UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Date of Report (Date of earliest event reported): October 20, 2020

B. RILEY PRINCIPAL MERGER CORP. II

(Exact name of registrant as specified in its charter)

Delaware	001-39291	84-4290188
(State or other jurisdiction of incorporation)	(Commission File Number)	(IRS Employer Identification No.)
of incorporation)		identification No.)
	299 Park Avenue, 21st Floor	
	New York, NY 10171	
(Ac	ddress of principal executive offices, including zip code)	
Registra	ant's telephone number, including area code: (212) 457-3300	
	Not Applicable	
(For	mer name or former address, if changed since last report)	
Check the appropriate box below if the Form 8-K filing is intended to s	imultaneously satisfy the filing obligation of the registrant ur	nder any of the following provisions:
$\hfill \Box$ Written communications pursuant to Rule 425 under the Securities	Act (17 CFR 230.425)	
☐ Soliciting material pursuant to Rule 14a-12 under the Exchange Ad	et (17 CFR 240.14a-12)	
☐ Pre-commencement communications pursuant to Rule 14d-2(b) un	der the Exchange Act (17 CFR 240.14d-2(b))	
☐ Pre-commencement communications pursuant to Rule 13e-4(c) und	der the Exchange Act (17 CFR 240.13e-4(c))	
Se	ecurities registered pursuant to Section 12(b) of the Act:	
Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Units, each consisting of one share of Class A common stock and or of one redeemable warrant	ne-half BMRG.U	The New York Stock Exchange
Class A common stock, par value \$0.0001 per share	BMRG	The New York Stock Exchange
Warrants, each whole warrant exercisable to purchase one share of	f Class BMRG WS	The New York Stock Exchange
A common stock, each at an exercise price of \$11.50 per share		
Indicate by check mark whether the registrant is an emerging growth Exchange Act of 1934 ($\S240.12b-2$ of this chapter).	company as defined in Rule 405 of the Securities Act of 19	933 (§230.405 of this chapter) or Rule 12b-2 of the Securities
Emerging growth company ⊠		
If an emerging growth company, indicate by check mark if the registrar	it has elected not to use the extended transition period for cor	nplying with any new or revised financial accounting standards

provided pursuant to Section 13(a) of the Exchange Act. □

Item 7.01. Regulation FD Disclosure.

In connection with the previously announced business combination (the "business combination") between B. Riley Principal Merger Corp. II (the "Company") and Eos Energy Storage LLC ("Eos"), furnished as Exhibit 99.1 to this Current Report on Form 8-K and incorporated by reference herein is the investor presentation that was used by the Company and Eos at an analyst day held on October 20, 2020.

The information in this Item 7.01, including Exhibit 99.1, is furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to liabilities under that section, and shall not be deemed to be incorporated by reference into the filings of the Company under the Securities Act of 1933, as amended (the "Securities Act"), or the Exchange Act, regardless of any general incorporation language in such filings. This Current Report on Form 8-K will not be deemed an admission as to the materiality of any information of the information in this Item 7.01.

Additional Information and Where to Find It

In connection with the business combination, the Company filed a preliminary proxy statement, and intends to file a definitive proxy statement (the "Business Combination Proxy Statement"), with the U.S. Securities and Exchange Commission (the "SEC") containing a full description of the terms of the business combination.

Investors and security holders of the Company are advised to read the preliminary Business Combination Proxy Statement and any amendments thereto and, when available, the definitive Business Combination Proxy Statement, in each case filed in connection the business combination, as these materials will contain important information about the business combination. The definitive Business Combination Proxy Statement will be mailed to the Company's stockholders of record as of a record date to be established for the special meeting of stockholders relating to the business combination. Stockholders will also be able to obtain copies of the Business Combination Proxy Statement, without charge, once available, at the SEC's website at www.sec.gov or by directing a request to: B. Riley Principal Merger Corp. II, 299 Park Avenue, 21st Floor, New York, NY 10171.

Forward Looking Statements

Certain statements made in this Current Report on Form 8-K are "forward looking statements" within the meaning of the "safe harbor" provisions of the United States Private Securities Litigation Reform Act of 1995. When used in this Current Report on Form 8-K, the words "estimates," "projected," "expects," "anticipates," "forecasts," "plans," "intends," "believes," "seeks," "may," "will," "should," "future," "propose" and variations of these words or similar expressions (or the negative versions of such words or expressions) are intended to identify forward-looking statements. These forward-looking statements are not guarantees of future performance, conditions or results, and involve a number of known and unknown risks, uncertainties, assumptions and other important factors, many of which are outside the Company's control, that could cause actual results or outcomes to differ materially from those discussed in the forward-looking statements. Important factors, among others, that may affect actual results or outcomes include: the inability of the Company to enter into a definitive agreement with respect to the potential business combination or to complete the contemplated transactions with Eos; matters discovered by Eos or the Company as they complete their respective due diligence investigation of the other; the risk that the approval of the stockholders of the Company for the business combination is not obtained; the inability to recognize the anticipated benefits of the potential business combination, which may be affected by, among other things, the amount of funds available in the Company's trust account following any redemptions by the Company stockholders; the ability to meet Nasdaq's listing standards following the consummation of the transactions contemplated by the potential business combination; costs related to the potential business combination; and those factors discussed in the Business Combination Proxy Statement under the heading "Risk Factors," and other documents of the Company filed, or to be

Participants in the Solicitation

The Company and its directors and executive officers may be considered participants in the solicitation of proxies with respect to the business combination described herein under the rules of the SEC. Information about those directors and executive officers and a description of their interests in the Company is contained in the Business Combination Proxy Statement. These documents can be obtained free of charge from the sources indicated above.

Non-Solicitation

The disclosure herein is not a proxy statement or solicitation of a proxy, consent or authorization with respect to any securities or in respect of the potential business combination and shall not constitute an offer to sell or a solicitation of an offer to buy the securities of the Company, nor shall there be any sale of any such securities in any state or jurisdiction in which such offer, solicitation, or sale would be unlawful prior to registration or qualification under the securities laws of such state or jurisdiction. No offer of securities shall be made except by means of a definitive document.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

EXHIBIT INDEX

Exhibit No. Desc	escription
99.1 <u>Investigation</u>	vestor Presentation, dated October 20, 2020.

