

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 18, 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	Trading Symbol(s)	Name of each exchange on which registered
Common stock, \$0.001 par value	ERII	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

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 <http://www.energyrecovery.com>.

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 18, 2019

Energy Recovery, Inc.

By: /s/ William Yeung
William Yeung
General Counsel



Resource Efficiency in Desalination Driving Affordability

November 20, 2019

Joshua Ballard, Chief Financial Officer, Energy Recovery

NASDAQ: ERII

FORWARD LOOKING STATEMENT

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.

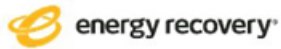


ENERGY RECOVERY SNAPSHOT

- 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
- Our worldwide sales and technical service organization provides on-site support for our products

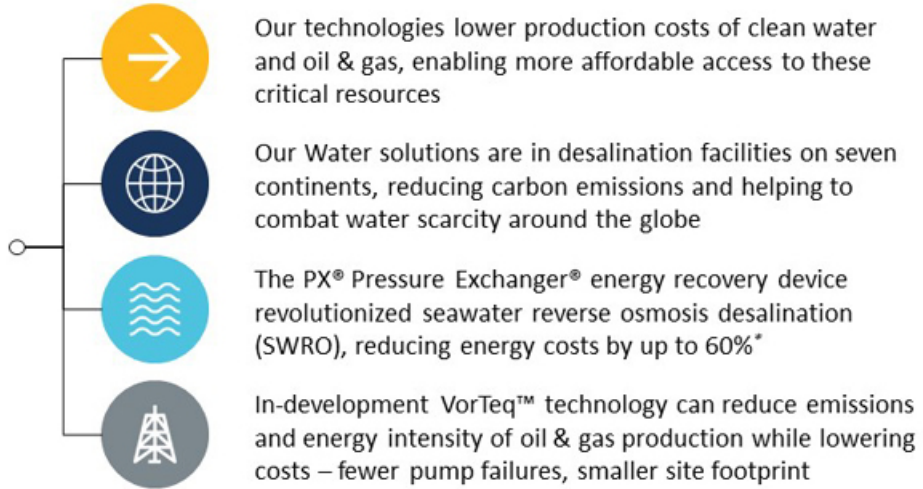


**Office space, manufacturing facility under construction*

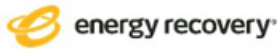


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WHY ENERGY RECOVERY?



**Energy Recovery estimate*



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Desalination's Global Impact and Growth



FINANCIAL TIMES

No end to crisis in sight as drought grips India's Chennai

The New York Times

*Flash Drought in the South
Brings Record Heat Without Rain*



**Water crisis may
make Gaza Strip
uninhabitable by
2020**



**Miners Face Looming Water
Crisis**



REUTERS

Chile's president announces water crisis
team amid 'intense' drought



Alaska Villages Run Dry And Residents
Worry About A 'Future Of No Water'



