

## **H.R. \_\_\_\_, the New Energy Frontiers Through Carbon Innovation Act of 2020**

### **Overview:**

H.R. \_\_\_\_, the New Energy Frontiers Through Carbon Innovation Act of 2020, requires the Secretary of Energy to establish a carbon utilization research hub and a program for the research, development, and demonstration of commercially viable technologies for the capture of carbon dioxide produced during the production of natural gas-generated power.

### **Summary of Major Provisions:**

#### **Sec. 2 Carbon Utilization Research Hub:**

This section authorizes a Department of Energy (DOE) program to conduct basic and fundamental research in materials science, chemistry, subsurface instrumentation, and data analysis to inform the development of new carbon capture, storage, and utilization technologies and techniques.

To carry out this work, DOE is authorized to establish a Carbon Utilization Energy Innovation Hub, which will explore novel ways to capture, store, and utilize carbon in partnership with industry. This research hub will specifically utilize basic and fundamental science discoveries to develop new uses for carbon, with the goal of transforming CO<sub>2</sub> from a waste product into a valuable commodity.

#### **Sec. 3 Natural Gas Carbon Capture R&D:**

This section would explicitly authorize research, development, and demonstration of carbon capture technologies for natural gas generated power. The bill directs \$50 million from within the DOE Office of Fossil Energy's existing appropriations level for this purpose.

In addition to early stage research and development efforts, the bill establishes a demonstration program to allow industry to partner with DOE to construct pilot projects and demonstrate technologies developed through the program at up to five facilities. This program will allow industry to test carbon capture technologies in the field in order to speed their commercial deployment by the private sector.