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

B. RILEY PRINCIPAL MERGER CORP. II

Dated: October 20, 2020

By: /s/ Daniel Shribman

Name: Daniel Shribman
Title: Chief Executive Officer and
Chief Financial Officer



Disclaimer

This presentation does not opport to contain all of the Information that may be required to available a possible voting or investment decision with respect to 8. Piles Phrinosal Merger Corp II (1906-PAIII). The exploient agrees and authoroideges that this presentation in or interest action miles added to the decision by the respect to 8. Piles Printing all Merger Corp II (1906-PAIIII). The exploient agrees and authoroideges that this presentation in or interest and in the presentation or ownership, express or implied, is or will be given by ERPH II or Experting Stodage LLD (Tex-2) or any other respective Billiands, displayed, and present agrees the Billiands, displayed, and present agrees that the presentation of the present agree that the present

Important information About the Business Combination and Where to Find It
BPRM II, a publicly traded special purpose acquisition company, and Eos have entered into a definitive merger agreement for a business combination that would result in Eos becoming a publicly listed company. Upon closing of the transaction, the combined company will be renamed Eos Energy Storage, Inc. and irrends to list is shares of common stock on Nasdag under the beliese "problem TOSE". In connection with the business combination, BRFM II has filled a preliminary proxy statement with the United States Securities and Exchange Commission (TSEC") BRFM II stockholders and other intervested persons are advised to read, when available, the preliminary proxy statement and any amendments thereto and su, once available, the befinitive proxy statement, in connection with BRFM II is solidation of proxies for the meeting of stockholders to be held to approve, among other trainings. The Transaction, because the proxy statement will contain important information about ERFM III, Eos and the propped business commonation. When available, the definitive proxy statement will not the renamed Eos Energy Storage, Inc. and irrends to list in the renamed Eos Energy Storage, Inc. and irrends to list in the storage of the proxy statement will be made to the proxy statement and any amendments there on any other intervals contained to the proxy statement will be made to ERFM III sold collaboration and the renamed Eos Energy Storage, Inc. and irrends to list in the entire the proxy statement will be made to the proxy statement will be made to ERFM III sold collaboration and the entire the proxy statement will be made to ERFM III sold collaboration and the entire the proxy statement will be made to ERFM III sold collaboration and the entire the proxy statement will be made to ERFM III sold collaboration. The entire the proxy statement will be a statement will be made to ERFM III sold collaboration. The entire the entire the entire the entire the entire the entire t

Participants in the Solidations

BEPM II is stockholders with respect to the Transaction. A list of the names of those directors and executive officers may be deemed participants in the solicitations of proxies from BEPM II is stockholders with respect to the Transaction. A list of the names of those directors and executive officers and a description of their interests in BEPM II is contained in the preliminary proxy statement and will be included in the definitive proxy statement when available. Ecc and its directors and executive officers may also be deemed to be participants in the solicitation of proxies from the stockholders of BEPM II in connection with the Transaction.

Forward-Looking Statements and investment Considerations
This presentation includes "forward-looking attainments" within the meaning of the "sale harbor" provisions of the Private Securities Litigation Reform Act of 1996. BRPM II's and Eos's edual results may differ from their expectations, estimates and projections and consequently, you should not rely on these boward-looking statements statements as precisions of future events. Words such as "expect," "estimate", "project," "budget," "entend", "plan", "well", "could", "should", "believes," "predicts", "potential", "continue", and similar expressions are intended to identify such floward-looking statements include, without initiation, BRFM II's and Eos's sepectations with respect to Luture performance and entitipated financial impacts of the Transaction, the satisfaction of closing conditions to the Transaction and the timing of the completion of the Transaction. These forward-looking statements involve significant risks and uncertainties that could cause the actual results to differ materially from the expected results.

Factors that may cause such differences include, but are not limited to: (1) the inability of BRPM II to enter into a definitive agreement with respect to the Transaction or to complete the Transaction (2) matters discovered by BRPM II or Eos as they complete their respective due diligence investigations of each other, (3) the outcome of any legal proceedings that may be instituted against BRPM II or Eos following announcement of the Transaction, (1) the risk that the announcement or consummation of the Transaction disrupts current plans and operations; (5) the inability to recognize the anticipated benefits of the Transaction, (7) changes in the applicable laws or regulations; and (8) other risks and uncertainties indicated from time to time in BRPM II actions that the foregoing list of factors is not exclusive and not to place undure reliance upon any forward-looking statements, which speak only as of the date made. Neither BRPM II not Eos undertakes or accepts any obligation to release publicly any updates or revisions to any forward-looking statements to reflect any change in events, conditions or circumstances on which any obstatement is based.

Industry and Market Data
In this presentation, we rely on and refer to information and statistics regarding market participants in the sectors in which Eos competes and other industry data. We obtained this information and statistics from third party sources, including reports by market research firms and company Filings

Trademarks
This presentation may contain trademarks, service marks, trade names and copyrights of other companies, which are the property of their respective owners. Solely for convenience, some of the trademarks, service marks, trade names and copyrights referred to in this presentation may be listed without the TM, SM © or ® symbols, but BRPM II and Eos will assent, the fullest extent under applicable law, the rights of the applicable owners, if any, to these trademarks, service marks, trade names and copyrights.

No Offer or Solicitation
This presentation shall not constitute a solicitation of a proxy, consent or authorization with respect of any securities or in respect of the Transaction. This presentation shall also not constitute a solicitation of a proxy, consent or authorization with respect to any securities or in respect of the Transaction. This presentation shall also not constitute a solicitation of an offer to buy any securities, nor shall there be any sale of securities in any states or jurisdictions in which such offers, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction. No offering of securities shall be made except by means of a prospectus meeting the requirements of section 10 of the Securities Act of 1933, as amended.

Use of Projections
This presentation also contains certain financial forecasts of Eos, which were prepared in good faith on a basis believed to be reasonable. Such financial forecasts have not been prepared in conformity with GAAP. Neither BFPM II's nor Eos's independent, auditors have studied, reviewed, compiled or performed any procedures with respect to the purpose of this presentation. These projections for the purpose of this presentation. These projections for the purpose of this presentation, and accordingly, neither of them expressed an opinion or provided any other form of assurance with respect the three purpose of this presentation. These projections are for illustrative purposes only and should not be relied upon as being necessarily indicative of future results. In this presentation, certain of the above-mentioned projected information has been providing companions with historical data. The assumptions and estimates underlying the prospective financial information and competitive insteads are customers. As a financial information in the prospective information in the prospective financial information in this presentation should not be regarded as a representation by any person that the results contained in the prospective financial information in this presentation should not be regarded as a representation by any person that the results contained in the prospective financial information in this presentation should not be regarded as a representation by any person that the results contained in the prospective financial information in this presentation information in this presentation information in the prospective financial information i

Use of Non-GAAP Financial Measures
This presentation includes non-GAAP Institution (EBITDA, EBICH) if and Explosive that these non-GAAP measures are useful to investors for two principal reasons, 1) these measures may assist investors in comparing performance over verticus apporting periodic on a consistent basis by removing from more and 2) these measures are useful by Early investors for two principal reasons, 1) these measures in principal reasons in comparing performance over verticus apporting periodic on a consistent basis by removing from more and periodic on a consistent basis by removing from more and periodic on a consistent basis by removing from more and periodic on a consistent basis by removing from more and periodic on a consistent basis by removing from more and periodic on a consistent basis by removing from the periodic on a consistent basis by removing from the periodic on a consistent basis by removing from the periodic on a consistent basis by removing from the periodic on a consistent basis by removing from the periodic on a consistent basis by removing from the periodic on a consistent basis by removing from more and periodic on a consistent basis by removing from more and periodic on a consistent basis by removing from the periodic on a material by the periodic on a consistent basis by removing from the periodic on a consistent basis by removing from the periodic on a material by the periodic on a consistent basis by removing from the periodic on a consistent basis by removing from the periodic on a consistent basis by removing from the periodic on a consistent basis by removing from the periodic on the periodi



