Achieving the DOE Long Duration StorageShot

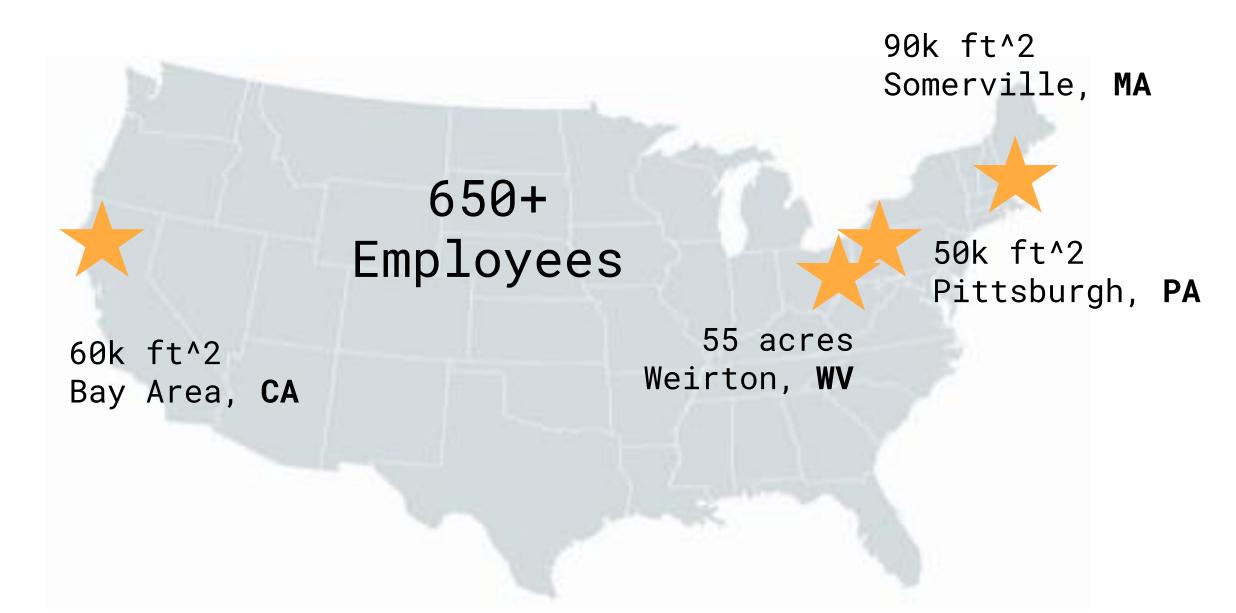
Nidhi Thakar, VP of Policy and Regulatory



Energy Storage For A Better World



Rising to the challenge of climate change with a team that will deliver



OUR INVESTORS: LONG-TERM AND IMPACT-FOCUSED

\$820M+ in venture capital from top investors including: Breakthrough Energy Ventures (BEV), TPG's Climate Rise Fund, Coatue Management, GIC, NGP Energy Technology Partners III, ArcelorMittal, Temasek, Energy Impact Partners, Prelude Ventures, MIT's The Engine, Capricorn Investment Group, Eni Next, Macquarie Capital, Canada Pension Plan Investment Board, and other longterm, impact oriented investors LED BY ENERGY STORAGE VETERANS

