

assessment centers at trade schools, community colleges, and union training programs.

(2) Purpose

(A) In general

Subject to subparagraph (B), to the maximum extent practicable, an industrial research and assessment center established under paragraph (1) shall have the same purpose as an institution of higher education-based industrial research center that is funded by the Secretary under subsection (b)(1).

(B) Consideration of capabilities

In evaluating or establishing the purpose of an industrial research and assessment center established under paragraph (1), the Secretary shall take into consideration the varying capabilities of trade schools, community colleges, and union training programs.

(g) Workforce training

(1) Internships

The Secretary shall pay the Federal share of associated internship programs under which students work with or for industries, manufacturers, and energy service providers to implement the recommendations of industrial research and assessment centers.

(2) Apprenticeships

The Secretary shall pay the Federal share of associated apprenticeship programs under which—

(A) students work with or for industries, manufacturers, and energy service providers to implement the recommendations of industrial research and assessment centers; and

(B) employees of facilities that have received an assessment from an industrial research and assessment center work with or for an industrial research and assessment center to gain knowledge on engineering practices and processes to improve productivity and energy savings.

(3) Federal share

The Federal share of the cost of carrying out internship programs described in paragraph (1) and apprenticeship programs described in paragraph (2) shall be 50 percent.

(h) Small business loans

The Administrator of the Small Business Administration shall, to the maximum extent practicable, expedite consideration of applications from eligible small business concerns for loans under the Small Business Act (15 U.S.C. 631 et seq.) to implement recommendations developed by the industrial research and assessment centers.

(i) Implementation grants

(1) In general

The Secretary shall establish a program under which the Secretary shall provide grants to eligible entities to implement covered projects.

(2) Application

An eligible entity seeking a grant under the Program shall submit to the Secretary an ap-

plication at such time, in such manner, and containing such information as the Secretary may require, including a demonstration of need for financial assistance to implement the proposed covered project.

(3) Priority

In awarding grants under the Program, the Secretary shall give priority to eligible entities that—

(A) have had an energy assessment completed by an industrial research and assessment center; and

(B) propose to carry out a covered project with a greater potential for—

(i) energy efficiency gains; or

(ii) greenhouse gas emissions reductions.

(4) Grant amount

(A) Maximum amount

The amount of a grant provided to an eligible entity under the Program shall not exceed \$300,000.

(B) Federal share

A grant awarded under the Program for a covered project shall be in an amount that is not more than 50 percent of the cost of the covered project.

(C) Supplement

A grant received by an eligible entity under the Program shall supplement, not supplant, any private or State funds available to the eligible entity to carry out the covered project.

(j) Authorization of appropriations

There are authorized to be appropriated to the Secretary for the period of fiscal years 2022 through 2026—

(1) \$150,000,000 to carry out subsections (a) through (h); and

(2) \$400,000,000 to carry out subsection (i).

(Pub. L. 110-140, title IV, § 457, as added Pub. L. 117-58, div. D, title V, § 40521(b), Nov. 15, 2021, 135 Stat. 1062.)

Editorial Notes

REFERENCES IN TEXT

The Small Business Act, referred to in subsec. (h), is Pub. L. 85-536, §2(1 et seq.), July 18, 1958, 72 Stat. 384, which is classified generally to chapter 14A (§631 et seq.) of Title 15, Commerce and Trade. For complete classification of this Act to the Code, see Short Title note set out under section 631 of Title 15 and Tables.

Statutory Notes and Related Subsidiaries

WAGE RATE REQUIREMENTS

For provisions relating to rates of wages to be paid to laborers and mechanics on projects for construction, alteration, or repair work funded under div. D or an amendment by div. D of Pub. L. 117-58, including authority of Secretary of Labor, see section 18851 of this title.

PART E—GENERAL PROVISIONS

§ 17121. Demonstration project

(a) In general

The Federal Director and the Commercial Director shall establish guidelines to implement a

demonstration project to contribute to the research goals of the Office of Commercial High-Performance Green Buildings and the Office of Federal High-Performance Green Buildings.