Participating Management



Dan ShribmanCEO of B. Riley Principal Merger
Corp. II and Chief Investment Officer
of B. Riley Financial



Russ Stidolph Chairman of the Board



Joe Mastrangelo Chief Executive Officer



Nathan McCormick Senior Vice President, Operations



Daniel Friberg

Senior Vice President, Technology

Vice President, Research & Development



Sagar C. Kurada Chief Financial Officer

Francis Richey



Agenda

+ Welcome, Transaction Overview Dan Shribman

+ Addressable Market Russ Stidolph

+ Company Overview Joe Mastrangelo

+ Technology Evolution Francis Richey

+ Product Development Daniel Friberg

+ Supply Chain Readiness Nathan McCormick

+ Pipeline and Growth Strategy Joe Mastrangelo

Financial Overview Sagar Kurada

+ Questions & Answers Management Team



Transaction Overview



Dan ShribmanCEO of B. Riley Principal Merger Corp. II and Chief Investment Officer of B. Riley Financial



Transaction Overview

- 1. B. Riley Principal Merger Corp. II (NYSE:BMRG, "BRPM II") has entered into a definitive agreement to combine with Eos Energy Storage LLC ("Eos")
- 2. The combined company is expected to be capitalized with \$202m of new equity which will be used to support the build-out of incremental manufacturing capacity and accelerate the global sales pipeline1
- 3. Deal capitalization includes a \$40m equity commitment by B. Riley Financial
- Existing Eos investors are rolling forward 100% of their equity in Eos into the combined company
- 5. The Board will be comprised of 7 members including: Chairman Russ Stidolph, CEO Joe Mastrangelo and B. Riley Financial CIO Daniel Shribman
- 6. Seeking to close business combination with first day of new Eos trading mid - November, subject to BRPM II stockholder approval

	BRPM Cash Held In Trust	\$177
(\$mm)	Existing Eos Shareholders Roll	\$300
Sources (\$mm)	PIPE backstop	\$40
03	Total Sources	\$517
	Shares to Eviating Fee Shareholders	
	Shares to Existing Eos Shareholders	\$300 ³
\$mm)	Estimated Fees and Expenses	\$300 ³ \$15
Uses (\$mm)		

Based on fully diluted shares outstanding at \$10.00 share price. Excludes 9.08MM warrants outstanding, with a strike price of \$11.50 per share. Excludes 9.75MM earn-out shares. Assumes no redemption of BRPM II public shares.



⁽¹⁾ Based on fully diluted shares outstanding at \$10.00 share price. Excludes 9.08MM warrants outstanding, with a strike price of \$11.00 per share. Excludes 9.08MM earnants outstanding at strike price of \$11.00 per share. Excludes 9.08MM earnants outstanding, with a strike price of \$11.00 per share. Excludes 9.09MM earnants outstanding at strike price of \$11.00 per share. Excludes 9.09MM earnants outstanding at strike price of \$11.00 per share. Excludes 9.09MM earnants outstanding at strike price of \$11.00 per share. Excludes 9.09MM earnants outstanding at strike price of \$11.00 per share. Excludes 9.09MM earnants outstanding at \$10.00 per share. Excludes 9.09MM earnants outstanding at \$10.00 per share.

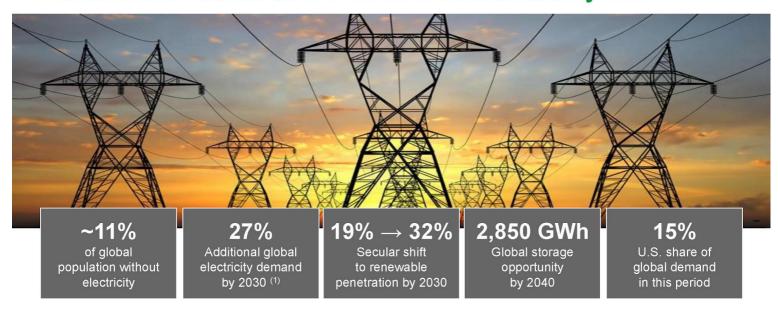
Investment Rationale

- 1. Battery storage is the main technology driving the energy storage market today.
- Energy storage provides flexibility and can enhance the reliability and resiliency of energy grid operations providing customer solutions.
- As renewable energy generation continues to grow, storage will play a critical role in balancing the variable output of wind and solar farms. Storage will can help to optimize renewable energy when there is excess generation and discharging energy when it is needed.
- 4. Recent public policies and regulations updates will help energy storage reach its full potential.
- Eos represents a safe, scalable, efficient, low cost and reliable alternative to Lithium-ion with over 10 years of proven research and development.
- 6. Experienced management team and a proven track-record of scaling business operations and growth





The World is Electrifying – Global Energy Storage Market Estimated to Attract \$660 Billion of Investment by 2040



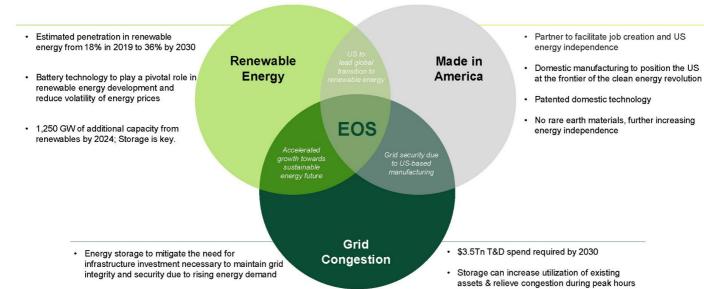
Eos. Positively ingenious.

Source: BNEF, U.S EIA, World Bank, United Nations.
(1) Represents incremental global electricity demand to 2030 divided by 2019 global electricity consumption.



