

RESOURCES CORPORATION

Supporting Modern Infrastructure



Forward-Looking Statements

This document may include predictions, estimates or other information that might be considered forward-looking. While these forward-looking statements represent our current judgment on what the future holds, they are subject to risks and uncertainties that could cause actual results to differ materially. You are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinions only as of the date of this presentation. Please keep in mind that we are not obligating ourselves to revise or publicly release the results of any revision to these forward-looking statements in light of new information or future events. Throughout this document, we will attempt to present some important factors relating to our business that may affect our predictions. You should also review any and all SEC filings of each respective company for a more complete discussion of these factors and other risks, particularly under the heading "Risk Factors."

This document is neither an offer to sell nor a solicitation to purchase any of the Company's securities. Certain statements and financial projections in this Presentation constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements, which are based on management's current expectations, are generally identifiable by the use of terms, such as "anticipates," "believes," "could," "estimates," "expects," "intends," "may," "plans," "possible," "potential," "predicts," "projects," "should," "would" and similar expressions. The potential risks and uncertainties that could cause actual results to differ materially from those expressed or implied herein include, among others, the Company's ability to raise additional debt or equity financing, the Company's relationships with its current and future customers and business partners, the Company's ability to achieve anticipated results from acquisitions, and organic growth and development and overall business expansion. All reserve estimates (tonnage, quality, sell ability, etc.) and other number and figures presented herein are management estimates only, may include reserves that are currently under lease negotiation (i.e., not currently controlled), and should be independently verified.

The non-reserve deposit numbers presented herein are estimates based on available data and the interpretation of such data by the company and/or its advisors and/or consultants and are not classified as "proven" or "probable" pursuant to the definitions found within SEC's Industry Guide 7. Not all non-reserve deposits are permitted, and certain reserve numbers may include figures under permit, permit in-process or leased, and in some cases prior leases that have lapsed and need to be re-obtained.

This presentation and the information herein is updated frequently, and you should absolutely verify with management of the Company that this version is the most recent available. In the event that the information presented herein conflicts with Company public filings, the public filings shall be the governing document.



AMERICAN

RESOURCES CORPORATION

Environmentally and socially responsible supplier of highquality and high value raw materials to the modern infrastructure and electrification markets.



Investment Opportunity

Showcasing Exponential Revenue Growth





Leading domestic supply chain to be first US-based Company to process and purify Rare Earth and Critical Elements

Praseodymium, neodymium, dysprosium, cobalt, lithium, nickel and manganese



AMERICAN



Redefining legacy industry to thrive in today's coal conscious economy

Metallurgical carbon for steel and specialty alloy metals

Smelted not burned for energy use





Aggregator and processor of waste metal and steel products to be used in new production

Steel, copper and carbide products

Revenue Producing: 2022

Currently Producing Revenue

Currently Producing Revenue



Innovators in the Industry

Nimble Diversified Business Model While Reducing Legacy Industry Risks

Identify High Value and Under-Utilized Assets and IP

Creatively Acquire Under Favorable Terms

Modernize and Monetize to Fit Modern-Day Economy







8 Acquisitions and 16 Patent & Technology Licenses Over the Last 6 Years

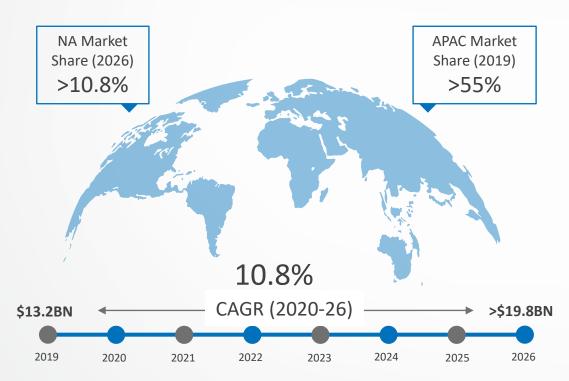




Large Markets Poised for Exponential Growth

Strategic Priorities Aligned with High Growth Opportunities

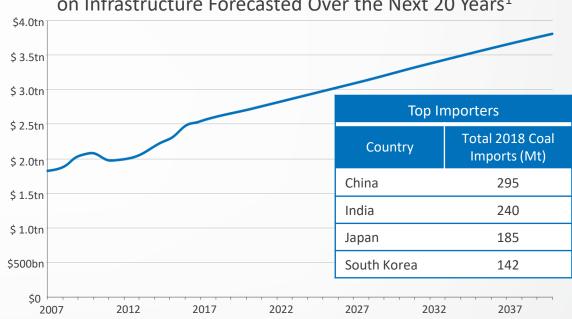
Rare Earth Elements



Met Carbon Demand Highly Correlates to Infrastructure Spend

Metallurgical Carbon

~\$3.2 Trillion Average Annual Global Spend on Infrastructure Forecasted Over the Next 20 Years¹