Decades of cumulative experience in energy storage

100's of MW of storage deployed























The Challenge

The electrical grid needs to fundamentally transform to meet today's challenges



Extreme weather events have become more frequent and disruptive



Power supply is becoming tighter



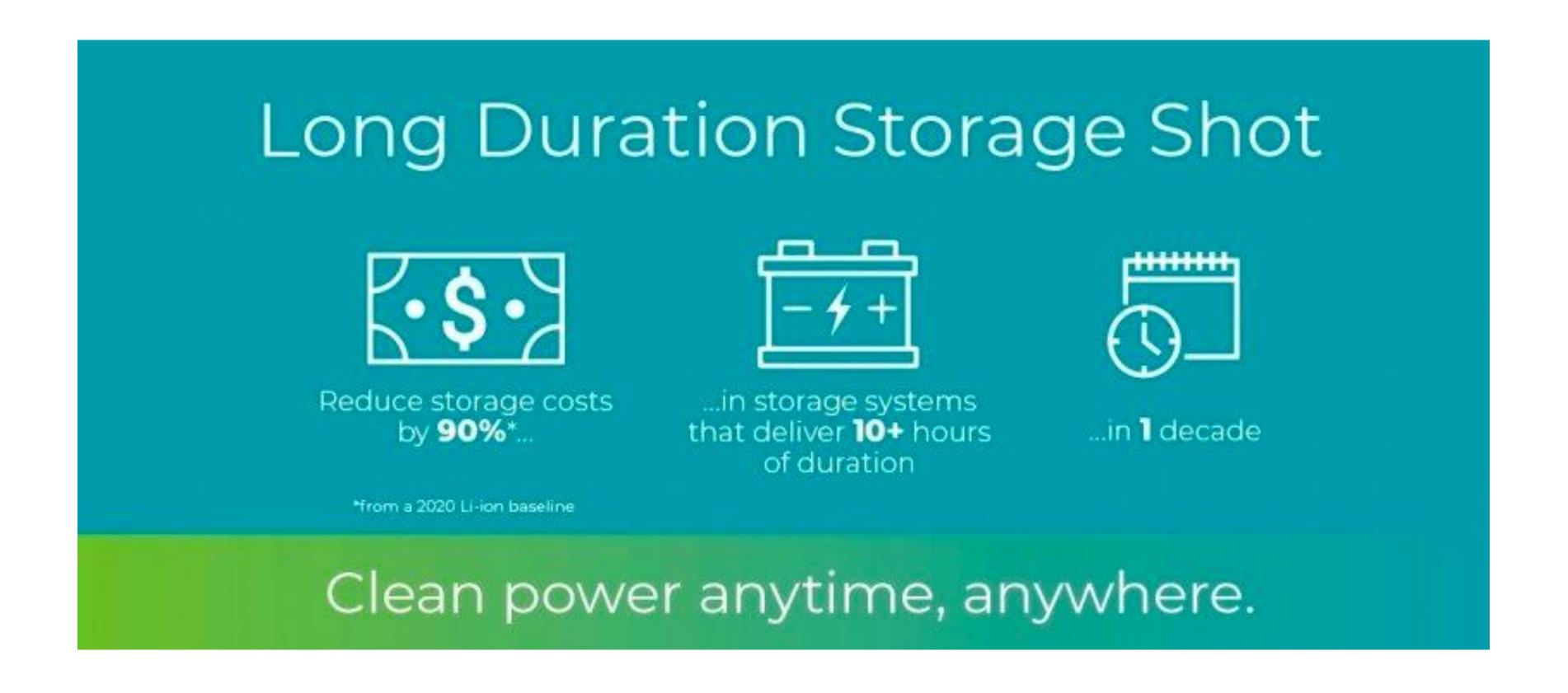
Intermittent resources need firming up