US Energy Ecosystem at Inflection Point

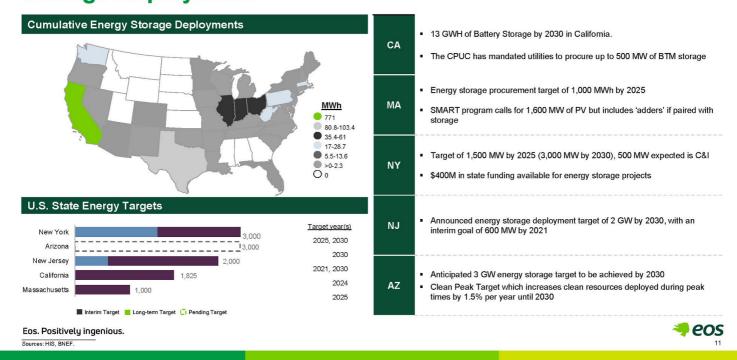
Energy storage to provide essential infrastructure for renewable energy proliferation and grid congestion management \$200bn+ total storage spend by 2030; Every 1% market share in 2030 = \$850m in revenue



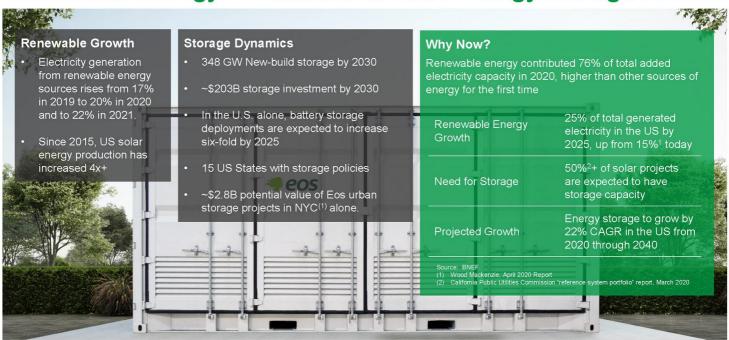
Source: BNEF; International Renewable Energy Agency; Solar Energy Industries Association Eos. Positively ingenious.



Regulatory Policy Acting as a Significant Tailwind for Energy Storage Deployment



Renewable Energy Penetration to Drive Energy Storage Growth



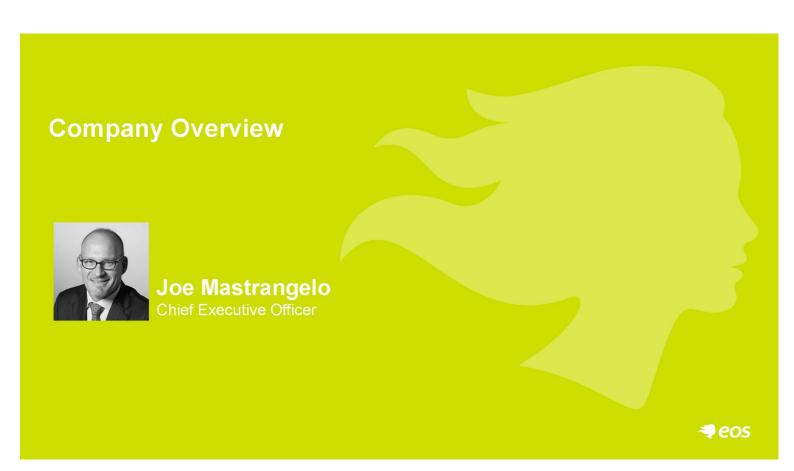
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-Source: BNEF, NYC Planning and October 2020 EIA Short-term Energy Outlook

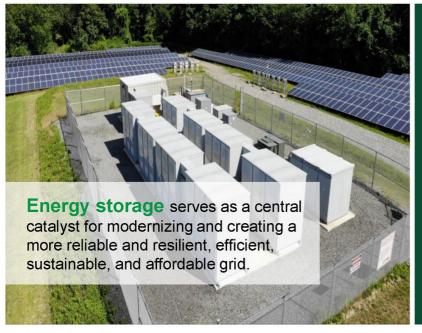
- 1) Assumes 10% Eos penetration rate for indoor urban storage projects in large NYC buildings with basements (~23,000).

Assumes Eos provides the DC system only (and one per building).





Eos Energy Storage System





Eos is powering the clean energy renaissance with a positively ingenious energy storage solution

- Global energy storage market estimated to grow 20% CAGR over 20 years
- Eos technology is optimized for the 4+ hour storage market
- Zinc electrolyte-based chemistry;
 No rare earth minerals required
- Fully recyclable, non-flammable, and non-toxic
- · Made in the USA



Leveraging Scalable, Smart, Safe Technology for a Best-in-**Class Commercial Battery Solution**

Eos Value Proposition



Simple

- Five core commodities in a simple configuration
- Zinc Bromine
- Titanium - Graphite Felt
- Plastic



Scalable

- 7-Easy steps of manufacturing
- 12 months or less set up time Readily available
- in other industries
- No supply chain constraints



Smart

- · Modular product configuration
- Easily integrated DC system
- Fully integrated battery management software stack



Safe

- thermal runaway Wide operating range from -20°. 45° C without **HVAC**



Sustainable

- Fully recyclable
- · No rare earths or conflict materials
- · Batteries can be refurbished, repackaged and resold



Commercial

- Asset saleAC or DC
- integration
- Financing / leasing Extended warranty
- After-market support
- Easy to maintain

Our technology is a next generation storage solution helping to advance a low carbon, more resilient and sustainable energy future.



Technology Evolution

Significant milestones achieved since inception

Gen. 1.0 commercial prototype





Gen. 2.0 beta system released



- Robust mechanical design
- BMS software & firmware
- Field operations
- Product certifications

Operating Gen. 2.0 projects

= SB Energy O PSEG





- Executed on 3 continents
- Operated from -10C to 50C without HVAC
- DC coupled solar to C&I installations

Gen. 2.3 program launch



- Containerization
- Plastics welding
- Material reduction
- Improved manufacturing yields
- Fully recyclable

Gen. 3.0 program launch



- Reduce footprint
- Low cost of material
- Lower installation costs

2017 2018 2019 2020 2021+

Gen 1.0 performance	
Power	.5 kW
Energy	2.1 kWh
RTE	65-70%

Gen 2.0 performance	
Power	100 kW
Energy	300 kWh
RTE	70-75%

Gen 2.0 performance	
Power	100 kW
Energy	300 kWh
RTE	70-75%

Gen 2.3 performance	
Power	150 kW
Energy	600 kWh
RTE	75-80%

Gen 3.0 performance		
Power	175 kW	
Energy	700 kWh	
RTE	80%+	

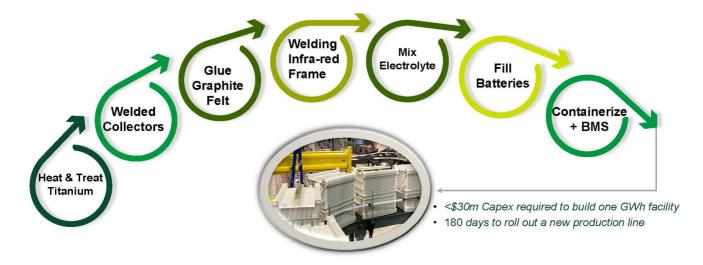
We are committed to continuous improvement and innovation.

Note: Performance of Gen 2.0 Beta has been validated by a third-party commissioned expert technical report. **Eos. Positively ingenious.**



Simple, Efficient, Modular & Scalable Manufacturing

Company plans to have 7+ GWh of production capacity by 2024



Eos' highly scalable manufacturing platform can be localized anywhere in the world in <12 months for less than ~\$30m.

