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): November 12, 2019



ENERGY RECOVERY, INC.

(Exact Name of Registrant as Specified in its Charter)

Delaware (State or Other Jurisdiction of Incorporation) 001-34112 (Commission File Number) 01-0616867 (I.R.S. Employer Identification No.)

1717 Doolittle Drive, San Leandro, California 94577 (Address if Principal Executive Offices) (Zip Code)

510-483-7370 (Registrant's telephone number, including area code)

Not applicable (Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class Common stock, \$0.001 par value Trading Symbol(s) ERII

Name of each exchange on which registered Nasdaq Stock Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 or Rule 12b-2 of the Securities Exchange Act of 1934.

Emerging growth company \Box

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 7.01 Regulation FD Disclosure

The Company is furnishing with this report an investor presentation that will be used by the Company during meetings with investors and analysts. The presentation is attached hereto as Exhibit 99.1, which is incorporated herein by reference and will also be posted on our website at <u>http://www.energyrecovery.com</u>.

The Company is not undertaking to update this presentation. This report is not intended as a statement concerning the materiality of any information contained in the presentation.

The information furnished in this Item 7.01 shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that Section, nor shall such information be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

 Exhibit Number
 Description

 99.1
 Management Presentation.

SIGNATURE

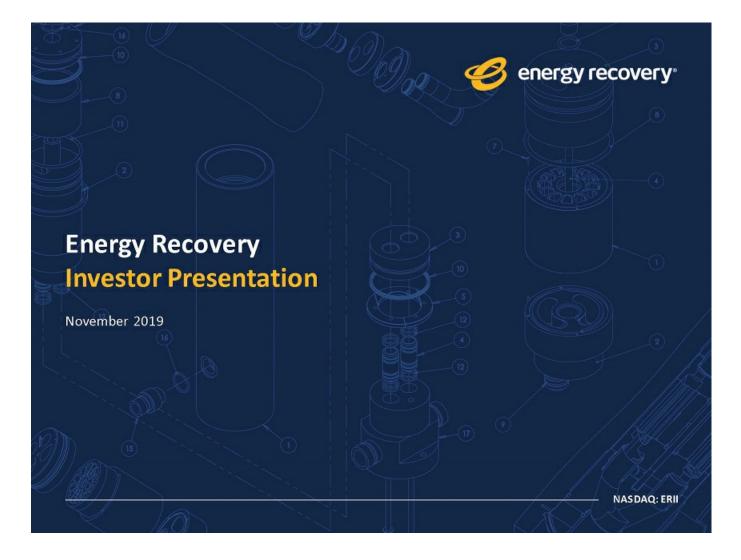
Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: November 12, 2019

Energy Recovery, Inc.

By: /s/ William Yeung

William Yeung General Counsel



This presentation contains forward-looking statements within the "Safe Harbor" provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements in this report include, but are not limited to, statements about our expectations, objectives, anticipations, plans, hopes, beliefs, intentions, or strategies regarding the future. Forward-looking statements that represent our current expectations about future events are based on assumptions and involve risks and uncertainties. If the risks or uncertainties occur or the assumptions prove incorrect, then our results may differ materially from those set forth or implied by the forward-looking statements. Our forward-looking statements are not guarantees of future performance or events. Words such as "expects," "anticipates," "believes," "estimates," variations of such words, and similar expressions are also intended to identify such forward-looking statements.

These forward-looking statements are subject to risks, uncertainties, and assumptions that are difficult to predict; therefore, actual results may differ materially and adversely from those expressed in any forward-looking statements. You should not place undue reliance on these forward-looking statements, which reflect management's opinions only as of the date of this presentation. All forward-looking statements included in this presentation are subject to certain risks and uncertainties, which could cause actual results to differ materially from those projected in the forward-looking statements, as disclosed from time to time in our reports on Forms 10-K, 10-Q, and 8-K as well as in our Annual Reports to Stockholders and, if necessary, updated in our quarterly reports on Form 10 Q or in other filings. We assume no obligation to update any such forward-looking statements. It is important to note that our actual results could differ materially from the results set forth or implied by our forward-looking statements.

