



Exploring the Future of Energy Innovation: Battery Storage

August 6, 2026





Welcome to our Guests

- Coffman Engineers
- Confluent Development
- Cushman Wakefield
- Forge Nano
- Mooney Capital Group
- RK Electrical
- SouthState Bank
- CU Boulder
- Whiting-Turner Contracting





Agenda

- Welcome – Commissioner Kathy Henson and Nichole Bruce, Co-Chairs
- Q3 Theme: Innovation
- Exploring the Future of Energy Innovation – Battery Storage
 - Reid Melillo, Senior Project Developer, GridStor
 - Mitch Lucas, Senior Manager, Development, Jupiter Power
 - Mark Gabriel, Chief Executive Officer, United Power, Inc.
- Panel Q & A
- Networking





Reid Melillo
Senior Project Developer
GRIDSTOR





AC-REP Presentation: Intro to Battery Energy Storage

August 2026

Key Projects in Operation and Under Construction

530 MW / 1,300 MWh of BESS projects across three markets are supported by a variety of commercial offtake structures

+ Goleta Energy Storage



Location	Goleta, CA Santa Barbara County
Project Size	60 MW / 160 MWh 2.6-hour duration
Key Vendors	Battery: Tesla O&M/LTSA: Tesla
Milestones	Construction Start: Dec '22 Operation Start: Dec '23
Market Offtake	CAISO RA Contract with Southern California Edison

+ Hidden Lakes Reliability



Location	SE Houston, TX Galveston County
Project Size	220 MW / 440 MWh 2-hour duration
Key Vendors	Battery: BYD EPC: GridWorks
Milestones	Construction Start: Aug '24 Operation Start: Sep '25
Market Offtake	ERCOT Bilateral Deal with Axpo U.S.

+ Gunnar Reliability



Location	Edinburg, TX Hidalgo County
Project Size	150 MW / 300 MWh 2-hour duration
Key Vendors	Battery: Hithium EPC: Blattner
Milestones	Construction Start: Jan '26 Operation Start: Q4 '26
Market Offtake	ERCOT Tolling Agreement with Fortune 500 Company

+ White Tank Reliability



Location	Maricopa County, AZ
Project Size	100 MW / 400 MWh 4-hour duration
Key Vendors	Battery: CSE Solbank EPC: Mortenson
Milestones	Construction Start: Jan '26 Operation Start: H1 '27
Market Offtake	WECC Tolling Agreement with Arizona Public Service

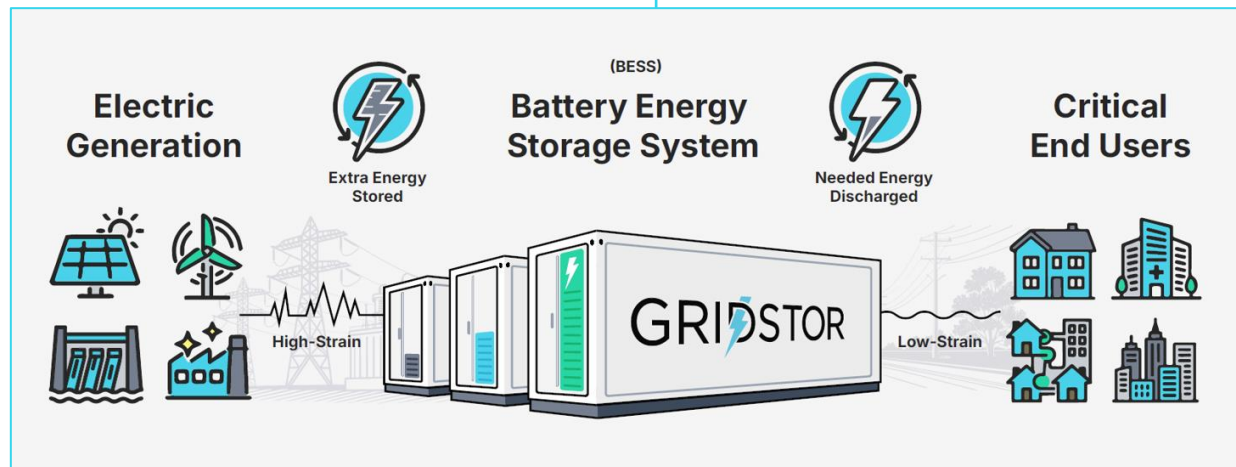
Battery Storage is a Flexible, All-Energy Solution

WHAT BATTERIES DO

- + **Peak Shifting:** Store low-cost electricity from all energy sources to re-deliver when it is needed most
- + **Supply Grid Reliability:** Provide long-term resource adequacy (utility capacity) and short-term grid support
- + **Mitigate Congestion:** Enhance the utilization of existing power infrastructure

