

(A) modeling, simulation, and optimization of the design of energy efficient and sustainable products; and

(B) the use of digital prototyping and additive manufacturing to enhance product design.

(g) Testing and validation

The Secretary, in consultation with the Director of the National Institute of Standards and Technology, shall support the development of standardized testing and technical validation of advanced and commercially available steelmaking and low-emissions steel manufacturing through collaboration with one or more National Laboratories, and one or more eligible entities.

(h) Demonstration

(1) Establishment

Not later than 180 days after August 9, 2022, the Secretary, in carrying out the program established in subsection (c), and in collaboration with industry partners, institutions of higher education, and the National Laboratories, shall support an initiative for the demonstration of low-emissions steel manufacturing, as identified by the Secretary, that uses either—

(A) a single technology; or

(B) a combination of multiple technologies.

(2) Selection requirements

Under the initiative established under paragraph (1), the Secretary shall select eligible entities to carry out demonstration projects and to the maximum extent practicable—

(A) encourage regional diversity among eligible entities, including participation by rural States;

(B) encourage technological diversity among eligible entities; and

(C) ensure that specific projects selected—

(i) expand on the existing technology demonstration programs of the Department; and

(ii) prioritize projects that leverage matching funds from non-Federal sources.

(3) Reports

The Secretary shall submit to the Committee on Science, Space, and Technology of the House of Representatives and the Committee on Energy and Natural Resources of the Senate—

(A) not less frequently than once every two years for the duration of the demonstration initiative under this subsection, a report describing the performance of the initiative; and

(B) if the initiative established under this subsection is terminated, an assessment of the success of, and education provided by, the measures carried out by recipients of financial assistance under the initiative.

(i) Additional coordination

(1) Manufacturing U.S.A.

In carrying out this section the Secretary shall consider—

(A) leveraging the resources of relevant existing Manufacturing USA Institutes described in section 278s(d) of title 15;

(B) integrating program activities into a relevant existing Manufacturing USA Institute; or

(C) establishing a new institute focused on low-emissions steel manufacturing.

(2) Other Federal agencies

In carrying out this section, the Secretary shall coordinate with other Federal agencies that are carrying out research and development initiatives to increase industrial competitiveness and achieve significant net nonwater greenhouse emissions reductions through low-emissions steel manufacturing, including the Department of Defense, Department of Transportation, and the National Institute of Standards and Technology.

(Pub. L. 110-140, title IV, § 454A, as added Pub. L. 117-167, div. B, title VI, § 10751(a), Aug. 9, 2022, 136 Stat. 1722.)

Editorial Notes

REFERENCES IN TEXT

Title VI of division Z of the Consolidated Appropriations Act, 2021, referred to in subsec. (d)(1), is title VI of div. Z of Pub. L. 116-260, Dec. 27, 2020, 134 Stat. 2552, which enacted sections 17113 and 17114 to 17115a of this title, amended section 6351 of this title, and enacted provisions set out as a note under section 17113 of this title. For complete classification of title VI to the Code, see Tables.

§ 17113b. Advanced industrial facilities deployment program

(a) Office of Clean Energy Demonstrations

In addition to amounts otherwise available, there is appropriated to the Secretary, acting through the Office of Clean Energy Demonstrations, for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, \$5,812,000,000, to remain available through September 30, 2026, to carry out this section.

(b) Financial assistance

The Secretary shall use funds appropriated by subsection (a) to provide financial assistance, on a competitive basis, to eligible entities to carry out projects for—

(1) the purchase and installation, or implementation, of advanced industrial technology at an eligible facility;

(2) retrofits, upgrades to, or operational improvements at an eligible facility to install or implement advanced industrial technology; or

(3) engineering studies and other work needed to prepare an eligible facility for activities described in paragraph (1) or (2).

(c) Application

To be eligible to receive financial assistance under subsection (b), an eligible entity shall submit to the Secretary an application at such time, in such manner, and containing such information as the Secretary may require, including the expected greenhouse gas emissions reductions to be achieved by carrying out the project.

(d) Priority

In providing financial assistance under subsection (b), the Secretary shall give priority

consideration to projects on the basis of, as determined by the Secretary—

(1) the expected greenhouse gas emissions reductions to be achieved by carrying out the project;

(2) the extent to which the project would provide the greatest benefit for the greatest number of people within the area in which the eligible facility is located; and

(3) whether the eligible entity participates or would participate in a partnership with purchasers of the output of the eligible facility.

