

Energy Recovery Investor Presentation

August 2020

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.

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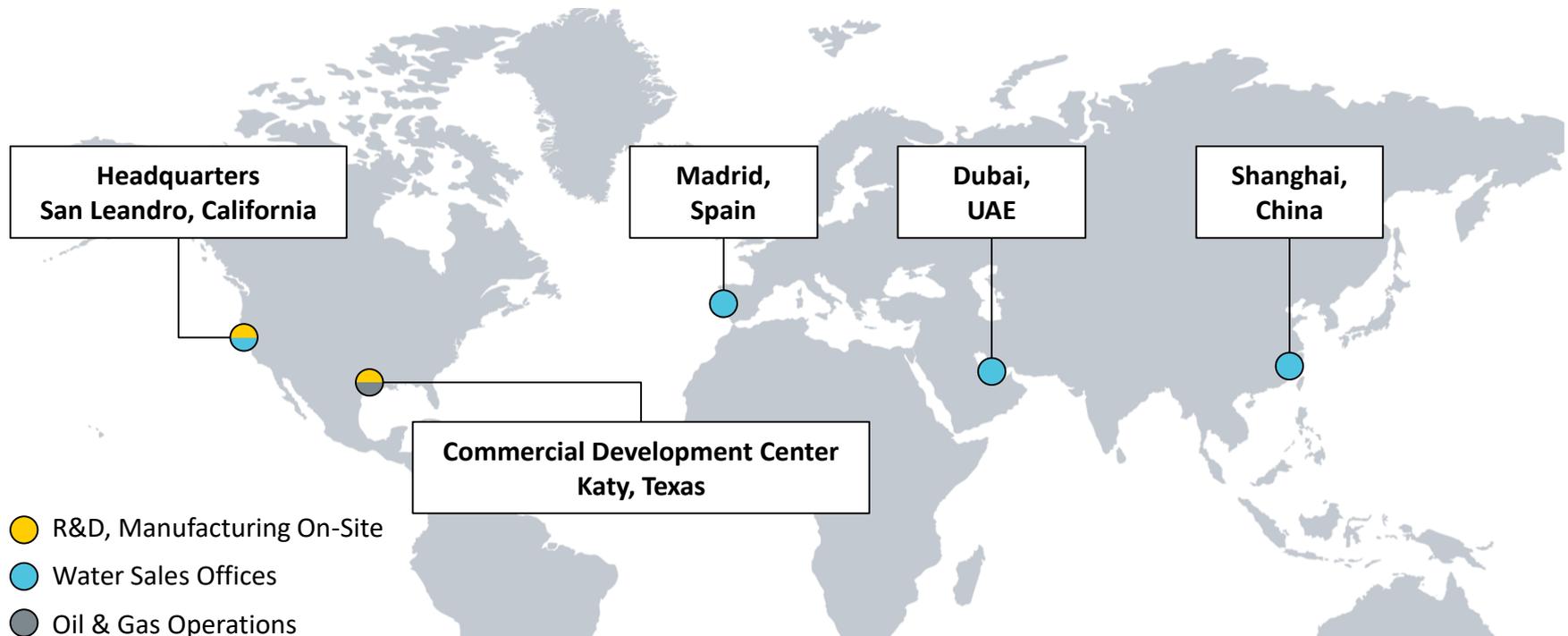


About Energy Recovery



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



WHY ENERGY RECOVERY?



**Energy Recovery estimate*

OUR PRODUCT CATEGORIES

Water

Energy Recovery Devices



PX[®] Pressure Exchanger[®]

Pumps



Oil & Gas

Hydraulic Fracturing Solution



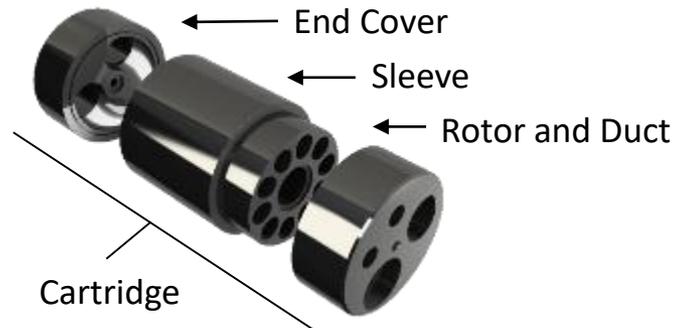
**in development*

OUR CORE TECHNOLOGY PLATFORM IS THE PRESSURE EXCHANGER (PX)

