



Q3 2025 Earnings Presentation



November 2025

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Operating Highlights



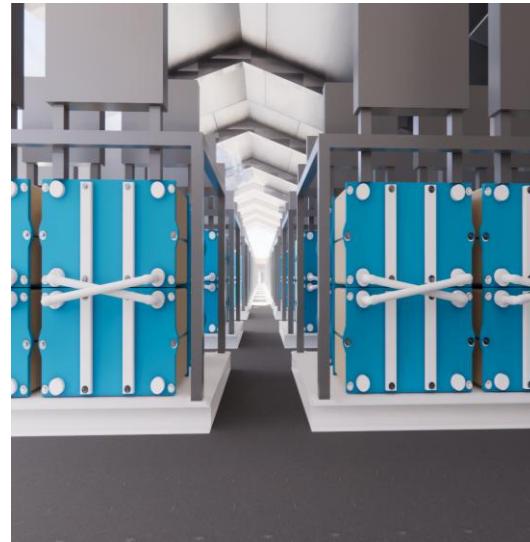
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New Product Launched: The Energy Base™

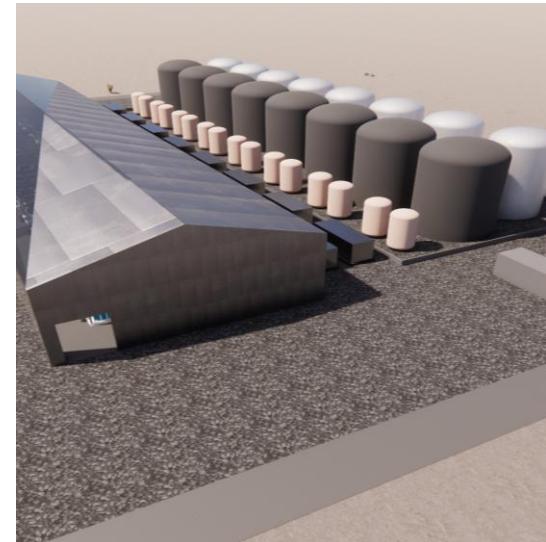
No Containers



Endless Flexibility



No Limits

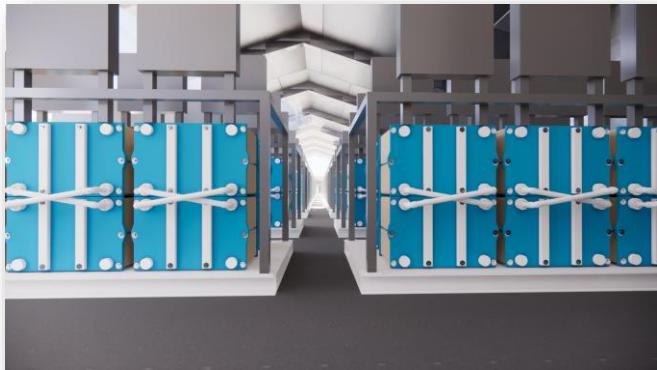


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The Energy Base: Powered by the Iron Core