(b) Projects

In accordance with guidelines established by the Federal Director and the Commercial Director under subsection (a) and the duties of the Federal Director and the Commercial Director described in this title,¹ the Federal Director or the Commercial Director shall carry out—

(1) for each of fiscal years 2009 through 2014, 1 demonstration project per year of green features in a Federal building selected by the Federal Director in accordance with relevant agencies and described in subsection (c)(1), that—

(A) provides for instrumentation, monitoring, and data collection related to the green features, for study of the impact of the features on overall energy use and operational costs, and for the evaluation of the information obtained through the conduct of projects and activities under this title;¹ and

(B) achieves the highest rating offered by the high performance green building system identified pursuant to section 17092(h) of this title;

(2) no fewer than 4 demonstration projects at 4 universities, that, as competitively selected by the Commercial Director in accordance with subsection (c)(2), have—

(A) appropriate research resources and relevant projects to meet the goals of the demonstration project established by the Office of Commercial High-Performance Green Buildings; and

(B) the ability—

(i) to serve as a model for high-performance green building initiatives, including research and education² by achieving the highest rating offered by the high performance green building system identified pursuant to section 17092(h) of this title;

(ii) to identify the most effective ways to use high-performance green building and landscape technologies to engage and educate undergraduate and graduate students;

(iii) to effectively implement a high-performance green building education program for students and occupants;

(iv) to demonstrate the effectiveness of various high-performance technologies, including their impacts on energy use and operational costs, in each of the 4 climatic regions of the United States described in subsection (c)(2)(B); and

(v) to explore quantifiable and nonquantifiable beneficial impacts on public health and employee and student performance;

(3) demonstration projects to evaluate replicable approaches of achieving high performance in actual building operation in various types of commercial buildings in various climates; and

(4) deployment activities to disseminate information on and encourage widespread adop-

tion of technologies, practices, and policies to achieve zero-net-energy commercial buildings or low energy use and effective monitoring of energy use in commercial buildings.

(c) Criteria

(1) Federal facilities

With respect to the existing or proposed Federal facility at which a demonstration project under this section is conducted, the Federal facility shall—

(A) be an appropriate model for a project relating to—

(i) the effectiveness of high-performance technologies;

(ii) analysis of materials, components, systems, and emergency operations in the building, and the impact of those materials, components, and systems, including the impact on the health of building occupants;

(iii) life-cycle costing and life-cycle assessment of building materials and systems; and

(iv) location and design that promote access to the Federal facility through walking, biking, and mass transit; and

(B) possess sufficient technological and organizational adaptability.

(2) Universities

With respect to the 4 universities at which a demonstration project under this section is conducted—

(A) the universities should be selected, after careful review of all applications received containing the required information, as determined by the Commercial Director, based on—

(i) successful and established public-private research and development partnerships;

(ii) demonstrated capabilities to construct or renovate buildings that meet high indoor environmental quality standards;

(iii) organizational flexibility;

(iv) technological adaptability;

(v) the demonstrated capacity of at least 1 university to replicate lessons learned among nearby or sister universities, preferably by participation in groups or consortia that promote sustainability;

(vi) the demonstrated capacity of at least 1 university to have officially-adopted, institution-wide “high-performance green building” guidelines for all campus building projects; and

(vii) the demonstrated capacity of at least 1 university to have been recognized by similar institutions as a national leader in sustainability education and curriculum for students of the university; and

(B) each university shall be located in a different climatic region of the United States, each of which regions shall have, as determined by the Office of Commercial High-Performance Green Buildings—

(i) a hot, dry climate;

(ii) a hot, humid climate;

¹ See References in Text note below.

² So in original. A comma probably should appear.

- (iii) a cold climate; or
- (iv) a temperate climate (including a climate with cold winters and humid summers).