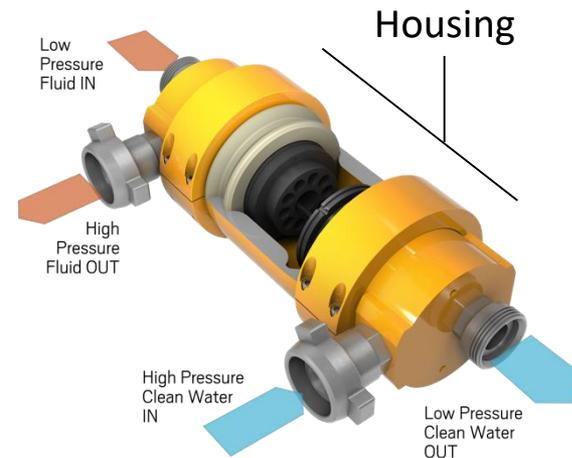
- Our pressure exchanger acts like a fluid piston, transferring energy between high- and low-pressure fluids through continuously rotating ducts
- PX technology provides benefits in a variety of industrial applications using high-pressure fluids
 - **Water** – pressure exchangers lower energy consumption 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)

Pressure Exchanger Internal Components

Transfers energy with only one moving part (rotor)



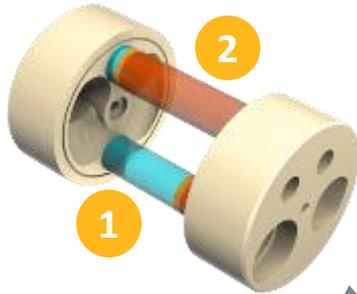
Fluid Flows in a Pressure Exchanger



HOW PRESSURE EXCHANGER TECHNOLOGY WORKS

Sealed Phase

Two fluids on opposite sides of PX; 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

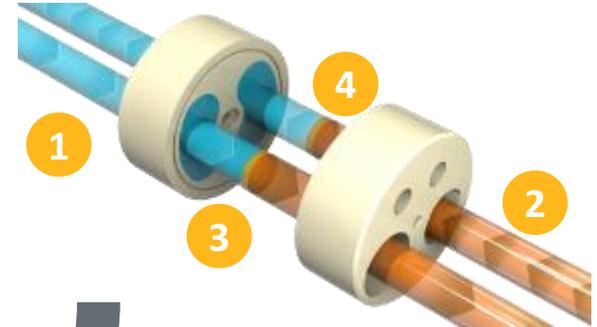
Rotor duct rotates to pressure exchange phase



Rotor duct rotates to sealed phase

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

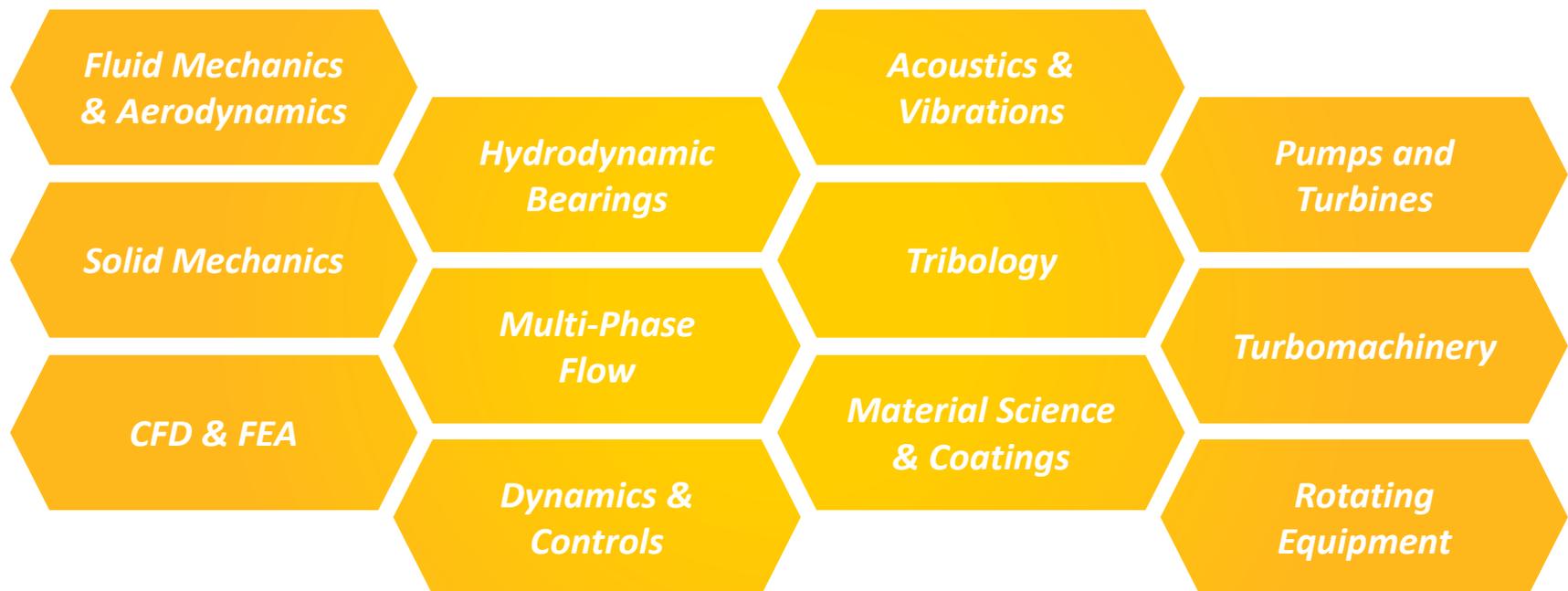
INVESTING IN MULTI-DISCIPLINARY ENGINEERING TALENT