Note: Holtec, a leading nuclear & power equipment maker is a strategic investor in Eos, and its JV partner in Pittsburgh; Eos maintains optionality on wholly-owned manufacturing facility going forward Eos. Positively ingenious.



Lower Customer Risk, Increased ROI, Added Safety

Improved performance resulting in ~30% reduction in levelized cost of storage



Eos: Can charge and discharge at different rates depending on changing use cases Li-ion: Charge and Discharge rates are fixed at the start. and can degrade life if not used as rated

Ride Through Grid Outages

Eos: Continue charging even when AC grid is down Li-ion: Cannot operate without grid power

↑ Availability

Wide Operating Temperature Range

Eos: Flat performance curve from 20 to 45°C; no need for HVAC

Li-ion: Restricted to 25°C ± 5°C requires HVAC and fire suppression

CapEx Savings

Low Maintenance

Eos: Simple fans, no fire suppression, recovers from 90°C+ abuse cycles

Li-ion: HVAC and fire suppression, requires maintenance CapEx \$1/kWh/yr

Opex Savings

Minimal Auxiliary Load

Eos: Fans represent 1.5% of delivered energy Li-ion: HVAC represents 8% of delivered energy

> \$2/kWh/yr Opex Savings

cy) is defined as the amount of energy retained in the storage system from the original DC input and supplied thereafter to a DC / AC system during discharge Eos. Positively ingenious.

No Supply Chain Constraints

Eos: Widely available commodities and off-the-shelf

Li-ion: Limited supply of Lithium and Cobalt, competing demand from portables and EVs

<6 month lead time

Flat Degradation Curve

Eos: 1.8% / year loss of energy; 20+ year life Li-ion: 2.5% / year loss of energy; 12 year life

> \$3/kWh/yr Opex Savings

Fully Recyclable

Eos: All components are recyclable, salvage value of 30% of cost

Li-ion: non-recyclable components, \$8/kWh disposable cost

NPV Savings



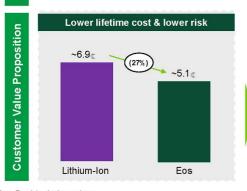
Robust Long-Term Value Proposition to Customer







₹eos



Lower initial capital expenditure
 Lower lifetime operating cost
 Improved charging costs
 Minimal Auxiliary load losses

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Eos Technology Uses & Applications

Storage solution optimized for the critical 4+ hour global storage market; ideal for renewable plus storage and grid congestion applications

Market Segments **Value Proposition** Market Size **Pipeline Clients Application** · Shift renewable power to when the grid - 34,159 MVVh Co-location of battery needs it most storage with renewable MINUTE · Avoid curtailment and enable higher generation assets CAGR +35% vs. 2020 utilization of clean power assets · Ability to defer/mitigate infrastructure T&D deferral and Grid upgrade costs and minimize outages O PSEG Resilience · Provides easy to deploy generation 28,787 MWh capacity to load centers where it is Shaving peak loads and **conEdison** needed most - CAGR +33% vs. 2020 replace aging peaker · Store inexpensive electricity for use generation assets Carson Cogeneration Company, LP during peak hours Behind-the-meter energy management solutions at Shift peak demand needs to reduce • 15,405 MWh large commercial or electricity costs industrial sites Microgrid resiliency/backup power - CAGR +31% vs. 2020 Security Microgrid resiliency and OTOR OIL peak shifting

Eos technology enables its customers to advance their own sustainability, resiliency and low-carbon goals



Technology Evolution



Francis Richey
Vice President, Research & Development



What are the Key Characteristics of a Battery Storage System?



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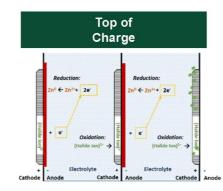


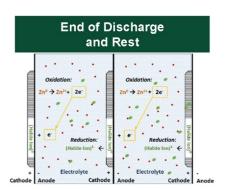
Eos Chemistry Overview

- ✓ Reversible zinc plating and halide redox with large aqueous electrolyte pool in a sealed bipolar battery
- ✓ Zn and Zn2+ accumulate at the anode Ti current collector
- ✓ Ha and Ha- accumulate at the cathode current collector

Chemical Inspiration: Zinc Plating Baths







To specifically design and build a battery for the utility; combining known chemistries and striving to simplify design, manufacturing, and system requirements

Eos. Positively ingenious.



Superior Technology Delivers Competitive Advantages Over Li-ion

Safer, environmentally friendly and cheaper energy storage solution





- √ Low cost aqueous zinc
- √ Unrestricted depth of discharge
- ✓ Flexible modular configurations, AC or DC coupled, outdoor or indoor
- √ Plug & play design with battery management system
- √ No rare earth material
- √ Fully recyclable
- √ No fire risk / thermal runaway
- √ Operating in extreme heat / cold
- √ 15 30yr. battery life
- √ Logged 10,000 operating hours in the field
- √ No sudden death
- √ Made in America (Pittsburgh, PA)
- √ No clean rooms needed
- √ Highly capital efficient and modular manufacturing
- √ Manufacturing platform deployable in <12 months anywhere in the world for less than \$30m (GWh/yr.)

Eos. Positively ingenious.

Lithium-ion battery technology



- Higher Maintenance & Capex costs due to HVAC and fire suppression
- Restricted depth of discharge at ~20%-80%
- · Better suited for EV markets
- Solar shifting use accelerates degradation
- · Flammable and toxic
- · Multiple recorded fire and/or explosion incidents
- · Extremely narrow temperature operating range
- · HVAC / fire suppression required
- Unsafe to dispose

BUILT TO LAST

MADE IN USA

SCALABLE

EARTH-FRIENDLY

- · Higher degradation at full discharge, reducing lifetime
- R&D focused mostly on the EV segment, optimizing battery performance for shorter duration discharge

Predominantly manufactured in China, Korea & Japan

- · Supply-chain bottlenecks
- · Higher upsizing system costs / Costly quality control
- · Significant scale required to deliver favorable unit economics



Battery Testing Facility in Edison, NJ

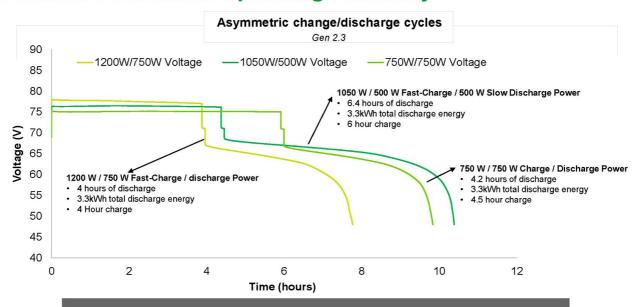
Eos Edison HQ Battery Test Lab Capabilities

- 60 programmable battery module channels
- 1,200 programmable lab cell channels
- 3 high temperature chambers
- 1 programmable environmental chamber
- 4 Energy Block System-ready Test Bays
- 960,000 cycles achieved since 2016
- >73 MWhr of discharged energy since 2016