Rare Earth and Critical Elements:

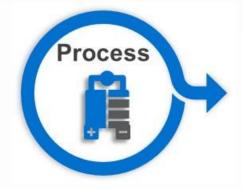
Innovating for a Global Solution

The world needs a streamlined process that is not only low-cost and scalable but can also comply with strict environmental regulations in order to truly compete.



Capture vs. Extraction

Non-environmentally invasive and forecasted to be a 1/10th the costs of extraction



Increase concentrate and produce high value byproducts, including graphene, carbon, purified concretegrade fly ash and hydrogen

Utilizing byproduct economics



Isolation and purified of rare earth and critical elements

Environmentally safe

Proven tech new application (Used in drug industry for decades)





Lead Domestic Supply Chain for Rare Earth & Critical Element Processing

Building first commercial-scale critical and REE processing and purification facilities in the US utilizing private capital

Leveraging most environmentally safe and scalable methods ever developed



Leveraging over 16 exclusive patents and technologies licensed from four leading universities



Technologies developed with support from federal government that are highly aligned with national priorities



Ability to process material from:

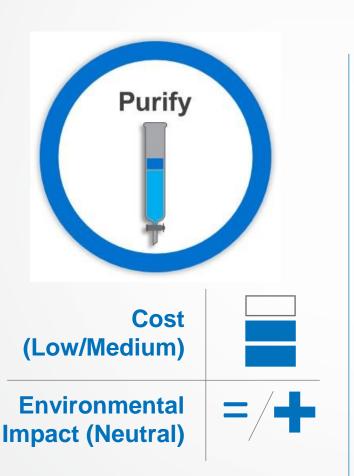
- Controlled feedstocks
- Recycled high-value end-of-life products
- Third-party REE & CE concentrate feedstocks



Purify – LAD Chromatography

New Application to a Proven and Commercial Technology





Creating Isolated & Pure Highly-Valuable REE/CE



2 Staged Ligand Assisted Displacement (LAD) Chromatography

Key Highlights:



Pure REE/CE are more valuable than concentrate



Exclusive technology to recycle permanent magnets and batteries



Advantages to LAD Chromatography

	Solvent Extraction	reELEMENT Chromatography	Advantages
Safety	Flammable solventsToxic extractantsHarsh chemicals	Aqueous solutionDilute acid & base	Safer
Chemical cost	High	Very Low	Lower
Purity, Yield	99.5%, 88-90%	>99.5%, 99%	Higher
Productivity	Low	High (10x Solvent)	Higher
Footprint	High (100x Chromatography)	Low	Smaller footprint
Start-up time	Months	Days	Shorter
Feedstocks and products	Specific	Flexible	More versatile
Separators	>1,000	5	Fewer
Initial investment	High	Low	Lower
Waste	Acidic wastewater	Almost zero waste	Cleaner

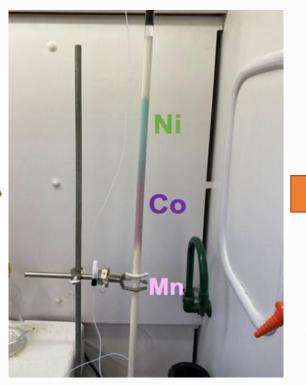


Success in Battery Metal Isolation & Purification

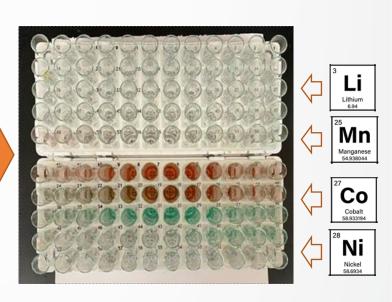
Isolation and Purification of Battery Metals to > 99.5% Purity from End-of-Life Lithium-Ion Batteries from EV's (Lithium, Cobalt, Nickel & Manganese)



Single EnerDel Waste Lithium-Ion Battery from EV



Chromatography Separation



Isolated and Purified Battery
Metals



Success in Magnet Metal Isolation & Purification

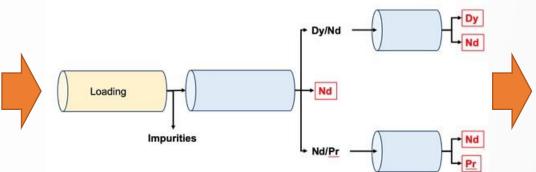
Isolation and Purification of Rare Earth Magnet Metals to > 99.5% Purity and 99% Yield from End-of-Life Permanent Magnets from Wind Turbines and EVs



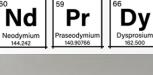




End-of-Life Permanent Magnets



Two-Zone LAD Chromatography





Isolated and
Purified Magnet
Metals



NASDAQ: AREC

Our IP — Synthesizing the Best and Brightest to Create Real Solutions

Patent No. / Agreement	Partner / Assignee	Description
9,199,867 PCT/US2010/031033	Ohio University	Electrolysis: Carbon-Based Electrolysis, Production of Hydrogen, Liquid Fuels and Carbon Nanotubes Simultaneous Removal of Metals, Ammonia and Urea from Water Methods for the Synthesis of Graphene from Coal, Carbon Chars and Carbon Solid Resources Roll-to-Roll Transfer of Graphene and Substrate Recovery
8,029,759 8,409,305 PCT/US2010/027922	Ohio University	Pretreatment Method for Synthesis of Carbon Nanotubes and Carbon Nanostructures from Coal and Carbon Chars
10,544,503 PCT/US2013/035627	Ohio University	Method of Producing Graphene
Sponsored Research	Texas Tech University	Commercialized development and refinement of electrolysis process for our specific feedstocks
10,597,751 PCT/US2015/040975 2955608 - 2015289483	Purdue University	Ligand Assisted Displacement (LAD) Chromatography for High Purity Metal Ion Separation
16/193,566	Purdue University	Preparation of Rare Earth Metals and Other Chemicals from Industrial Coal-Based Waste and Byproducts
62/578,434 PCT/US2018/057712 3080517 - 2018354377 18871054.5	Purdue University	Methods for Designing an Efficient Preparative Chromatographic Separation Process
62/982,811	Purdue University	Multi-Zone LAD Chromatography for the Purification of Complex REE Mixtures
62/982,807	Purdue University	Two-zone LAD Chromatography Method for the Purification of REEs from Waste Magnets
63/323,755	Purdue University	Multi-Dimension, Multi-Mode Chromatography Methods for Producing High Purity, High Yield Lithium, Cobalt, Nickel, and Manganese Salts From Waste Lithium-Ion Batteries and Other Feedstocks
Sponsored Research	Purdue University	Commercialized development and refinement of LAD Chromatography for our specific feedstocks
Sponsored Research	Penn State University	Pyrite Segregation and Recovery of Rare Earth Elements from Coal-Based Waste Streams



Partnerships that Matter



Davidson School of Chemical Engineering / Purdue Research Foundation - Science & Technology Expertise, Sponsored Research Partnership



Edward E. Whitacre Jr. College of Engineering - Science & Technology Expertise, Sponsored Research Partnership



Former executives at Lilly

Engineering, Design, Operational Expertise – Critical & REE Chromatography Isolation and Purification Facilities



The Heritage Group / HG Ventures – Upstream & Downstream partnership development, feedstock aggregation, materials science, environmental services

Institutionally Owned Wind Farms

Feedstock suppliers of end-of-life wind turbines / rare earth permanent magnets





Fastest Growing U.S. Supplier of High-Quality Met Carbon to the Steel Industry

Essential Ingredient in Steelmaking & Specialty Alloys / Silica

Raw Materials



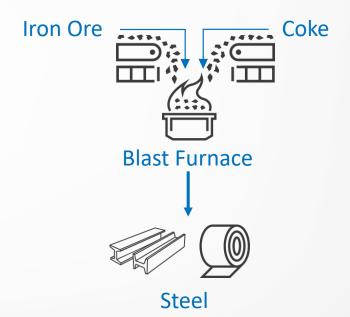
Met Carbon (for Coke)

- Heated to ~1100°C in the absence of oxygen for 12-36 hours
- Removes impurities to leave almost pure carbon