Significant investments in R&D team in recent years to strengthen our capabilities

- Over 5x increase in R&D headcount since 2013 – one-third of ERI holds engineering degrees
- Expertise in critical disciplines to incubate and commercialize new industrial fluid-flow solutions

Team focused on incubation of new products with clear commercialization objectives and returns

- Late 2019 reorganization provided further transparency and accountability



Advanced ceramics manufacturing capabilities help drive water success

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

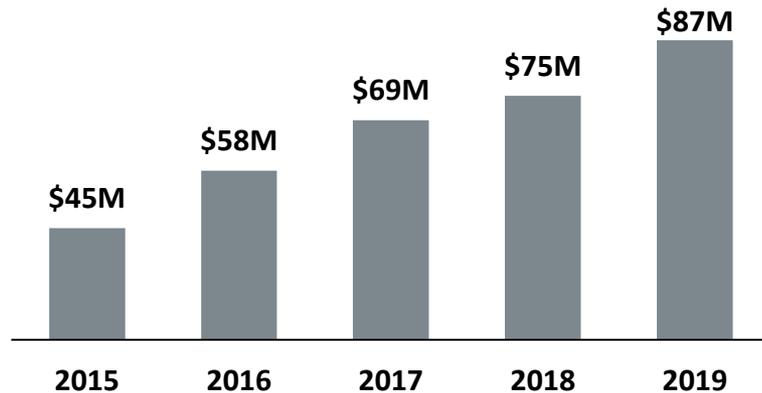
Ceramics expertise directly translates to tungsten carbide for Oil & Gas applications

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

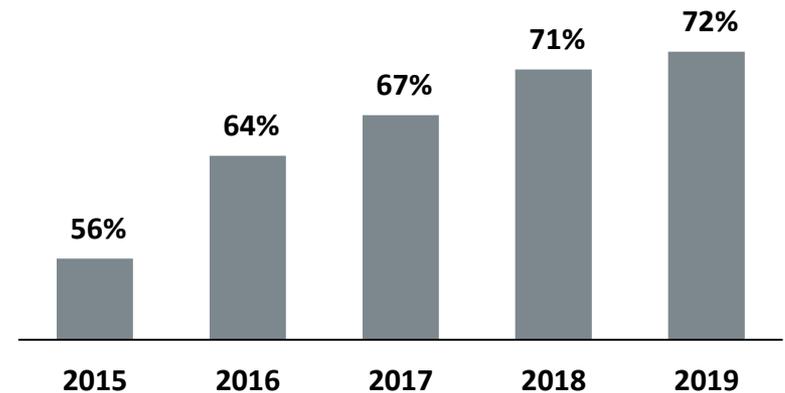


HISTORICAL FINANCIAL RESULTS

Revenue: 18% CAGR 2015-2019



Product Gross Margin Strength



Cash Rich, Unlevered Balance Sheet

We are positioned to make critical investments in our business

- Exploring opportunities to expand our water business
- Commercialization and subsequent launch of VorTeq
- Incubation efforts pushing the technical and commercial boundaries of our PX Pressure Exchanger technology



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



FRESH WATER SCARCITY IS INCREASING

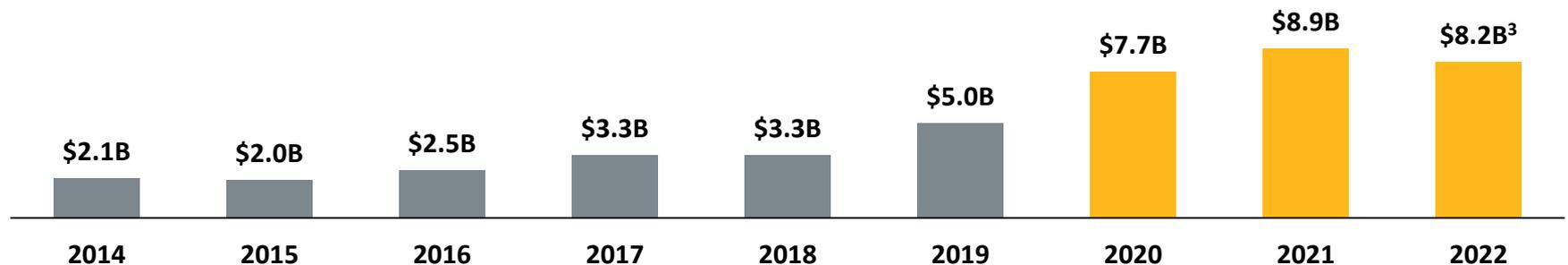
Fresh water demand is increasing, creating global demand gaps

