BREAKTHROUGH LOW-COST, MULTI-DAY ENERGY STORAGE



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, GIP, 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 long-term, impact oriented investors

LED BY ENERGY STORAGE VETERANS

Decades of cumulative experience in energy storage

GW's of projects deployed

























Form Factory 1



Form Factory 1 | Groundbreaking





May '23

June '23

July '23

Sep '23 Dec '23 Mid-Late '24

Early '25

Break ground Foundations

Steel

Utilities

Building dried-in

Start operations Expansion



The Challenge

The electrical grid needs to fundamentally transform to meet the challenges posed by climate change



Intermittency of renewable assets creates periods of undersupply



Transmission congestion and interconnection queues are increasing



Thermal phase out leads to increasing adequacy challenges



Extreme weather events will become more frequent and disruptive to customers



Over 5 GWh of Commercial Contracts - 2x installed li-ion capacity in the UK today



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



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

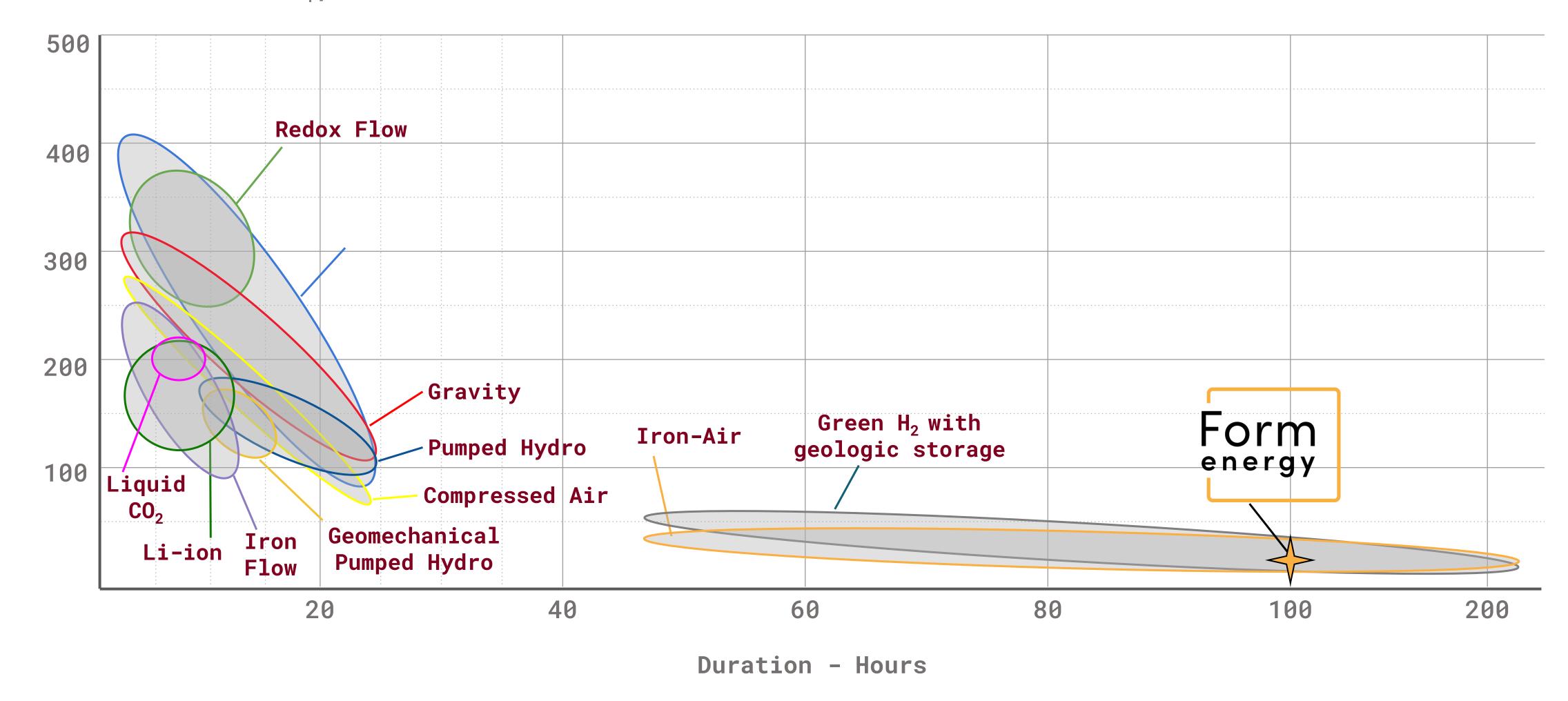


5 MW / 500 MWh MDS system in Virginia to come online as early as 2026



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

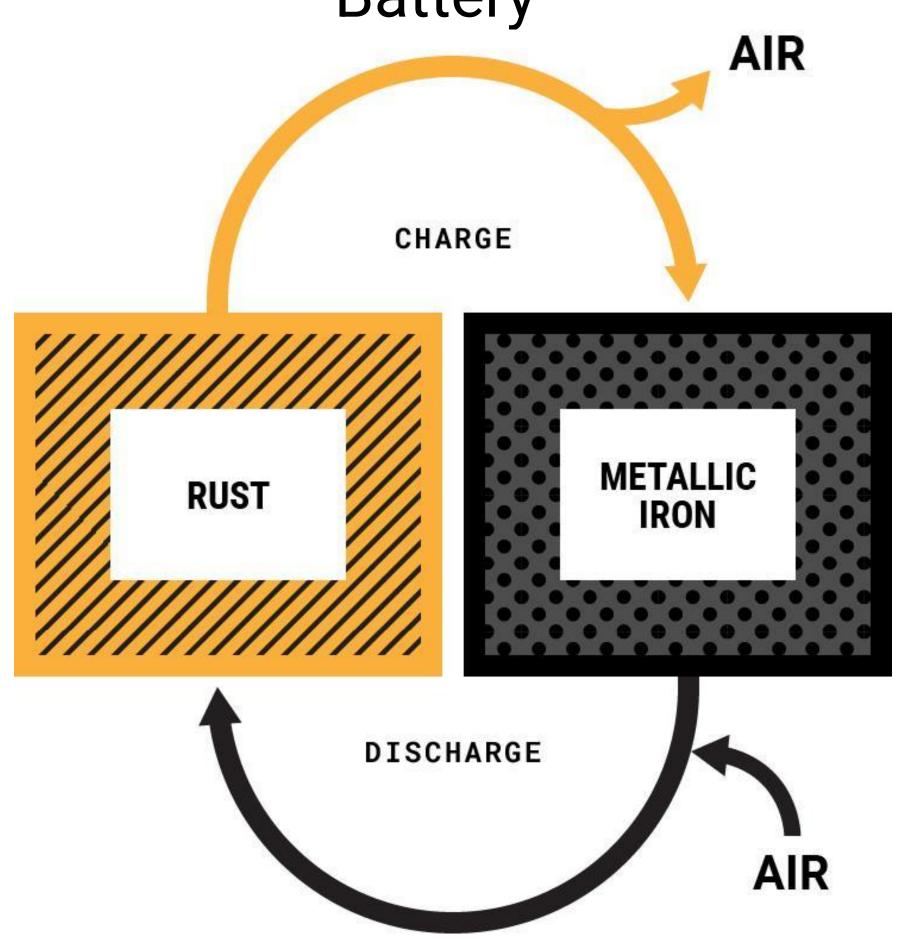
2030 Installed Cost - \$/kWh





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







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.