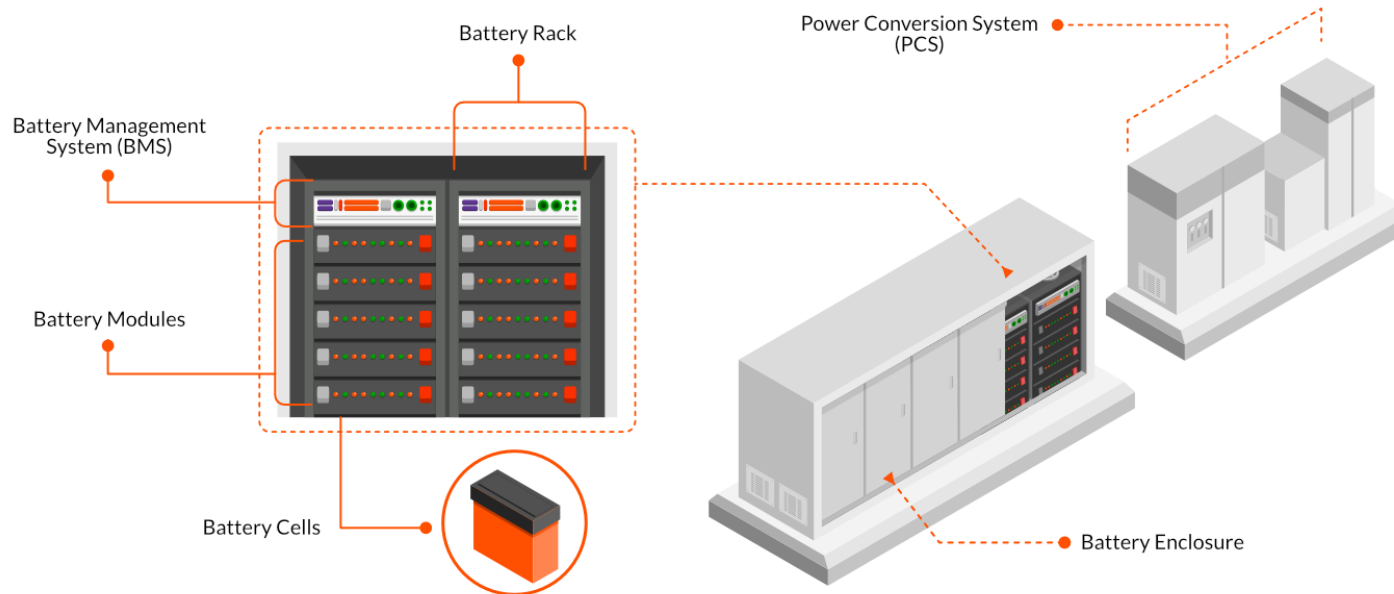
HOW BATTERIES OPERATE

- Front-of-Meter vs. Behind-the-Meter
- Standalone vs. Hybrid (co-located)
- Duration (1-8hr)
- 20+ year warrantied lifetime
- 24/7/365 monitoring
- Quiet, emission-free operation



Battery Energy Storage Basics

- + Battery cells, typically Lithium Iron Phosphate (LFP) or similar chemistry, are grouped into modules and stacked on metal racks
- + Free-standing purpose-built enclosures contain racks, communications, HVAC, and safety equipment
- + Power conversion systems + on-site substation enable flow of electricity between BESS and grid



Why Do Battery Energy Storage Facilities Matter?

- + Battery energy storage strengthens and adds flexibility to our aging power infrastructure, meeting the demands of growing homes and businesses.
- + Since electricity must be used immediately or is wasted, batteries store power from various energy sources to minimize waste and reserve energy for peak demand.
- + Batteries enable the storage of solar and wind energy, allowing their use even when the sun isn't shining or the wind isn't blowing, thereby maximizing domestic energy production.
- + These battery energy storage system facilities (BESS) also require less space than other energy resources, allowing for flexible placement in various locations and being sited where energy stability is needed most. This allows BESS to be located closer to electricity users than other power.



1. Markets and locations with high demand for energy:

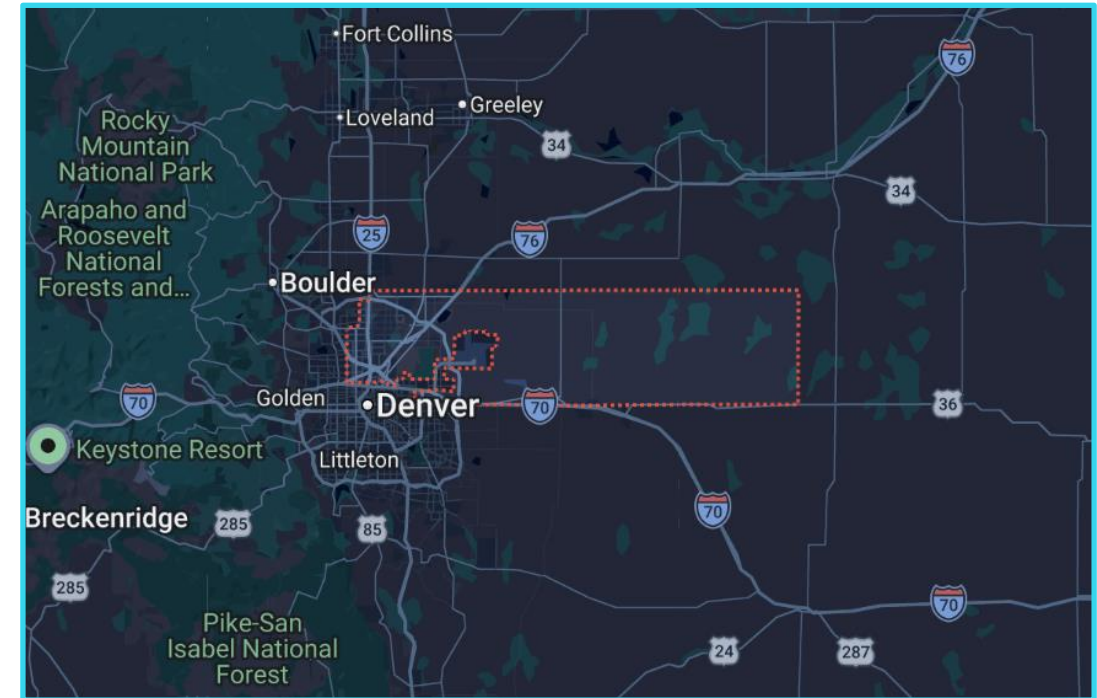
- Population centers, large energy demand businesses and factories

2. Utility Need:

- Utilities have Resource Adequacy requirements (RA), A.K.A Capacity. Electric capacity must be above demand to ensure their customers have access to energy 24/7, 365.
- Utilities and governments have clean energy and sustainability goals

3. Proximity to Electric infrastructure and available land: Substation & Transmission lines

4. Land Availability: Properties greater than 5 acres, compatible zoning, willing landowner partnerships



A Positive Community Investment

- + Since 2013, battery costs have dropped by over 80%, offering a cost-effective means to stabilize the energy grid and benefits local communities where they're utilized.
- + Energy storage projects bolster local economies without straining other governmental services, while maintaining minimal environmental impact with low emissions and a small footprint.