Transmission congestion and interconnection queues are increasing



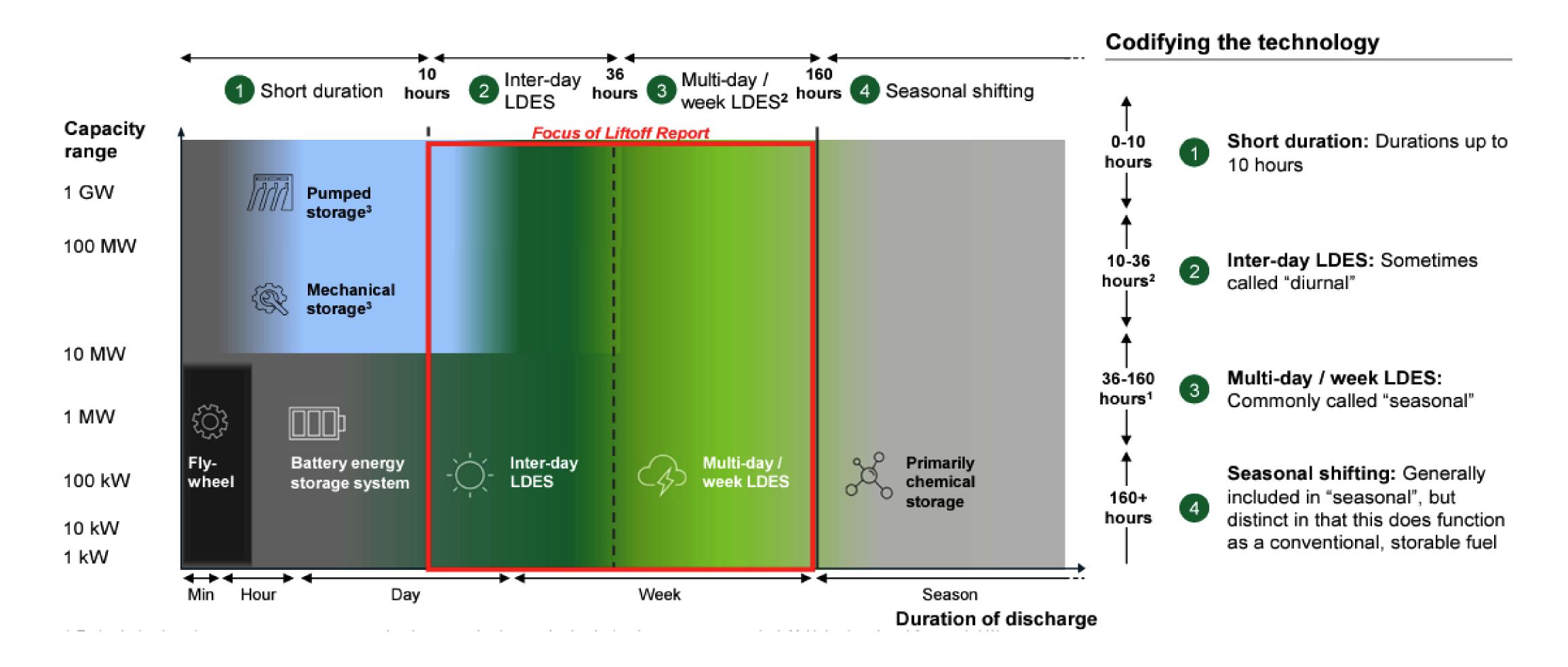
DOE's Long Duration Storage Shot is a Dedicated Effort to Drive Down Cost of LDES, in partnership with industry





Long Duration Energy Storage is the Key

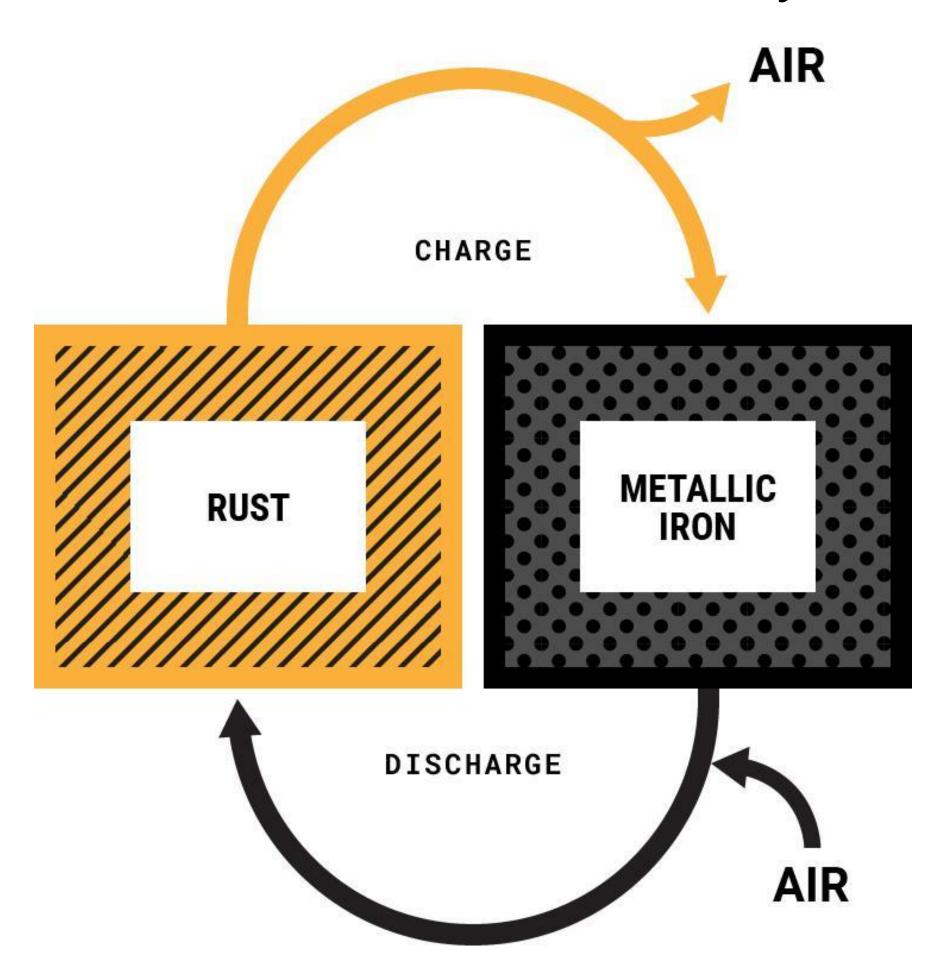
LDES moves beyond today's li-ion technology to inter-day and multi-day storage





