving 100% GHG-free electricity by 2045, renewable energy sources such as wind and solar will play an increasingly important role in meeting the state's energy needs. However, these sources are intermittent and not capable of continuously generating power, particularly during periods of calm winds or when the sun sets. Energy storage systems can address this challenge by allowing renewable power to be captured when it is produced and dispatched later when it is needed, thus providing a reliable source of electricity. As a result, the deployment of energy storage will be crucial to the success of California's renewable energy transition.

ENERGY STORAGE PROVIDES INVALUABLE BENEFITS

GHG EMISSIONS REDUCTION

Energy storage reduces greenhouse gases (GHGs) by increasing efficiency of existing gas generation utilization.

RENEWABLE ENERGY INTEGRATION

Renewable energy resources such as wind and solar face intermittency challenges solved by energy storage.

INCREASED GRID RESILIENCY & ENERGY DIVERSITY

Energy storage improves grid reliability by providing multiple essential functions including preventing blackouts or islanding.

COST SAVINGS

End-customers can save money on their electric bills by using energy storage to avoid using energy when energy costs are the highest.

CUSTOMER CHOICE

California supports the customer's right to choose how their energy is provided.

GRID BENEFITS

Energy storage solutions can behave like traditional power plants and 'turn on' to provide energy to the grid (during periods of peak usage and high ramping).

PATHWAY FORWARD

CESA makes grid-connected energy storage a leading focus area for California and the U.S. west. CESA continues to work with California policymakers to expand their understanding of the tremendous role energy storage can play to optimize the electric power system.



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