(e) Cost share

The Secretary shall require an eligible entity to provide not less than 50 percent of the cost of a project carried out pursuant to this section.

(f) Administrative costs

The Secretary shall reserve not more than \$300,000,000 of amounts made available under subsection (a) for administrative costs of carrying out this section.

(g) Definitions

In this section:

(1) Advanced industrial technology

The term “advanced industrial technology” means a technology directly involved in an industrial process, as described in any of paragraphs (1) through (6) of section 17113(c) of this title, and designed to accelerate greenhouse gas emissions reduction progress to net-zero at an eligible facility, as determined by the Secretary.

(2) Eligible entity

The term “eligible entity” means the owner or operator of an eligible facility.

(3) Eligible facility

The term “eligible facility” means a domestic, non-Federal, nonpower industrial or manufacturing facility engaged in energy-intensive industrial processes, including production processes for iron, steel, steel mill products, aluminum, cement, concrete, glass, pulp, paper, industrial ceramics, chemicals, and other energy intensive industrial processes, as determined by the Secretary.

(4) Financial assistance

The term “financial assistance” means a grant, rebate, direct loan, or cooperative agreement.

(Pub. L. 117–169, title V, §50161, Aug. 16, 2022, 136 Stat. 2049.)

Editorial Notes

CODIFICATION

Section was enacted as part of Pub. L. 117–169, and not as part of the Energy Independence and Security Act of 2007 which comprises this chapter.

Statutory Notes and Related Subsidiaries

DEFINITIONS

Pub. L. 117–169, title V, §50111, Aug. 16, 2022, 136 Stat. 2033, provided that:

“In this subtitle [subtitle A (§§50111–50173) of title V of Pub. L. 117–169, enacting this section, sections 16517, 18715 to 18715b, and 18795 to 18795b of this title, and

amending sections 16511, 16512, and 17013 of this title and section 3502 of Title 25, Indians]:

“(1) GREENHOUSE GAS.—The term ‘greenhouse gas’ has the meaning given the term in section 1610(a) of the Energy Policy Act of 1992 (42 U.S.C. 13389(a)).

“(2) SECRETARY.—The term ‘Secretary’ means the Secretary of Energy.

“(3) STATE.—The term ‘State’ means a State, the District of Columbia, and a United States Insular Area (as that term is defined in section 50211 [of Pub. L. 117–169; 43 U.S.C. 3006 note]).

“(4) STATE ENERGY OFFICE.—The term ‘State energy office’ has the meaning given the term in section 124(a) of the Energy Policy Act of 2005 (42 U.S.C. 15821(a)).

“(5) STATE ENERGY PROGRAM.—The term ‘State Energy Program’ means the State Energy Program established pursuant to part D of title III of the Energy Policy and Conservation Act (42 U.S.C. 6321 through 6326).”

§ 17114. Industrial Technology Innovation Advisory Committee

(a) Definitions

In this section:

(1) Committee

The term “Committee” means the Industrial Technology Innovation Advisory Committee established under subsection (b).

(2) Director

The term “Director” means the Director of the Office of Science and Technology Policy.

(3) Emissions reduction

The term “emissions reduction” has the meaning given the term in section 17113(a) of this title.

(4) Program

The term “program” means the industrial emissions reduction technology development program established under section 17113(b)(1) of this title.

(b) Establishment

Not later than 180 days after December 27, 2020, the Secretary, in consultation with the Director, shall establish an advisory committee, to be known as the “Industrial Technology Innovation Advisory Committee”.

(c) Membership

(1) Appointment

The Committee shall be comprised of not fewer than 16 members and not more than 20 members, who shall be appointed by the Secretary, in consultation with the Director.

(2) Representation

Members appointed pursuant to paragraph (1) shall include—

(A) not less than 1 representative of each relevant Federal agency, as determined by the Secretary;

(B) the Chair of the Secretary of Energy Advisory Board, if that position is filled;

(C) not less than 2 representatives of labor groups;

(D) not less than 3 representatives of the research community, which shall include academia and National Laboratories;

(E) not less than 2 representatives of non-governmental organizations;