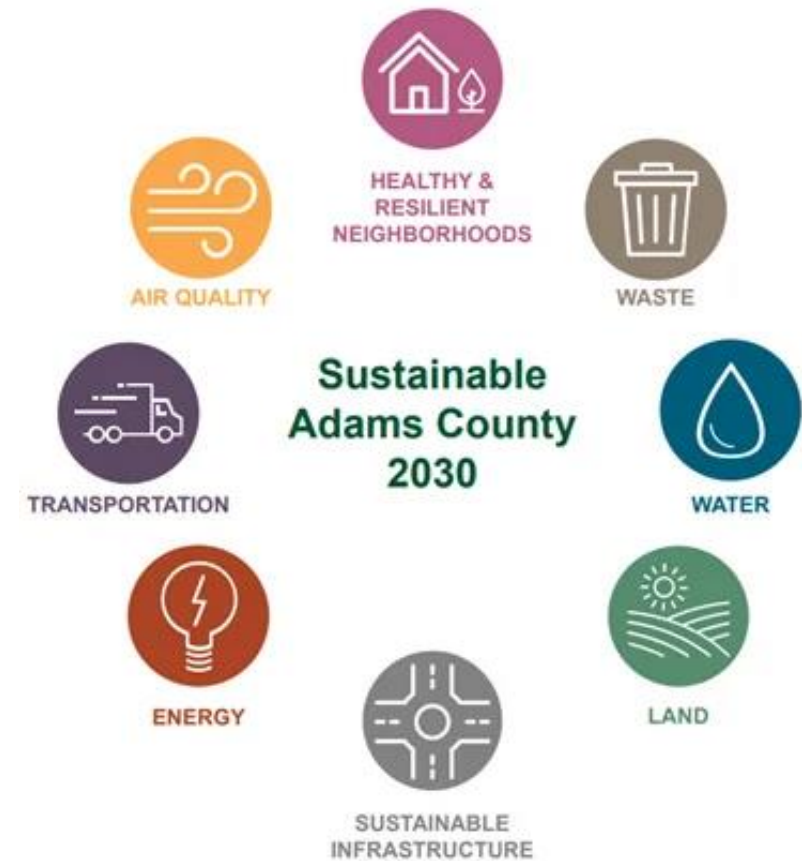
Energy, Economics, and Environmental Benefits

- Sustained local tax revenue
- Cost-effective solution
- Increased grid reliability
- Minimal physical footprint
- Employment of local, skilled construction workers
- Critical infrastructure investment



Why Adams County, CO

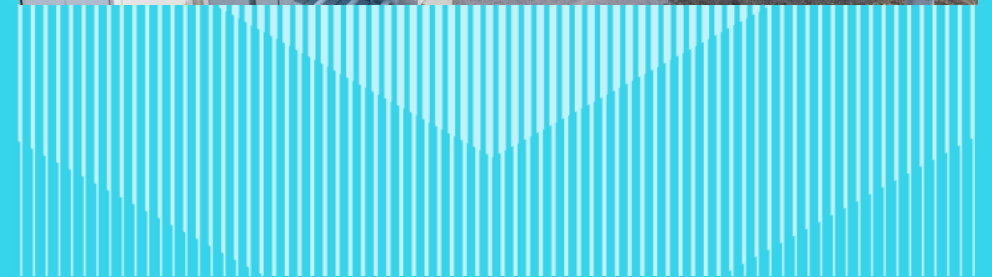
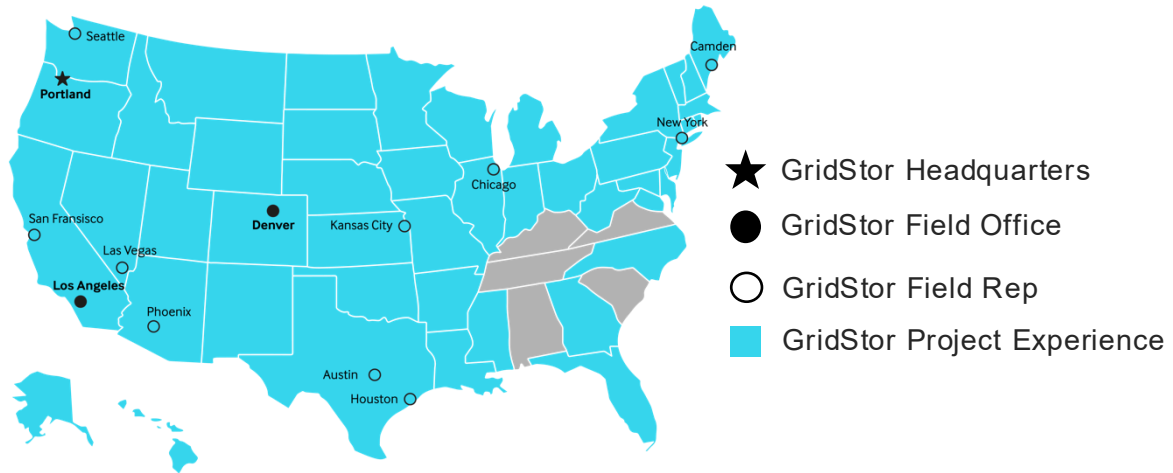
- + High energy demand from population, businesses, and other high energy uses (airports, data centers, manufacturing, and similar).
- + Xcel's own planning shows a need for ~5.4GW of new capacity due to energy demand increases.
 - Batteries provide accredited capacity that counts toward meeting this requirement
 - Xcel's Colorado Portfolio progressing toward 100% carbon-free electricity by 2050, with an interim goal of 80% carbon reduction by 2030
- + United Power: Supports reliable, affordable, and sustainable local energy.
 - 80% carbon reduction by 2030; 100% carbon-free electricity by 2050
- + Sustainable Adams County 2030 Plan emphasizes environmental, economic, and community stability
 - Achieve 50% of renewable energy supply
 - Expand, create, and advocate for equitable clean energy opportunities for all
 - Reduce indoor and outdoor air quality impacts on disproportionately impacted communities through advocacy and mitigation practices.



