



California Energy Storage System Survey

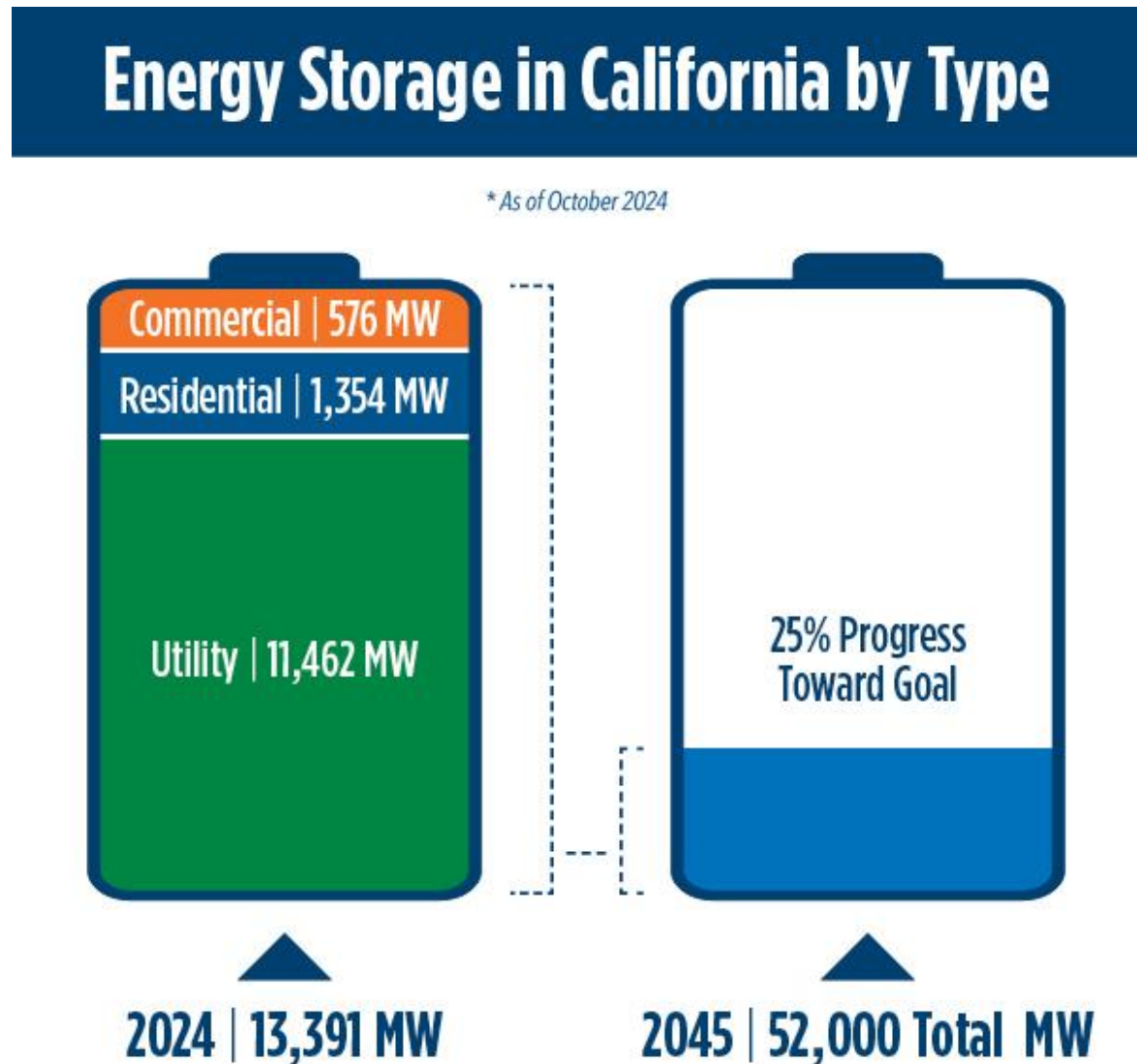
California is a world leader in energy storage with the largest fleet of batteries that store energy for the electricity grid. Energy storage is an important tool to support grid reliability and complement the state's abundant renewable energy resources. These technologies capture energy generated during non-peak times to be dispatched at the end of the day and into the evening as the sun sets and solar resources go offline, reducing dependence on fossil fuel generation to meet peak loads.

The Public Utilities Code defines an energy storage system as a commercially available technology that absorbs energy, storing it for a specified period, and then dispatches the energy. From 2018 to 2024, battery storage capacity

in California increased from 500 megawatts (MW) to more than 13,300 MW, with an additional 3,000 MW planned to come online by the end of 2024. The state projects 52,000 MW of battery storage will be needed by 2045.

This dashboard presents statewide data for residential, commercial and utility-scale installations as of September 11, 2024.