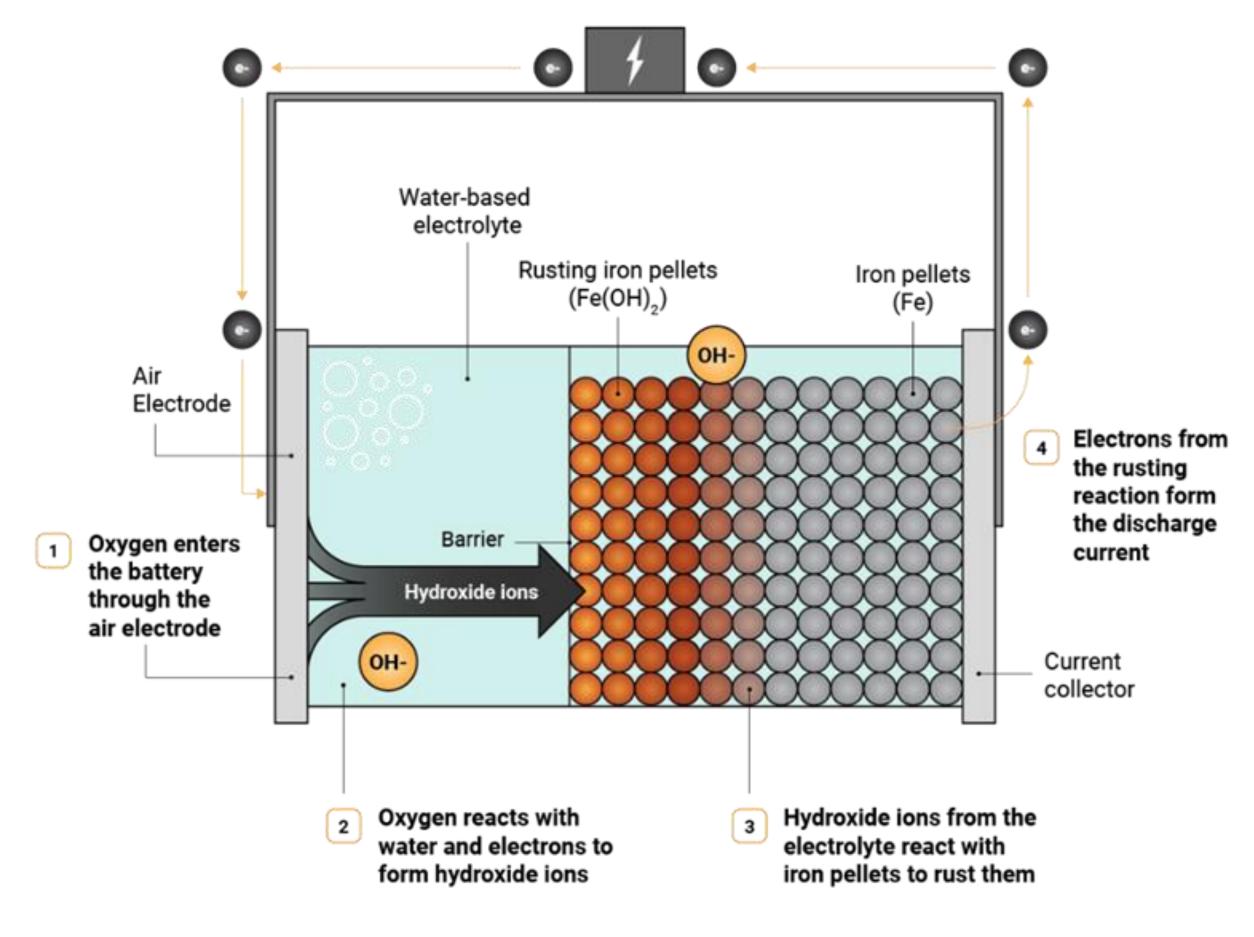
DURABILITY

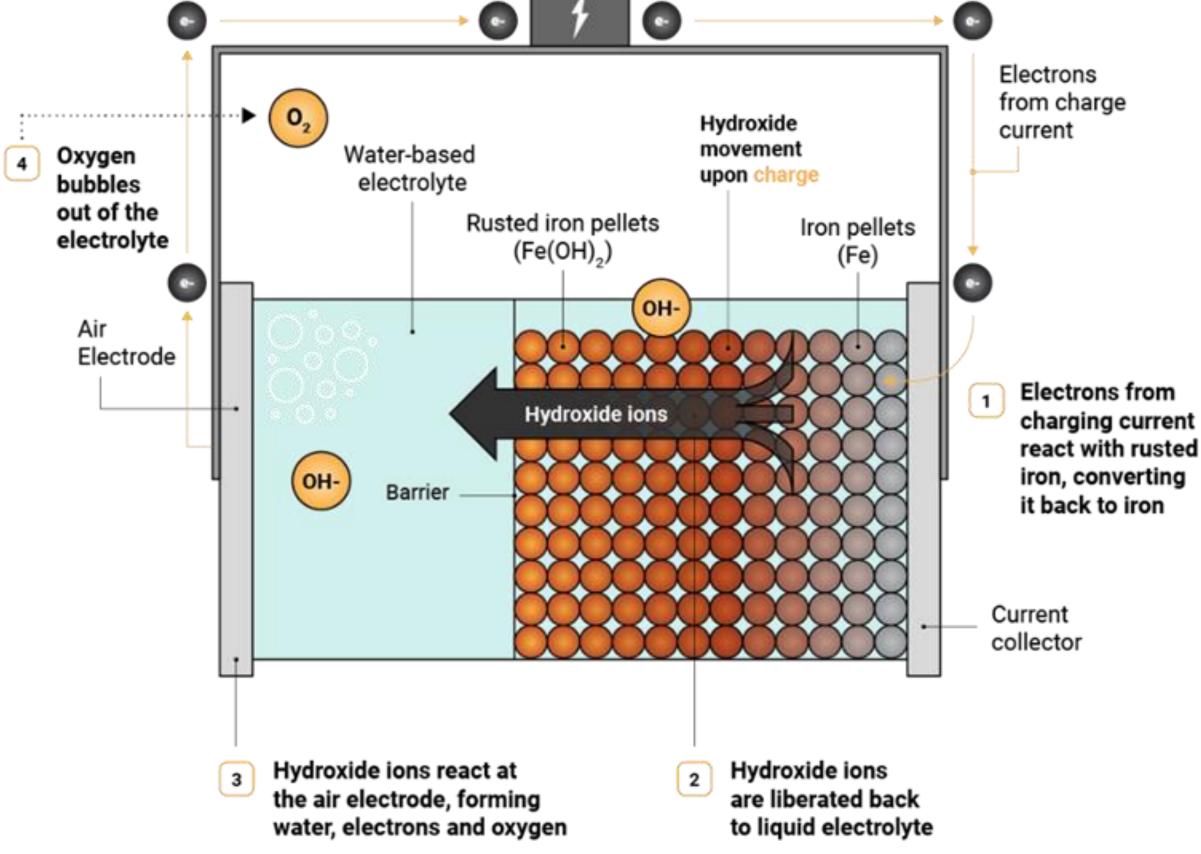
Iron electrode durability proven through decades of life and 1000's of cycles



