

Coal to Carbon Fiber (Carbon County) Timelines & Indicators

Carbon County's coal to carbon fiber program is a collaborative effort between the County and the University of Utah. Under a \$1.6 million grant from the Economic Development Administration, the University of Utah is advancing a program to manufacture low cost carbon fiber out of Utah coal.

Recognizing the high-impact potential of this program, the University of Utah is working with the U.S. Department of Energy ("DOE") to create a multi-state collaboration with the State of Utah as the lead. This program's target size is \$5 - \$10 million per year over a ten year period.

This legislative appropriation of \$500,000 will position the program for further development within the DOE.

Key Success Factors for FY19

- Scale coal pitch production for commercial testing
- Partner with Oak Ridge National Lab and the University of Kentucky to produce up to 250 lbs of carbon fiber per day made from Utah coal
- Perform R&D to lower the cost of turning Utah coal into carbon fiber
- Further develop DOE program

Timelines for FY19

Scale-up Coal Pitch Production – Timeline: July 2018 to Dec 2019

- Producing up to 300 lbs of Utah coal pitch per day

Produce High Volume of Carbon Fiber for Commercial Testing

- Target production of up to 250 lbs of Utah-coal carbon fiber per day – Complete by July 2019

Develop Processes to Lower Cost of Carbon Fiber

- Perform advanced R&D to lower cost of manufacturing carbon fiber from Utah coal – Complete by July 2019

Further Develop DOE Program

- Secure high-value contract from DOE to advance the multi-state effort – Complete by February 2019