

Calistoga Resiliency Center

PROJECT SUMMARY

HYBRID ENERGY STORAGE TO SUPPORT INDEPENDENT COMMUNITY POWER

8.5 MW | 293 MWh

CONTINUOUS POWER | TOTAL ENERGY SUPPLY

The Calistoga Resiliency Center is a first-of-a-kind hybrid energy storage system coupling lithiumion batteries with hydrogen fuel cells. The system will provide 48 hours of continuous power to PG&E customers in downtown Calistoga and the surrounding area during a Public Safety Power Shutoffs (PSPS).

Developer	Energy Vault
Energy Storage Use Case	Public Safety Power Shutoff
Location	City of Calistoga, CA, USA
Technology	Lithium-ion Battery & Hydrogen Storage with Fuel Cell
Peak Power	8.5 MW
Duration	48 hours minimum; extensible via refueling

1900 Customers

Designed to provide resilient power to local customers and critical community infrastructure within PG&E's existing Calistoga microgrid during a PSPS.

100% RPS Compliant

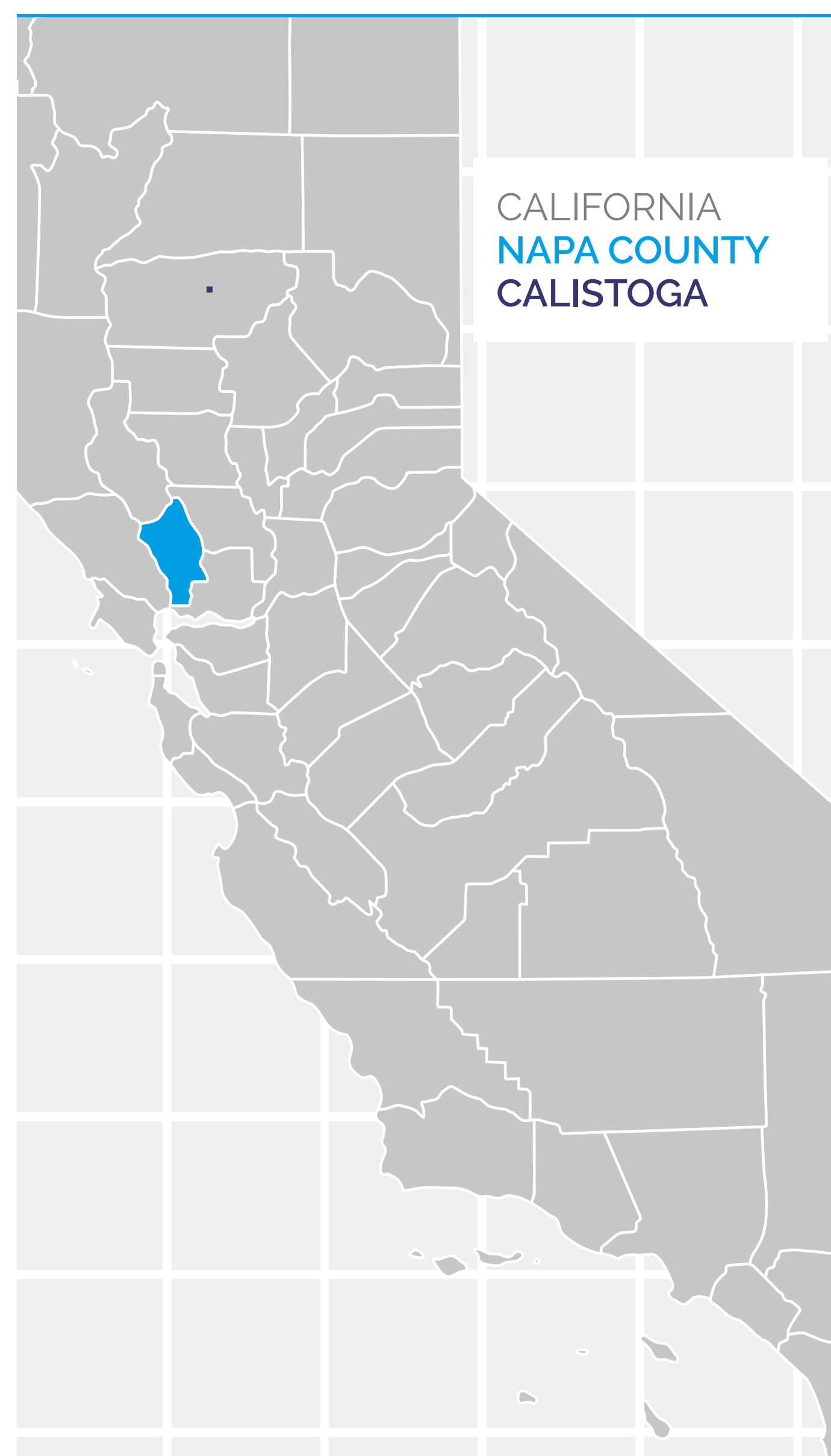
Fully aligned with California's Renewable Portfolio Standard (RPS), helping to further the state's decarbonization & sustainability goals.