Iron-Air Principle of Operation: "Reversible Rust"

Discharge _____ Charge ____





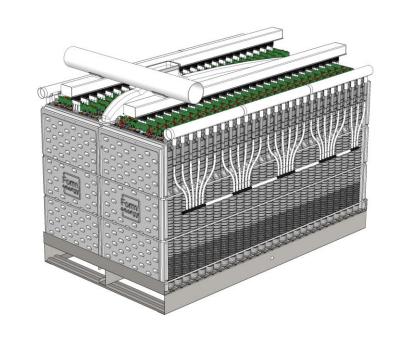
Form

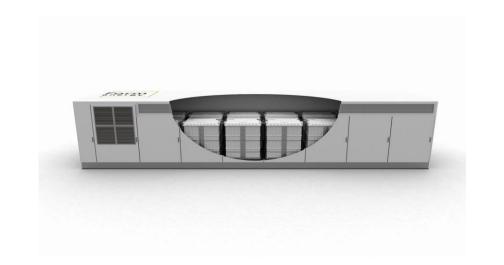
What makes up a Form Energy system

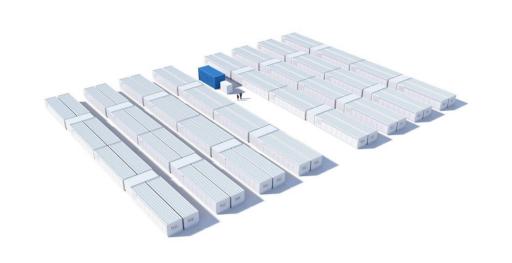
Modular design enables easy scaling to GWh systems

Cell Enclosure Power Block Battery Module System











~0.10 kW / 10 kWh

~1m x 60 cm

Electrodes + Electrolyte

Smallest **Electrochemical Functional Unit**

~5 kW / 500 kWh

~2.3 x 1.3 x 1.3m

~50 Cells

Smallest Building Block of **DC** Power

~50 kW

8.6' x 40'