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Board Chairman Robert Mao appointed Interim President and CEO

- President & CEO Chris Gannon resigned November 1, 2019 citing personal reasons
- No shift in business strategy continued focus on water growth, VorTeq commercialization

Seawater Reverse Osmosis (SWRO) Desalination Continues to Drive Growth

- Record 2019 YTD revenue pace continues; FY19 revenue growth forecast increased to 15-17%
- Industry trends continue to point to lengthened growth cycle; Water revenue outlook increased.
 - 2020 growth rate: 20-25%; 2021 growth rate: 10-15%
- Capacity Expansion: Phase 1 complete; Phase 2 underway, completion expected mid-2020

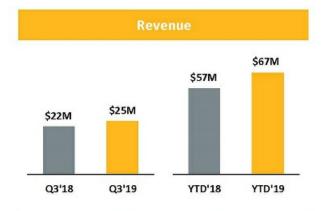
VorTeq Testing Ongoing at our Katy, TX Facility,

- Testing centered on finding failure modes of the system and engineering solutions
 - Successful commercialization depends on proving durability and reliability in the field
- Modular VorTeq introduced to facilitate testing iteration
- Site visits ongoing, including investors and analysts
- Progress on facility construction focused on commissioning manufacturing capabilities



Strong Q3 Results Driven by Water

- o 12% Q3 revenue growth over Q3 2018
- o 19% revenue growth YTD
- Net cash (and securities) position of over \$97M



Compelling Product Gross Margins

- Profitability driven by PX Pressure Exchanger sales
- High margins expected to continue for immediate future



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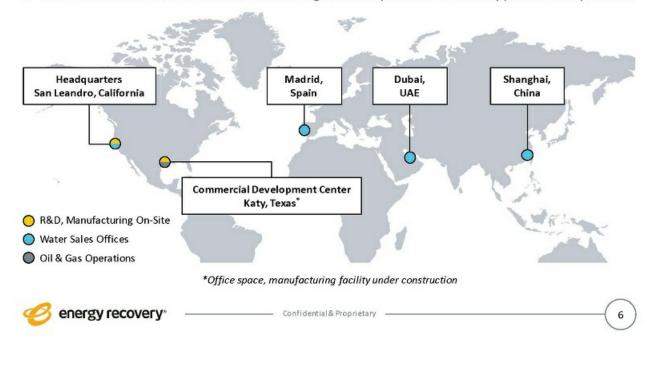
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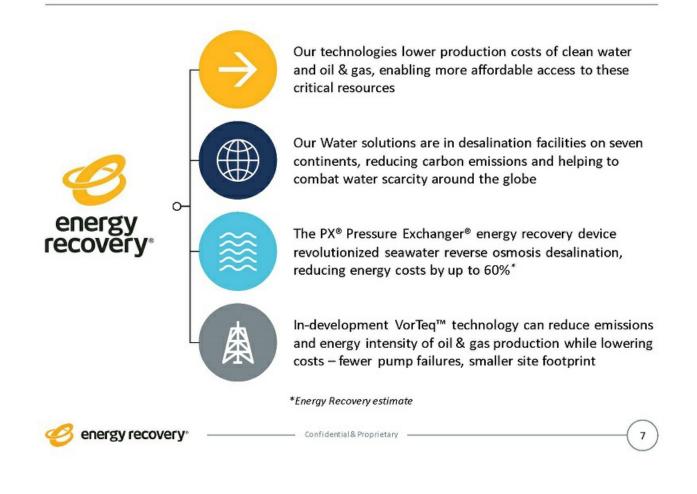


