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BREAKTHROUGH, LOW-COST, MULTI-DAY ENERGY STORAGE

Jason Houck, Policy Director

CEC IEPR Commissioner Workshop on Firm Zero-Carbon Resources, July 29, 2025

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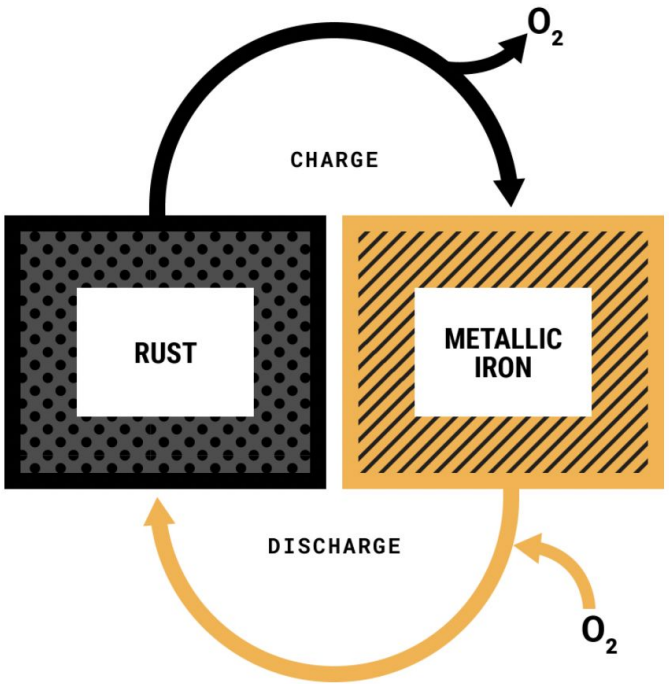
Energy Storage for a Better World

Technology overview: Rechargeable 100-hour iron-air batteries

Reversible rusting



Technology benefits

COST

Lowest cost rechargeable battery chemistry, with a chemistry entitlement of <$1.00/kWh

SAFE

No thermal runaway (unlike li-ion)
Non-flammable aqueous electrolyte

SCALABLE

Made from abundant materials to scale globally, without geopolitically risky supply chains

DURABLE

Iron electrode durability proven through decades of life and 1000's of cycles (Fe-Ni)

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Commercial scale manufacturing at Form Factory 1

Top Facts

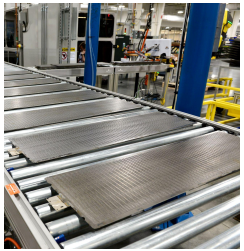
- Total Local Investment: $760 million
- Ground Breaking: 2023
- Production Start: 2024
- Jobs: 750 full-time jobs by 2028 (~400 as of May ‘25)

Why West Virginia

- Business friendly environment
- Access to river, rail, & hardened highways
- Strong local workforce

American Manufacturing

- Situated on the historic site of the former Weirton Steel mill, Form Factory 1 is demonstrating that the greatest manufacturing epoch isn’t behind us — it’s unfolding now.



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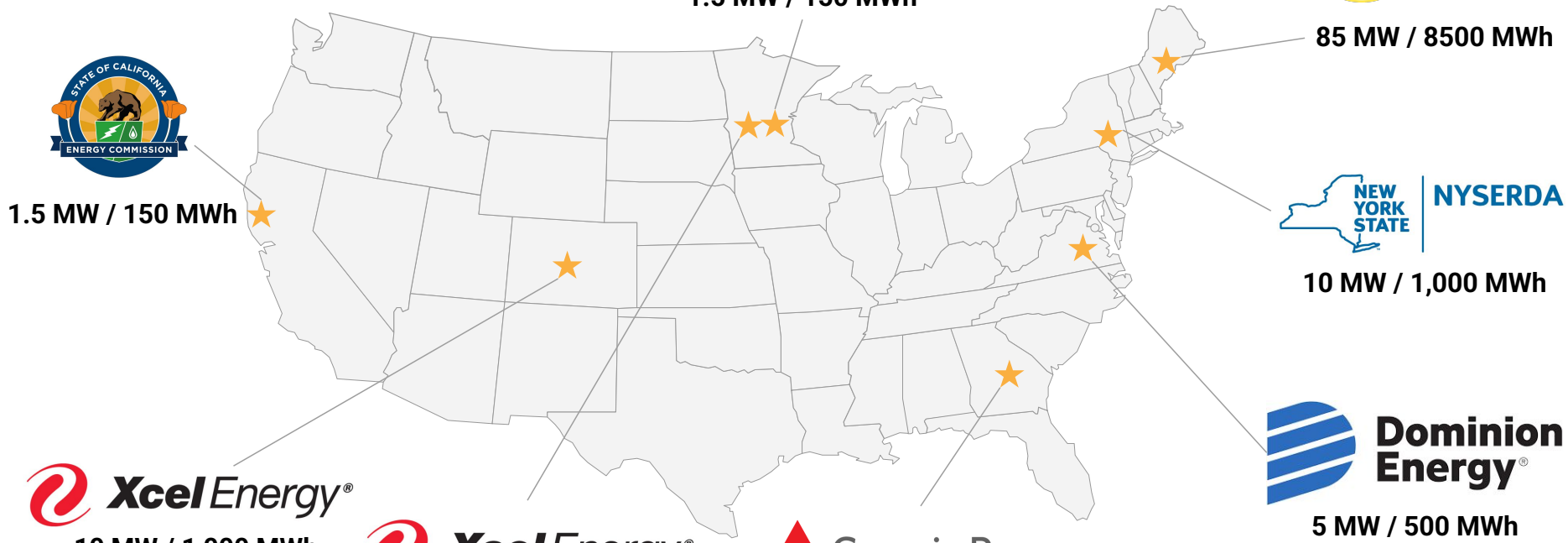
Over 14 GWh of announced deployments across the United States



GREAT RIVER ENERGY™

Broke ground Summer 2024

1.5 MW / 150 MWh

85 MW / 8500 MWh

1.5 MW / 150 MWh

NEW YORK STATE | NYSERDA

10 MW / 1,000 MWh

Dominion Energy®

5 MW / 500 MWh

Xcel Energy®

10 MW / 1,000 MWh

Xcel Energy®

10 MW / 1,000 MWh

Georgia Power

15 MW / 1,500 MWh

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