~10 Modules

Product Building Block with integrated module auxiliary systems

~3.5 MW / 350 MWh

<2 acres

~50 - 100 **Enclosures**

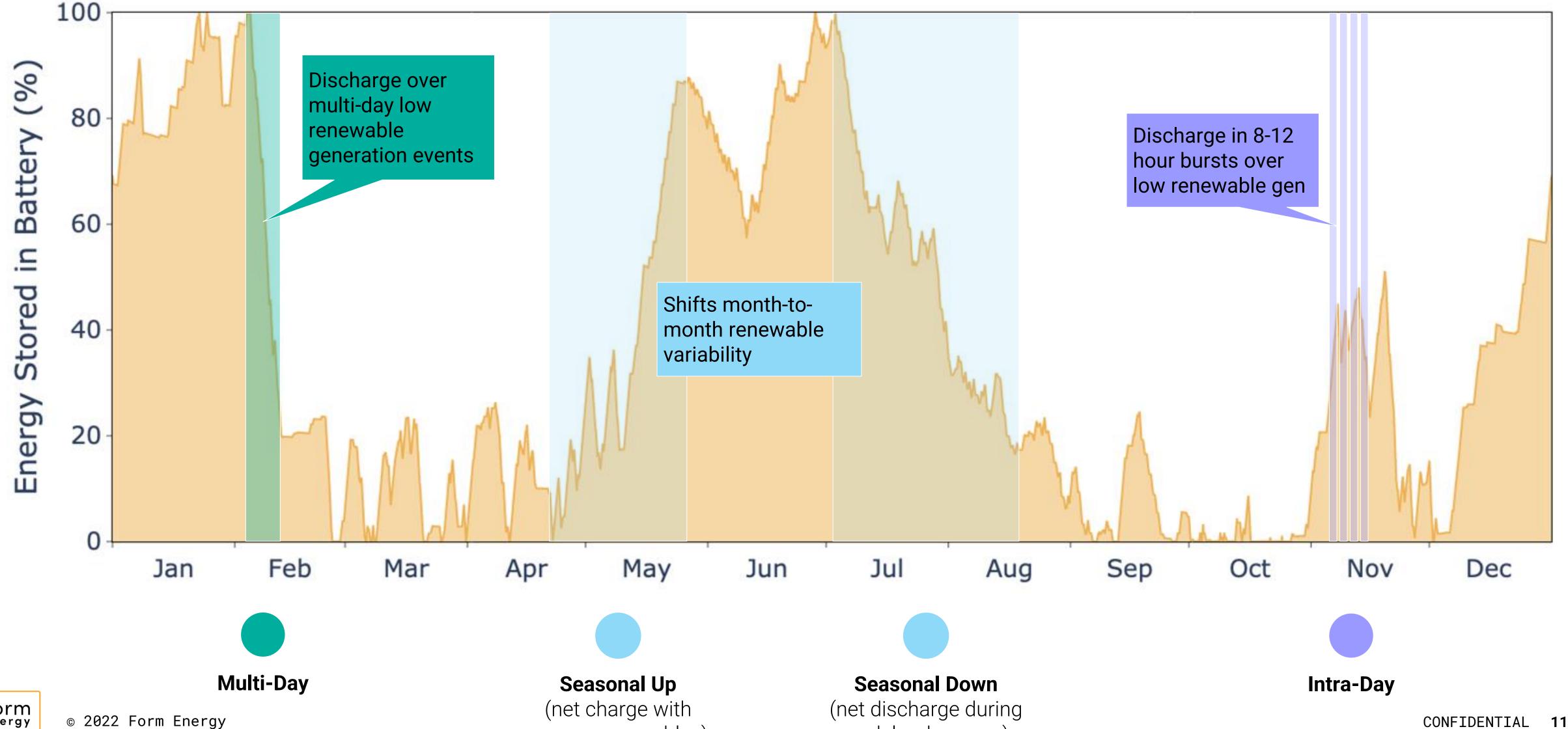
Smallest independent system and AC Power building block 100+ MW / 10 GWh

50+ acres

10s - 100s of Power Blocks

Commercial Intent System

Multi-Day Storage operates year-round to balance seasonal, multiday, and intra-day variability in renewables





Form Energy Multi-Day Storage delivers grid-scale reliable capacity year-round

System Overview

Rated AC System Power	10 - 500+ MW
System Capacity	1 - 50 GWh
Repeatable Power Block	3.5 MW / 350 MWh
Discharge Duration	100 hr
Overall Round Trip Efficiency*	35-38%
Annual Throughput Cycles	13
Self-Discharge at 10-100% SOC	1-10% month
Ramp Rate	< 10 minutes
Areal Energy Density	> 200 MWh/acre
Operating Temperature**	-40°C - 50°C
System Lifetime	20 years



^{*}System round-trip efficiency inclusive of losses from power conversion and auxiliary loads at full power