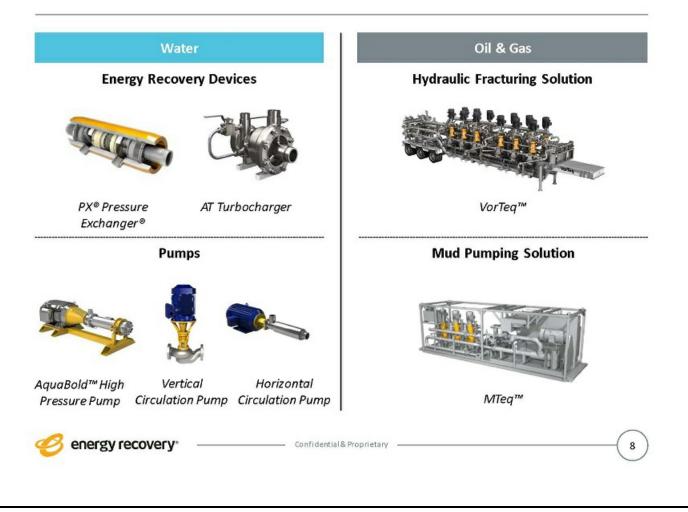


About Energy Recovery

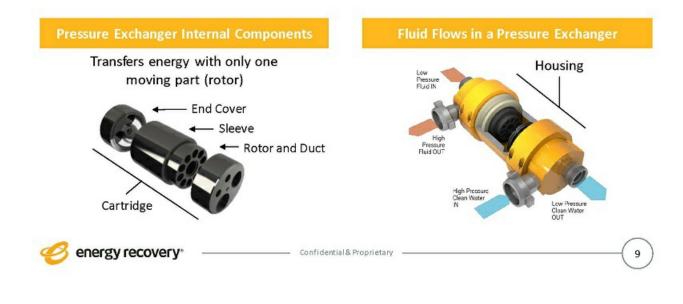
- For more than 20 years, Energy Recovery has created technologies that solve complex challenges for industrial fluid flow markets
- We design and manufacture solutions that reduce waste, improve operational efficiency, and drive significant cost-savings for our customers in Water and Oil & Gas
- o Our worldwide sales and technical service organization provides on-site support for our products