CONTACT INFORMATION

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Mitch Lucas
Senior Manager, Development





Battery Energy Storage & Adams County

AC-REP Development Council
Mitch Lucas, Senior Manager, Development

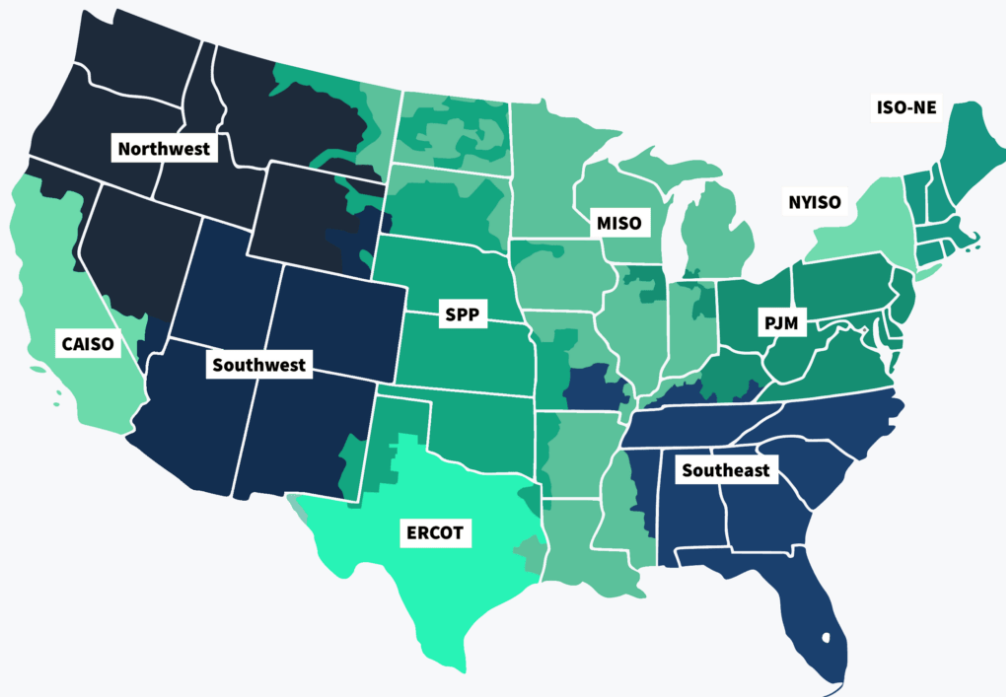
JULY 13, 2026

Storage made
strategic

WHO WE ARE

A Pioneer in U.S. Energy Storage

Jupiter Power builds and operates safe, reliable standalone battery energy storage projects that help make the electric grid more responsive and resilient. Founded in 2017, we were among the first companies dedicated entirely to standalone energy storage — and today we operate one of the largest standalone portfolios in the United States.



20 Projects, 7GWh

Operating and in construction across U.S. with zero recordable safety or environmental incidents

Trusted partner

Proven counterparty to communities, major public & private utilities and Tier I BESS manufacturers

Storage expertise

200 professionals and 10 years experience in every aspect of energy storage

Energy Trends in Colorado

Energy Trends in Colorado

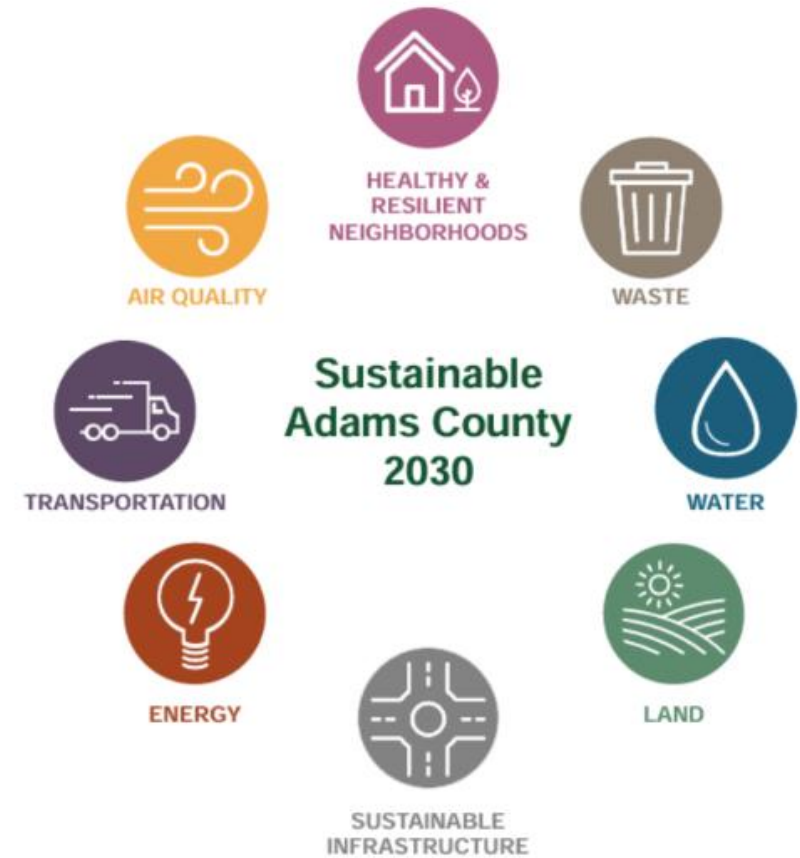
1. Increasing demand for electricity
 - PSCo's 2024 electric resource plan projected a 19% increase in peak demand by 2031
2. Retiring base load power plants that are reaching end of life (decreasing supply)
3. These factors can contribute to...
 - Increasing electricity prices for households and businesses
 - Increasing wait times to bring new loads online, impacts to economic development

How can battery energy storage projects help?

- Bridge the supply and demand gap and leverage existing grid infrastructure to help bring costs down
- Improve grid resiliency with dispatchable, dependable electricity
- Speed to deployment
- Drive regional economic development

Why Adams County?