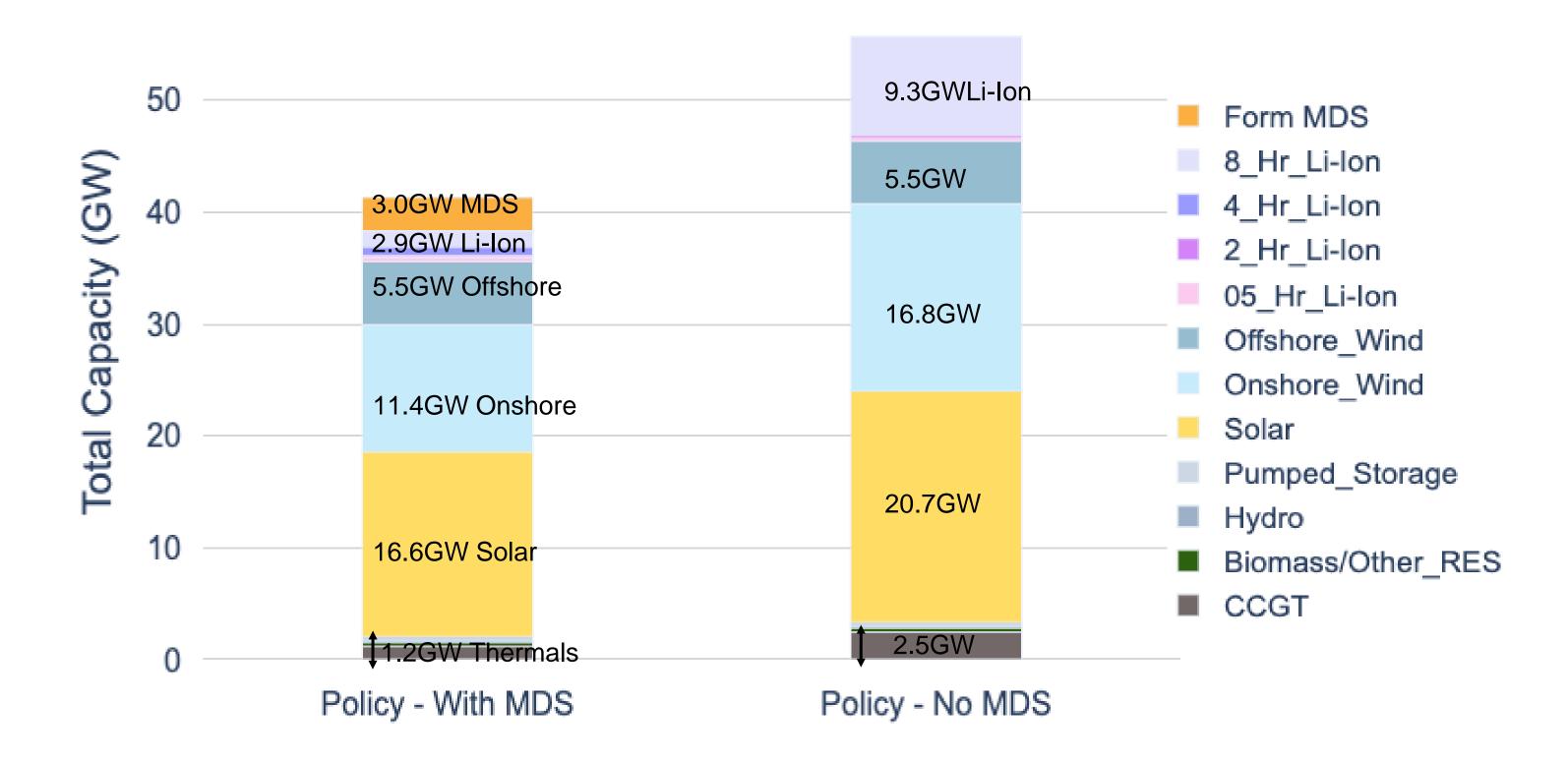


I-SEM - Policy Scenario



Form MDS vs No Form MDS: Form MDS replaces thermals and other storages

Policy Scenario, Capacities with and without Form MDS*

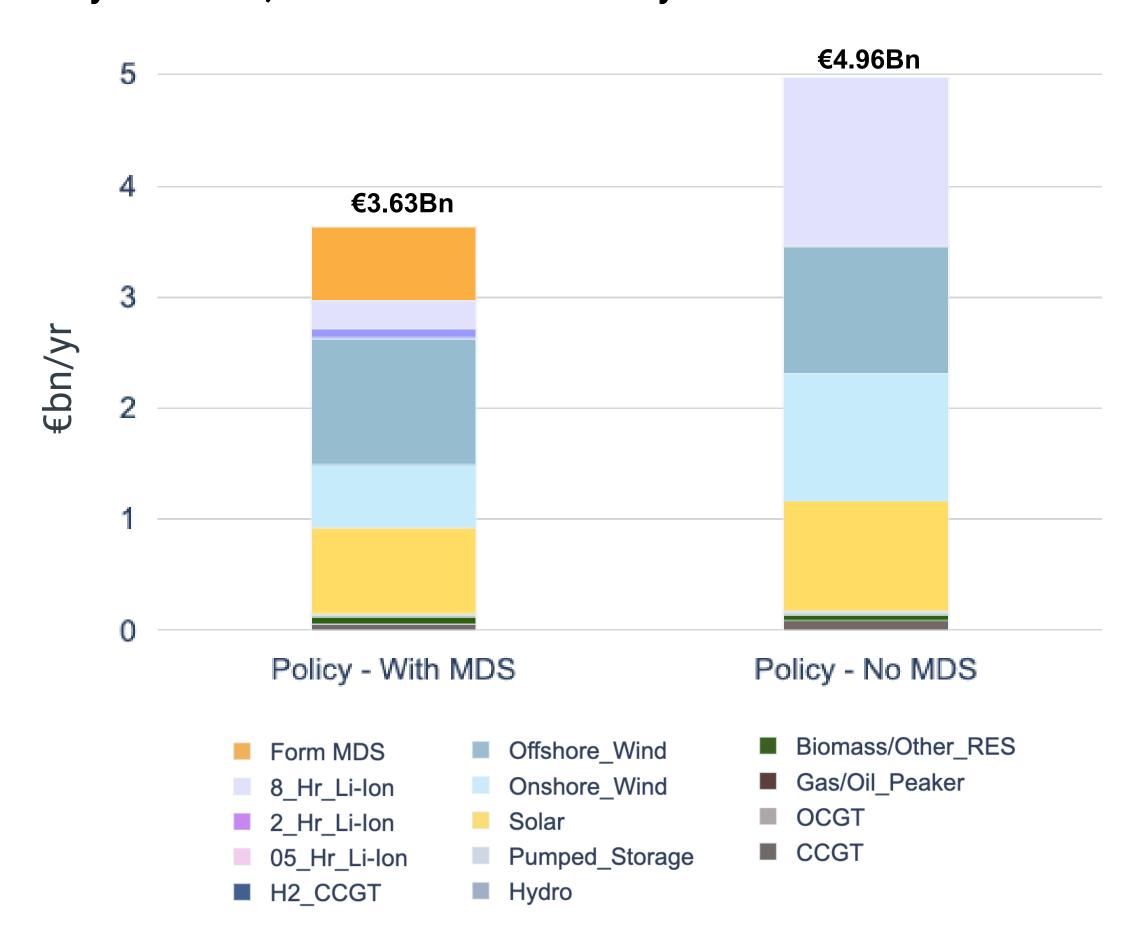


^{*} Form MDS cost, self-discharging and lifetime assumptions