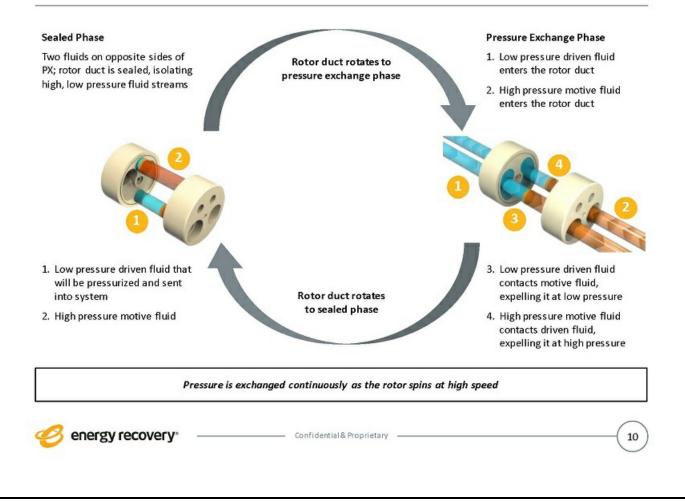


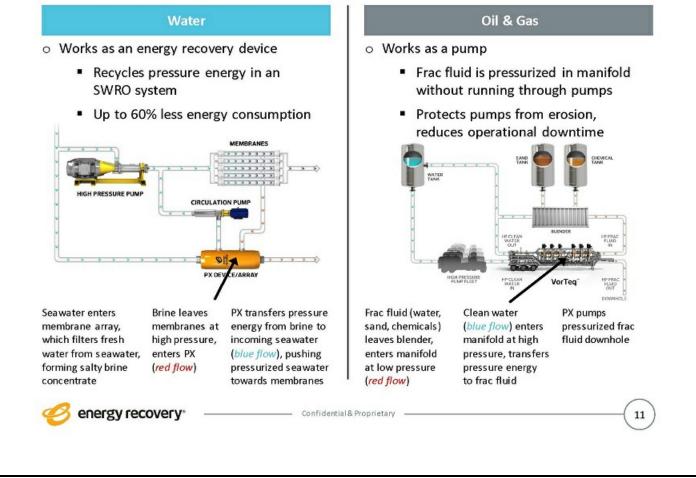


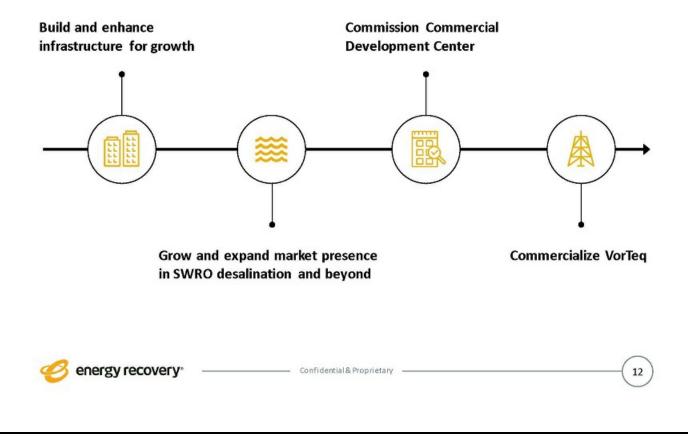
- Our pressure exchanger acts like a fluid piston, transferring energy between high- and lowpressure fluids through continuously rotating ducts
- o PX technology provides benefits in a variety of industrial applications using high-pressure fluids
 - Water pressure exchangers lower energy consumption and emissions, as well as reduce the pump size needed for seawater reverse osmosis desalination (PX Pressure Exchanger)
 - Oil & Gas pressure exchangers can protect pumps from erosion, reducing equipment failure common during well completion and drilling operations (VorTeq and MTeq)



HOW PRESSURE EXCHANGER TECHNOLOGY WORKS







In 2018, we began investing in infrastructure to ensure we can deliver on growth expectations

- o Realigned organization to ensure proper focus on execution and resource allocation
- Refocused on key strategic imperatives Water growth/reinvestment; VorTeq commercialization
- o Began implementing new systems and hiring talent to support growth

In 2019, we are continuing to build and enhance our infrastructure to support growth

- o Expanding our Water business
 - Finalizing phase 1 of capacity expansion in 2019; phase 2 completion expected 2020
 - Improving existing product lines
 - Advancing water growth initiatives (organic and inorganic)
- Investing in critical Oil & Gas expertise and assets
 - Commenced construction of Commercial Development Center facility
 - Procured equipment to precision machine and inspect tungsten carbide components
 - Expanding field operations team
 - Hiring and training machinists and other manufacturing personnel
 - Expanding supply base for key VorTeq system-level components to manage potential bottlenecks at commercialization



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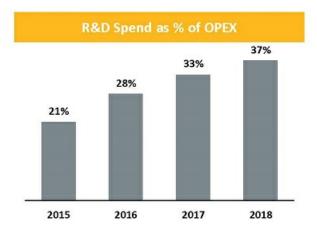
STRATEGICALLY SHIFTING TO AN ENGINEERING DRIVEN ORGANIZATION

Investing in multi-disciplinary engineering talent

- Over 5x increase in R&D headcount since 2013
 - One-third of our company now holds engineering degrees
 - 9 PhDs and 14 Masters Degrees

Realigning R&D organization to improve focus and ability to execute

- o Building necessary infrastructure
- Enhancing capabilities critical for development of disruptive technologies

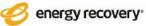


Our In-House Expertise Spans Critical Engineering Disciplines

Fluid Mechanics & Aerodynamics Solid Mechanics CFD & FEA Hydrodynamic Bearings Multi-Phase Flow Dynamics & Controls Acoustics & Vibrations Tribology

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Material Science & Coatings Pumps and Turbines Turbomachinery Rotating Equipment



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Advanced ceramics manufacturing capabilities help drive water success

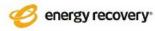
- Vertically integrated ceramics manufacturing facility located in-house in CA
 - Creates potential competitive barrier to entry
- o Best practices ensure high-quality production process
 - Approximately 99.9% of every PX Pressure Exchanger passes final stringent quality control before shipping

Ceramics expertise directly translates to tungsten carbide for Oil & Gas applications

- Production follows comparable path from powder to final machining
- o Rigid quality control and precision manufacturing



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Global Water Distribution Channel