**Australia prepares for 'Day Zero' – the day the
water runs out**



energy recovery

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FRESH WATER SCARCITY IS INCREASING, CREATING GLOBAL DEMAND GAPS



60%

The world will only have 60% of the water it needs by 2030



>2B People

1/4 of all people live in high water-stress territories



30%

Potable water demand expected to increase 30% by 2050



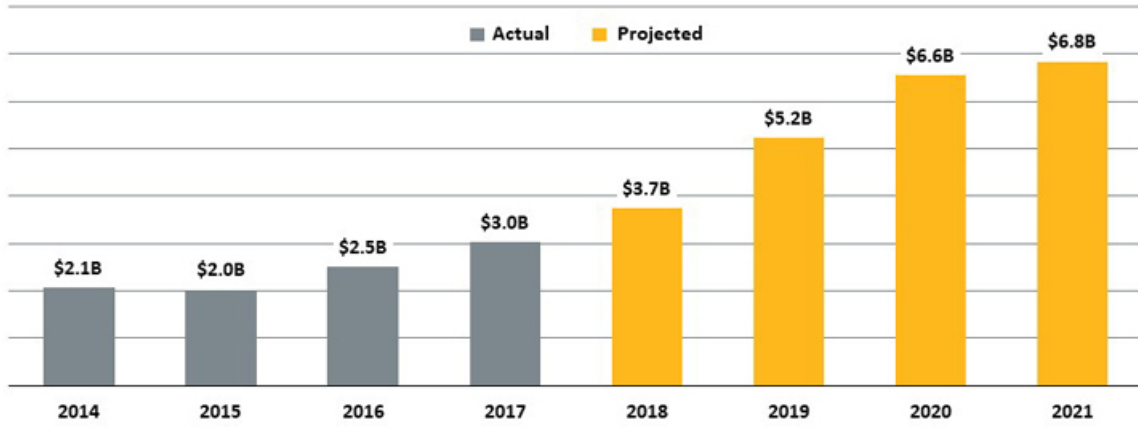
26%

Global population is expected to grow from 7.7B to 9.7B in 2050

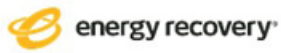
All statistics - United Nations

DESALINATION IS 2-3% OF GLOBAL FRESH WATER SUPPLY¹

SWRO Desalination CAPEX Spend Increasing as World Adapts to Water Scarcity²



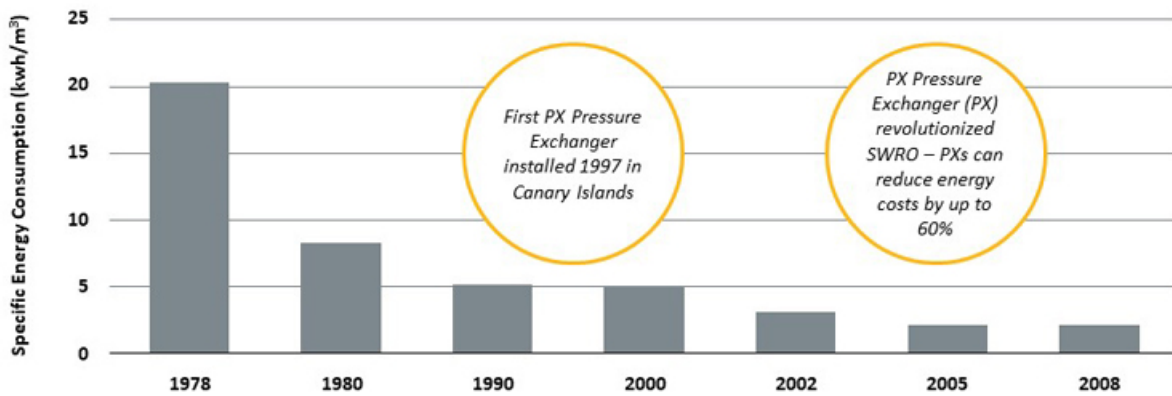
¹Raymond James, ²DesalData Forecasts



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SWRO IS THE MOST COST-EFFICIENT DESALINATION SOLUTION

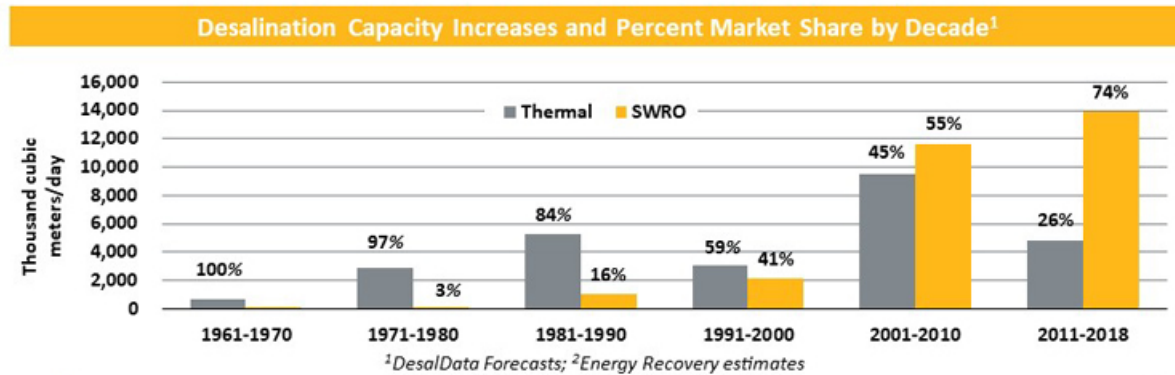
Decline in Specific Energy Consumption of SWRO System¹