for COD2030 is used (see "Storage Assumptions" slide)



Form MDS vs No Form MDS: Cost of meeting 2030 renewable targets decreases in 2030 with Form MDS

Policy Scenario, Annualised resource system costs



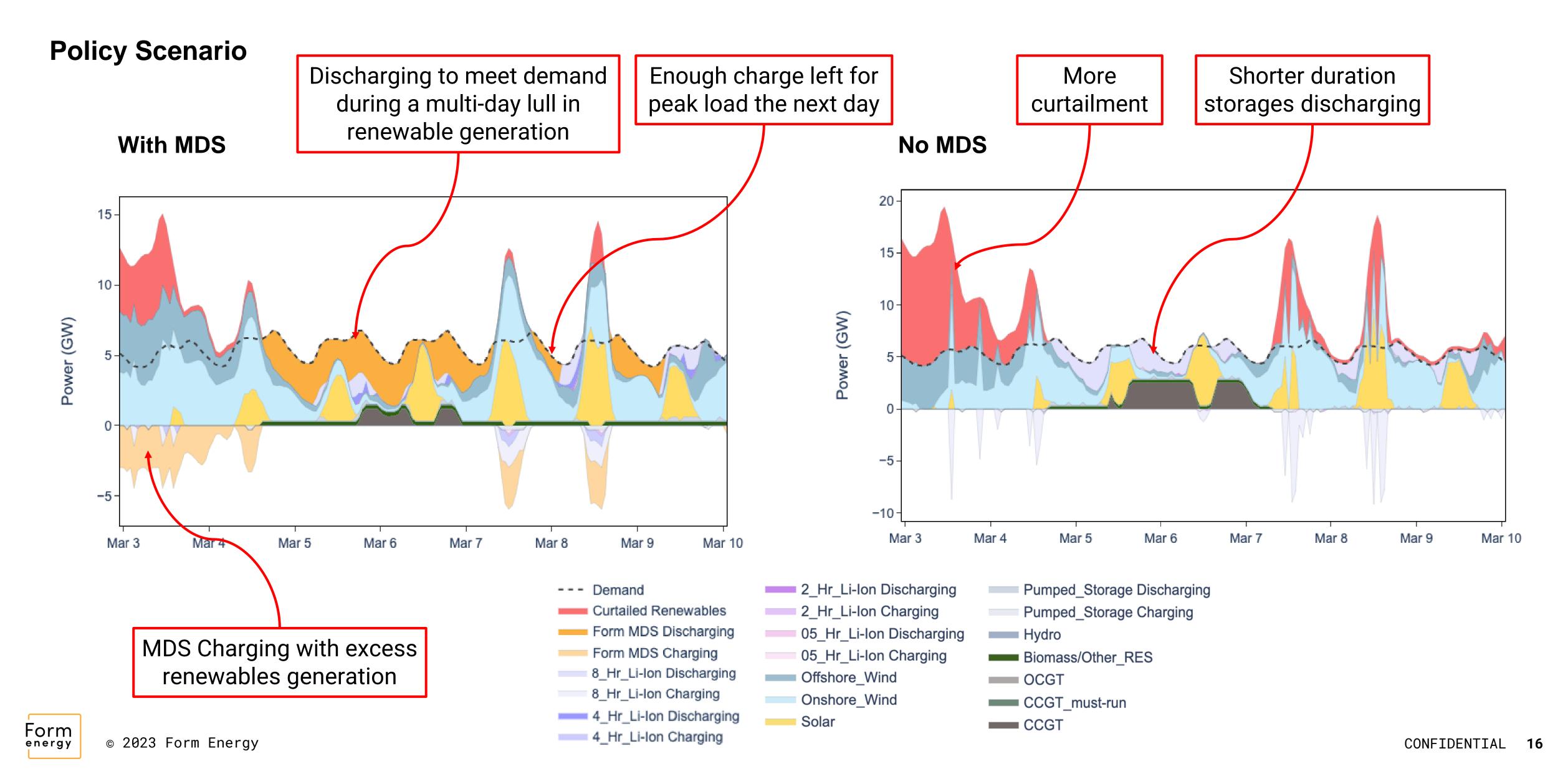
NPV of Form MDS system cost saving for 25-year period