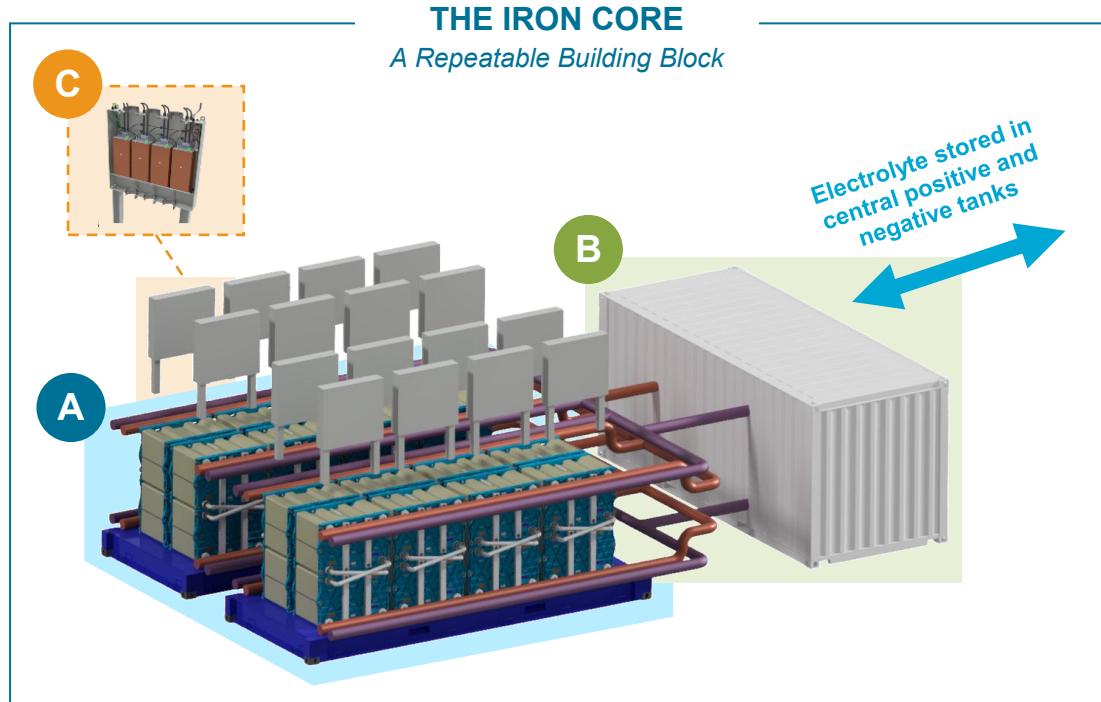
- At the heart of each Energy Base project is a **configurable set of modular powertrains, called the Iron Core**, engineered to deliver gigawatt-hour storage capacity for your next project.
- Built with our **proven iron flow battery modules and established core technology**, Energy Base projects powered by the Iron Core deliver decades of reliable, long-duration energy storage.



The Energy Base: Iron Core Building Blocks

Infinitely scalable to meet project size and specifications

- A Power Platform:** Existing iron flow battery modules, used in the Energy Center today, arranged in integrated skids for easy transport and installation
- B Rebalancing Module:** ESS patented electrolyte health system using proven “Proton Pump” technology
- C Electrical Cabinets:** Cabinetry for DC-DC converters, fusing and system wiring

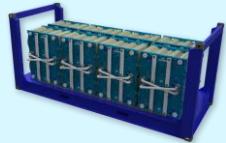


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The Energy Base: Product Strategy

ESS continues to manufacture core technology in-house while balance of system is procured directly from preferred vendors



Iron Core



Electrolyte



Design
Specifications

ESS manufacturers its core components and provides design specifications for a fully installed Energy Base

EPC & Developer Partners



Electrolyte
Tanks



Iron Core
Enclosure



Plumbing
& Mechanical

Balance of system and industry standard site equipment are procured from preferred vendors and shipped to site



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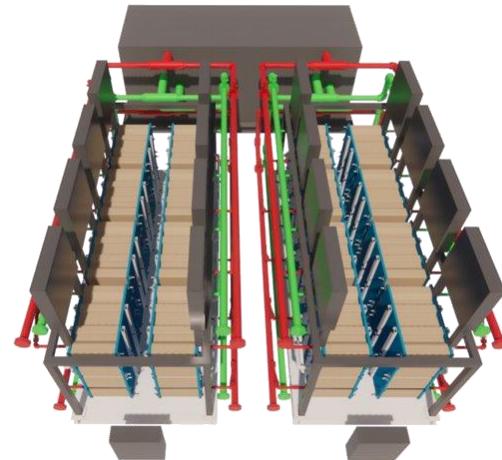
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The Energy Base: Honeywell Partnership

Relationship & Role

- ESS Investor and Customer; exploring product collaboration on the Energy Base
- Joint Development Agreement (illustrative projects)
 - Porous electrode
 - Efficiency enhancers
 - Fluid flow innovations (new pump types and routing)
- Procurement Leverage
 - New electrolyte vendors
 - New tank vendors and configurations
 - New pump and actuator vendors + vertical integration
- Testing Collaboration
 - Energy Warehouse operating to test limits in multiple use cases

Honeywell



Accelerating Scaled Design

Honeywell's expertise in fluid systems and modular engineering plans optimize ESS design for quality, cost-efficiency, and scale



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Extending Duration Up to 22 Hours with the Energy Base

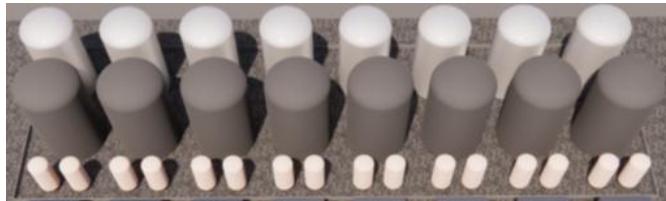
ESS can scale both duration and capacity independently to meet customer specifications using established core technology

Power Capacity (MW)



Capacity can be independently scaled simply by adding Iron Core modules

Duration (hours)



Duration can be independently scaled simply by adding electrolyte volume

- ESS iron flow battery modules are capable of storing up to 22 hours of energy, but previous product designs were constrained by standard container and electrolyte tank sizes, limiting duration to 8-10 hours
- By shifting from a standard shipping container to scalable enclosures and tanks, the Energy Base fully utilizes established core technology and can deliver 10+ to 22 hours of utility-scale power
- Extending duration unlocks several key advantages including:
 - Ability to deliver green baseload power when paired with carbon-free generation
 - Meaningful reduction in \$/kWh cost
 - Minimum energy density of ~80 MWh/acre for a 10-hour battery with ability to approach ~300 MWh/acre¹ – opportunity to further increase density with greater durations
 - Expanded addressable market to include data centers seeking Uninterruptible Power Supply (“UPS”), IPPs seeking to deliver green PPAs and utilities seeking to enhance grid resiliency following grid decarbonization



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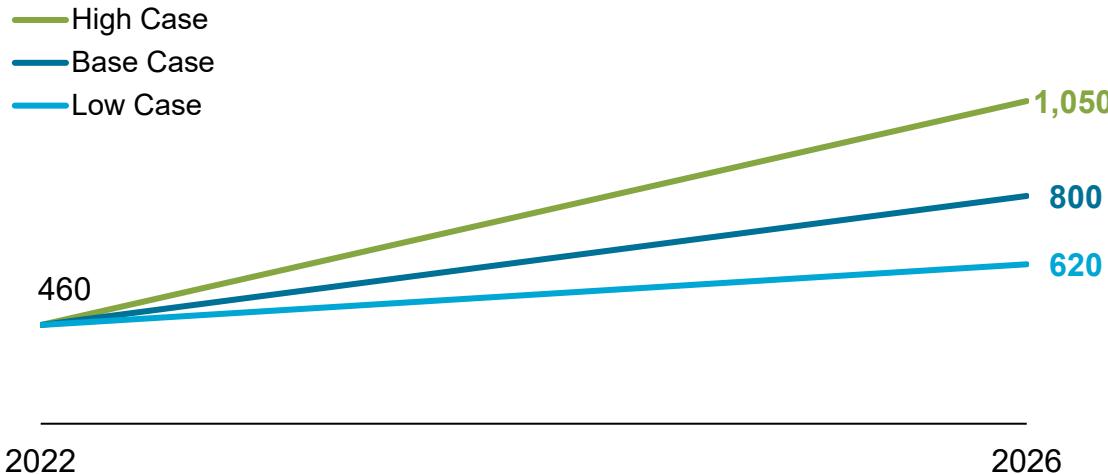
1. Depending on project site requirements

Rapidly Expanding Need for Storage Across Grid Operators & Hyperscalers

Market Need

High & Growing Need	<ul style="list-style-type: none">Data centers require safe, resilient and sustainable power delivery to ensure uptime (Uninterruptible Power Supply or "UPS")AI is driving unprecedented growth in energy demand
Current Solutions Fall Short	<ul style="list-style-type: none">Inadequate infrastructure is failing to meet demandPower disruption is now the leading cause of impactful data center outages
Time is an Enemy	<ul style="list-style-type: none">Speed to data center deployment is impeded by the 3-6 year lead time to expand grid capacity to prospective sites

