



### Update on U.S. DOE's Office of Fossil Energy: Critical Minerals and Rare Earth Elements R&D

August 25, 2020 2:30 – 4:30 PM ET

#### Critical Minerals and Rare Earth Elements Introductory Remarks

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Steve Winberg, Assistant Secretary of Energy, Office of Fossil Energy, U.S. Department of Energy (TBC)

### Critical Minerals and Rare Earth Element Program

Traci Rodosta, Program Manager, Critical Minerals and Coal to Products, Office of Fossil Energy, U.S. Department of Energy

### National Energy Technology Laboratory (NETL) Critical Minerals and Rare Earth Element Research and Development

#### Research Portfolio Overview

Tom Tarka, Research and Innovation Center Technical Portfolio Lead, Rare Earth Elements, National Energy Technology Laboratory

# REE-SED: Developing a Geo-data Science Driven Method to Assess REE's in Coal and Related Systems

Kelly Rose, Research Geologist, Research & Innovation Center, National Energy Technology Laboratory

#### **Q&A** and Discussion

#### Critical Minerals and Rare Earth Element Bench- and Small-Scale Pilot Projects

#### **Program Portfolio Overview**

Mary Anne Alvin, Technology Manager, Rare Earth Elements and Critical Minerals Program, National Energy Technology Laboratory

### Demonstration of Scaled-Production of Rare Earth Oxides and Critical Materials from Coal-Based Sources

Rick Honaker, Chair and Professor, Department of Mining Engineering, University of Kentucky

## Development and Testing of an Integrated Acid Mine Drainage (AMD) Treatment and Rare Earth/Critical Mineral Plant

Paul Ziemkiewicz, Director, Water Research Institute, West Virginia University

# Rare Earth Element Extraction and Concentration at Pilot-Scale from North Dakota Coal-Related Feedstocks

Nolan Theaker, Research Engineer, University of North Dakota Institute for Energy Studies

High Yield and Economical Production of Rare Earth Elements from Coal Ash Dorin Preda, Principal Research Scientist & Group Leader, Material Technologies, Physical Sciences Inc.

**Q&A** and Discussion

**Future Direction and Conclusion**