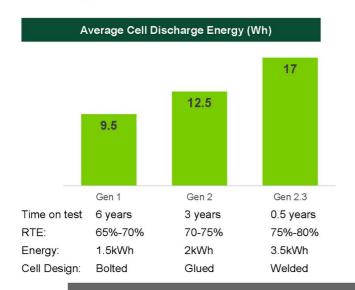
Eos Delivers Customer Operating Flexibility



Multiple use cases...same efficiency, discharge energy and cycle life



Technology Evolution



Fundamental Chemistry Unchanged

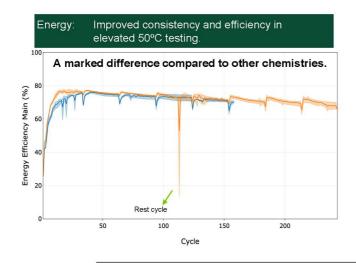
- 1) Improved mechanical design
 - Increased power density
 - higher operating temperature
- 2) Better raw material quality
 - No custom components
 - Stronger QA/QC processes
- 3) Increased manufacturing consistency
 - Plastic welding
 - Process automation

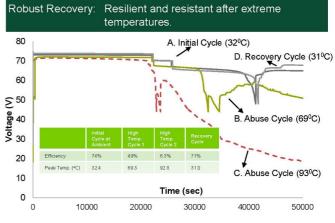
~10 years of testing that delivers improved performance with long cycle life

Eos. Positively ingenious.



Safe Operation in Aggressive Environments – Elevated Temperature Testing



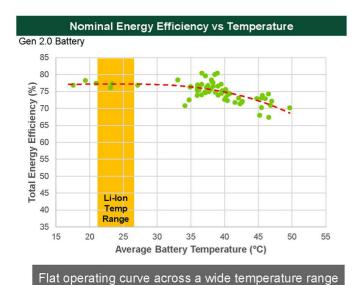


Battery is extremely resilient to aggressive environments and recovers after extreme temperature abuse testing, without the need for HVAC

Eos. Positively ingenious.



Eos Battery Outperforms Li-Ion in Extreme Temperatures



* Efficiency values vary due to use case variations in operation of the systems Eos. Positively ingenious.

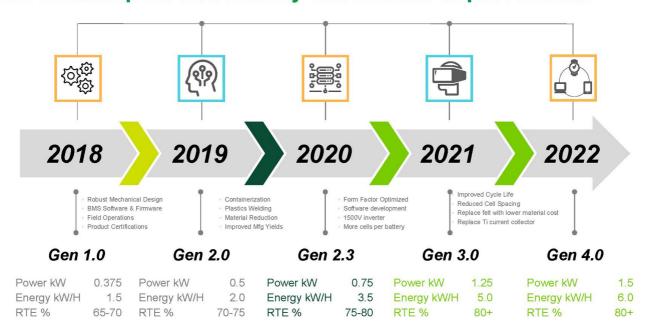
Demonstrable Characteristics

- Eos system has been tested over temperature ranges up to 50°C ambient
 - Wide temperature range from -12°C (NJ) to 48°C (India)
- · Eos rides through Grid Outages
- Minimal impact on depth of discharge, RTE or degradation at higher temperatures

Improved levelized cost of storage, safety and reliability



Clear Roadmap for Eos Battery Incremental Improvements



Eos. Positively ingenious.





Typical DC System Configuration & Layout Options



Flexible Storage Configurations to Fit Customer Needs



Containerized (10MW = 0.5 acres)

- · Outdoor rated configuration
- · Can be double stacked
- Arrives fully assembled from Eos factory



PowerHouse (10MW = 0.15 acres)

- Indoor racking configuration
- Suitable to optimize foot print
- Improved aesthetic look



Indoor Urban 10MW = (15,000 sqft)

- · Designed to meet FDNY requirements
- Utilize space inside large urban buildings

All Eos energy storage systems are protected and monitored by Eos' proprietary Battery Management System



Global Deployments with Industry Leaders







Case Study 1: Duke Energy

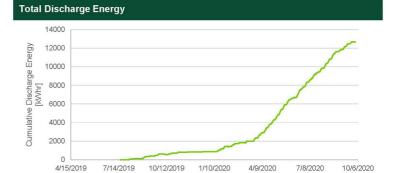
Project Overview



Project Highlights

- DC Coupled with customers PV system
- Installation to operation in 30 days
- COD: July 2019
- · Peak Efficiency: 73%
- Discharge Time: 3 5.5 hours
- System Auxiliary Load: 0.3 0.4 kW

Eos. Positively ingenious.



1/10/2020

4/9/2020

7/8/2020

Customer Feedback

- · Eos claim of 100% use of SOC verified
- · Simplicity of Eos design decreases operating cost
- O&M costs estimated to be 35% lower (no HVAC), low aux. losses.

10/12/2019

- · No fire risk a significant benefit
- Recycle/disposal at end of life is a significant advantage as Lithium disposal is an
- \$2/MWh LCOS advantage relative to Li-lon
- "I can't hear it" There is no noise generated by Eos system



10/6/2020

Case Study 2: Large Global IPP

Project Overview/System Specification Description One Aurora 2.0 Energy Stack supporting DC-coupled solar shifting at an existing 3MW solar plant Location Kurnool, India Size I Energy Stack, 6 Strings, 72 batteries March 2019 120 cycles performed, 9MWh delivered, 1,000+ hours of operation

Project Highlights						
Metric	Max	Min	Average			
Primary Power	29.93 kW	21.95 kW	27.91 kW			
Primary Discharge Duration	4.24 hr	2.32 hr	2.75 hr			
Secondary Power	14.39 kW	4.2 kW	7.88 kW			
Secondary Discharge Duration	12.74 hr	1.12 hr	3.98 hr			
Temperature	53.5 °C	33.8 °C	44.43 °C			
RTE	75.66%	69.20%	72.82%			



Lessons Learned / Product Improvements				
Lesson Learned	Subsequent Product Improvement			
Overseas Deployment	 Developed operational capabilities to deploy and support product overseas Executed "Make in India" strategy implementing onsite battery filling and integration 			
High Temperature Performance	 Demonstrated that batteries are safe and resilient even when reaching temperatures as high as 70 °C Removed outer shells and upgraded ventilation to provide additional cooling Routinely operating at ambient temperatures as high as 45 °C 			



Case Study 3: SDG&E

Project Overview

100 kVV

300 kW

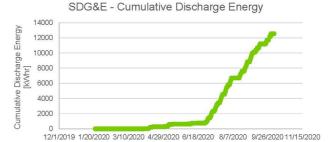
Grid Connected Eos Aurora



Project Highlights

- · Grid connected at SDG&E Pala substation
- COD: Jan 2020
- · Full operation was delayed due to COVID in the spring
- Average Efficiency: 73%
- Discharge Time: 3 5.5 hours
- · Wholesale Arbitrage use case demonstration

Total Discharge Energy



Observations

- Successfully operated by SDG&E during rolling blackouts in August September
- Eos battery system successfully responded to all high priority dispatch by SDG&E
- Customer Feedback Eos battery system was able to operate where other battery systems in the same substation failed to operate during rolling blackouts.
- SDG&E preparing site for a new Eos Gen 2.3 system.



