| 117тн CONGRESS | \mathbf{C} | |
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| 1st Session | 5. | |
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To invest in the energy and outdoor infrastructure of the United States to deploy new and innovative technologies, update existing infrastructure to be reliable and resilient, and secure energy infrastructure against physical and cyber threats, and for other purposes.

IN THE SENATE OF THE UNITED STATES

| | introduced the following bill; which was read twice |
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| and refe | red to the Committee on |
| | |

A BILL

- To invest in the energy and outdoor infrastructure of the United States to deploy new and innovative technologies, update existing infrastructure to be reliable and resilient, and secure energy infrastructure against physical and cyber threats, and for other purposes.
 - 1 Be it enacted by the Senate and House of Representa-
 - 2 tives of the United States of America in Congress assembled,
 - 3 SECTION 1. SHORT TITLE; TABLE OF CONTENTS.
- 4 (a) Short Title.—This Act may be cited as the
- 5 ["Energy Infrastructure Act"].
- 6 (b) Table of Contents.—The table of contents for
- 7 this Act is as follows:

- Sec. 1. Short title; table of contents.
- Sec. 2. Definitions.

TITLE I—GRID INFRASTRUCTURE AND RESILIENCY

Subtitle A—Grid Infrastructure Resilience and Reliability

- Sec. 1001. Preventing outages and enhancing the resilience of the electric grid.
- Sec. 1002. Hazard mitigation using disaster assistance.
- Sec. 1003. Electric grid reliability and resilience research, development, and demonstration.
- Sec. 1004. Utility demand response.
- Sec. 1005. Siting of interstate electric transmission facilities.
- Sec. 1006. Rulemaking to increase the effectiveness of interregional transmission planning.
- Sec. 1007. Transmission facilitation program.
- Sec. 1008. Deployment of technologies to enhance grid flexibility.
- Sec. 1009. State energy security plans.
- Sec. 1010. State energy program.
- Sec. 1011. Power marketing administration transmission borrowing authority.

Subtitle B—Cybersecurity

- Sec. 1101. Enhancing grid security through public-private partnerships.
- Sec. 1102. Energy Cyber Sense program.
- Sec. 1103. Incentives for advanced cybersecurity technology investment.
- Sec. 1104. Rural and municipal utility advanced cybersecurity grant and technical assistance program.
- Sec. 1105. Enhanced grid security.

Subtitle C—Broadband

Sec. 1201. Enabling middle mile broadband infrastructure.

TITLE II—SUPPLY CHAINS FOR CLEAN ENERGY TECHNOLOGIES

- Sec. 2001. Earth Mapping Resources Initiative.
- Sec. 2002. National Cooperative Geologic Mapping Program.
- Sec. 2003. National Geological and Geophysical Data Preservation Program.
- Sec. 2004. USGS energy and minerals research facility.
- Sec. 2005. Rare earth elements demonstration facility.
- Sec. 2006. Critical minerals supply chains and reliability.
- Sec. 2007. Battery processing and manufacturing.
- Sec. 2008. Electric drive vehicle battery recycling and second-life applications program.
- Sec. 2009. Advanced energy manufacturing and recycling grant program.

TITLE III—FUELS AND TECHNOLOGY INFRASTRUCTURE INVESTMENTS

Subtitle A—Carbon Capture, Utilization, Storage, and Transportation Infrastructure

- Sec. 3001. Findings.
- Sec. 3002. Carbon utilization program.
- Sec. 3003. Carbon capture technology program.
- Sec. 3004. Carbon dioxide transportation infrastructure finance and innovation.
- Sec. 3005. Carbon storage validation and testing.

- Sec. 3006. Secure geologic storage permitting.
- Sec. 3007. Geologic carbon sequestration on the outer Continental Shelf.
- Sec. 3008. Carbon removal.

Subtitle B—Hydrogen Research and Development

- Sec. 3101. Findings; purpose.
- Sec. 3102. Definitions.
- Sec. 3103. Clean hydrogen research and development program.
- Sec. 3104. Additional clean hydrogen programs.
- Sec. 3105. Clean hydrogen production qualifications.

Subtitle C—Nuclear Energy Infrastructure

- Sec. 3201. Infrastructure planning for micro nuclear reactors.
- Sec. 3202. Property interests relating to certain projects and protection of information relating to certain agreements.
- Sec. 3203. Civil nuclear credit program.

Subtitle D—Miscellaneous

- Sec. 3301. Solar energy technologies on current and former mine land.
- Sec. 3302. Clean energy demonstration program on current and former mine land.
- Sec. 3303. Study and report on hyperloop technologies.
- Sec. 3304. Hydropower.

TITLE IV—ENABLING ENERGY INFRASTRUCTURE INVESTMENT AND DATA COLLECTION

Subtitle A—Department of Energy Loan Program

Sec. 4001. Department of Energy loan programs.

Subtitle B—Energy Information Administration

- Sec. 4101. Definitions.
- Sec. 4102. Data collection in the electricity sector.
- Sec. 4103. Expansion of energy consumption surveys.
- Sec. 4104. Data collection on electric vehicle integration with the electricity grids.
- Sec. 4105. Plan for the forecasting of demand for minerals used in the energy sector.
- Sec. 4106. Expansion of international energy data.
- Sec. 4107. Plan for the National Energy Modeling System.
- Sec. 4108. Report on costs of carbon abatement in the electricity sector.
- Sec. 4109. Harmonization of efforts and data.

Subtitle C—Miscellaneous

Sec. 4201. Consideration of measures to promote greater electrification of the transportation sector.

TITLE V—ENERGY EFFICIENCY AND BUILDING INFRASTRUCTURE

Subtitle A—Residential and Commercial Energy Efficiency

Sec. 5001. Definitions.

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- Sec. 5002. Energy efficiency revolving loan fund capitalization grant program.
- Sec. 5003. Energy auditor training grant program.

Subtitle B—Buildings

- Sec. 5101. Cost-effective codes implementation for efficiency and resilience.
- Sec. 5102. Building, training, and assessment centers.
- Sec. 5103. Career skills training.
- Sec. 5104. Commercial building energy consumption information sharing.

Subtitle C—Industrial Energy Efficiency

PART I—INDUSTRY

- Sec. 5201. Future of industry program and industrial research and assessment centers.
- Sec. 5202. Sustainable manufacturing initiative.

PART II—SMART MANUFACTURING

- Sec. 5211. Definitions.
- Sec. 5212. Leveraging existing agency programs to assist small and medium manufacturers.
- Sec. 5213. Leveraging smart manufacturing infrastructure at National Laboratories.
- Sec. 5214. State manufacturing leadership.
- Sec. 5215. Report.

Subtitle D—Schools and Nonprofits

- Sec. 5301. Grants for energy efficiency improvements and renewable energy improvements at public school facilities.
- Sec. 5302. Energy efficiency materials pilot program.

Subtitle E—Miscellaneous

- Sec. 5401. Weatherization assistance program.
- Sec. 5402. Energy Efficiency and Conservation Block Grant Program.
- Sec. 5403. Survey, analysis, and report on employment and demographics in the energy, energy efficiency, and motor vehicle sectors of the United States.
- Sec. 5404. Assisting Federal Facilities with Energy Conservation Technologies grant program.
- Sec. 5405. Rebates.
- Sec. 5406. Model guidance for combined heat and power systems and waste heat to power systems.

TITLE VI—METHANE REDUCTION INFRASTRUCTURE

- Sec. 6001. Orphaned well site plugging, remediation, and restoration.
- Sec. 6002. NEPA review of certain pipeline placement activities.

TITLE VII—ABANDONED MINE LAND RECLAMATION

- