



# CORE-CM

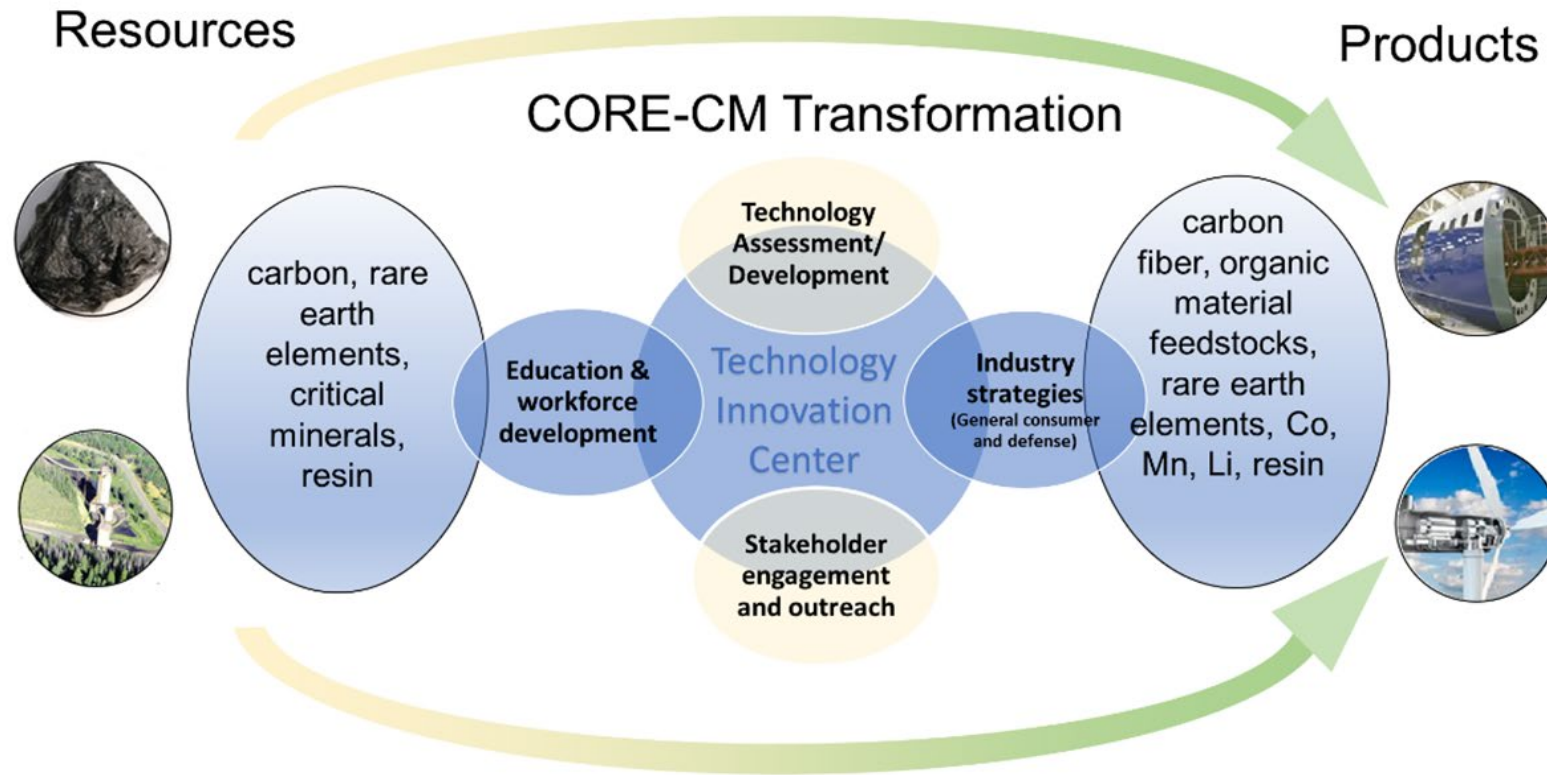
## Transforming Uinta Basin Earth Materials for Advanced Products

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December 8, 2021

# Our DOE CORE-CM Project Vision

The Objective: Transform Uinta Basin Resources Into Advanced Products



# Mission or Vision

- The objectives of this project are to quantify, assess, and plan to enable the transformation of Uinta Basin region earth resources, such as coal, oil shale, resin, rare earth elements (REE), critical minerals (CM), and waste into higher value metal, mineral, and carbon-based products.
- We will focus on areas with existing mines or core data.
- We envision Technology Innovation Center sites on the web and in Salt Lake City, Kaysville, Price, and Orangeville, Utah.

# Core pieces

- Resource Assessment and Characterization (REE/CM content/location, geology, mineralogy, coal properties for carbon products)
- Technology Assessment (processing technologies)
- Stakeholder Engagement (government, community, industry, education and workforce development)
  
- The objectives of this project are to quantify, assess, and plan to enable the transformation of Uinta Basin region earth resources

# Vision for Technology Innovation Center

- Technology Development
- Stakeholder Engagement
- Workforce Development
- Information Dissemination

# DOE CORE-CM Uinta Basin Team

- University of Utah
- UAMMI
- IACMI
- Colorado School of Mines
- Los Alamos National Lab
- Wolverine Fuels
- Utah State University - Eastern
- Energy and Geoscience Institute
- Utah Geological Survey
- Colorado Geological Survey
- JWP Consulting LLC
- Arcadia Minerals Inc.
- Black Mountain Resources
- Carbon County
- Ekomatter, LLC
- Emery County
- Energy Fuels
- FGX
- K. Marc LeVier and Associates, LLC
- Monsanto
- North American Coal Corp
- RAMACO
- Red Leaf Resources Inc.
- Seven County Infrastructure Coalition
- The Graphene Council
- UT Gov. Off. Economic Development
- UT Gov. Off. Energy Development
- Vermeer
- Utah Mining Association

***Additional team members are anticipated in future work***

# CORE-CM importance to region

- Why do you feel your CORE-CM project is important to your Region? Economic development, critical resource supply, innovative alternative carbon/REE/CM products, support of existing infrastructure, communities, and multi-resource development, educational resource utilization, attract businesses and human resources
- What are the benefits to your Region if your project is successful?

# Stakeholder Engagement

- How do you plan to engage your stakeholders?
  - We have quarterly meetings planned in which stakeholders will come together to exchange ideas and share perspectives (our first meeting is December 10, 2021)
  - We will increase our pool of stakeholders beyond the 30 we have today.
  - We will have smaller working groups in the future



# Environmental Issues

- How do you plan to address the integration of Environmental Justice (EJ), Environmental Social Governance (ESG), and/or Standards development within your project?
- We have a broad based plan that addresses these issues. We have many stakeholders that will help generate ideas to integrated EJ and ESG. The ability to use natural resources from communities that need more diversified economies will help to create appropriate opportunities that will help our country meet critical material needs to enable more green energy production. Domestic production will be more environmentally responsible than foreign production. Reusing waste and reducing the carbon footprint will also help the environment. We plan to make the world better by providing needed resources responsibly.

# Start up, Challenges, Opportunities

- How has the initiation of your project gone so far?
- What do you see as the challenges and opportunities for your project?
  - We see a great opportunity to produce nonfuel products from Uinta Basin resources that will help to diversify the local economies and provide critical materials needed domestically to move into greener energy production technologies and nonfuel carbon products.
  - The challenge is to move forward and make it happen.

Thank You!