- Growing population and economy driving **increasing electricity demand**
 - Airports, aerospace/Air and Space Port, manufacturing, and more
- Uniquely positioned geographically
- Existing electrical grid and transmission infrastructure
- “Colorado’s next economic frontier... Energy infrastructure” – *Building the Future of Adams County, State of the Region, 2026*
- Sustainable Adams County 2030 plan emphasizes a healthy community, economy, and environment
 - 50% renewable energy target for county facilities
 - Air quality goals



Jupiter Power in Adams County

- 300-megawatt, 4-hour battery energy storage system
 - 1 Enough capacity to power a quarter-million homes for the 4-hour discharge period
- Located near Denver International Airport
- Compact footprint, <40 acres
- Connecting to the regional electric grid
- Goal to start construction next year

Project benefits

- Facilitate other economic development by increasing the electricity supply during peak demand and strengthening grid reliability
- Tax revenue– projecting ~\$20 million in public revenue over the first 20 years of project life
- 125 jobs during construction, handful of permanent operations and maintenance jobs



For more information visit
jupiterpower.io

**Storage made
strategic**



Mark Gabriel
Chief Executive Officer



Your Touchstone Energy® Cooperative 



*Batteries Included



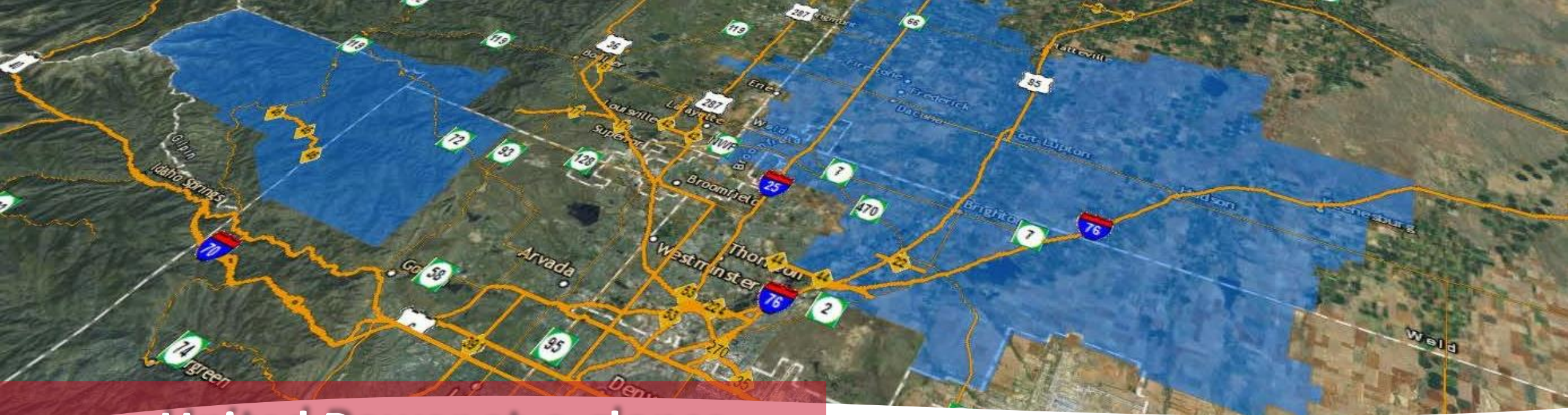
Scan to download this presentation.

Mark A. Gabriel
President & CEO

AC-REP Development Council
Aug. 6, 2026



Your Touchstone Energy® Cooperative 



United Power at-a-glance

Electric cooperative **founded in 1938**

One of the **fastest growing** co-ops in the nation

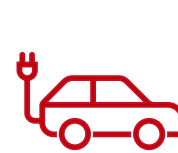
Serving **17 Denver area communities**

Smallest service area in CO (900 sq. miles)

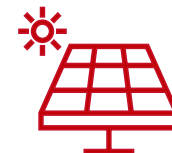
Largest co-op in CO by load

2nd largest co-op in CO by meters (118k+ meters)

