

Q1 2024

 ME₂C Environmental

ENVIRONMENTAL TECHNOLOGIES

FOR THE FUTURE

TSXV: MEEC
OTCQB : MEEC



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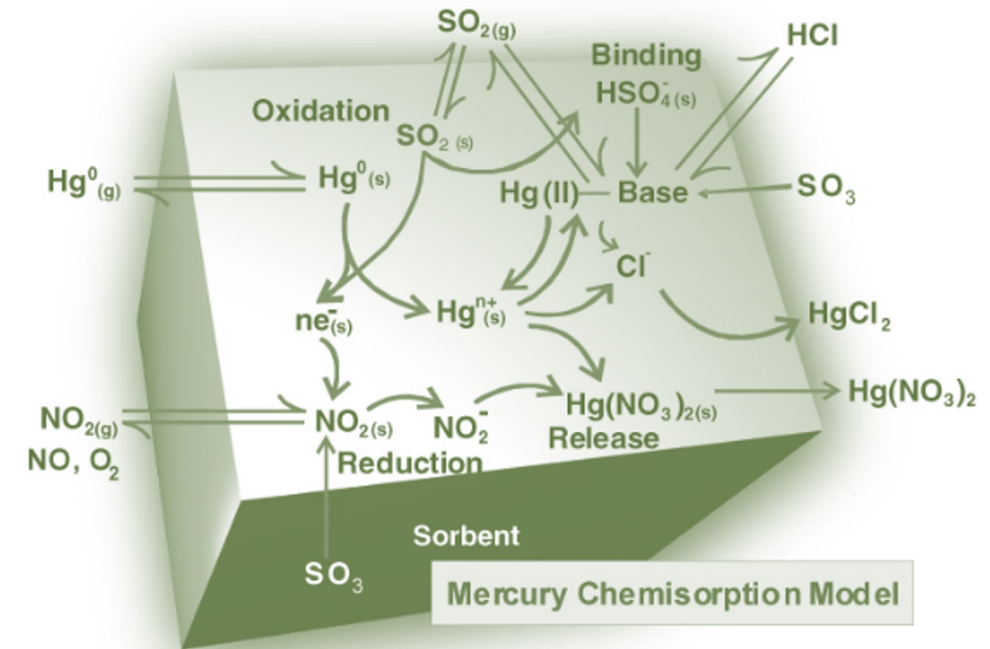
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Environmental Technology Experts: Proven Leaders in the Science of Chemisorption

Sorbent technologies capture contaminants from a variety of applications at a **lower cost, with less product, and lower environmental footprint** than alternative technologies

- Patented SEA® Sorbent Technology for Mercury Emissions Capture
- New Near-Term Technologies for Water Remediation – EPA’s “forever chemicals”, PFOA, PFOS
- New Sorbent Technologies in R&D for Rare Earth Element Extractions, Wastewater & Coal Ash Remediation



Industry Awards



2018 Annual Supply Chain Diversity Success Award



Technology Collaboration Programme by ICA

Memberships in Global & National Groups



Richard MacPherson
President, CEO, Director

- ME₂C founder who successfully led the early development and commercialization of the firm's SEA® technologies.
- Over 25+ years in Executive Management roles across Canada and the U.S. for various industries, including communications, industrial production, and internet marketing firms.



John Pavlish
Senior VP, Chief Technology Officer

- 25+ years in mercury emission capture technology.
- Inventor of multiple patented mercury control technologies with commercial applications.
- Industry experience - Energy & Environmental Research Center, Director of Center for Air and Toxic Metals, and Black & Veatch Unit Leader.



James Trettel
Vice President of Operations

- Mechanical Engineer and material handling expert.
- Senior project management background with expertise in coal utilities and supply chain.



Fiona Fitzmaurice
Chief Financial Officer

- Strong financial management with publicly listed companies in the exploration sector, including private placements, prospectus, flow-through financing, and corporate audits.
- Chartered accountant with 15+ years of experience in accounting and financial controls for companies listed on the TSXV and other major exchanges

Board of Directors



Chris Greenberg
Chairman

- Highly experienced at building and operating successful businesses.
- 20-year track record of effective strategic planning, business development, and project management.
- Special aptitude to successfully analyze an organization's critical business requirements and develop innovative and cost-effective solutions for enhancing competitiveness, increasing revenues, and improving customer service offerings.



David M. Kaye
Director

- David is an attorney with the law firm of Kaye Cooper Kay & Rosenberg, LLP, New Jersey since the firm inception in Feb. 1996.
- Mr. Kaye specializes in business, corporate and securities matters.
- Mr. Kaye serves as ME₂C's General Counsel and Corporate Secretary.



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President, CEO, Director

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Troy Grant
Director

- CEO & Founder of Elcora Advance Materials Corp, an integrated battery material company with international operations
- Director of several other publicly listed companies and is actively involved in the Audit Committees of each, including Elcora Advanced Materials Corp. (TSXV: ERA), i3 Interactive Inc. (CSE: BETS), Auxly Cannabis Group Inc. (TSX: XLY), and Cleantech Power Corp.

Snapshot of Corporate Structure

OTCQB : MEEC

TSXV : MEEC

<i>Shares Outstanding</i>	94M
<i>Insider Participation</i>	32%
<i>Four-Member Board of Directors: Actively Involved in Company Management & Operations</i>	<ul style="list-style-type: none"> • Founder/CEO, single largest individual shareholder
	<ul style="list-style-type: none"> • Chairman, second largest individual shareholder
	<ul style="list-style-type: none"> • General Counsel and shareholder
<i>Operational Capital Needs</i>	Cash-flow positive operationally with no need for capital raise
<i>Long-term Projected Profitability</i>	<ul style="list-style-type: none"> • 50% Top line revenue growth since 2020 • 80% Gross Margins on Licensing • 30-40% Gross Margins on Supply Contracts
<i>Stock buyback option with Alterna Capital</i>	<ul style="list-style-type: none"> • Approximately 7.0M shares at \$.50 • Current Debt 13.0M

1



Core Technologies

\$150 Million US Market

Mercury Emissions - SEA®

- Developed in early-2000s, 1st US Contract in 2011
- \$60 Million+ spent on R&D with over 40 Active Patents
- European & Asian Markets 3-10X Larger than US - market outreach currently in progress

2



IP Portfolio

Protecting Intellectual Property

Patent Enforcement Action

- Numerous Utilities have recognized the strength of ME₂C's patents through license/supply agreements
- Settlements reached with Arthur J. Gallagher, DTE and entities, and Alistar; license agreement negotiated with a settled defendant
- Trial date with remaining CERT defendants continues in early 2024

3



New Technologies

\$18.2 Billion US Market

Potable Water Treatment (GAC Technology)

- US Market valued at *\$2.2 billion
- Granulated Activated Carbon (GAC) plant, specialized product in development
- Forthcoming U.S. EPA Regulations in 2025

Rare Earth Element Extraction

- Testing with Renown Academic & Commercial Labs Since 2020
- Approach centered on extraction and remediation

Mercury Emissions Reduction

- **ME₂C's SEA® technologies** are believed to be in use at over 40% of the U.S. coal-fired power plant sector - which we are now capitalizing on through our litigation approach of enforcement
- Coal-fired power is a stable 21% of power output - cementing the need for mercury emissions controls and ME₂C
- ME₂C's Technology is in use by roughly more than 40% of the industry (=40% market share); however, our direct licensees and supply customers equates to only ~20% of the industry.

ME₂C's current market share ~20%. Expect that number to increase as more IPP's adopt the company's technology.



Coal accounts for 21% of the U.S. power and over 36% of the global power mix and is projected to remain a significant fuel source through 2050



2008-2016

- ME₂C founded by Richard MacPherson, CEO, in 2008, **SEA Tech tested with DOE and numerous utilities across the U.S.**
- ME₂C gains first customer in 2011; U.S. EPA MATS regulation incites company growth – **revenue reaches \$32M in 2016**

2017

- **Starting revenue of \$32M**, ME₂C acquires full patent right of the SEA technology
- **U.S. coal-fired industry adopts ME₂C's technology outside of patents**

2018

- *Revenues drop to \$12.3M*; Industry-wide infringement of SEA[®] technologies continues

2019

- **Completed \$4M+ patent fortification to fight infringement**
- Reorganized debt, expenses reduced by \$2M annually
- \$2.6M raised covers future IP costs, legal fees
- **Lawsuit against (4) major utilities and refined coal entities underway**

2020-'21

- **Monetization of IP underway with a series of licensing agreements**
- **Rev increased due to IP efforts to \$13.2M in 2021** leading to 50% annual growth rate
- Development of new technologies focused on REE extraction, coal ash and wastewater remediation

2022

- Since 2020, (8) business agreements reached (license or supply) with major U.S. utilities
- **Core business growth rate continues at a 50% YoY rate of recurring revenue** from IP enforcement successes and increased demand from coal-fired power
- Profitable with positive cash flow, **year-end revenues \$21.6M+**

2023

- **New TSXV Listing, Canadian market expansion**
- Solid revenues, strong cash on hand (\$2.5M) for Q3
- **Settlements with major defendants, AJG, DTE, and entities; Alistar reached**
- Progress continues in REE extraction, wastewater and coal ash remediation, and international markets
- **New BACT technology for water treatment underway**

2024

- **IP Trial with CERT defendants scheduled for late Feb 2024**
- Outreach begins to U.S. Utilities operating SEA tech not under license with ME₂C
- Water treatment technology development ramps up ahead of EPA regulations
- ME₂C preps for significant commercial growth

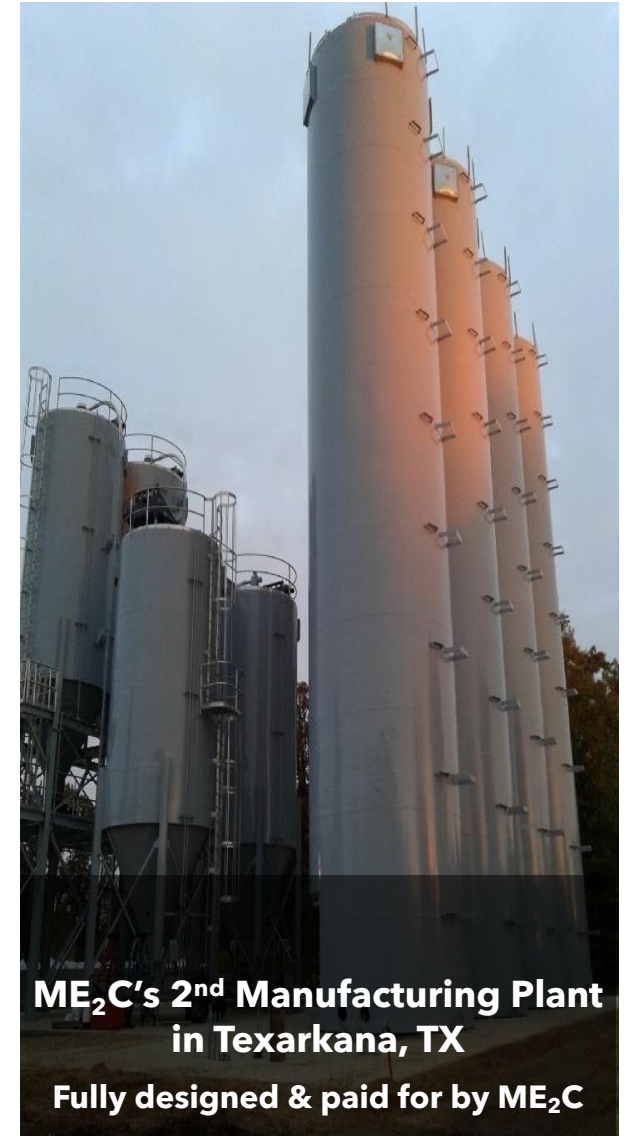
Existing Infrastructure Can Support \$100M+ in ARR

This modern facility is completely paid for and owned by ME₂C will support increased supply demands for core mercury emissions sorbent as well as production of new sorbent for REE extraction

ME₂C can exceed \$100 million in annual revenues without any additional investments in infrastructure

Our REE Extraction Technology materials will be developed and produced from these facilities under tight manufacturing processes and provided to the industry as required under license agreements

All overseas material supply will be carried out in the Country of Origin under ME₂C supervision



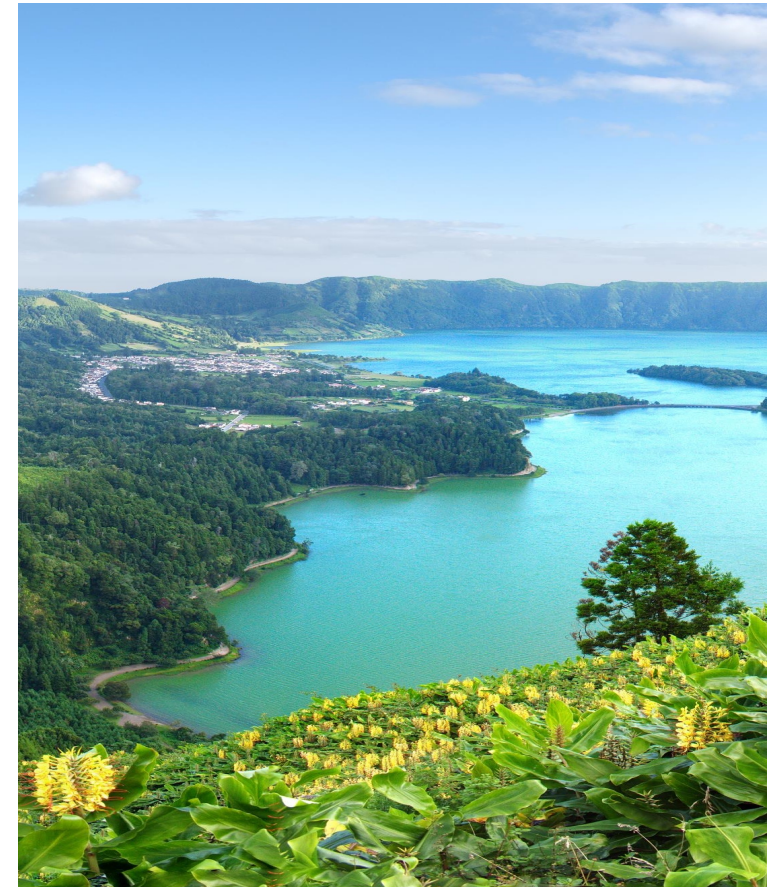
International Expansion Opportunities

International expansion will follow an IP/Trademark approach to generate new markets through a Licensing/Royalty Program

Top Targeted Countries: Eastern Europe, Poland | Southeast Asia, AMS | Turkey | Taiwan

Association of Southeast Asian Nations (ASEAN) Member States (AMS)

- Brunei Darussalam
- Cambodia
- Indonesia
- Lao PDR
- Malaysia
- Myanmar
- Philippines
- Singapore
- Thailand
- Vietnam

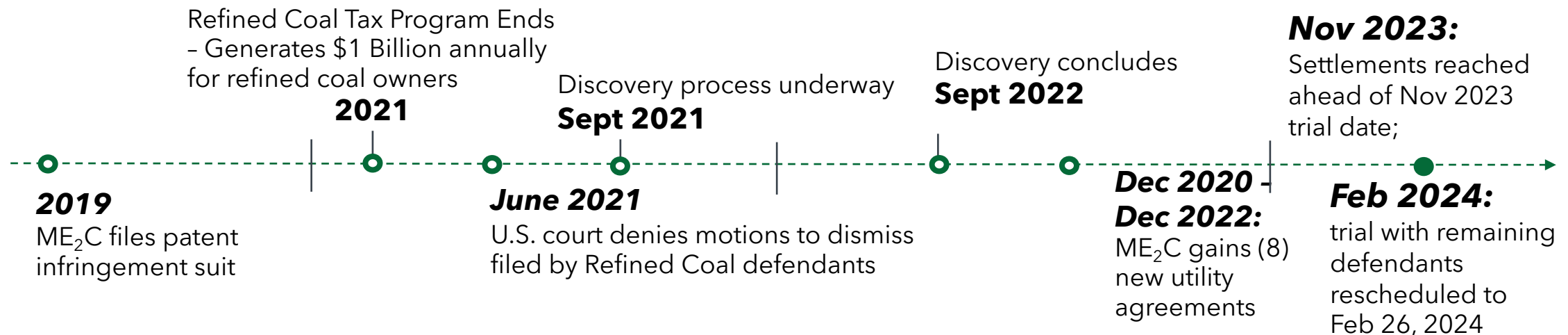


- AMS are making efforts to move towards more efficient coal-fired power plants technologies through the Clean Coal Technology (CCT) Programme Area under the [ASEAN Plan of Action for Energy Cooperation \(APAEC\)](#).
- **Indonesia will nearly double its coal-fired power generation in coming years (coal power to increase by 33%)**
- All overseas material supply will be carried out in the Country of Origin under ME₂C supervision

Protecting Patent Portfolio

Refined Coal Operators have relied on ME₂C's patented technologies to generate billions of dollars in tax credit value - and are now beginning to pay for it.

- Filed IP Patent Infringement suit in 2019 based on unauthorized use of ME₂C technology, alleges that the refined coal Defendants have caused significant business harm to ME₂C and obtained significant value from their use of its technology
- Settlements with Arthur J. Gallagher & Co (AJG), DTE, and entities, as well as Alistar (one of the CERT defendants) were reached in mid-November prior to the November 13 court date. A license agreement for \$1/ton of infringing coal was reached with one of the settled entities setting significant market value for potential forthcoming license agreements
- The trial with remaining CERT defendants continues in late February 2024



Water Treatment Technologies: Activated Carbons

New production of granulated activated carbon (GAC) recognized as a BACT (Best Available Control Technology) for removing contaminants, “Forever Chemicals”, PFOA, PFOS from water.

All municipalities will have to upgrade their water treatment facilities to meet the new pending EPA PFAS regulations

- ▶ **Extension Of Current Core Business** - expertise in activated carbons, chemisorption supports tech development
- ▶ **Environmentally-friendly, highly effective material for potable water remediation**