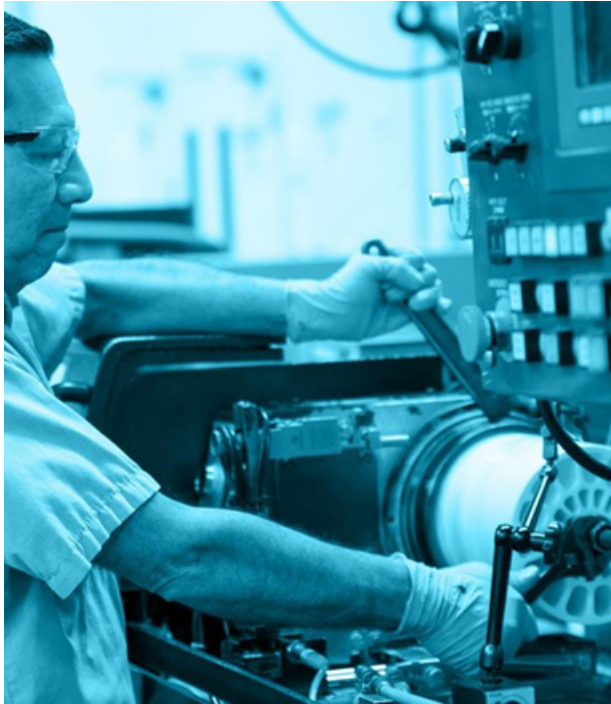


¹Pennsylvania State University

THERMAL DESALINATION DECOMMISSIONING CREATING INCREMENTAL DEMAND

- Thermal desalination dominated, but operational costs are ~2x higher than SWRO today
 - \$1B SWRO retrofit of two Saudi thermal plants will generate OPEX savings of \$360M/year¹
- Potential for 100 - 150 new SWRO mega projects (>50,000 cubic meters/day) to maintain water supply status quo²