- 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 2050¹

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

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

Continued Growth in SWRO Desalination CAPEX Spend 2014 – 2022²



¹United Nations World Water Development Report; ²DesalData Forecasts

³Third year projections typically dips due to limited market visibility

THERMAL DESALINATION DECOMMISSIONING CREATING INCREMENTAL DEMAND

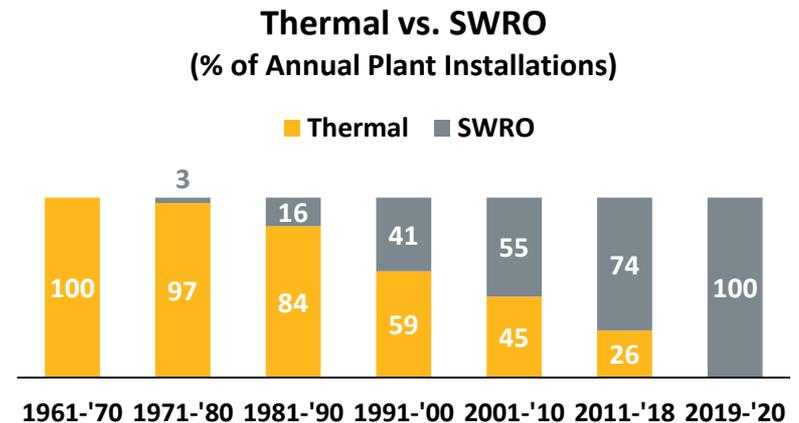
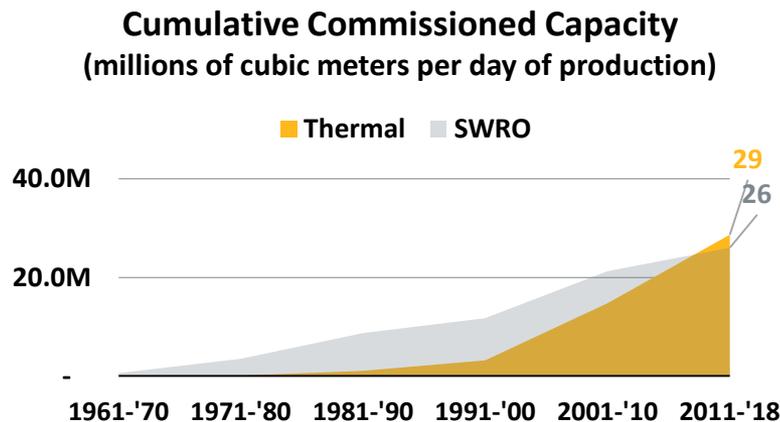
Thermal seawater desalination was the dominant technology through the 1990s

- 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 roughly \$0.5 Billion in Energy Recovery Device sales to maintain current water supply²

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

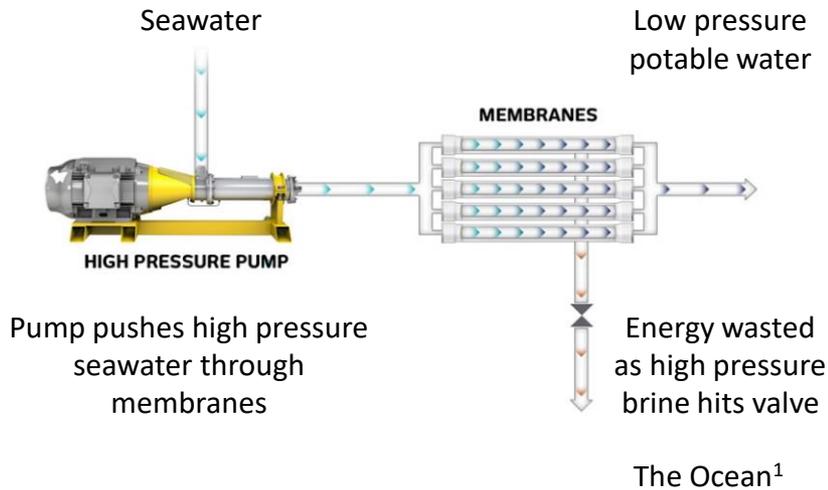
Desalination Capacity Increases and Percent Market Share by Decade



