MARKET ANALYSIS HIGHLIGHTS EXCITING NEW GROWTH MARKETS FOR COAL

ASSESSING THE MARKET POTENTIAL OF CARBON PRODUCTS FROM COAL

NETL’s Energy Markets Analysis Team developed a comprehensive market analysis with quantitative estimates of market size and growth for carbon products, and information on producers, importers, exporters, and the potential for coal-derived carbon products to satisfy this demand, as well as barriers to market entry.

The analysis already has informed programmatic decisions about future research directions and has highlighted markets that can consume significant amounts of coal exclusive of traditional thermal and metallurgical applications.

MARKET ANALYSIS IDENTIFIES HIGH-VALUE PRODUCTS WITH POTENTIAL TO UTILIZE MILLIONS OF TONNES OF DOMESTIC COAL

NETL’s analysis of coal-based products indicates the potential for utilizing over 145 million metric tonnes of coal to produce products worth over $140 billion in year 2050. The values are reported in year 2050 and represent a high coal penetration scenario of 80 percent of the overall product market. Several products (e.g., anodes and carbon fiber) represent high demand growth scenarios.

PARTNERSHIPS ENABLE ACCESS TO CUTTING-EDGE DATA

A collaborative partnership was established with Ramaco Carbon and the Oak Ridge National Laboratory to access state-of-the-art data on novel coal-based carbon fiber technologies to support a Life Cycle Analysis of light vehicle materials. Life cycle analysis evaluates the environmental footprint of rapidly emerging coal-based manufacturing technologies.

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PROJECT BUDGET
FY20 FUNDING

$2.5M

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PARTNERS

RAMACO CARBON

OAK RIDGE National Laboratory

2020 SCIENCE & TECHNOLOGY ACCOMPLISHMENTS

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