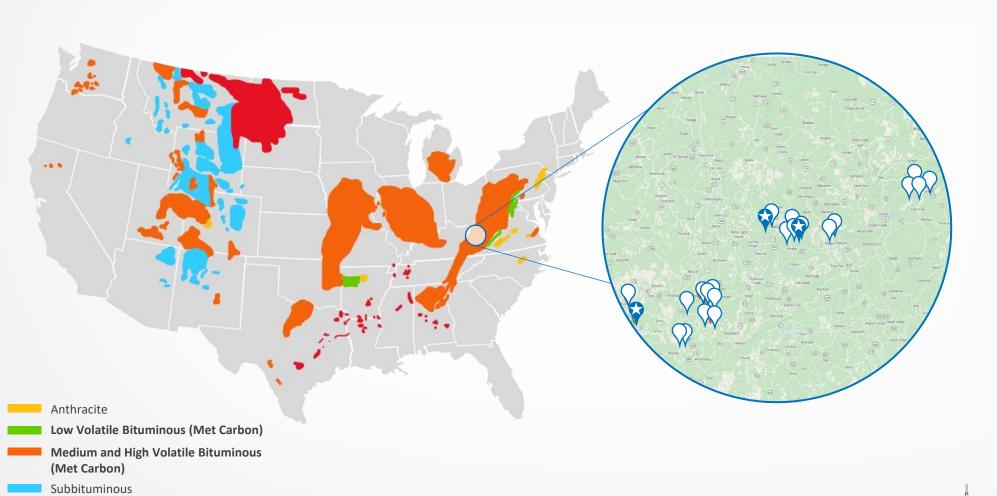
Iron Ore

Steelmaking





Large Organic Growth Potential From Current Asset Base



Currently
Active Sites

~3-4Mt

Projected
Annual
Production

>24 Portfolio Of Sites

~300Mt

Total
Current
Deposits

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Lignite

Innovative Approach Creates Significant Competitive Advantage



20-30% lower production costs over competitors



Minimum Capex needed to support organic growth



Streamlining operations to focus on efficiency and flexibility



Leveraging asset base to support parallel business lines and reduce overhead costs



ESG Successes

Environmental - Social

Environment:

Bond releases: over 7,000 net impacted acres

Environmental liabilities: reduced over \$20,000,000

Recycling strategy versus extraction to meet rare earth and battery metals domestic supply chain

Social / Community

Received the Sentinels of Safety Award

Average employee pay 200%+ above regional minimum wage

Over \$60 million in direct payroll over last four years

Creating stable jobs in economically distressed areas

ESG Initiatives

Achieve carbon neutral status by 2030

Maintain net negative new acres impacted

Investment in energy efficient equipment, supply chains and processes

Promote diversity and inclusion at all levels

Corporate philosophy built around accountability at all levels

We look to build upon track record of success with regards to environmental stewardship by physically remediating the earth and fixing the negative issues left behind by the legacy industry.



Team



Mark Jensen Chairman & CEO American Resources Corporation



Kirk Taylor CFO American Resources Corporation



Tarlis Thompson COO American Resources Corporation



Thomas Sauve President American Resources Corporation



Mark LaVerghetta
VP Corp Fin & Comms
American Resources
Corporation



Greg JensenGeneral Counsel
American Resources
Corporation



Jeff Peterson
Vice President
American Rare Earth, LLC



William Smith III
Chromatography Engineer
Industry Expert
33 years at Eli Lilly & Co.
VP Global Engineering &
Manufacturing Services



Daniel Hasler
Advisor - Former Indiana
Commerce Secretary Purdue Research
Foundation 31 years at Eli
Lilly & Co.



N.-H. Linda Wang, Ph.D. Maxine Spencer Nichols Professor, Purdue University, Davidson School of Chemical Engineering



David Sauve Vice President American Rare Earth, LLC



Gerardine Botte, Ph.D.
Whitacre Department Chair
in Chemical Engineering,
Texas Tech University,
Director – American
Resources Corporation



Yi Ding
Postdoctoral Research
Associate Purdue University
Recovery of Critical & REEs
from Complex Mixtures



Christian Alvarez-Pugliese, Ph.D. Electrolysis Project Manager American Resources Corp / CETI Lab – Texas Tech Univ.