¹DesalData Forecasts; ²Energy Recovery estimates

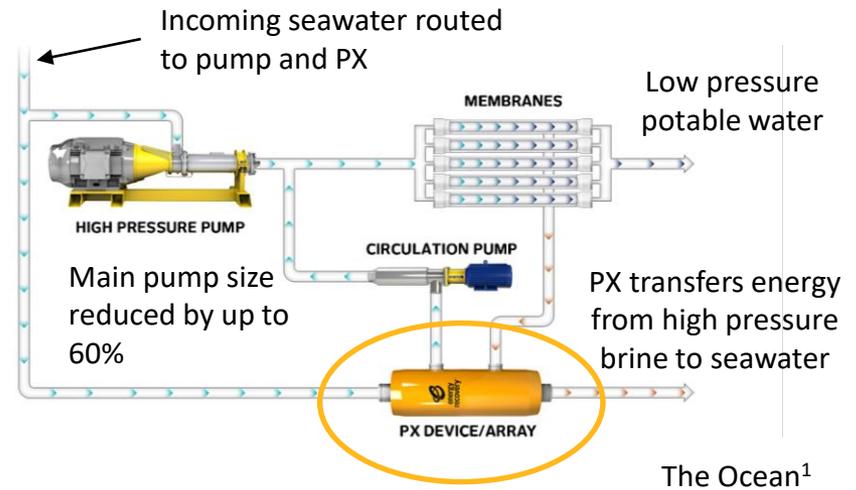
PX PRESSURE EXCHANGER RECYCLES HYDRAULIC ENERGY, REDUCES ENERGY COSTS

Without Energy Recovery Devices (ERDs)



- Energy consumption and costs made SWRO uneconomical historically
- Approx. 60% of energy wasted during SWRO prior to implementation of ERDs

With PX Pressure Exchanger



- PX lowers energy consumption by up to 60%
- Recycles energy, reduces high pressure pump size, making SWRO more economical
- PX durability lowers facility lifecycle cost

¹Ocean or other geological mass

Energy Recovery Devices

PX Pressure Exchanger



- Most widely used ERD in SWRO
- Unmatched efficiencies for desalination up to 98%
- Highest uptime in the market (99.8%)
- Designed for up to 25+ years of useful life

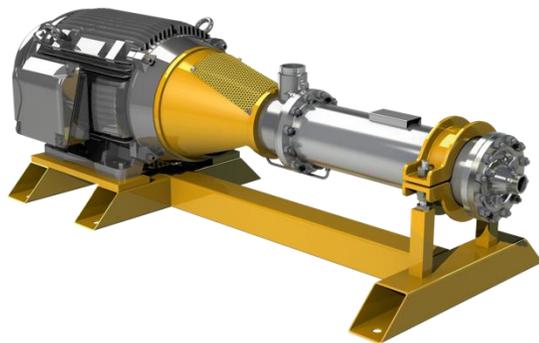
AT Turbocharger



- Efficiencies up to 80%
- Volute insert technology for best efficiency range
- Lower initial capital costs