Global Electricity Demand for Data Centers, AI and Cryptocurrency (TWh)^{1,2}



2022

2026

- Data centers used 4.4% of total U.S. electricity in 2023, growing to up to 12% by 2028²
- Data center usage estimated to grow to 800 TWh by 2026
- Puts extreme pressure on aging infrastructure, increasing risk of failure**



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1. Energy.gov DOE Report: 2024 Report on U.S. Data Center Energy Use

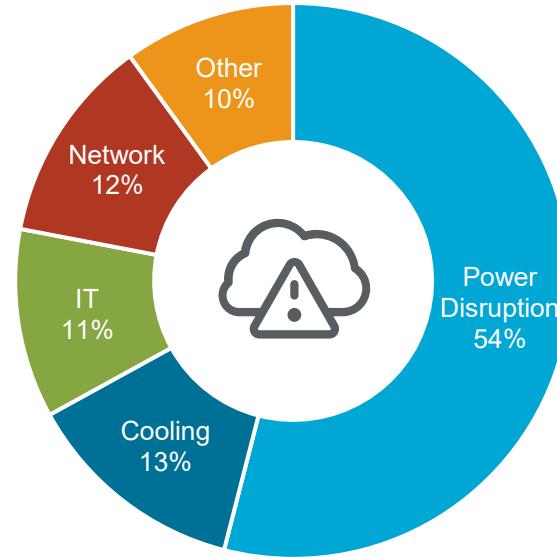
2. Statista <https://www.statista.com/topics/13055/data-center-power/#topicOverview>

ESS Products Meet Data Centers' Growing Electricity Needs

THE SOLUTION: ESS Energy Base™ (“EB”)

Enhances Grid Power Capacity & Resilience	<ul style="list-style-type: none">Enables fast deployment of additional grid capacity (solar + EB)Increases grid balancing and resilience of supply for data center customersProvides green power
Safer, Scalable, Sustainable & Cost-Effective	<ul style="list-style-type: none">Provides a safe, low latency, scalable, sustainable, and cost-effective alternative to gas generators and long Li-ion battery chainsDesigned for the UPS needs of AI data centers

Causes of Impactful Data Center Outages¹



More data center outages are caused by power disruption than all other causes combined



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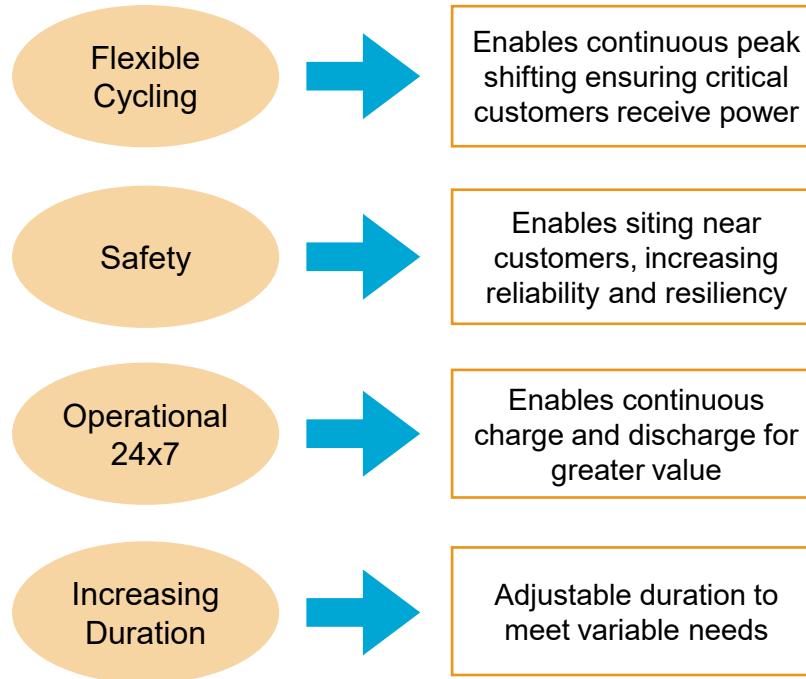
1. Uptime Institute Global Survey of IT and Data Center Managers 2024

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10

Tailored Solutions to Bring Value to Data Center Customers

ESS Data Center Value Proposition



Project Configuration Options

Standalone Iron-Flow Battery (“IFB”) Storage



Grid-tied long-duration storage to enhance grid resiliency and lower energy costs

Green Baseload: Carbon-Free Generation + IFB



Carbon-free generation resources, such as solar or wind, paired with IFB long-duration storage to provide green baseload power to a co-located data center

Carbon-Free Generation + IFB + Other BESS



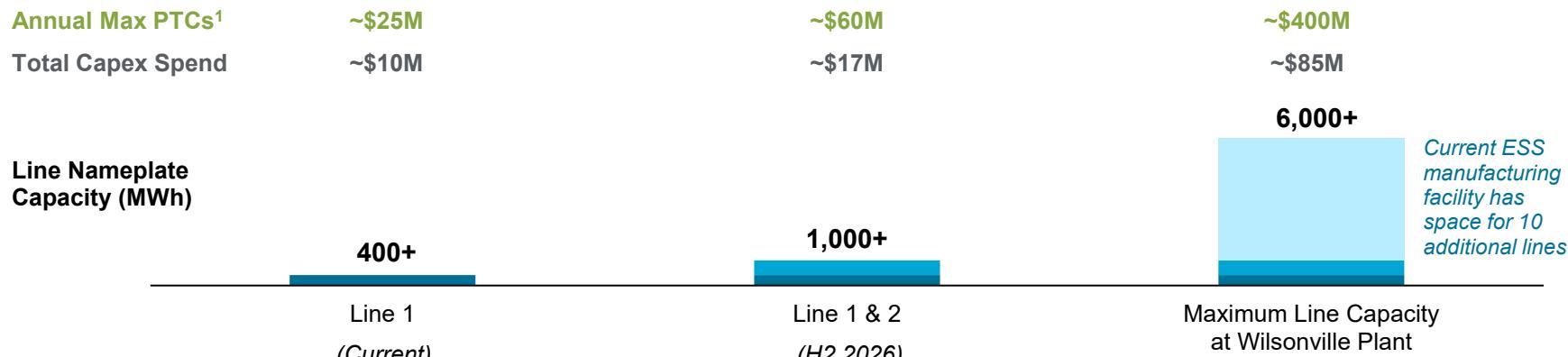
Green baseload power plant complemented by other storage technology (Li-ion, Zinc, etc.) to address short duration data center outages (< 4 hours)



Expansion of Wilsonville Manufacturing Capacity

Addition of new lines to meet customer demand supports mix shift towards more capital efficient and lower unit cost Energy Base product

- ESS is currently in the process of commissioning its second automated battery manufacturing line (“Line 2”) and will be online in H2 2026
- Capital efficiency improves dramatically as manufacturing shifts from ECs to EBs, allowing ESS to produce core components and procure balance of system directly to project site
 - Shifts manufacturing mix to higher margin components, lowers working capital burden and maximizes manufacturing plant footprint
 - While ECs require investment in both system and core component lines, EBs only require core component line spend, reducing capex per unit
 - Electrolyte manufacturing to transition from Wilsonville to project sites creating substantial logistics cost savings
- Moving from a semi-automated to a fully-automated manufacturing line increased labor productivity 2-3x on module manufacturing



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1. Assumes line output based on current overall equipment effectiveness

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12

ESS Superior Value Proposition vs. Li-ion

Several favorable attributes of ESS technology vs. Li-ion result in lower LCOS and costs to customers over the long-term



Competitive Upfront Installed Cost

DECLINING EQUIPMENT COSTS

Stack optimization, lower electrolyte costs, in-house electrode development and downstream reduction of power electronics are expected to materially reduce system costs in the near-term

INVESTMENT TAX CREDIT

ESS products are 98% domestically sourced & 100% domestically manufactured, qualifying for the domestic content ITC adder. Further, ESS is insulated against any new domestic content requirements for claiming the base 30% credit

LI-ION TARIFFS

Li-ion equipment is set to face outsized tariffs (>100%) under the second Trump administration due to heavy reliance on Chinese sourcing



Ongoing Ownership Advantages

STRONGER CAPACITY PROFILE

ESS iron flow batteries can be operated with maximum flexibility with zero capacity fade, while Li-ion batteries experience 2%+ annual capacity degradation and steep battery augmentation costs even when operated within warranty limits

GREATER DEPTH OF DISCHARGE

Ability to discharge 100% of an iron flow battery's capacity without concern for accelerated degradation or voided warranties, allowing for substantially more discharged energy vs. Li-ion competitors over a project's life

CHARGE & DISCHARGE FLEXIBILITY

ESS iron flow batteries can infinitely and instantly switch between charge and discharge profiles, without the accelerated degradation associated with Li-ion, to take advantage of favorable energy pricing, provide grid resiliency or respond to an unpredictable power shortage



Superior Operating Characteristics

25+ YEAR LIFE

ESS iron flow batteries have at least a 25-year useful life with unlimited cycling and zero capacity degradation

WIDE OPERATING TEMPERATURE RANGE

Rated for use from -40°C to 50°C with any additional heating or cooling requirements limited to electronics in extreme environments

NO THERMAL RUNAWAY

ESS iron flow batteries are non-flammable which reduces project risk, creates a density advantage in some jurisdictions, and allows for broader siting and use cases



Financial Results



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Q3 2025 Results

(\$ in millions)	Q3 2025	Q3 2024	Change (%)
Revenue	\$0.2	\$0.4	(40%)
Gross Profit (Loss)	(\$4.7)	(\$12.4)	62%
Operating Expenses	\$5.1	\$11.3	(55%)
Profit (Loss) from Operations	(\$9.8)	(\$23.7)	59%
Net Income (Loss) and Comprehensive Income (Loss) to Common Stockholders	(\$10.4)	(\$22.5)	54%
Net Loss per Share – Basic and Diluted	(\$0.73)	(\$1.90)	62%
Adjusted EBITDA	(\$7.1)	(\$18.9)	62%

Q3 2025 Highlights

Continued reductions in cost of revenue and operating expenses reflective of cost reduction efforts

Significant reduction in operating cash burn rate
– down 53% from Q2 2025



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15

Reconciliation of Q3 2025 GAAP Net Loss to Adjusted EBITDA

<i>(\$ in thousands)</i>	Three Months Ended September 30, 2025	Three Months Ended September 30, 2024
Net loss	(\$10,375)	(\$22,493)
Interest (expense) income, net	456	(807)
Stock-based compensation	1,041	2,658
Depreciation and amortization	1,486	781
Gain on revaluation of common stock warrant liabilities	-	(343)
Environmental, Health & Safety compliance estimate	-	390
Financing costs	114	983
Other income (expense), net	108	(39)
Adjusted EBITDA	(\$7,170)	(\$18,870)



Cash & Financing: Q3 2025

(\$ in millions)	9/30/2025	6/30/2025	Change
Cash ¹ & Investments	3.5	0.8	2.7
Other Liquid Assets			
A/R	0.1	0.1	-
Inventory	4.7	4.7	-
Total	8.3	5.6	2.7

Cash & Financing Update

- Significant reduction in operating cash burn rate – down approximately 50% from Q2 2025
- In July, launched \$25M Standby Equity Purchase Agreement (SEPA)
 - Raised \$3.6M during Q3 2025 and \$21.4M in October to complete the SEPA
- In October, completed a \$40M financing with Yorkville and repaid \$15M through SEPA proceeds
- Launched \$75M at-the-market program on November 13th to efficiently access and deploy capital as needed



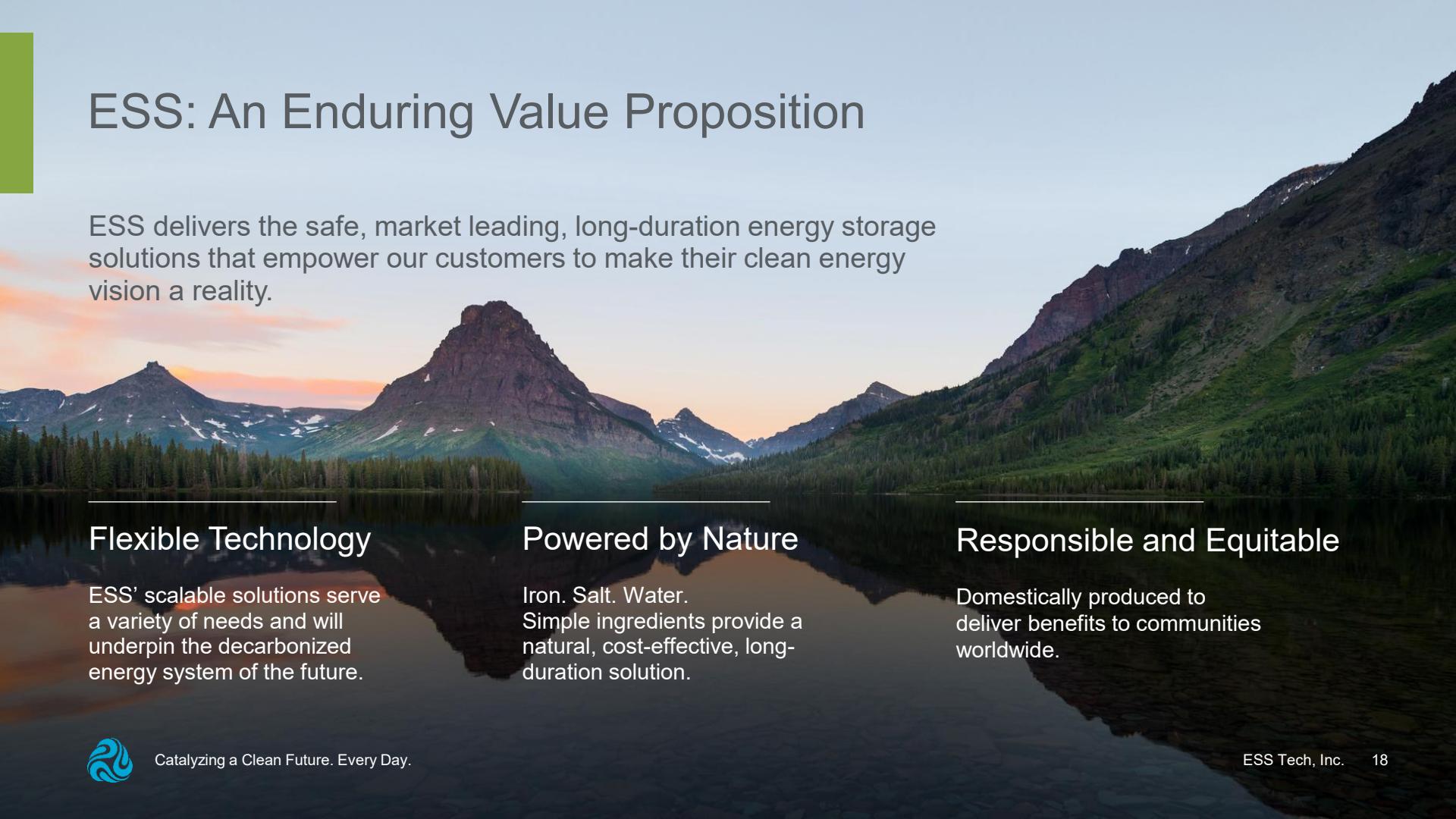
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1. Reflects unrestricted cash balance

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| 17

ESS: An Enduring Value Proposition



ESS delivers the safe, market leading, long-duration energy storage solutions that empower our customers to make their clean energy vision a reality.

Flexible Technology

ESS' scalable solutions serve a variety of needs and will underpin the decarbonized energy system of the future.

Powered by Nature

Iron. Salt. Water.
Simple ingredients provide a natural, cost-effective, long-duration solution.

Responsible and Equitable

Domestically produced to deliver benefits to communities worldwide.



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18

A large industrial facility with blue cabinets and machinery.

Thank You