Rechargeable iron-air is the best technology for multi-day storage

Form's 100-Hour Reversible Rust Battery





COST

Lowest cost rechargeable battery chemistry. Less than 1/10th the cost of lithium-ion batteries



SAFETY

Non-flammable aqueous electrolyte. No risk of thermal runaway.



SCALE

Uses materials available at the global scale needed for a zero carbon economy. High recyclability.



DURABILITY

Iron electrode durability proven through decades of life and 1000's of cycles

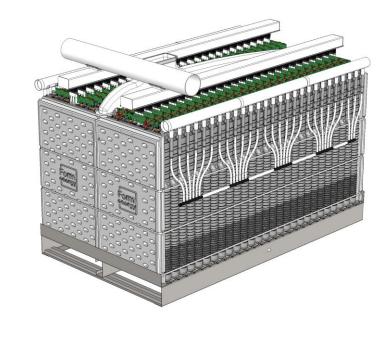


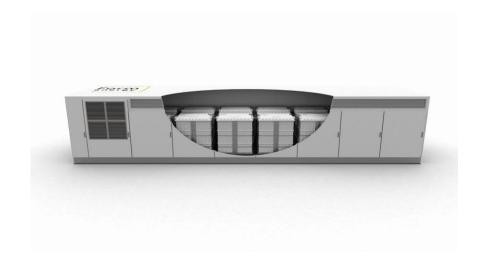
What makes up a Form Energy system

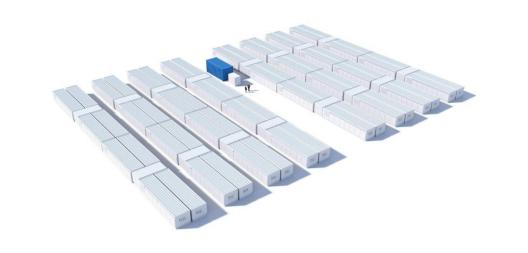
Modular design enables easy scaling to GWh systems