Discount Rate	Policy
6%	€17.1Bn
8%	€14.3Bn
10%	€12.1Bn

Up to €17.1bn savings enabled by Form MDS capacity in the Policy scenario.

CONFIDENTIAL 15

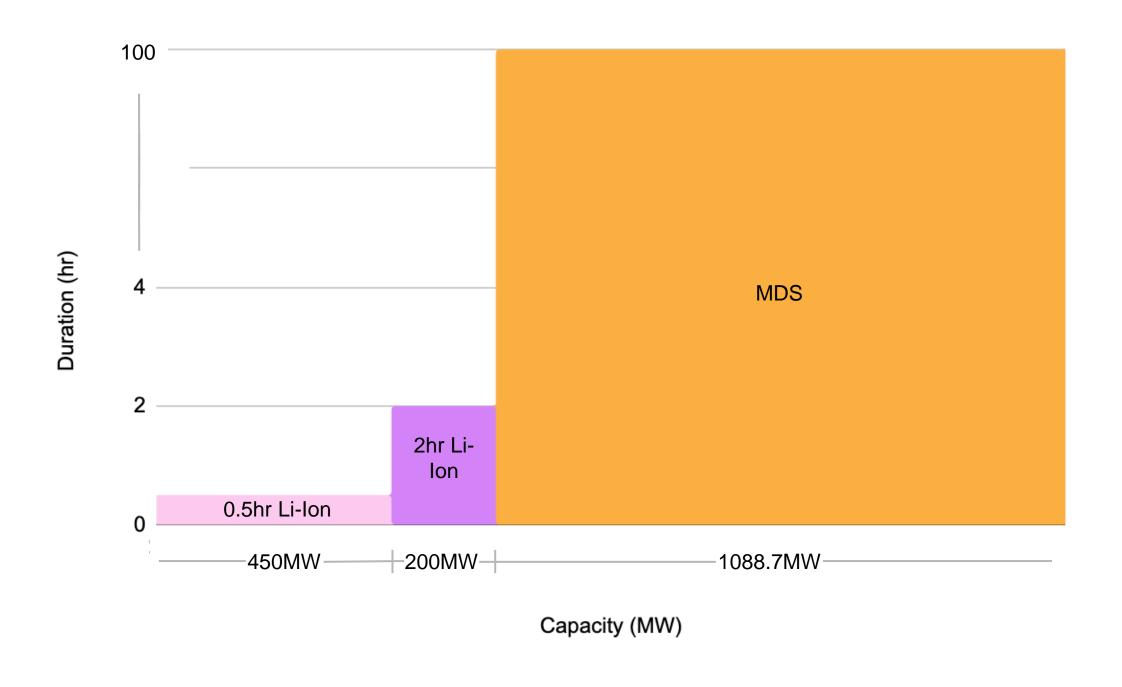
MDS replaces shorter duration storages and thermal



MDS vs Li-Ion

Duration vs Capacity

Base Scenario



Policy Scenario