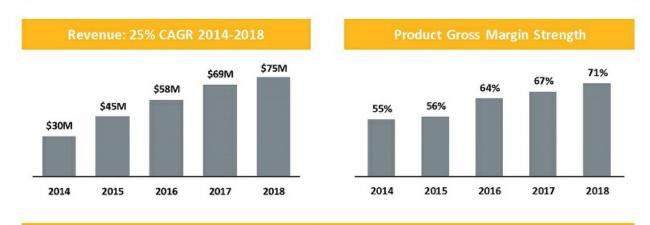
- Sales and technical service organization's tenure and global reach delivers advantages in a relationship-driven market
 - Entrenched, stable team located in 11 countries across 5 continents
- Strong relationships and extensive database enable early project identification

Oil & Gas Strategy Differs Due to Our Position

- Licensing model is more effective for a newcomer in a mature, competitive market
 - De-risks market entry
 - Partnerships provide faster credibility
 - Eliminates need to build our own distribution channel
 - Reduces time to market



HISTORICAL FINANCIAL RESULTS



Net Cash and Securities Position of over \$97M

We are positioned to make critical investments in our business

- o Organic or inorganic opportunities to expand our water business
- Commercialization and subsequent launch of VorTeq, further development of operational infrastructure







Water – Global Demand Trends Driving Robust Future Outlook for Energy Recovery

Fresh water demand is increasing, creating global demand gaps

- o Water demand driven by population growth, industrialization, rapid urbanization, climate change
- The world will only have 60% of the water it needs by 2030¹
- Potable water demand expected to increase by roughly 30% by 2050²

Desalinating seawater is an increasingly important part of meeting global water demand

- o We are well-positioned to be part of the global supply solution
- o SWRO expertise and commanding market position offers a springboard to growth



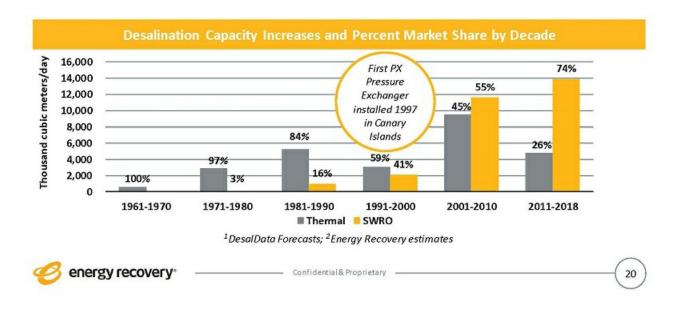
Thermal seawater desalination was the dominant technology through the 1990s

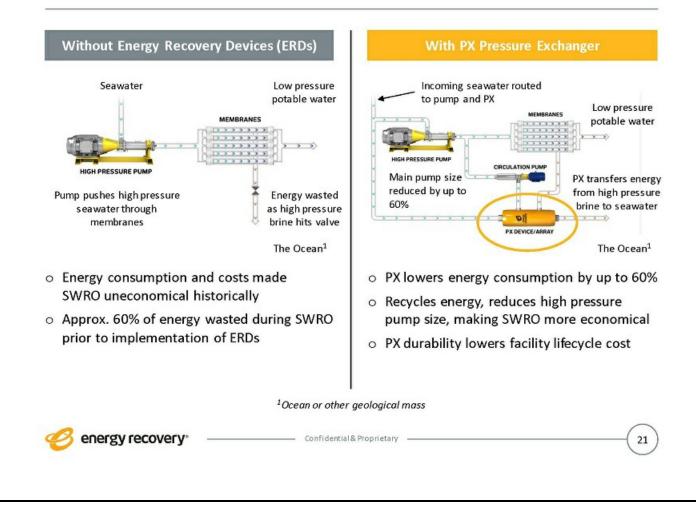
o Operational savings from devices like the PX made SWRO significantly cheaper than thermal