Positive Performance of Eos Battery Over Strenuous UL Testing Standards

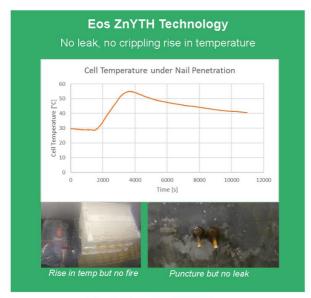
Eos is in the process of getting product safety UL certifications complete for:

- UL 1973: "Standard for Safety, for Stationary Applications"
- UL 9540A: "Standard for Safety for Thermal Runaway", represents harshest abuse testing

Test Type/Description	Test Type/Description Eos Performance		Eos Next Steps	
Over Discharge: Discharge to zero voltage	✓ None✓ Ready for continued operation	Permanent damage/capacity loss, current collector dissolution	Test Performed Successfully, Awaiting UL Acceptance	
2½" Nail Penetration: Inject nail through battery case, causing cell short	✓ 25°C temperature rise	Short circuit, Flame, thermal runaway (varies with cell Li-ion chemistry)	Test Performed successfully, Awaiting UL Acceptance	
200% Overcharge: Charge battery indefinitely to about 200% nominal charge	✓ Battery reaches 90°C, No Flame, no explosion; electrolyte/steam release at terminals and gas channel	Lithium plating on anode, thermal runaway, fire explosion. Requires expensive overcharge protection electronics	Test Performed, Adjust Gas Channel Cover and Pressure Relief to improve gas channel seal. Awaiting UL analysis of gas sample collected	
Battery Short Circuit: Connect + & – terminals together while battery is fully charged resulting in >20x nominal current	✓ Battery reaches 80°C and 425 amps of peak current, No Flame, no explosion; steam release at terminals and gas channel	Flame, thermal runaway, explosion (varies with cell type)	Test Performed, Adjust Gas Channel Cover and Pressure Relief to improve gas channel seal	

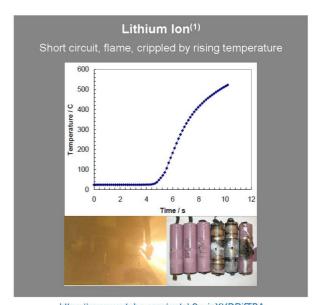


Nail Penetration Test



https://youtu.be/ilkyKX1WSIU

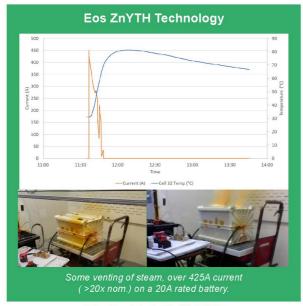
(1) Source: TIAX LLC es142_sriramulu_2013_p.pdf



https://www.youtube.com/watch?v=jnXYDRifTBA



Short Circuit Test



https://youtu.be/oGUnS5y9KMM

(1) Source: University Of Maryland



https://www.youtube.com/watch?v=HCGtRgBUHX8

>	Lesson Learned	Eos Product Improvements
	Venting of water steam from cover	Battery cover seal will be adjusted to prevent steam escape Adjust pressure relief valve that will control steam outflow



Supply Chain Readiness



Nathan McCormick
Senior Vice President, Operations



Eos Manufacturing Facility

In joint venture partnership with Holtec

Created HI-POWER to Deliver a 'Made in USA' Product



1.5 GWh/year production in North America

- Dedicated Manufacturing joint venture, HI-POWER, established with Holtec International
- \$2-3bn privately held company and leading equipment supplier to the nuclear industry

Production started - Fully prepared to Scale

Note: Performance of Gen 2.0 Beta has been validated by a third-party commissioned expert technical report **Eos. Positively ingenious.**

HI-POWER Scaling to Demand

Capacity Growth Lead Times

- Supply Base capacitated for ramp up w/ <6-month lead time
- ~30 employees/line basic factory skill set, 3 months to hire, train and qualify









Eos Supply Chain Evolution in the Last 12 Months

Safer, environmentally friendly and cheaper energy storage solution

1. Launched US Manufacturing

- · Holtec: Signed 50/50 for manufacturing in the USA
- · 1 Fully automated and integrated facility
- 1.5 GWh Annual manufacturing capacity
- · 6 month lead time on delivery

2. Localized Supply

- Titanium: Rolled, Cleaned and Treated in Pennsylvania
- Battery Case/HDPE Frames: Molded in Michigan
- · Manufacturing: 100% at HI-POWER

3. Scaling for Growth

- Electrode Assembly: 2nd line operational in 1Q21
- Infra Red Welding: 2x capacity by year end, 4x by 1Q21
- · Robotic Welder Loading: Higher throughput, reduced cost

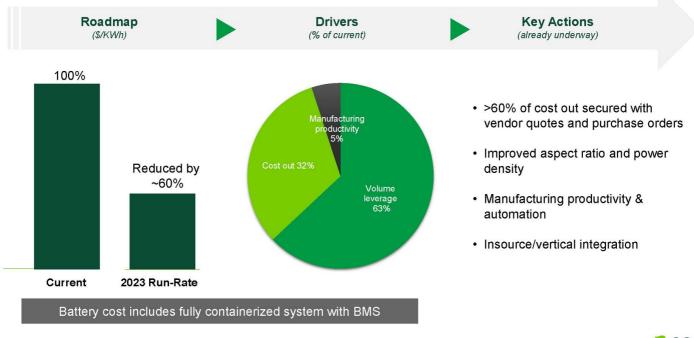
4. Process and Supply Improvements

- Graphitized Felt: Higher quality, more consistent supply
 - · 12% increase in discharge energy
 - 10% increase in energy efficiency
- Current Collector: Transitioned to Continuous Laser Weld
 - · 3% increase in efficiency
- · Titanium Plates: Improved plate to plate consistency
 - Optimized Furnace design/layout for higher conversion rate
 - · Automated sandblasting for consistency
- Battery Case: Shifted from Gluing to Infra-red Welding
 - · Wider operating temperature range
 - · Higher operating pressure tolerance
 - · More consistent depth of pool





Eos DC System Cost Roadmap





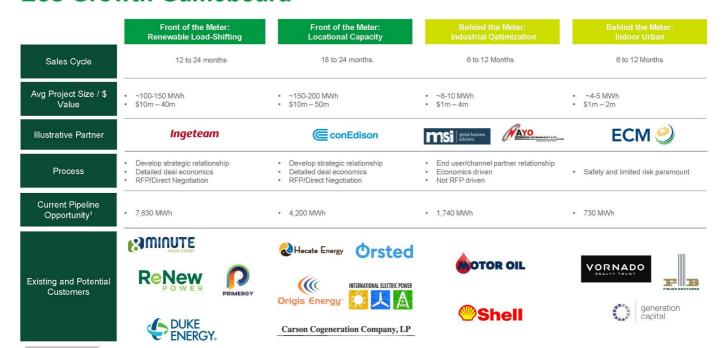
Pipeline and Growth Strategy



Joe Mastrangelo
Chief Executive Officer



Eos Growth Gameboard



(1) Based on management's estimates Eos. Positively ingenious.