Che-yu Chou PhD student, Purdue University Recovery of Critical & REEs from Waste Magnets



Gabriel Perez Schuster
PhD Student,
Purdue University Recovery
of Critical & REEs from
Waste Batteries



Chih-Yao (Eddie) Tsao PhD Student Purdue University Recovery of Critical & REEs from Coalbased feedstocks

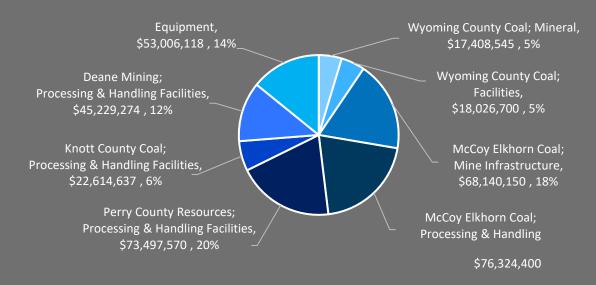


Independently Appraised Asset Value

Amassed substantial asset base at a very significant discount to replacement value, with very low leverage to support massive growth opportunities

American Resources Corp's Asset	Appraised Value ¹
Wyoming County Coal; Mineral	\$17,408,545 ²
Wyoming County Coal; Facilities	\$18,026,700 ²
McCoy Elkhorn Coal; Mine Infrastructure	\$68,140,150 ²
McCoy Elkhorn Coal; Processing & Handling Facilities	\$76,324,400 ²
Perry County Resources; Processing & Handling Facilities	\$73,497,570 ³
Knott County Coal; Processing & Handling Facilities	\$22,614,637 ³
Deane Mining; Processing & Handling Facilities	\$45,229,274 ³
Equipment	\$53,006,118 ⁴
TOTAL	\$374,247,394

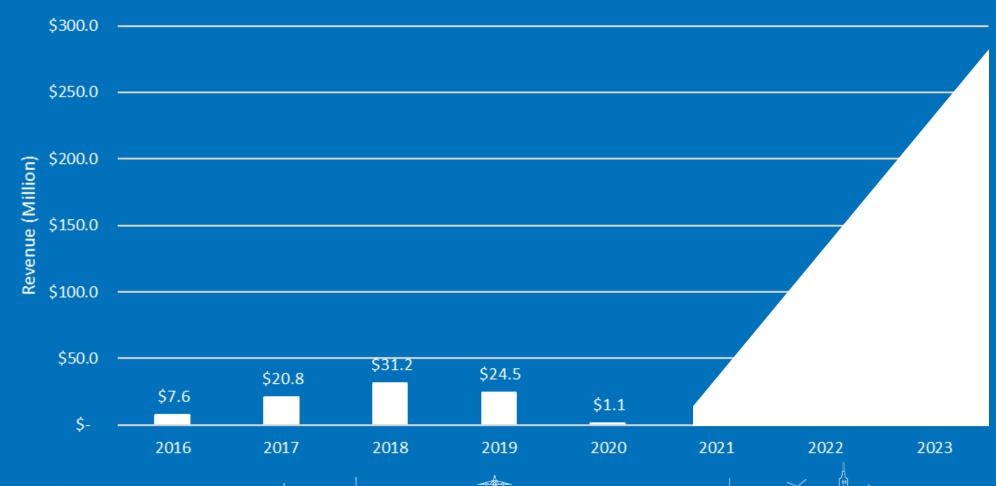
American Resources Corporation Asset Values Total Value: \$374,247,400



^{1:} Appraised replacement value or implied replacement value is based on appraisals completed on the Company assets or using metrics based on appraisals for implied replacement value; 2: Darco Appraisal; 3: Implied on Darco Appraisal of McCoy Elkhorn Coal; 4: Purchase Price, Hilco Appraisal and Replacement Cost



Year Over Year Sales





Equity Value Contributors





American Resources Corporation receives the SPAC sponsor economics from AMAO. American Resources post closing and lock up intends to dividend % of shares to underlying investors.



(Pursuing NASDAQ IPO)

AREC is focused on monetizing patents for graphene and carbon nanotube production for specific applications.

American Resources post closing and lock up intends to dividend % of owned shares to underlying investors.



Financial Snapshot **NASDAQ: AREC**

~30%

Insider Held

- Management represent the largest combined shareholder of the company
- **Intelligently Capitalized Balance Sheet**

~\$165M Market Cap

~2.0M Avg. 3m Volume¹

~65M Shares Outstanding²





Investment Summary

Fastest Growing Producer of Met Carbon and Rare Earth Elements to the Growing Global Infrastructure and Electrification Markets





Management team and strategy with proven expertise in operational excellence