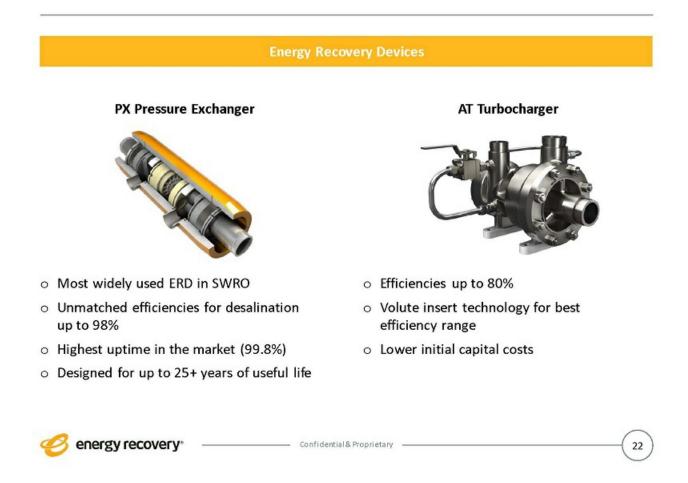
- Thermal OPEX costs today are roughly 2x higher than SWRO
- \$1B SWRO retrofit of two Saudi thermal plants will generate OPEX savings of \$360M/year¹

Potential for 100 - 150 new SWRO mega projects to maintain water supply status quo²

o Cost saving opportunities could accelerate pace of thermal to SWRO retrofits







Pump Products

AquaBold High Pressure Pump



- Water lubricated bearing for long life and low maintenance
- Cast, duplex stainless steel hydraulics for higher quality and uptime

Vertical and Horizontal Circulation Pumps



- o Specialized pumps pair with PX application
- o Designed for long life with low maintenance

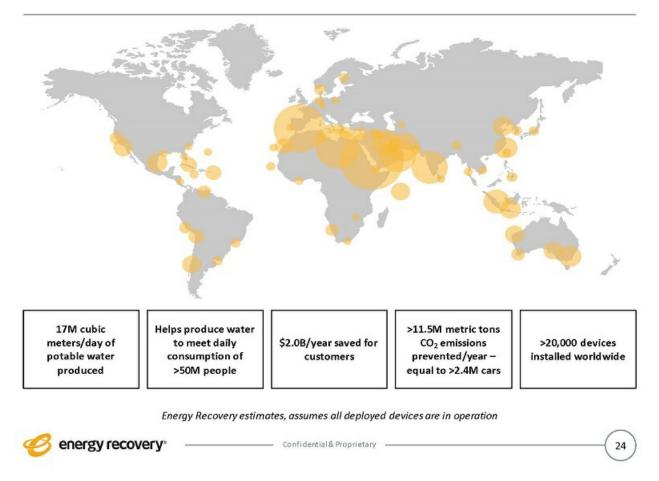
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 Reliable performance in high suction pressure operating environments



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GLOBAL REACH OF ENERGY RECOVERY WATER SOLUTIONS



OUR IP AND GLOBAL FOOTPRINT HAVE DRIVEN GROWTH AND PROFITABILITY

Consistent revenue growth

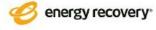
- Mega projects continue to drive 2019 revenues
- Owing to our robust pipeline and backlog, we expect strong growth to continue into 2020 and beyond

Extended growth cycle

- Upward revenue trend since 2014
- Evidence of extended cycle and upward shift in global demand curve

Exceptional margins

- Water gross margins have grown from less than 54% in 2014 to approximately 70% today
- Margin strength provides optionality as growth initiatives are explored





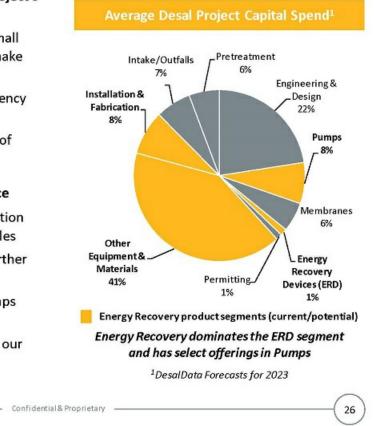
We currently focus on only 1-2% of a project's capital spend

- Energy recovery devices make up a small fraction of CAPEX and are critical to make plant operations affordable
- We have a small offering of high efficiency Pumps (<1%)
- Currently no exposure to other areas of desalination spend