3rd largest utility in CO by load



10,750+
registered EVs
and plug-in
hybrids



13,950+
members have
solar rooftops



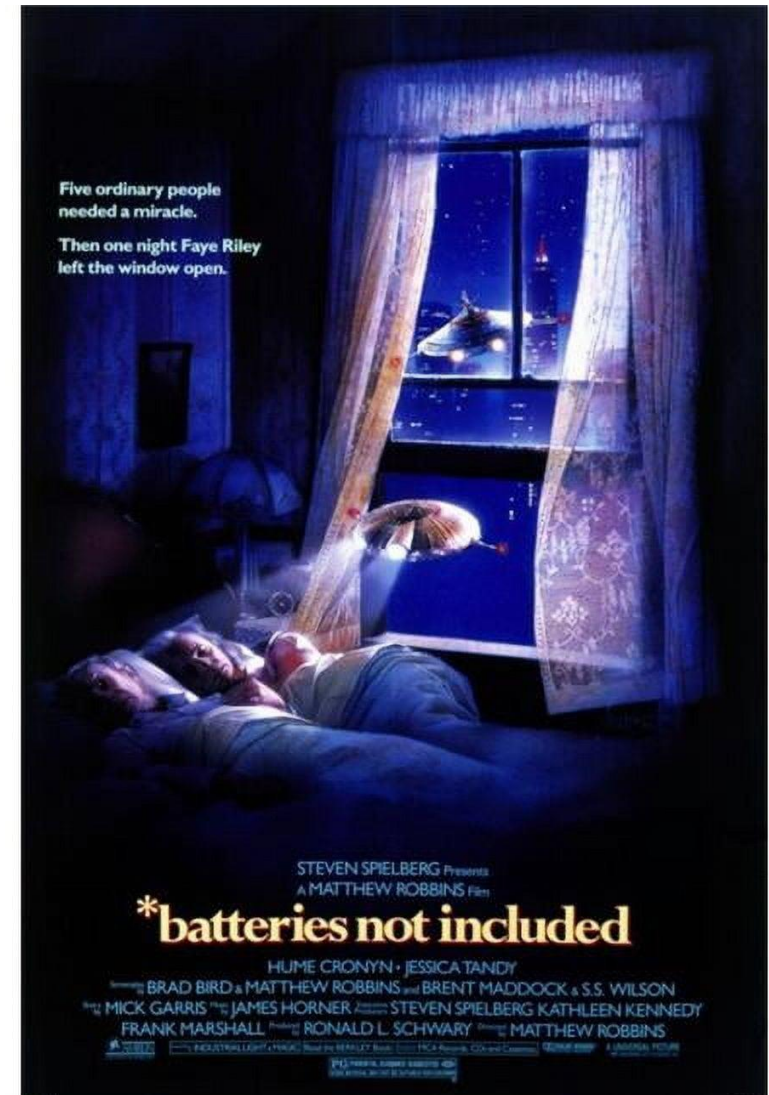
119 MW
Utility-scale
Battery Storage



707 MW
system peak
July 2026

For United Power *batteries ARE included

- Key component to our hyperlocalization strategy
- Only resource that can come online quickly
- Saving cooperative and its members money
- Critical to meeting growing demand now and in the future



Which is more likely to be built?



+



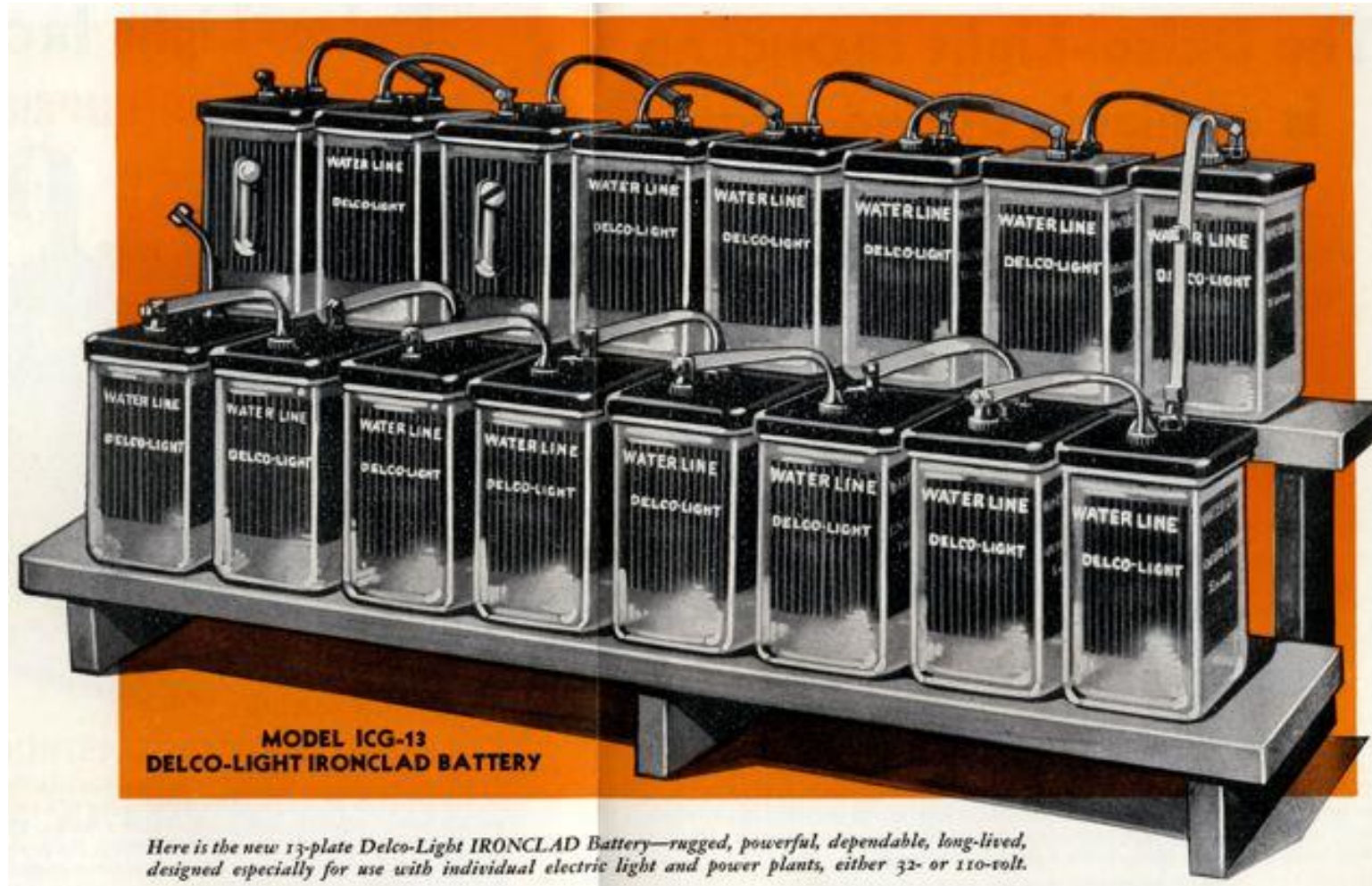
OR



+



Utility scale batteries are not new



Storage plays an increasingly important role



- United Power has 119 MW of storage spread across nine substations and two offices.
- Strategy is to arbitrage power and support capacity requirements.
- We have committed to 200 MW of additional storage in 2027.