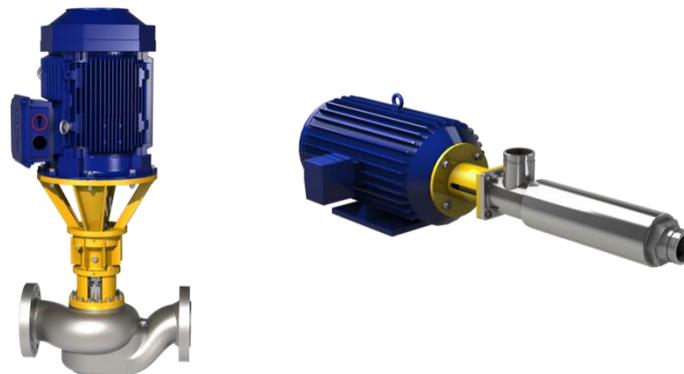
Pump Products

AquaBold High Pressure Pump



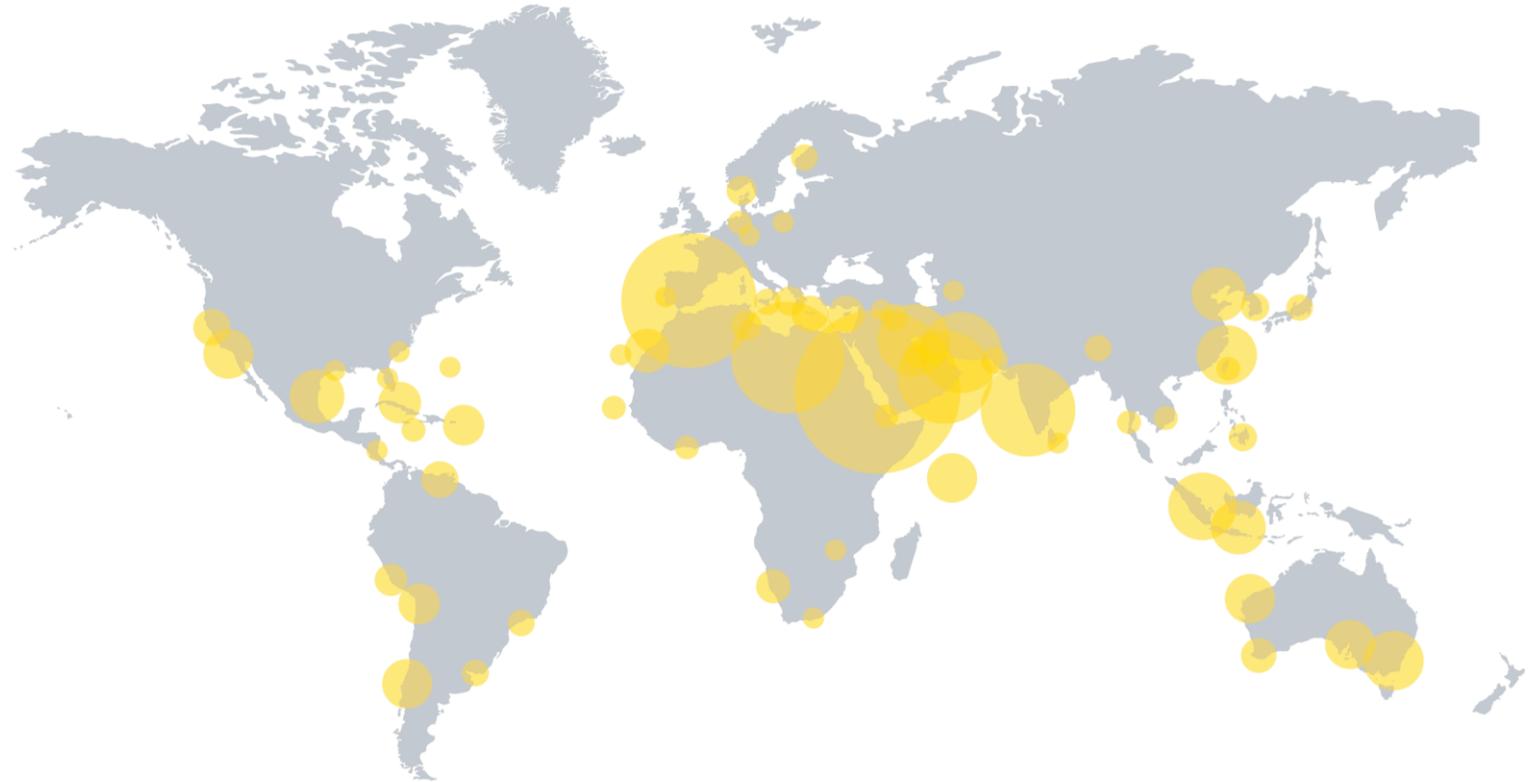
- Water lubricated bearing for long life and low maintenance
- Cast, duplex stainless-steel hydraulics for higher quality and uptime

Vertical and Horizontal Circulation Pumps



- Specialized pumps pair with PX application
- Designed for long life with low maintenance
- Reliable performance in high suction pressure operating environments

GLOBAL REACH OF ENERGY RECOVERY WATER SOLUTIONS



17M cubic meters/day of potable water produced

Helps produce water to meet daily consumption of >50M people

\$2.0B/year saved for customers

>11.5M metric tons CO₂ emissions prevented/year – equal to >2.4M cars

>20,000 devices installed worldwide

Energy Recovery estimates, assumes all deployed devices are in operation

DISTRIBUTION STRATEGY LEVERAGES OUR STRENGTH

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



Water sales and service personnel located in United States, Canada, Spain, India, China, Saudi Arabia, United Arab Emirates, Jordan, Egypt, Mexico, Peru

OUR IP AND GLOBAL FOOTPRINT HAVE DRIVEN GROWTH AND PROFITABILITY

Global Water Demand Drives Growth

- Global demand for water continues to take on increased levels of importance
- Larger numbers of projects, in increasingly greater size, are appearing in our backlog and pipeline
- Despite continued backlog execution and record revenue, the backlog remains robust

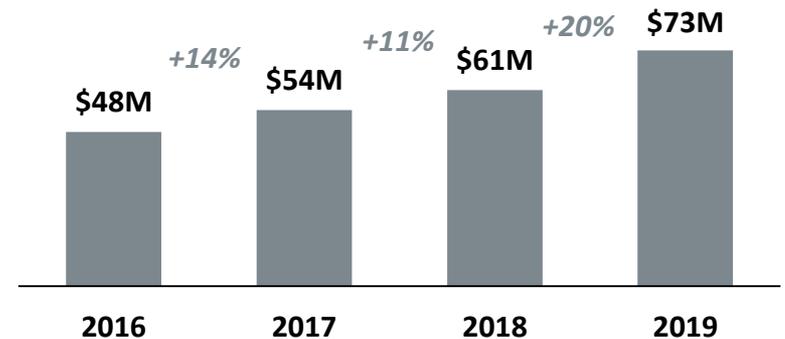
Extended growth cycle

- Evidence of extended cycle and upward shift in global water demand curve
- Revenue growth trend since 2014 suggests a secular water demand shift
- Entered 2020 with largest backlog ever

