

Editorial Notes

REFERENCES IN TEXT

The Federal Advisory Committee Act, referred to in subsec. (h), is Pub. L. 92-463, Oct. 6, 1972, 86 Stat. 770, which is set out in the Appendix to Title 5, Government Organization and Employees.

§ 17115. Technical assistance program to implement industrial emissions reduction**(a) Definitions**

In this section:

(1) Eligible entity

The term “eligible entity” means—

- (A) a State;
- (B) a unit of local government;
- (C) a territory or possession of the United States;
- (D) a relevant State or local office, including an energy office;
- (E) a tribal organization (as defined in section 3765 of title 38);
- (F) an institution of higher education; and¹
- (G) a private entity; and
- (H) a trade association or technical society.

(2) Emissions reduction

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

(3) Program

The term “program” means the program established under subsection (b).

(b) Establishment

Not later than 1 year after December 27, 2020, the Secretary shall establish a program to provide technical assistance to eligible entities to promote the commercial application of emission reduction technologies developed through the program established in section 17113(b) of this title.

(c) Applications**(1) In general**

An eligible entity desiring technical assistance under the program shall submit to the Secretary an application at such time, in such manner, and containing such information as the Secretary may require.

(2) Application process

The Secretary shall seek applications for technical assistance under the program on a periodic basis, but not less frequently than once every 12 months.

(3) Factors for consideration

In selecting eligible entities for technical assistance under the program, the Secretary shall, to the maximum extent practicable—

- (A) give priority to—
 - (i) activities carried out with technical assistance under the program that have the greatest potential for achieving emissions reduction in nonpower industrial sectors;

- (ii) activities carried out in a State in which there are active or inactive industrial facilities that may be used or retrofitted to carry out activities under the focus areas described in section 17113(c) of this title; and

- (iii) activities carried out in an economically distressed area (as described in section 3161(a) of this title); and

(B) ensure that—

- (i) there is geographic diversity among the eligible entities selected; and
- (ii) the activities carried out with technical assistance under the program reflect a majority of the focus areas described in section 17113(c) of this title.

(Pub. L. 110-140, title IV, § 456, as added Pub. L. 116-260, div. Z, title VI, § 6005(a), Dec. 27, 2020, 134 Stat. 2559.)

§ 17115a. Development of national smart manufacturing plan**(a) In general**

Not later than 3 years after December 27, 2020, the Secretary of Energy (in this section referred to as the “Secretary”), in consultation with the National Academies, shall develop and complete a national plan for smart manufacturing technology development and deployment to improve the productivity and energy efficiency of the manufacturing sector of the United States.

(b) Content**(1) In general**

The plan developed under subsection (a) shall identify areas in which agency actions by the Secretary and other heads of relevant Federal agencies would—

- (A) facilitate quicker development, deployment, and adoption of smart manufacturing technologies and processes;
- (B) result in greater energy efficiency and lower environmental impacts for all American manufacturers; and
- (C) enhance competitiveness and strengthen the manufacturing sectors of the United States.

(2) Inclusions

Agency actions identified under paragraph (1) shall include—

- (A) an assessment of previous and current actions of the Department relating to smart manufacturing;
- (B) the establishment of voluntary interconnection protocols and performance standards;
- (C) the use of smart manufacturing to improve energy efficiency and reduce emissions in supply chains across multiple companies;
- (D) actions to increase cybersecurity in smart manufacturing infrastructure;
- (E) deployment of existing research results;
- (F) the leveraging of existing high-performance computing infrastructure; and
- (G) consideration of the impact of smart manufacturing on existing manufacturing jobs and future manufacturing jobs.

(c) Biennial revisions

Not later than 2 years after the date on which the Secretary completes the plan under sub-

¹ So in original.

section (a), and not less frequently than once every 2 years thereafter, the Secretary shall revise the plan to account for advancements in information and communication technology and manufacturing needs.

(d) Report

Annually until the completion of the plan under subsection (a), the Secretary shall submit to Congress a report on the progress made in developing the plan.

(e) Definition

In this section, the term “smart manufacturing” means advanced technologies in information, automation, monitoring, computation, sensing, modeling, artificial intelligence, analytics, and networking that—

(1) digitally—

(A) simulate manufacturing production lines;

(B) operate computer-controlled manufacturing equipment;

(C) monitor and communicate production line status; and

(D) manage and optimize energy productivity and cost throughout production;

(2) model, simulate, and optimize the energy efficiency of a factory building;

(3) monitor and optimize building energy performance;

(4) model, simulate, and optimize the design of energy efficient and sustainable products, including the use of digital prototyping and additive manufacturing to enhance product design;

(5) connect manufactured products in networks to monitor and optimize the performance of the networks, including automated network operations; and

(6) digitally connect the supply chain network.

(Pub. L. 116–260, div. Z, title VI, §6006, Dec. 27, 2020, 134 Stat. 2560.)

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CODIFICATION

Section was enacted as part of the Energy Act of 2020, and not as part of the Energy Independence and Security Act of 2007 which comprises this chapter.

§ 17116. Industrial research and assessment centers

(a) Definitions

In this section:

(1) Covered project

The term “covered project” means a project—

(A) that has been recommended in an energy assessment described in paragraph (2)(A) conducted for an eligible entity; and

(B) with respect to which the plant site of that eligible entity—

(i) improves—

- (I) energy efficiency;
- (II) material efficiency;
- (III) cybersecurity; or
- (IV) productivity; or

(ii) reduces—

(I) waste production;

(II) greenhouse gas emissions; or

(III) nongreenhouse gas pollution.

(2) Eligible entity

The term “eligible entity” means a small- or medium-sized manufacturer that has had an energy assessment completed by—

(A) an industrial research and assessment center;

(B) a Department of Energy Combined Heat and Power Technical Assistance Partnership jointly with an industrial research and assessment center; or

(C) a third-party assessor that provides an assessment equivalent to an assessment described in subparagraph (A) or (B), as determined by the Secretary.

(3) Energy service provider

The term “energy service provider” means—

(A) any business providing technology or services to improve the energy efficiency, water efficiency, power factor, or load management of a manufacturing site or other industrial process in an energy-intensive industry (as defined in section 17111(a) of this title); and

(B) any utility operating under a utility energy service project.

(4) Industrial research and assessment center

The term “industrial research and assessment center” means—

(A) an institution of higher education-based industrial research and assessment center that is funded by the Secretary under subsection (b); and

(B) an industrial research and assessment center at a trade school, community college, or union training program that is funded by the Secretary under subsection (f).

(5) Program

The term “Program” means the program for implementation grants established under subsection (i)(1).

(6) Small- or medium-sized manufacturer

The term “small- or medium-sized manufacturer” means a manufacturing firm—

(A) the gross annual sales of which are less than \$100,000,000;

(B) that has fewer than 500 employees at the plant site of the manufacturing firm; and

(C) the annual energy bills of which total more than \$100,000 but less than \$3,500,000.

(b) Institution of higher education-based industrial research and assessment centers

(1) In general

The Secretary shall provide funding to institution of higher education-based industrial research and assessment centers.

(2) Purpose

The purpose of each institution of higher education-based industrial research and assessment center shall be—

(A) to provide in-depth assessments of small- and medium-sized manufacturer plant sites to evaluate the facilities, services, and manufacturing operations of the plant sites;