30-50 Skilled Labor Jobs

Creates on-site construction jobs & associated economic benefits to the local community for the duration of project development.

Economic Value

\$30 Million Capital Investment | **\$2.5 Million** Tax Revenue to Local Government over 10 Years

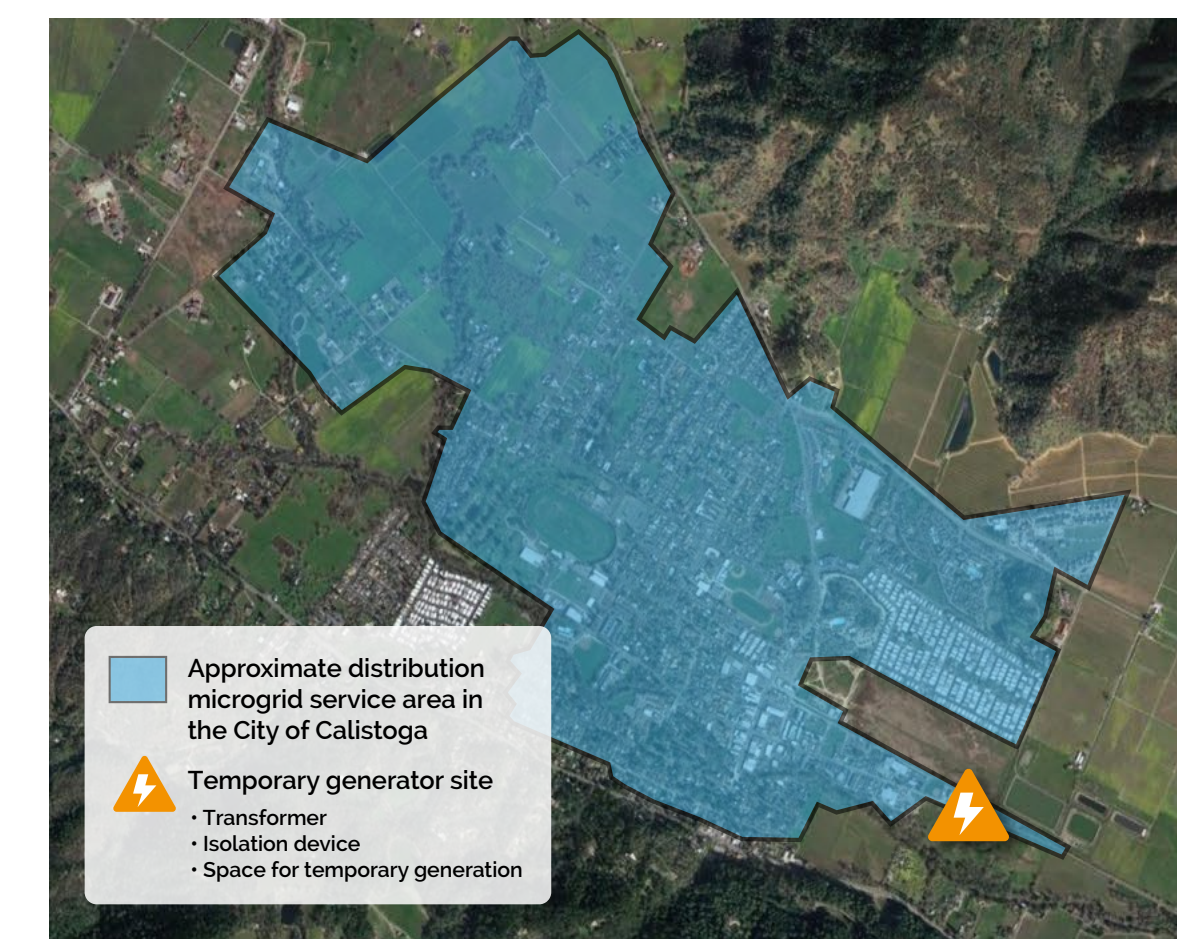


HOW ENERGY STORAGE SUPPORTS THE CALISTOGA DISTRIBUTION MICROGRID

Storage System to Reduce the Impact of Public Safety Power Shutoffs

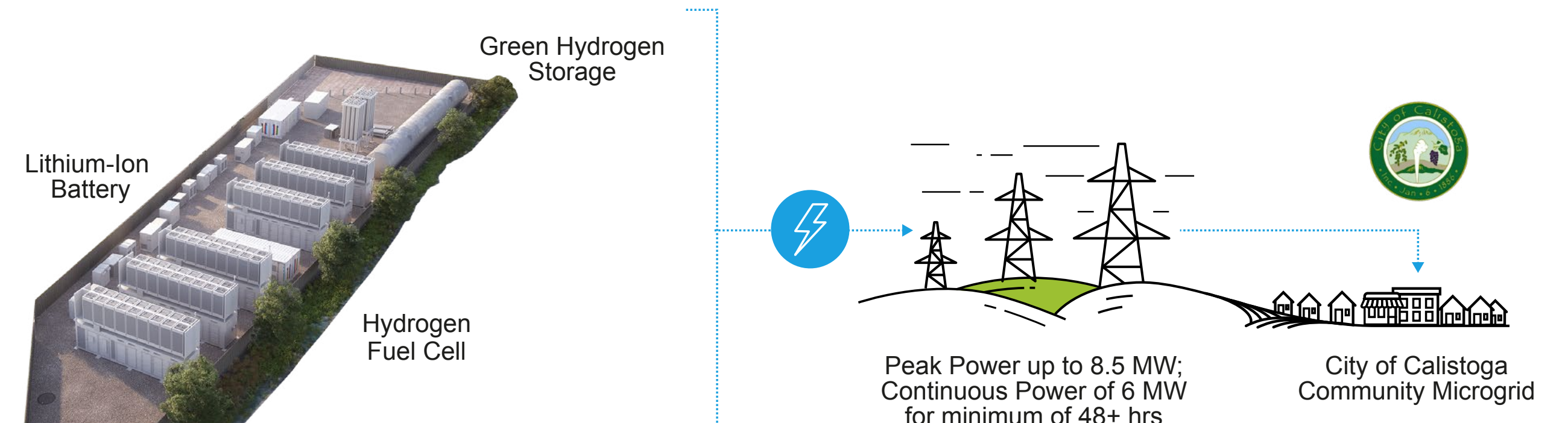
Public Safety Power Shutoffs (PSPS) are employed as a last resort during periods of severe weather and high wildfire risk. A microgrid was installed to provide reliable, local power during such PSPS events.

The Calistoga distribution microgrid was previously fueled by diesel generators. This first-of-a-kind, hybrid energy storage project replaces fossil fuel generation with hybrid hydrogen and lithium-ion battery technologies to provide 48hours of clean power to the entire system.



This map represents the approximate area of coverage that is served by the existing distribution microgrid for the town of Calistoga.

HOW HYDROGEN + BATTERY HYBRID STORAGE WORKS



ABOUT ENERGY VAULT

Energy Vault develops sustainable energy storage solutions designed to transform the world's approach to utility-scale energy storage.

The energy sector is undergoing a rapid transition from traditional generation to the intermittent production of renewable sources.

The security and reliability of this new energy system is strongly dependent on the ability to store and dispatch energy when and where it is needed.

Energy Vault strives to help power providers and large power consumers significantly reduce their cost of energy while maintaining power reliability.

WHY OUR ENERGY STORAGE

Provides **Grid Resiliency** by ensuring excess electricity is captured and ready to dispatch as needed, on-demand.

Promotes **Energy Decarbonization** by delivering the grid support urgently required to increase development of domestic renewable energy.

Integrates **System Safety** across all technology offerings and project site designs to ensure lifetime reliability and community security.

Develops **Economical Solutions** tailored to each project by offering a suite of storage technologies and hybrid products best suited to each use case.