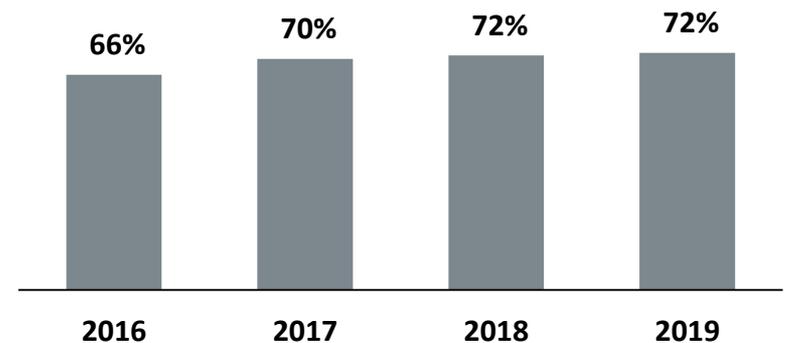
Exceptional margins

- Margin improvement reflects increased MPD demand

Historical Water Revenues



Historical Water Gross Margins



FOCUSED ON EXPANDING OUR WATER BUSINESS

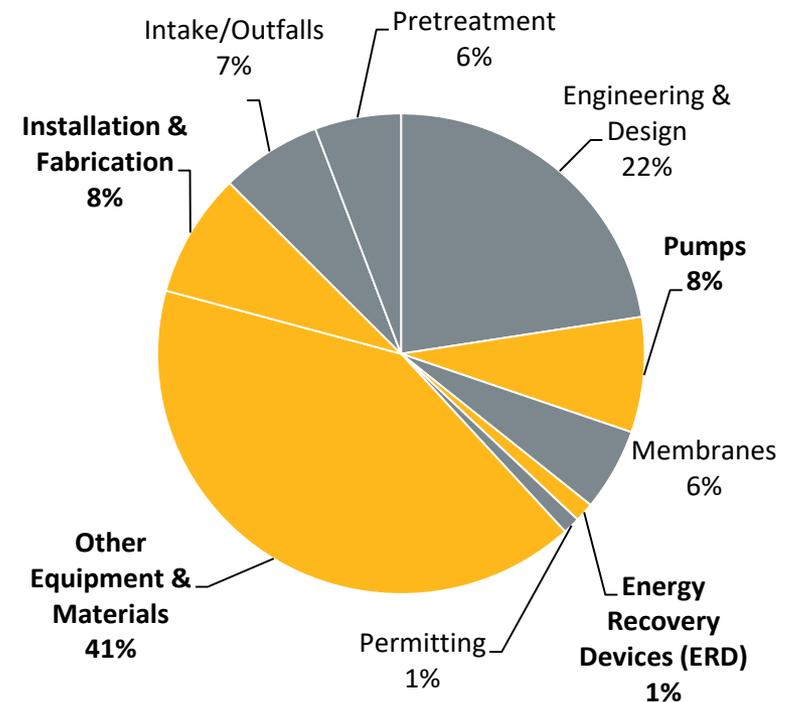
We currently focus on only 1-2% of a project's capital spend

- 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

Average Desal Project Capital Spend¹



■ Energy Recovery product segments (current/potential)