Cell Battery Module Enclosure Power Block System











Electrodes + Electrolyte

Smallest **Electrochemical** Functional Unit ~50 Cells

Smallest Building Block of **DC**Power

~5 Modules

Product Building Block with integrated module auxiliary systems

~3.5 MW / 350 MWh

<2 acres

~50 - 100 **Enclosures**

Smallest independent system and **AC Power** building block

10 MW / 1000 MWh

5+ acres

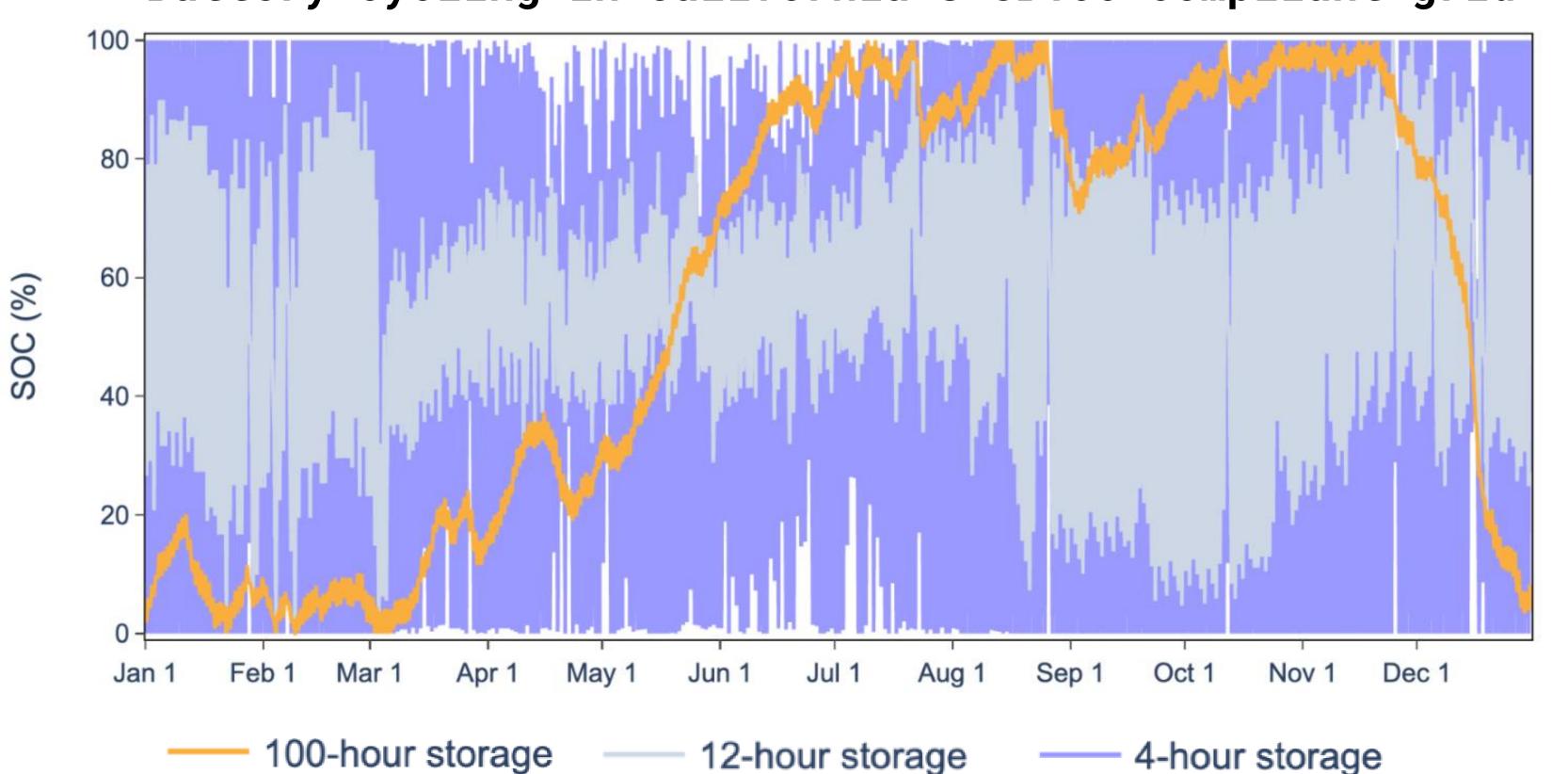
10s - 100s of **Power Blocks**

Commercial Intent System



Multi-day storage, mid-duration storage, and lithium ion batteries provide different grid functions