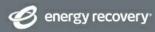
Leverage our market leadership presence

- Our desalination position and distribution channel is a springboard to expand sales
- Improving our existing solutions to further increase competitive advantage
- Focused on increasing offering in pumps and packaged/engineered solutions
- Utilize demand for and recognition of our strong PX Pressure Exchanger brand

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Oil & Gas – Material Progress Made on Path to Commercializing the VorTeq Technology



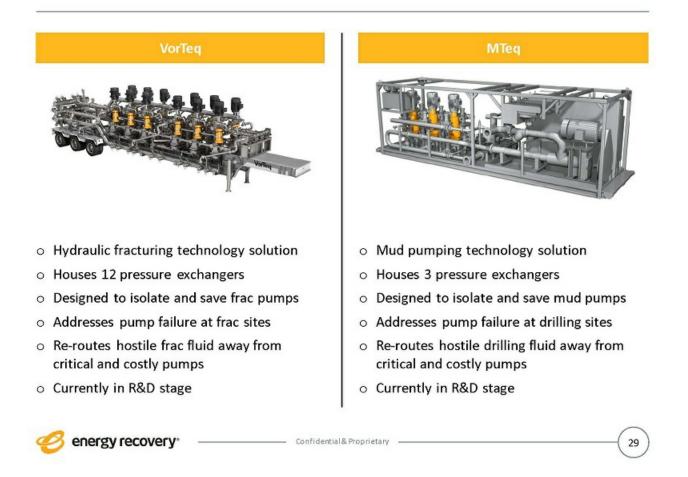
Water and Oil & Gas have similarities

- High pressure fluid environments
- o Potential to transfer pressure energy from a high-pressure fluid to a low-pressure fluid
- o Opportunities to eliminate waste in system increase efficiencies and decrease costs

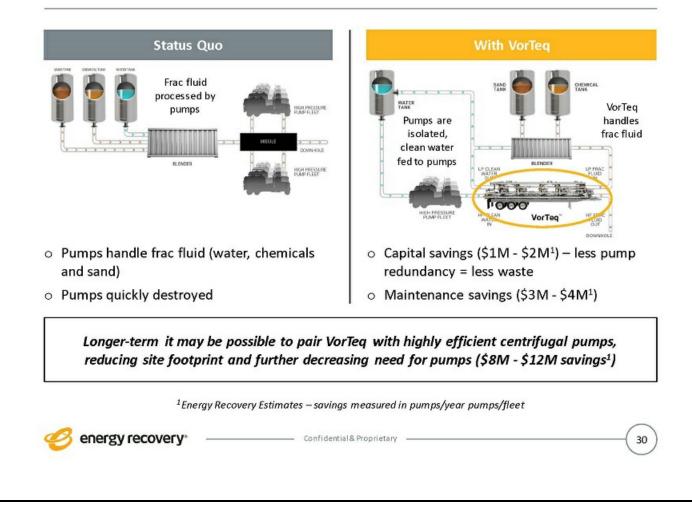
Leveraging Water experience to build core competencies in Oil & Gas

- o Advanced fluid & structural mechanics, bearing performance, and material expertise of R&D
- Precision manufacturing coupled with enhanced experimental capabilities
- In-house simulation tools to model performance and results





VORTEQ PROTECTS HIGH PRESSURE PUMPS, REDUCES COSTS

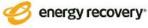


Materially advancing VorTeq technology

- o Confident in core pressure exchanger technology
- Substantial progress in advancing and implementing system level design enhancements
 - Required prior to Milestone 1
 - Critical for technology commercialization
- o Technical challenges continue to become less complex in nature

Continual field testing and system run time critical to reach commercialization

- Confirming system reliability and repeatability in imperfect realworld operating conditions
- Establishing VorTeq operating protocols
 - Integrating pressure exchangers, missile manifold, and controls and automation
 - Understanding interplay of VorTeq technology with standard frac operations
- o Identifying any and all failure modes to engineer solutions



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Rigorous VorTeq testing ongoing

- Center uses industry standard equipment to simulate pressures, flow, and operating conditions of a frac site
- Allows us to confirm system reliability and repeatability in real-world conditions