(d) Applications

To receive a grant under subsection (b), an eligible applicant shall submit to the Federal Director or the Commercial Director an application at such time, in such manner, and containing such information as the Director may require, including a written assurance that all laborers and mechanics employed by contractors or subcontractors during construction, alteration, or repair that is financed, in whole or in part, by a grant under this section shall be paid wages at rates not less than those prevailing on similar construction in the locality, as determined by the Secretary of Labor in accordance with sections 3141 through 3144, 3146, and 3147 of title 40. The Secretary of Labor shall, with respect to the labor standards described in this subsection, have the authority and functions set forth in Reorganization Plan Numbered 14 of 1950 (5 U.S.C. App.) and section 3145 of title 40.

(e) Report

Not later than 1 year after December 19, 2007, and annually thereafter through September 30, 2014—

- (1) the Federal Director and the Commercial Director shall submit to the Secretary a report that describes the status of the demonstration projects; and
- (2) each University at which a demonstration project under this section is conducted shall submit to the Secretary a report that describes the status of the demonstration projects under this section.

(f) Authorization of appropriations

There is authorized to be appropriated to carry out the demonstration project described in section³ (b)(1), \$10,000,000 for the period of fiscal years 2008 through 2012, and to carry out the demonstration project described in section³ (b)(2), \$10,000,000 for the period of fiscal years 2008 through 2012, to remain available until expended.

(Pub. L. 110-140, title IV, § 491, Dec. 19, 2007, 121 Stat. 1649.)

Editorial Notes

REFERENCES IN TEXT

This title, referred to in subsec. (b), is title IV of Pub. L. 110-140, Dec. 19, 2007, 121 Stat. 1596, which enacted this subchapter, part C (§ 6341 et seq.) of subchapter III of chapter 77 of this title, sections 6371h-1 and 7628 of this title, and subchapter V (§ 2695 et seq.) of chapter 53 of Title 15, Commerce and Trade, amended sections 6832, 6834, 6862, 6872, 8253, 8254, and 12709 of this title, and enacted provisions set out as notes under sections 6834 and 6872 of this title. For complete classification of title IV to the Code, see Tables.

Reorganization Plan Numbered 14 of 1950, referred to in subsec. (d), is set out in the Appendix to Title 5, Government Organization and Employees.

³So in original. Probably should be "subsection".

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE

Section effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110-140, set out as a note under section 1824 of Title 2, The Congress.

§ 17122. Research and development

(a) Establishment

The Federal Director and the Commercial Director, jointly and in coordination with the Advisory Committee, shall—

(1)(A) survey existing research and studies relating to high-performance green buildings; and

(B) coordinate activities of common interest;

(2) develop and recommend a high-performance green building research plan that—

(A) identifies information and research needs, including the relationships between human health, occupant productivity, safety, security, and accessibility and each of—

(i) emissions from materials and products in the building;

(ii) natural day lighting;

(iii) ventilation choices and technologies;

(iv) heating, cooling, and system control choices and technologies;

(v) moisture control and mold;

(vi) maintenance, cleaning, and pest control activities;

(vii) acoustics;

(viii) access to public transportation; and

(ix) other issues relating to the health, comfort, productivity, and performance of occupants of the building;

(B) promotes the development and dissemination of high-performance green building measurement tools that, at a minimum, may be used—

(i) to monitor and assess the life-cycle performance of facilities (including demonstration projects) built as high-performance green buildings; and

(ii) to perform life-cycle assessments; and

(C) identifies and tests new and emerging technologies for high-performance green buildings;

(3) assist the budget and life-cycle costing functions of the Directors' Offices under section 17092(d) of this title;

(4) study and identify potential benefits of green buildings relating to security, natural disaster, and emergency needs of the Federal Government; and

(5) support other research initiatives determined by the Directors' Offices.

(b) Indoor air quality

The Federal Director, in consultation with the Administrator of the Environmental Protection Agency and the Advisory Committee, shall develop and carry out a comprehensive indoor air quality program for all Federal facilities to ensure the safety of Federal workers and facility occupants—