



# Fluence Sunstack High Voltage Storage Revolutionizes Industrial Peak Shaving in California

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### Why California's Grid Demands Smart Energy Solutions

Imagine your factory's electricity bill behaving like a rollercoaster - that's exactly what happens without industrial peak shaving. In California, where PG&E charges up to \$18.06/kW for demand spikes, manufacturers are discovering Fluence Sunstack High Voltage Storage isn't just battery equipment - it's a financial bodyguard against utility rate surprises.

### The Anatomy of Peak Charges

- 15-minute demand windows determining 30 days of costs
- Summer vs. winter rate differentials exceeding 40%
- TOU (Time-of-Use) rates doubling during 4-9pm crunch

### Sunstack's Secret Sauce: More Than Megawatts

This isn't your grandma's lead-acid battery. The Fluence Sunstack system combines:

### Technical Marvels Under the Hood

- 1500VDC architecture cutting balance-of-system costs by 18%
- AI-driven predictive peak clipping algorithms
- Cybersecurity protocols meeting NERC CIP-014 standards

"Our energy bills did the impossible - decreased 23% despite production increases," reports a Central Valley food processor using Sunstack.

### Real-World Impact: Case Studies That Count

Let's crunch numbers from early adopters:

- Industry
- Storage Size
- Annual Savings

Winery (Napa)



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2MW/8MWh

\$412,000

Plastics (LA Basin)

4.5MW/18MWh

\$1.2M

## Beyond Dollars: Resilience Dividends

When wildfire-related outages hit Sonoma County, a Sunstack-equipped facility:

Maintained 73% operational capacity during 8-hour outage

Avoided \$280k in spoiled inventory

Qualified for \$150k SGIP (Self-Generation Incentive Program) rebate

## Navigating California's Regulatory Maze

Here's where most projects stumble - but not Sunstack users:

## Compliance Made Smarter

Automatic reporting for AB 2514 energy storage mandates

Seamless integration with CAISO's ELMP markets

Fire safety certifications exceeding Title 24 requirements

Think of it as having an energy lawyer, fire marshal, and grid operator all in one cabinet-sized package.

## The Future Is Modular (And Electrifying)

With California targeting 15GW of storage by 2035, Sunstack's stackable architecture allows:

Phased capacity expansion without downtime

Multi-use asset configuration (peak shaving + VPP participation)

Retrofit compatibility with existing solar+storage hybrids

## What Utilities Aren't Telling You



## **Fluence   Sunstack   High   Voltage   Storage Revolutionizes Industrial Peak Shaving in California**

Recent FERC Order 2222 changes enable something sneaky-smart - storage-as-transmission. Early adopters are already:

Collecting TAC (Transmission Access Charges) credits

Reducing standby generator maintenance by 65%

Participating in real-time wholesale arbitrage

Web: <https://munhlatechnologies.co.za>