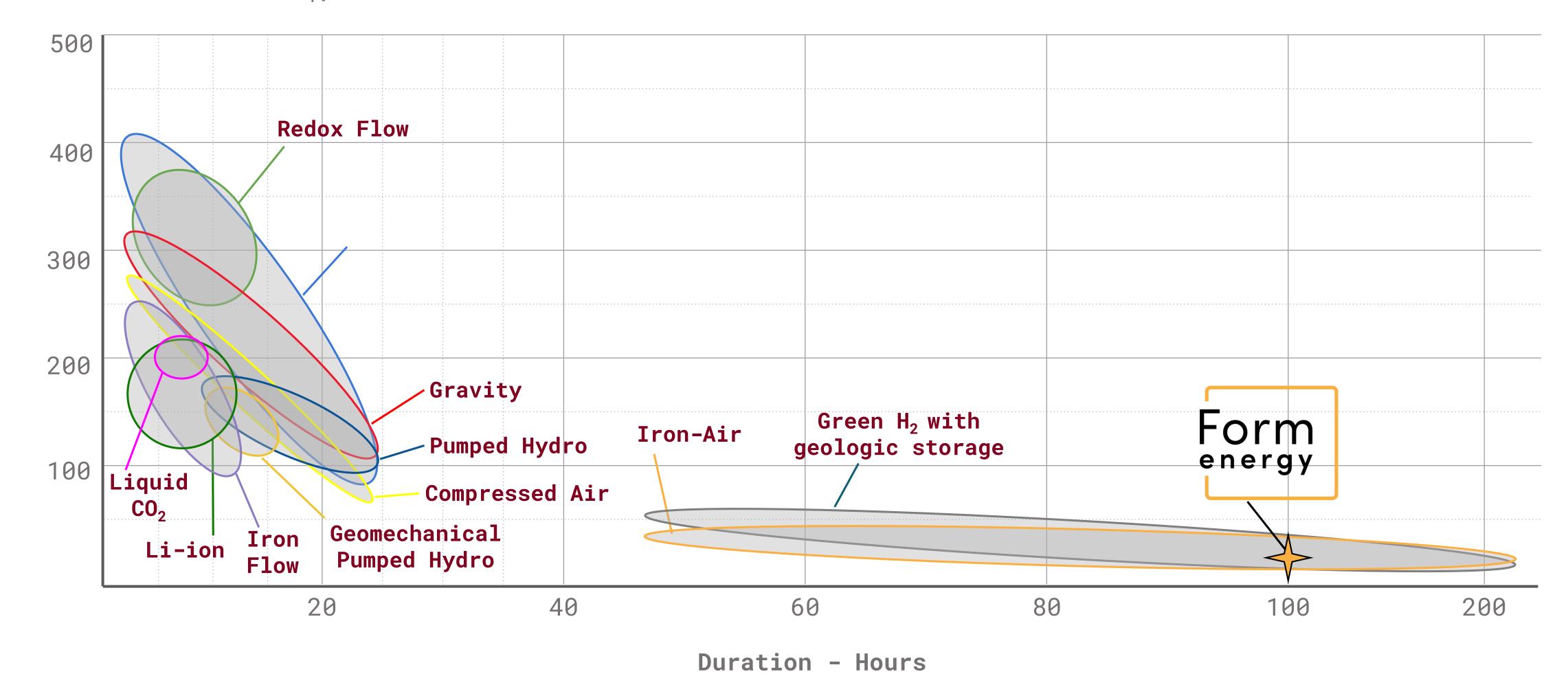
Short- and mediumduration storage provide daily balancing for meeting ramps and hitting peaks.

Multi-day storage provides intra-day, multi-day, and seasonal energy balancing, supplying reliability needs unmet by short- and medium-duration storage.



Form's iron-air battery is the only technology targeting multi-day duration without geographic constraints