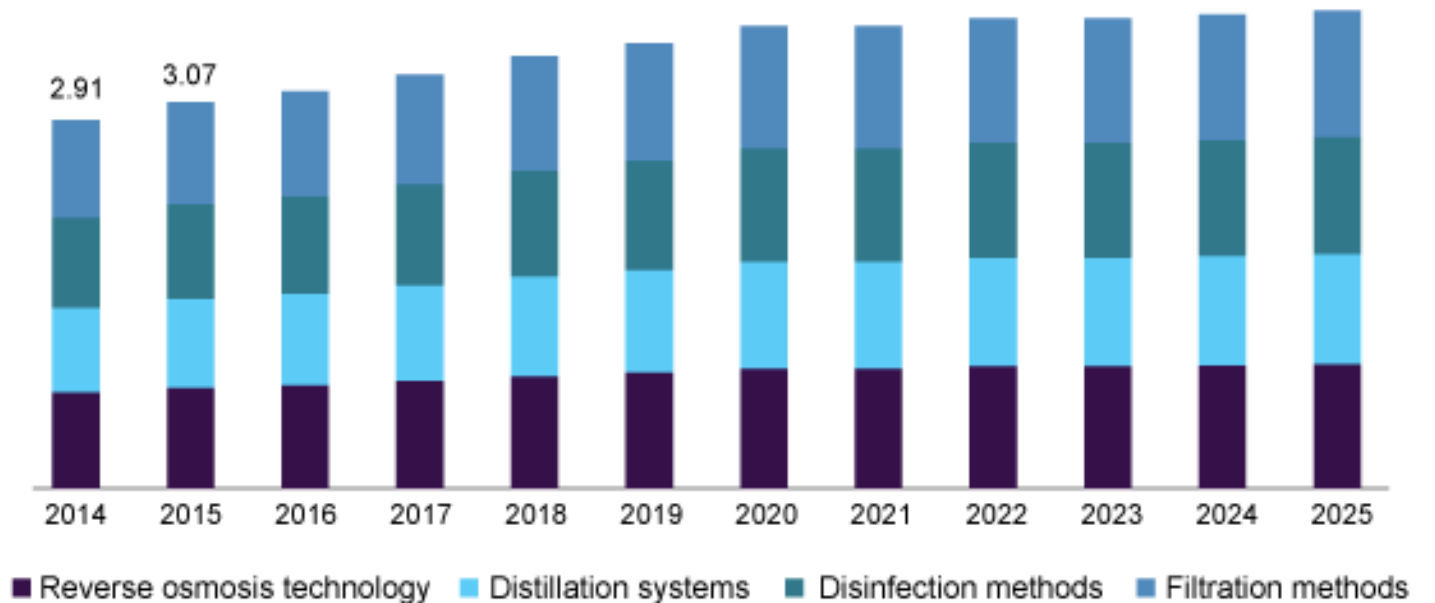


Water Treatment Market Poised for Growth

ME₂C to gain significant market position through our unique expertise - supported by **strategic partnerships, acquisitions, and new-to-market technology**

- Potable water market primed for entrants, innovative technologies - limited key players in field, no predominant tech leader
- Present market pricing for activated carbon presents an **opportunity for attractive profit margins**
- **U.S. potable water market valued at \$2.2 Billion**, expected to grow at a CAGR of 7.5% through 2030
- **U.S. Activated carbon market is ~\$1.25M annually**

U.S. water treatment systems market size, by technology, 2014 - 2025 (USD Billion)



Extracting Rare Earth Minerals from Coal Waste

ME₂C intends to bring a cost-effective, environmentally sound REE extraction process to market that would be useful in multiple applications related to mineral mining & coal ash utilization

- Department of Energy has reported a global market for REEs valued at ~\$13.2 billion in 2019 with a growth expectation of 10.7% annually between 2020 to 2026
- The expansion of wind and solar electrical generation and the push for electric vehicles will further increase the demand for REEs
- ME₂C continues to improve and test different leaching techniques to extract REEs from coal ash to maximize the concentration of REEs in solution, which allows for cost effective removal of REEs
- **Recent tests have shown extractions as high as 80%, compared to previous tests at 10-20%, were achieved at optimized conditions and at higher pH levels than previously tested**



The IEA estimates that the rare earth market could reach up to \$400 billion (globally).

- Coal Ash Remediation: \$560 Billion Annually
- Wastewater Remediation: \$22 Million
- Soil Remediation: \$1 Billion Annually
- Acid Mine Drainage: \$8-10 Million

Significant Shareholder Value

- **Strong Financials** - continued profitability, strong cash position, significant commercial growth expected
- **Core business base is solid & growing;** U.S. EPA emissions regulations tighten
- **IP Validation achieved through settlements reached with major defendants;** litigation continues with remaining defendants, outreach across U.S. coal-fired market to increase business partnerships
- **International “Total Pollution Control” Position** for Expansion of Core Technologies
- **New environmental remediation technologies underway-** REE extraction, wastewater treatment; **near-term expansion into growing water treatment business**

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