

# PLUS POWER: New Mexico Legislature Science, Technology, & Telecommunications Comte Brief

September 1, 2023



PLUS  
POWER

# PLUS POWER OVERVIEW

Our storage projects enable the next generation of clean energy resources.

- **American-owned** and HQ'd in **Houston, TX**
- Formed in early 2018 by industry veterans from **NextEra, Tesla, and others**
- Leader in large scale **standalone, transmission-connected energy storage** projects
  - *Standalone storage is “fully dispatchable” for grid services unlike co-sited storage.*
  - *Standalone storage and co-sited storage are equal as to greenhouse gas effect.*
- **10,000+ MW** pipeline in **28 states and Canadian provinces**
- Proprietary **data-driven development tools and digital platform** to identify unique locational value with durability and to control fleets
- **Deep safety ethos** and focus on responsible development & deployment



PROPRIETARY & CONFIDENTIAL



Texas Facility  
Under Construction

# FIRST MOVER WITH PROVEN TRACK RECORD & ROBUST PIPELINE

Plus Power is building a strategic and diversified portfolio of merchant and contracted standalone energy storage projects across the United States.

## Our Announced Projects:

PROJECT NAME	STATE	SIZE (MW)	SIZE (MWh)	STATUS / COD	OWNER	CONTRACT
Gambit	Texas	100	175	Operational	Plus Power	Merchant
North Fork	Texas	100	100	Operational	Sold to BRP	Merchant
Bat Cave	Texas	100	100	Operational	Sold to BRP	Merchant
Kapolei Energy Storage	Hawaii	185	565	Construction / 2023	Plus Power	20 year Toll
Sierra Estrella	Arizona	250	1,000	2024	Plus Power	20 year Toll
Superstition	Arizona	90	360	2024	Plus Power	20 year Toll
Cross Town	Maine	175	350	2024	Plus Power	ISONE capacity auction
Cranberry Point	Mass.	150	300	2025	Plus Power	ISONE capacity auction

# CASE STUDY: ENERGY STORAGE COMPLEMENTS GAS

## GAMBIT ENERGY STORAGE

ANGLETON, TEXAS

- 100 MW / 175 MWh south of Houston
- Provides energy and fast-response grid services (regulation and responsive reserve)
- Last-call ERCOT asset, particularly valuable in 2022 Winter Storm Elliott and **record 2022 and 2023 heat waves**
- **Responds in milliseconds, 99+% available when called**
- June 16, 2023: 1.2 GW nuclear plant tripped, leaving ERCOT < 4 GW of reserves >> **dispatched for 4 minutes and 40 seconds to help pick up frequency to avoid grid collapse.**
- June 11, 2023: extreme heat + transmission line outage = real-time Houston energy prices spiked between \$1,000- \$5,000/MWh >> **dispatched where and when market needs it**



Gambit – Angleton, Texas  
In Operation



# CASE STUDY: ENERGY STORAGE REPLACES COAL

## KAPOLEI ENERGY STORAGE

OAHU, HAWAII

- 185 MW / 565 MWh
- Supports 100% RPS by 2045
- Replaces 180 MW AES coal plant
- Serves approximately 20% of Oahu's peak demand (MW)
- Load-shifts renewables
- Performs conventional grid-forming services

***By 2028, KES helps utility:***

- ✓ *Decrease renewable energy curtailment by 69%*
- ✓ *Integrate 10% more new renewables*
- ✓ *Enable fast-growing customer-sited renewables*

Cranberry Point – Carver, Massachusetts  
Project Rendering



Sierra Estrella – Phoenix, Arizona  
Project Rendering; Under Construction



## CASE STUDY: ENERGY STORAGE BACKSTOPS GAS

### CRANBERRY POINT ENERGY STORAGE CARVER, MASSACHUSETTS

- 150 MW / 300 MWh
- Helps stabilize grid to **integrate onshore solar energy and offshore wind** after closure of Mystic Gas
- **Offsets more than 10% of Mystic's capacity (1.4GW)**, with clean renewables stored during off-peak

### SIERRA ESTRELLA ENERGY STORAGE & SUPERSTITION ENERGY STORAGE

#### PHOENIX, ARIZONA

- 250 MW / 1,000 MWh
- 90 MW / 360 MWh
- Helps **backstop** SRP's proposed 820 MW expansion of **Coolidge Gas**

# DEEP SAFETY AND COMMUNITY ETHOS

- NFPA 855 and UL 9540A compliance
- OSHA 1926 stds
- Emergency Response Plan drafted with Fire Depts first
- Expert safety personnel onsite
- Ex-firefighter and Codes/Std's Advisor consultants
- Testing, commissioning to AHJ, utility, and project schedule requirements



Kapolei Energy Storage – Oahu, Hawaii  
January 2023 Construction Photo



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