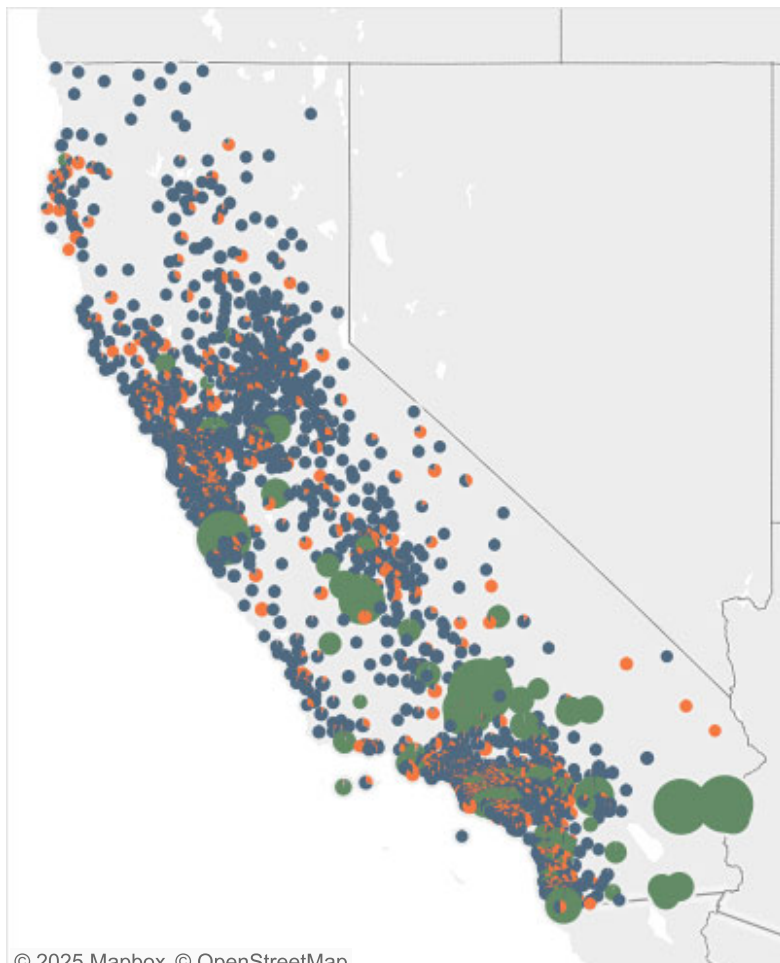
Dashboard is best viewed from a computer. Visit [Tableau](#) for the [full page layout of dashboard](#) or [download data](#).



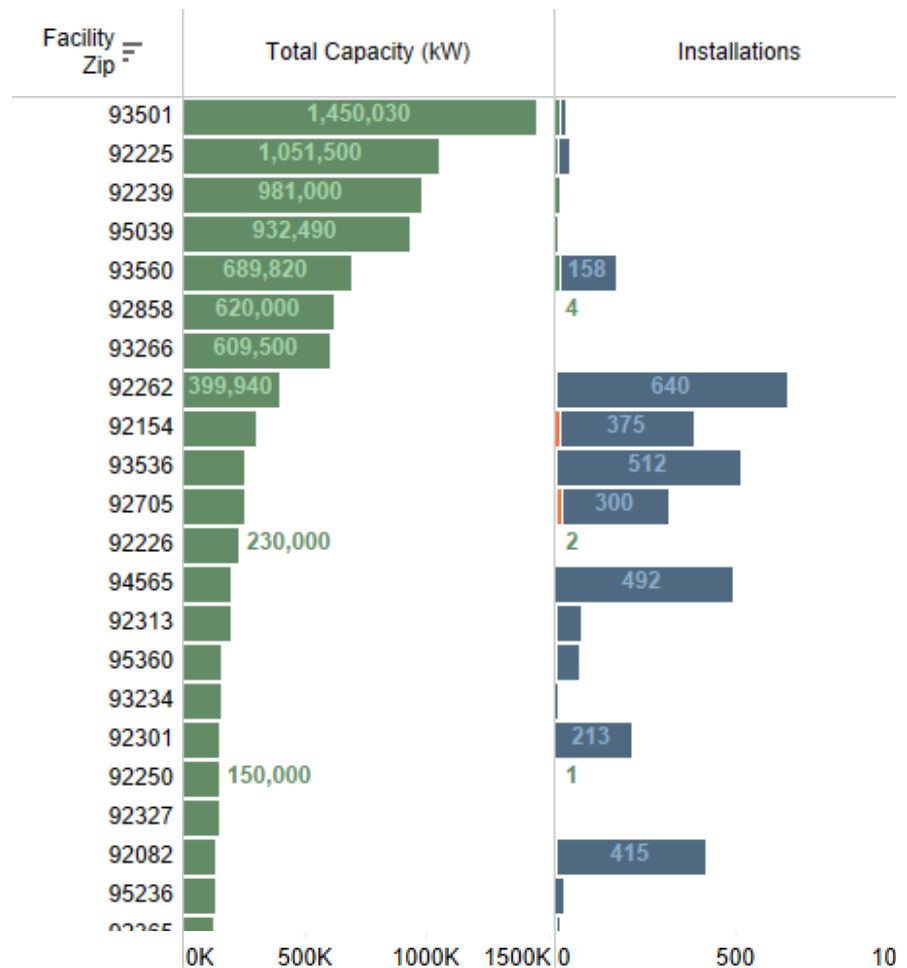
Statewide Energy Storage Capacity: 13,391 MW

Customer Sector	Total Capacity (..	Installations	Average Capacit..
Residential	1,354	193,070	7
Commercial	576	3,211	179
Utility	11,462	187	61,292
Total	13,391	196,468	68

Installed Storage Capacity by ZIP Code



Capacity and Installations



Expand All

Definitions of Terms

Additional Information about the Data

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