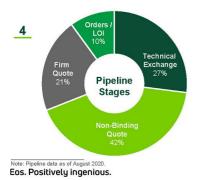


14.5 GWh Actively Managed Orders & Pipeline130+ potential clients engaged addressing short-term and medium-term priorities











- US centric focus on capture evolving secular trends
 Addressed Direct channel (FTM), large projects focused on longer delivery horizon
 Successfully delivered 1.5GWh signed LOIs

- Extend FTM relationships to deliver "follow-on" orders
 Focused on building BTM urban storage strategy
 Expand global presence



Pipeline Execution

1. Current Global Deployments

Project

PSE&G

Shell/BV

SDG&E

Softbank

Bryt

Duke

UCSD

<u>MWh</u>

1.2

0.6

0.2

0.1

0.1

3MWh

Delivered

3. Customer Commitments



Signed LOI's /

Commitments

1) Advance Opportunities, signing LOI in next 30-60 days √ Signed LOI's

Building operating references & orders backlog...Concert opportunities over next 6-9 month

Current



Sales Execution

Sales Volume (Shipments in MWh)

Eos's booked orders, LOIs and advanced opportunities of 3GWh providing ample of next two years sale targets



Solar integration

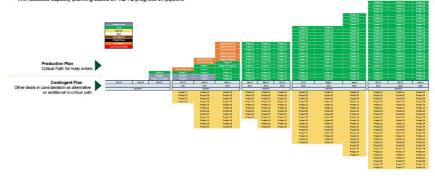
Eos. Positively ingenious.

Aligning Manufacturing & Maintaining Shipments in Line with Orders

Eos's operational and manufacturing team is working closely with sales personnel to accommodate customer orders and maintain timely shipment and delivery schedule

Building capacity in-line with pipeline expected delivery and commissioning:

- 3-month lead time for long lead direct materials / 6-month lead time for long lead CapEx
- Leverage deferred sales for safety stock/business continuity planning
- Will reassess capacity planning based on 4Q/1Q progress on pipeline







Applications Generate Multiple Revenue Streams



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Sales

Maintenance

Long-term
Service Contracts

Battery
Management
System
Performance
Performance
Manifesion

Ongoing Revenue

One-time Revenue



Projected Income Statement

\$m	2020	2021	2022	2023	2024 Base	2024 Growth
Sales Volume (MWh)	13	260	1,511	4,620	6,786	11,654
% growth		-	481.9%	205.7%	46.9%	152.2%
Total revenue	2.5	50.3	268.6	735.5	994.9	1,700.4
% growth	-	-	434.2%	173.8%	35.3%	131.2%
% market share	0.1%	0.9%	3.5%	7.1%	8.7%	14.9%
Total COGS	7.2	63.4	240.9	603.0	745.9	1,279.8
Gross profit	(4.7)	(13.1)	27.7	132.4	249.0	425.1
% gross margin	NM	NM	10.3%	18.0%	25.0%	25.0%
R&D	3.3	10.9	14.9	30.0	42.0	42.0
Other opex	5.3	9.9	18.8	58.2	72.8	100.6
Total opex	8.6	20.8	33.7	88.3	114.8	142.6
Income from JV	(0.8)	2.0	13.0	14.8	15.0	15.1
Adjusted EBITDA	(14.1)	(32.0)	7.0	58.8	149.2	297.6
% margin	NM	NM	2.6%	8.0%	15.0%	17.5%
Maintenance CapEx	0.1	0.5	1.5	3.5	4.1	6.5
% of revenue	4.0%	1.0%	0.6%	0.5%	0.4%	0.4%
Growth CapEx	5.1	9.9	71.2	31.0	4.0	16.0
% of revenue	205%	20%	27%	4%	0.4%	0.9%

- · Current asset pricing assumes a 10% annual price reduction, in line with BNEF forecast
- 88% of revenues represent sales of Eos Systems
- Ongoing revenue from current asset sales expected to grow as Eos footprint and installed base in market increases

Gross Margin rate

- Profitable in 1Q'22 with less than 3% market share captured
- Volume leverage, Technology roadmap and In-sourcing drive ongoing-productivity
- DC unit costs assumed to reach ~\$100/kWh by 2023+

Capital Expenditure

- \$97m invested in 3 manufacturing plants by 2024 / 7GWh annual production capacity
- Low investment risk given short investment lead time of <1 year
- CAPEX Plan includes additional \$34m to support all cost out actions and manufacturing productivity

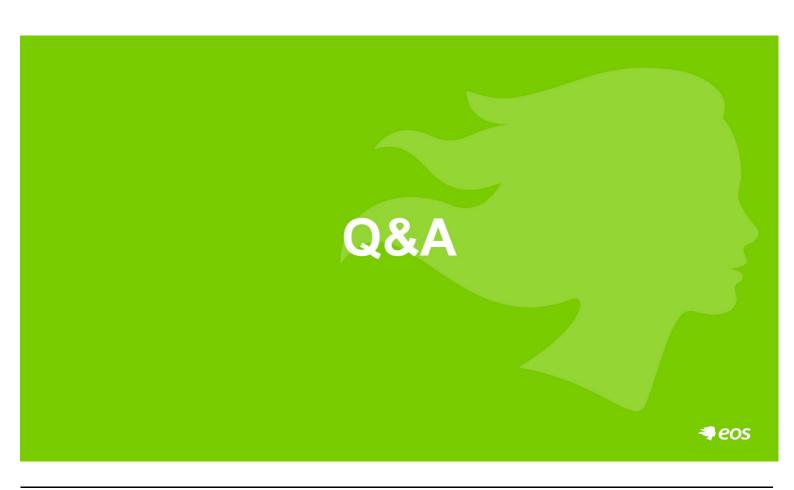


Positioned to succeed

- Energy storage an exponential growth opportunity ... a small share = a large company
- Storage shifting from frequency regulation (short duration) to firm capacity (long duration) ... From <2 to >4 hours driven by solar penetration
- Grid resiliency (extreme weather) requires improved safety and reliability ... non-flammable, non-toxic & fully recyclable
- Success requires a robust technology, low-cost product and scalable supply chain ... Experienced leadership in place

A strong team with clear priorities focused on delivering





Eos Energy Storage Investor Presentation October 2020