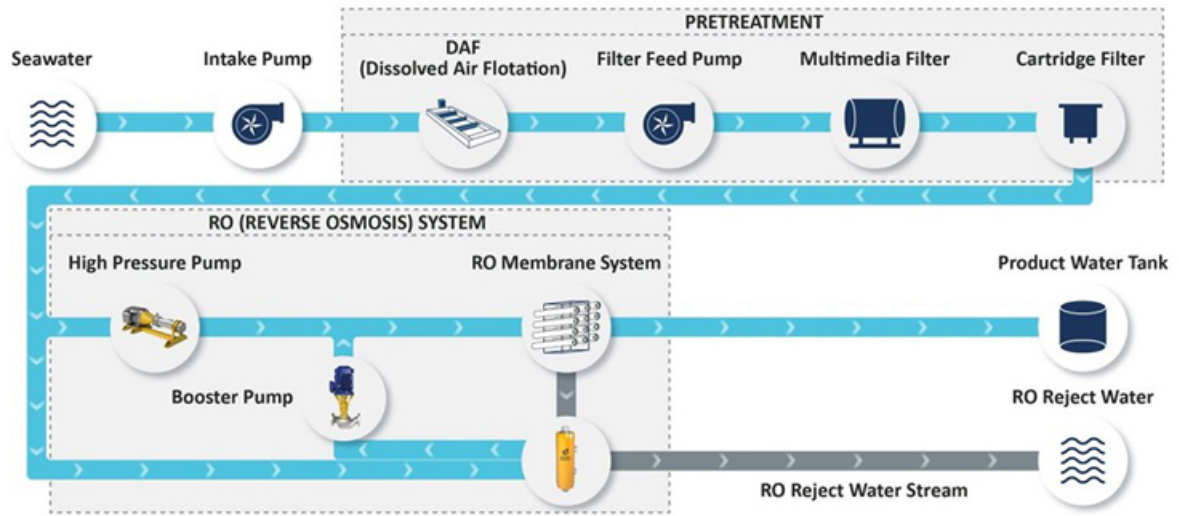




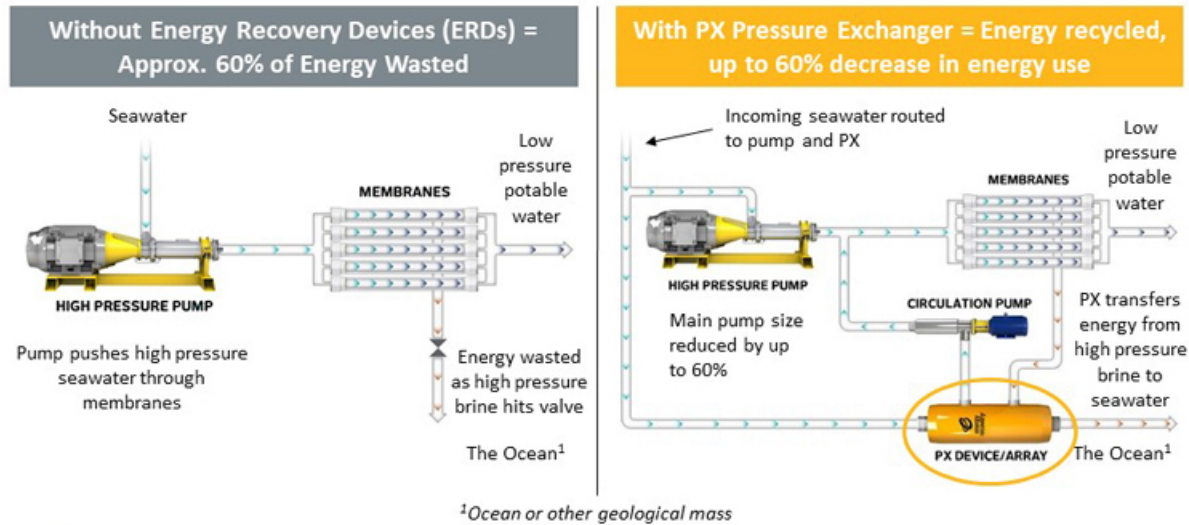
Inside the PX Pressure Exchanger



SWRO DESALINATION PROCESS OVERVIEW



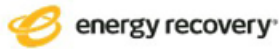
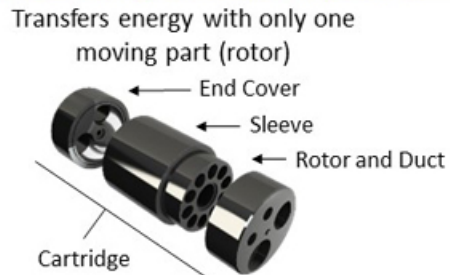
PX PRESSURE EXCHANGER RECYCLES HYDRAULIC ENERGY, REDUCES ENERGY COSTS



OUR CORE TECHNOLOGY IS THE PRESSURE EXCHANGER

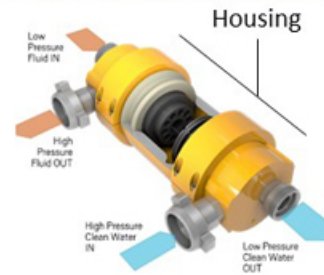
- Our pressure exchanger acts like a fluid piston, transferring energy between high- and low-pressure fluids through continuously rotating ducts
 - Provides benefits in a variety of industrial applications using high-pressure fluids
- We use pressure exchanger technology in several products, including our PX Pressure Exchanger

Pressure Exchanger Internal Components



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Fluid Flows in a Pressure Exchanger



62 bar / 900 psi

Typical Brine Pressure When
Entering PX Pressure Exchanger

2.5 bar / 36 psi

Normal Tire Pressure of
Medium Sized Car

100 bar / 1457 psi

Pressure 1000m Under Sea

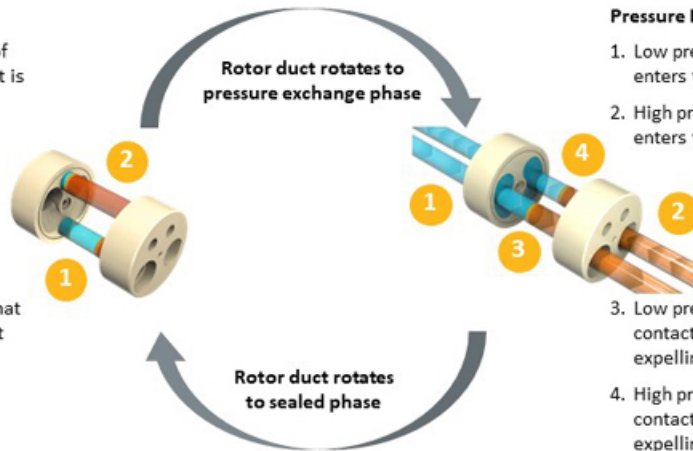
- Micron gaps between internal pressure exchanger components form a fluid bearing
 - Gaps (thinner than human hair) fill with fluid, lubricating pressure exchanger
 - Allows rotor to rotate without touching sleeve, end covers
- Highly engineered – structural, bearing and fluid flow design promotes durability, longevity
 - Pressure exchanger maintains structural integrity at significant pressures
 - Made with corrosion, abrasion and erosion resistant materials

HOW PRESSURE EXCHANGER TECHNOLOGY WORKS

Sealed Phase

Two fluids on opposite sides of pressure exchanger; rotor duct is sealed, isolating high, low pressure fluid streams

1. Low pressure driven fluid that will be pressurized and sent into system
2. High pressure motive fluid



Pressure Exchange Phase

1. Low pressure driven fluid enters the rotor duct
2. High pressure motive fluid enters the rotor duct
3. Low pressure driven fluid contacts motive fluid, expelling it at low pressure
4. High pressure motive fluid contacts driven fluid, expelling it at high pressure

Pressure is exchanged continuously as the rotor spins at high speed

Alumina Raw Material

We carefully select the highest quality alumina powder.