United Power batteries

- 119 MW of Tesla Megapack Battery Energy Storage System (BESS)
 - Arbitrage schedule set by The Energy Authority (TEA)
 - Charge when power is cheap
 - Discharge when power is expensive
- System operators enter schedules into SCADA
- Monitoring: schedules, communication, availability
- Saves United Power +/- \$300,000/month



Prairie Center Battery Bank

RTAC: 100 OK

SITE TOTALS:

36 Megapacks: 33.7 MVA; 202 MWh rated

MW: -12.997
MVAR: -0.520
MVA: 13.008
Power Factor: 99.92

Energy Capacity MWh: 197.96
98.0 % available of all 36 inverters
Inverters Online: 36
98.0 % available of online inverters

Contingency Reserve Obligation: 14 MW Max: 20 MW
Hours Runtime at CRO: 14 Hours

Reserves Requested by WACM from UP: 13 MW
Time Left in Reserve Request: 64 Min
Actively Deployed Reserves: 13.0 MW

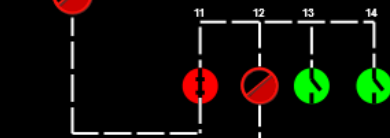
Deployed Reserves Cover Reserve Request

Henry Lake Tri-State T1
MW: 52.92
Limit MW: 90.0
Max Charging Setpoint MW: 37.1

Prairie Center T2
MW: 2.73
Limit MW: 40.0
Buffer MW: 1.5

3312-0400
Prairie Center Feeder 4

58293903017

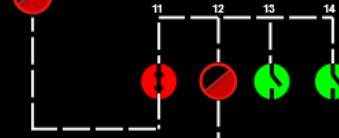


SEL 735 Battery 1: OK
MW: -4.289
MVAR: 0.168
MVA: 4.292
Power Factor: -100.00
Frequency - Hz: 60.00

UP Meter Cabinet
58294003001
A Amps: 190.5 A Volts: 125.8
B Amps: 189.5 B Volts: 126.0
C Amps: 189.4 C Volts: 125.6

3312-0700
Prairie Center Feeder 7

58293903016

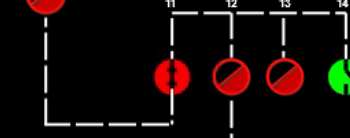


SEL 735 Battery 2: OK
MW: -4.325
MVAR: 0.168
MVA: 4.329
Power Factor: -100.00
Frequency - Hz: 60.00

UP Meter Cabinet
58294003002
A Amps: 191.9 A Volts: 125.8
B Amps: 190.6 B Volts: 126.0
C Amps: 190.9 C Volts: 125.6

3312-0800
Prairie Center Feeder 8

58293903015



SEL 735 Battery 3: OK
MW: -4.369
MVAR: 0.175
MVA: 4.372
Power Factor: -100.00
Frequency - Hz: 60.00

UP Meter Cabinet
58294003003
A Amps: 194.3 A Volts: 125.8
B Amps: 193.2 B Volts: 126.0
C Amps: 193.1 C Volts: 125.6

UP Control Enabled



Controller in Auto

Contact: Fractal ROC
512-646-9689
Whetstone Ops
719-378-5020

CMOD: ☒ MANUAL

SPP Follow Command Signal: OFFZ
SPP Setpoint (MW): 0.00Z

Battery Feeder A



Battery Feeder B



Battery Feeder C



Operating Guide

Generation Values (- MW is Generation)



Battery Site One-Line

SITE DISPATCH:

Fractal/Whetstone Site Battery Controller: OK

Charging Schedule

Available Charging MW: -31.00

SCHEDULE @ ☒ 100 7/21 7.00
-20.00 MW HHMM MM/DD DURATION

Discharging Schedule

Available Generating MW: 36.00

SCHEDULE @ ☒ 1400 7/21 9.00
13.00 MW HHMM MM/DD DURATION
Rating - Maximum CRO = 13.7 MW

Run Now

(+ is disch., - is charge)

