

# 2021 Spring Annual Meeting Virtual Meeting Sponsors

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Ramaco Carbon, based in Wyoming and part of Ramaco Coal, is the nation's first vertically integrated "Coal-Tech" company. It is pursuing a comprehensive mining, research and manufacturing platform to incubate "Coal to Products". That platform includes a billon ton mine called the Brook Mine, a research center called the iCAM, which will host top national labs, university and private research groups, all exploring innovation in advanced materials, and a "mine mouth coal-to-products" series of manufacturing plants where research from the iCAM and coal from the mine will be used to manufacture advanced carbon products.

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The International Brotherhood of Boilermakers grew out of the Industrial Revolution and the demand for steam power. Organized in 1880, we are one of the oldest unions in the United States. We are headquartered in Kansas City, Kansas (since 1893) and service more than 200 local lodges across North America.

Our union represents workers throughout the United States and Canada. Our members are employed in heavy industry, shipbuilding, manufacturing, railroads, cement, mining, and related industries. We construct and repair electric power plants, refineries, pulp and paper mills, and steel mills. We build naval ships and commercial tankers, repair locomotives, make cement, and mine coal, gypsum, and talc. We forge tools for industry and make consumer goods.

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#### THERE'S POWER IN PARTNERSHIPS:

Join us in strategic collaborations that empower smart energy policy and clean technology

The Energy Institute at West Virginia University is a proven leader in organizing large-scale multidisciplinary energy and environmental research programs. The Institute coordinates with researchers across WVU who work with industry, national labs, academic institutions and other stakeholders on coal, petroleum, natural gas, environmental and economic development projects.

In 2019, the National Research Center for Coal and Energy was merged into the Energy Institute in recognition of the focus and important role it played in WVU's long-standing commitment to safe, reliable and environmentally protective technologies for the extraction and uses of West Virginia's coal resources.

West Virginia University is proud to be an R-1 research university, a classification earned by only the top research institutions in the nation. The Institute's strengths focus on energy technologies, water research, economic development, training, international outreach, and research services.

Program highlights below. Go to ENERGY.WVU.EDU for a full list.

- US-China Clean Energy Research Center Advanced Coal Technology Consortium.
- West Virginia Water Research Institute
- National Mine Land Reclamation Center
- AVESTAR<sup>©</sup> Advanced Virtual Energy Simulation Training and Research
- US-China Energy Leaders Academic Development Program
- Energy Institute Analytical Laboratory

We invite you to learn more at the links above and contact us if you are interested in partnering.

#### **Thank You Program Sponsors!**



Advanced Emissions Solutions, Inc. is a leader in clean coal technology and the associated specialty chemicals, serving the coal-fueled power plant industry. Our proprietary environmental technologies and specialty chemicals enable power plants to enhance existing air pollution control equipment, minimize mercury, acid gases, and other emissions, maximize capacity, and improve operating efficiency to meet the challenges of existing and pending emission control regulations. Advanced Emissions Solutions, Inc. serves as the holding company for ADA-ES, Inc. Advanced Emissions Solutions, Inc. serves as the holding company for ADA-ES, Inc. and ADA Carbon Solutions, LLC.



Green Cement, Inc. is a Texas based company that manufactures and supplies low carbon emissions cement products to America's construction products industry. Green Cement's manufacturing process technology allows high performance cement to be produced with less than ten percent of the CO2 emissions released when traditional cement is manufactured. Our products are sold under the PozzoSlag® name and allow replacement of traditional cement at high ratios while improving the strength performance and lowering the costs of the resulting low carbon concrete products. Green Cement products are manufactured using natural and recovered pozzolanic minerals coupled with technology-based improvements that replicate the same

performance as achieved by the Romans using pozzolans to construct structures in Rome & Greece that have survived hundreds of years. Our technology allows pozzolanic mineral based cements to achieve the same fast set times and same performance of traditional cements, normally used in modern day construction, while avoiding the carbon emissions of a thermal production process used by traditional cement manufacturing.

Green Cement products are approved by the Texas Department of Transportation and have been used for more than 10 years in every type of construction project from roads, bridges, pipe manufacture and specialty applications where high performance and lower costs are desired. To learn more about Green Cement Inc. and low carbon emission cement, please contact Danny L. Gray, P.E. - Green Cement Inc. at <a href="https://www.greencement.com">www.greencement.com</a>.



Synfuels Americas is the provider of the world leading, commercially proven conversion technology. We promote international research and business development in the support of sustainable, clean fossil fuel energy for the future.

#### Thank You Banner Sponsor!



The American Public Power Association is the voice of not-for-profit, community-owned utilities that power 2,000 towns and cities nationwide. We represent public power before the federal government to protect the interests of the more than 49 million people that public power utilities serve, and the 93,000 people they employ. Our association advocates and advises on electricity policy, technology, trends, training, and operations. Our members strengthen their communities by providing superior service, engaging citizens, and instilling pride in community-owned power.



## NCC Would Like to Put The Spot Light On Our Newest Members!

### **PRAIRIE STATE**

### **Generating Company**

The Prairie State Generating Company (PSGC) is the operating company of the Prairie State Energy Campus (PSEC). Located in Washington County, Illinois, the PSEC is a technologically advanced electric generation facility, 95 percent owned by not-for-profit utilities and rural electric cooperatives. Prairie State's owners are committed to providing clean, reliable, and affordable baseload power to the more than 2.5 million families they serve across 180 communities from Missouri to West Virginia.

The PSEC is comprised of a 1,600 megawatt coal-fired power plant and adjacent underground coal mine. Prairie State's power plant design incorporates supercritical technology and \$1 billion of emissions control equipment; consuming less coal to produce more energy, while achieving one of the best levels of pollution removal in the country. Prairie State also utilizes domestic Illinois coal as its sole power source, derived from its adjacent underground mine, which eliminates the carbon dioxide emissions associated with coal transported from elsewhere. With its combined design efficiencies, Prairie State's carbon footprint is significantly smaller than the typical U.S. coal plant.



The International CCS Knowledge Centre (Knowledge Centre) is dedicated to advancing the understanding and use of large-scale carbon capture and storage (CCS) as a means of managing greenhouse (GHG) emissions. Through experience-based guidance, the Knowledge Centre provides the know-how to implement and optimize large-scale CCS projects through the base learnings from both the fully-integrated Boundary Dam 3 CCS Facility and the comprehensive second-generation CCS study, known as the Shand Study. The Knowledge Centre was founded in 2016 as a non-profit organization by BHP and SaskPower. *ccsknowledge.com*