Energy Recovery dominates the ERD segment and has select offerings in Pumps

¹DesalData Forecasts for 2023



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



WE ARE APPLYING OUR WATER EXPERTISE TO OIL & GAS

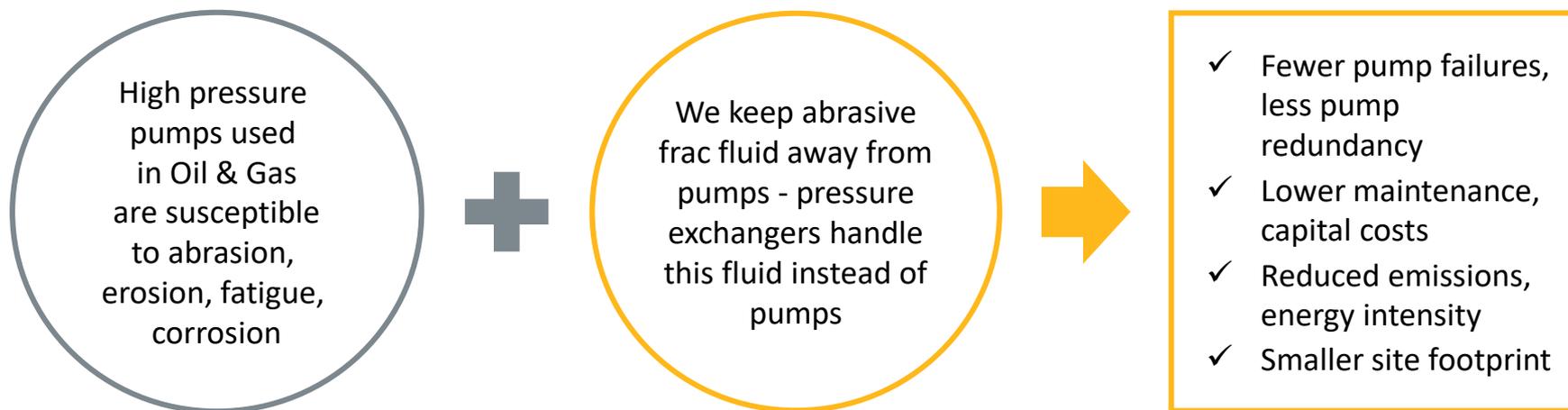
Water and Oil & Gas have similarities

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

Leveraging Water experience to develop Oil & Gas solutions

- 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

Our Solutions Can Protect Pumps



SINGLE SKID VORTEQ

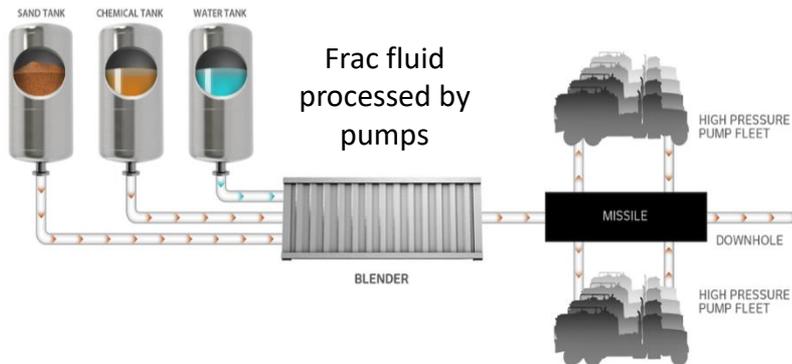
- Elegant, single PX skid solution
 - Takes advantage of higher sand concentrations
 - Easily scalable to flow rate, pressure and overall configuration requirements
 - Less intrusive to frac operations
 - Easy access to repair or service
- Less expensive and faster to produce
 - Costs to frac fleet expected to be roughly one-third of original VorTeq
 - Wider variety of suppliers
 - Greatly reduced lead time to production

VorTeq Production Model 1.0



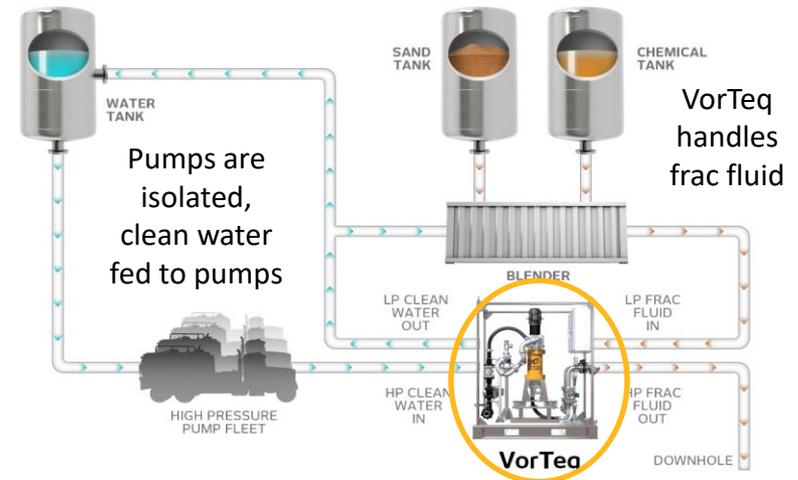
VORTEQ PROTECTS HIGH PRESSURE PUMPS, REDUCES COSTS

Status Quo



- Pumps handle frac fluid (water, chemicals and sand)
- Pumps quickly destroyed

With VorTeq



- Capital savings (\$1M - \$2M¹) – less pump redundancy = less waste
- Maintenance savings (\$3M - \$4M¹)

¹Energy Recovery Estimates – savings measured in pumps/year pumps/fleet

OUR COMMERCIAL DEVELOPMENT CENTER IS CRITICAL TO GROWTH

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

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

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





Strategic Summary



Water

Steady, Visible Growth

- Global water demand outlook remains robust in 2020 despite economic challenges globally due to COVID and falling oil prices
- Thermal to SWRO technology transition adds to potential long-term demand trends

Oil & Gas

Applying PX Expertise Beyond Water

- VorTeq – Commercial Development Center is delivering results
- Significant progress to commercialization made in 2019
- Successful field test in June 2020
- Search for live well test frac ongoing

Incubation

Refocus on new verticals in 2020

- Leveraging learnings from VorTeq to improve R&D and commercialization strategies
- Reorganization of teams to increase accountability and transparency
- Focus on ROI, size of potential investments and timelines
- Exploit multi-functional aspects of PX

Financially Flexible Balance Sheet

- Cash is king
- Solid net cash position provides strategic options amid global crises
- Core business is secure
- Growth remains a focus

Thank You

