

# Ivanpah power station energy storage



## Overview

---

The Ivanpah Solar Electric Generating System is a concentrated solar thermal plant located in the Mojave Desert at the base of Clark Mountain in California, across the state line from Primm, Nevada. It was slated to close in 2026, but that decision has been reversed by the California Public Utilities Commission. The facility derives its name from its proximity to Ivanpah, California, which lies within the United States. Location near Primm, Nevada, Status: Operational. Construction began in October 2009. Description: The Ivanpah system consists of three towers on 3,500 acres (1,400 ha) of land near the California–Nevada border in the Mojave Desert. Initially it was planned to be a natural gas-fired power plant. The plant burns natural gas each morning to commence operation. BrightSource reported, "Instead of ramping up the plant each day before sunrise by burning one hour's worth of natural gas to generate steam, Ivanpah will use solar energy to generate steam." BrightSource estimated that the Ivanpah facility would provide 1,000 jobs at the peak of construction, 86 permanent jobs, and total economic benefits of \$3 billion. Elected Supervisor Brad Mitzelfelt, with the support of the community, contracted power-delivery performance of 640 GWh/year from Units 1 and 3 and 336 GWh from Unit 2 was met by 2017, following sharply reduced production in the first few years of operation, particularly in the start-up.

## Ivanpah power station energy storage

---



### Why California is keeping this unusual solar plant running when both

Ivanpah has no on-site battery storage, which means it mainly makes power while the sun is shining, and it relies on natural gas to fire up its boilers each morning.

[Learn More](#)

---

### Ivanpah Solar Electric Generating System

The Ivanpah Solar Electric Generating System is a 386-megawatt project consisting of three solar concentrating thermal power plants located in the Mojave Desert in San Bernardino County. The ...



[Learn More](#)

---

#### HEAT DISSIPATION

Cold aisle containment,  
making optimal refrigeration effect:



### California regulators keep Ivanpah solar plant running despite

CSP has huge potential, particularly through integrated thermal energy storage, to make dispatchable solar power, although Ivanpah's lack of MWe-scale energy storage allows little focus

[Learn More](#)

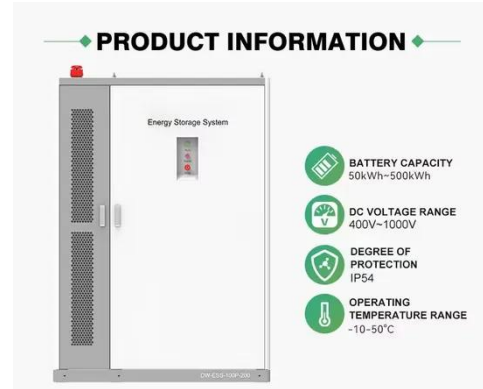
---

### Why the US's biggest solar

## megaproject is shutting down after a decade

One of Ivanpah's biggest structural weaknesses was its limited ability to store energy cleanly. When the sun set or clouds rolled in, the plant leaned on its gas backup rather than storing

[Learn More](#)



## Ivanpah Solar Plant Remains Open, Despite Costing Ratepayers Money

The Ivanpah Solar Power Facility was set to shut down in 2026 after failing to meet its energy targets. Despite receiving \$1.6 billion in federal loan guarantees, nearly 75% of the facility's ...

[Learn More](#)

## Ivanpah & Heliogen: Lessons from Concentrated Solar's Decline

Adding tanks of molten salt made it possible to store solar heat for six, eight, or ten hours and deliver power after sunset. For a while that seemed to give it an edge. Utilities in South Africa

[Learn More](#)



## Ivanpah Solar Power Facility

The Ivanpah Solar Electric Generating System is a concentrated solar thermal plant located in the Mojave Desert at the base of Clark Mountain in California,



across the state line from Primm, Nevada.

[Learn More](#)

---

### **Ivanpah Solar Closure Was Announced in January 2025--Here's the ...**

Two Ivanpah units are slated to close starting in 2026, per a January 2025 announcement pending CPUC approval. Here's the original context and what repurposing could look ...



[Learn More](#)



---

### **Two ways water derailed PG& E's Ivanpah CSP contract**

But mostly, PG& E was confident they had plenty of energy storage in water at Hetch Hetchy Dam. Ivanpah was the first US commercial-scale Tower CSP project contracted for in 2010 ...

[Learn More](#)

---

### **Rumor Control: Ivanpah Solar Project Does Not Have Storage**

BrightSource's Ivanpah Solar Electric Generating System will not store heat in molten salt for power generation after

the sun goes down. Nor will the company's proposed Palen Solar Electric

...

[Learn More](#)



---

## Contact Us

For catalog requests, pricing, or partnerships, please visit:  
<https://v4venison.co.za>

