

shall establish a Complex Well Technology Testing Facility at the Rocky Mountain Oilfield Testing Center to increase the range of extended drilling technologies.

(Pub. L. 109-58, title IX, §967, Aug. 8, 2005, 119 Stat. 894.)

§ 16298. Carbon utilization program

(a) In general

The Secretary, in consultation with the Administrator of the Environmental Protection Agency, shall carry out a program of research, development, demonstration, and commercialization relating to carbon utilization.

(b) Activities

Under the program described in subsection (a), the Secretary shall—

(1) assess and monitor—

(A) potential changes in lifecycle carbon dioxide and other greenhouse gas emissions; and

(B) other environmental safety indicators of new technologies, practices, processes, or methods used in enhanced hydrocarbon recovery as part of the activities authorized under section 16293 of this title;

(2) identify and evaluate novel uses for carbon (including conversion of carbon oxides) that, on a full lifecycle basis, achieve a permanent reduction, or avoidance of a net increase, in carbon dioxide in the atmosphere, for use in commercial and industrial products such as—

(A) chemicals;

(B) plastics;

(C) building materials;

(D) fuels;

(E) cement;

(F) products of coal utilization in power systems or in other applications; and

(G) other products with demonstrated market value;

(3) identify and assess carbon capture technologies for industrial systems; and

(4) identify and assess alternative uses for coal that result in zero net emissions of carbon dioxide or other pollutants, including products derived from carbon engineering, carbon fiber, and coal conversion methods.

(c) Prioritization

In supporting demonstration and commercialization research under the program described in subsection (a), the Secretary shall prioritize consideration of projects that—

(1) have access to a carbon dioxide emissions stream generated by a stationary source in the United States that is capable of supplying not less than 250 metric tons per day of carbon dioxide for research;

(2) have access to equipment for testing small-scale carbon dioxide utilization technologies, with onsite access to larger test bays for scale-up; and

(3) have 1 or more existing partnerships with a National Laboratory, an institution of higher education, a private company, or a State or other government entity.

(d) Coordination

The Secretary shall coordinate the activities authorized under this section with the activities

authorized in section 16298a of this title as part of a single consolidated program of the Department.

(e) Authorization of appropriations

There is authorized to be appropriated to the Secretary to carry out this section \$50,000,000, to remain available until expended.

(Pub. L. 109-58, title IX, §969, as added Pub. L. 116-260, div. S, §102(c)(1), Dec. 27, 2020, 134 Stat. 2248.)

§ 16298a. Carbon utilization program

(a) In general

The Secretary shall establish a program of research, development, and demonstration for carbon utilization—

(1) to assess and monitor—

(A) potential changes in lifecycle carbon dioxide and other greenhouse gas emissions; and

(B) other environmental safety indicators of new technologies, practices, processes, or methods used in enhanced hydrocarbon recovery as part of the activities authorized under section 16293 of this title;

(2) to identify and assess novel uses for carbon, including the conversion of carbon and carbon oxides for commercial and industrial products and other products with potential market value;

(3) to develop or obtain, in coordination with other applicable Federal agencies and standard-setting organizations, standards and certifications, as appropriate, to facilitate the commercialization of the products and technologies described in paragraph (2);

(4) to identify and assess carbon capture technologies for industrial systems; and

(5) to identify and assess alternative uses for raw coal and processed coal products in all phases that result in no significant emissions of carbon dioxide or other pollutants, including products derived from carbon engineering, carbon fiber, and coal conversion methods.

(b) Demonstration programs for the purpose of commercialization

(1) In general

Not later than 180 days after December 27, 2020, as part of the program established under subsection (a), the Secretary shall establish a 2-year demonstration program in each of the 2 major coal-producing regions of the United States for the purpose of partnering with private institutions in coal mining regions to accelerate the commercial deployment of coal-carbon products.

(2) Grant program

(A) In general

Not later than 1 year after November 15, 2021, the Secretary shall establish a program to provide grants to eligible entities to use in accordance with subparagraph (D).

(B) Eligible entities

To be eligible to receive a grant under this paragraph, an entity shall be—

(i) a State;