Spray Dry

Using our proprietary formulation, we blend and spray dry the raw alumina to be suitable for green body formation.



Pressing

We use a cold isostatic press to produce high quality green billets.



Green Machining

A CNC machine shapes the green billets into 3-D shapes. Excess ceramic dust is collected to reuse during phase 2.



CERAMIC MANUFACTURING DRIVES DURABILITY, LOWERS SWRO FACILITY LIFECYCLE COST



GLOBAL REACH OF ENERGY RECOVERY WATER SOLUTIONS

17M

cubic meters/day of potable
water produced

>50M

people's daily water consumption met

\$2.0B

/year saved for customers

>11.5M

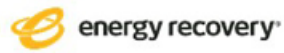
metric tons CO₂ emissions
prevented/year – equal to >2.4M cars

>20K

devices installed worldwide

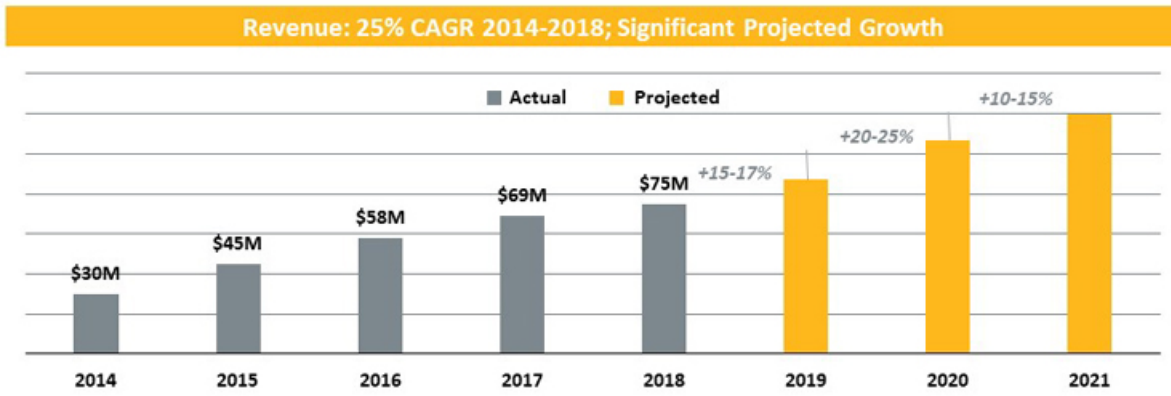


Energy Recovery estimates, assumes all deployed devices are in operation



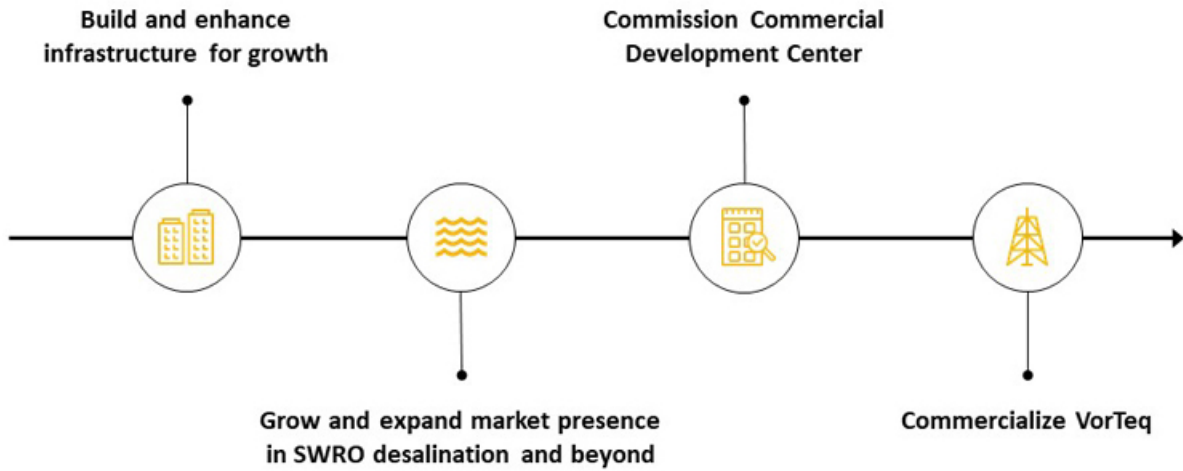
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STRONG HISTORICAL AND PROJECTED REVENUE GROWTH



- Water gross margins have grown from less than 54% in 2014 to approximately 70% today
- Desalination industry trends continue to point to a lengthened growth cycle

STRATEGIC OBJECTIVES



Thank You

CONTACT US



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