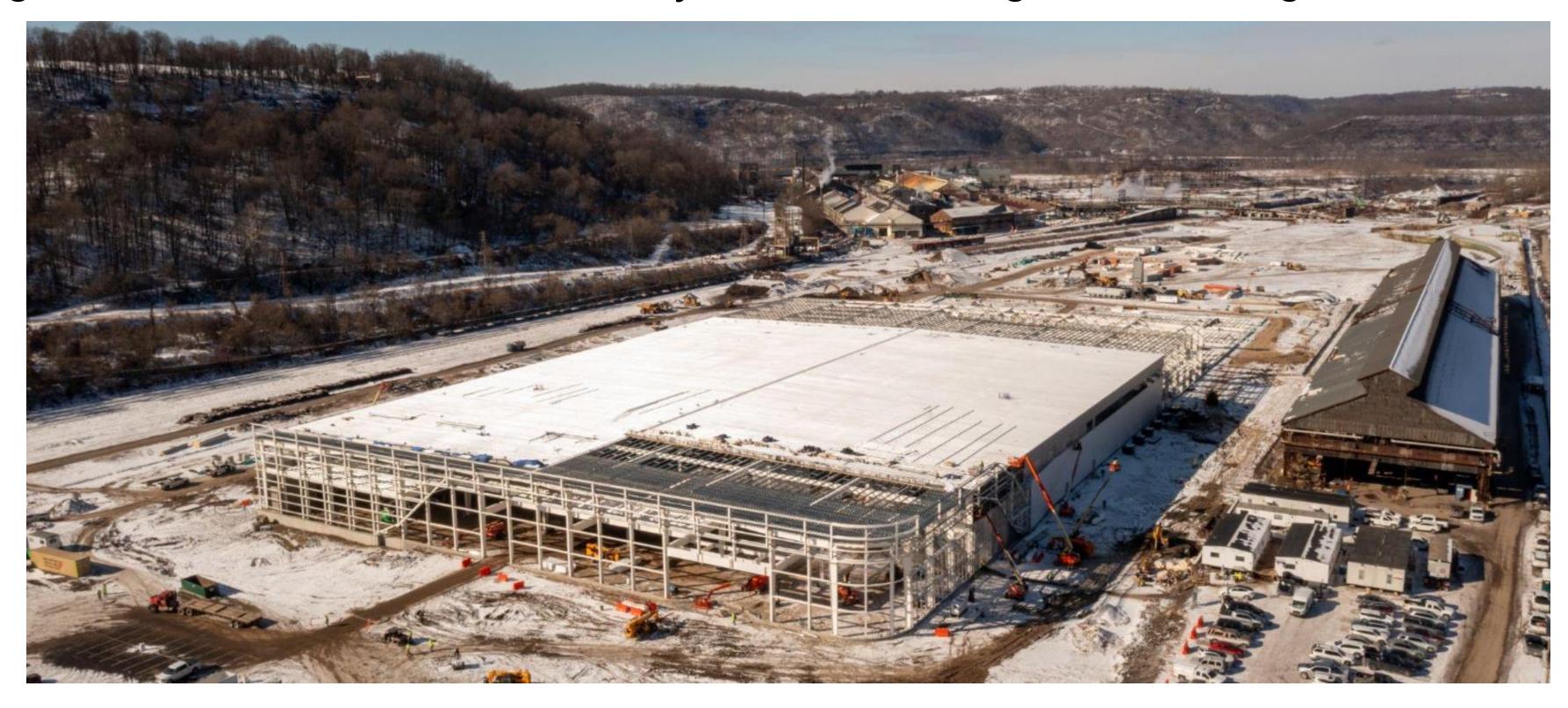
2030 Installed Cost - \$/kWh





Form Factory 1: Commercial-Scale Manufacturing

Transforming Weirton Steel Land for Battery Manufacturing in West Virginia



Total Local Investment: \$760 million

Construction Start: Early 2023

Production Start: Late 2024

Jobs: Minimum of 750 full-time jobs

Location Benefits

- Close to our existing pilot manufacturing facility in PA
- Strong natural infrastructure
- Local manufacturing know-how

Factory Function

- Semi-to-fully automated cell, module, & enclosure assembly
- Ability to scale production in modular blocks



Over 5 GWh of Commercial Engagements



First-of-its-kind 1.5 MW /150 MWh MDS project in Cambridge, Minnesota to come online in 2024



Two 10 MW / 1,000 MWh MDS systems; one in Becker, MN and one in Pueblo, CO. Both expected to come online as early as 2025



5 MW / 500 MWh MDS system in collaboration with the California Energy Commission in Mendocino County; online by 2025



10 MW / 1000 MWh MDS system in New York to come online as early as 2025



15 MW / 1500 MWh MDS system in Georgia to come online as early as 2026



5 MW / 500 MWh MDS system in Virginia to come online as early as 2026