Expanded testing capabilities help accelerate the path to commercialization

 Continuous access to testing resources speeds R&D cycle from design concept to validation and implementation

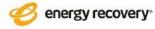


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o Investing in additional personnel to expand testing capabilities to seven days/week

An investment in the long-term success of our Oil & Gas business

- o Will house advanced equipment to machine, inspect and test tungsten carbide components
- o Enables rigorous testing of tungsten carbide pressure exchangers prior to field deployment
- Designed to scale up or down according to our needs



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Entered into a 15-year license agreement with Schlumberger Technology Corporation

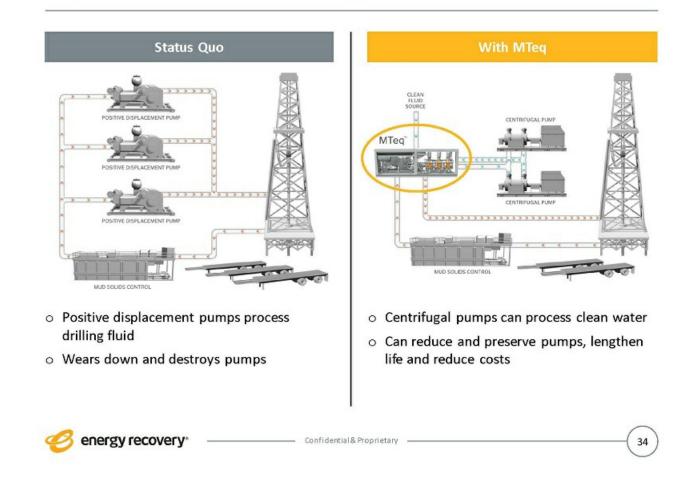
- o Exclusive rights to VorTeq for on-shore hydraulic fracturing
 - Upfront \$75M exclusivity fee
 - Two separate \$25M milestone payments (for a total of \$50M) subject to certain KPIs
 - ✓ Milestone 1 (M1): Frac at product licensee test facility
 - ✓ Milestone 2 (M2): Frac at customer exploration & production (E&P) well
 - Commercialization Highlights:
 - ✓ \$1.5MM per VorTeq per year
 - ✓ Acceptance standards inclusive of M1 and M2, as well as other performance tests
 - ✓ Product licensee responsible for missile manufacturing; ERI provides PX Pressure Exchangers, housing and motors
 - ✓ Five years from first unit to full deployment across product licensee fleets

Liberty Oilfield Services carve-out (our early-stage test partner)

- Rights for up to 20 VorTeq units for up to 5 years
- We provide full missile and cartridges vendors have been qualified
- o Commercialization standards differ and thus speed to market may be faster
- Pricing based on contractual ROIC



MTEQ REPLACES POSITIVE DISPLACEMENT PUMPS, REDUCES COSTS



Manufacturing

- o Construction ongoing on manufacturing facility
- o Building infrastructure to support testing and commercial production levels
 - Procuring advanced equipment to precision machine, inspect and test tungsten carbide components
 - Enables rigorous testing of tungsten carbide pressure exchangers at scale prior to field deployment
- o Training machinists in preparation for opening of facility later this year

Supply Chain

- o Sourcing and qualifying multiple suppliers for critical components
- o Working through lead time and supplier constraints

Organizational Execution

- o Key members of Oil & Gas team relocated to Texas
- Building support organization
- o Investing in IT and other necessary infrastructure



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Water

Steady, Visible Growth

- Global water demand outlook continues to improve and leads to further optimism
- Robust backlog and pipeline driving significant growth in 2019 and 2020-2021
- Thermal to SWRO transition adds to potential long-term demand trends
- Looking to leverage our current desalination position
 - Sales and distribution channel offers product portfolio expansion potential
 - Exploring organic and inorganic growth initiatives

Oil & Gas

Applying Pressure Exchanger Expertise to a New Industry

- VorTeq Focus remains on expediting path towards commercialization and shortening design iteration cycle
- Commercial Development Center yard is operational
 - Accumulating critical runtime at representative scale

Financially Flexible Balance Sheet

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 Solid net cash position allows for strategic options



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