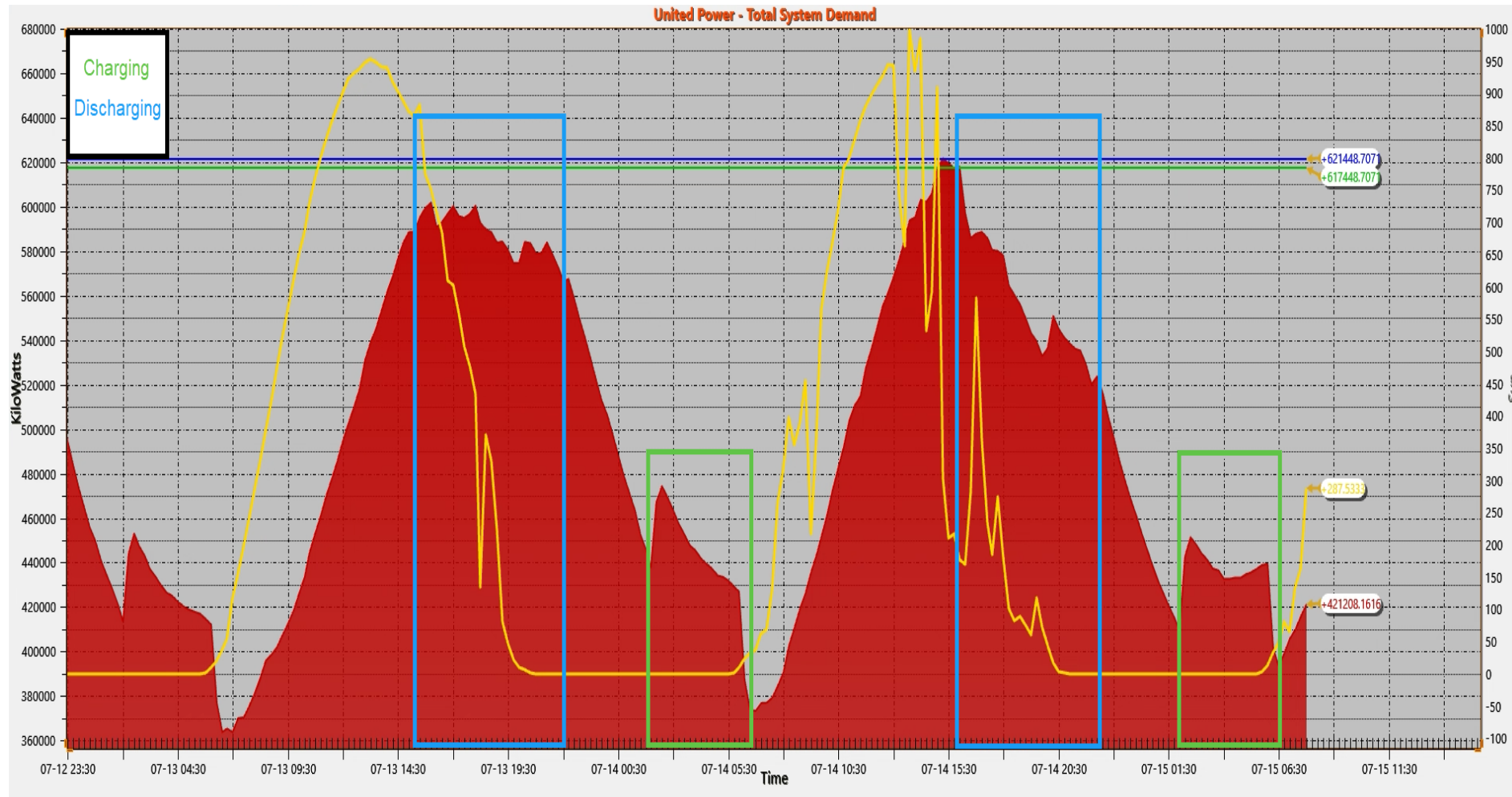
RUN NOW @ ☒ 5.50
13.00 MW DURATION

Manual Reserves

RUN NOW @ ☒ 0.00 MW

Activate Windows
Go to Settings to activate Windows.

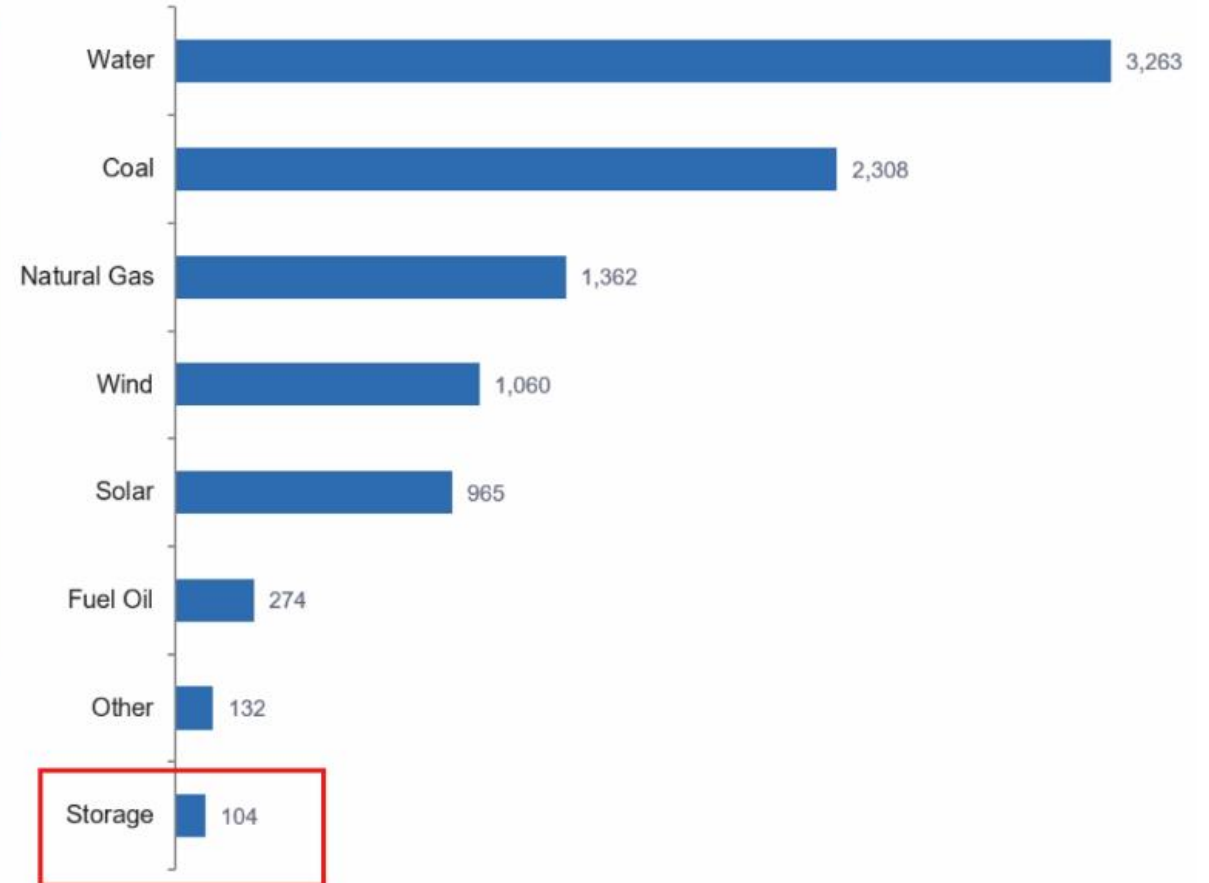
Batteries allow better system management



United Power's batteries in the market—it is all us!

Registered capacity: 9,460 MW

- Hydro makes up 34%
- Wind and solar add another 21%
- ~56% of capacity is weather- or hydrology-dependent
- Coal (24%) and natural gas (14%) provide the dispatchable base



What do we buy?



Capacity from the batteries in the form of a power purchase agreement



Batteries that are available for delivery now (or next 12-24 months)



Batteries with a track record



We like technology but cannot afford to take a risk of non-delivery

Contact Me

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President & CEO



Scan for contact information.



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Mark Gabriel



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Your Touchstone Energy® Cooperative 



Questions?





A proud partner of the American Job Center network



Workforce in the Age of AI

- September 10th – 9:00 am 12:30 pm
- Nominations Open
 - Employer of the Year
 - Community Partner of the Year
- Reach out to Lisa Hough for nomination links

More info and to register:





Upcoming AC-REP Events/Meetings

- Childcare & the Workplace - Adams County Business Focus Group Lunch – August 19
- Development Council meeting – September 3
- Civic and Business Alliance – E470 – Sept. 17
- **Save the Date: AC-REP Gamechangers
Nov. 12th at Balistreri Vineyards
Sponsorships Available**

AC-REP Events Calendar





AC-REP

DEVELOPMENT COUNCIL

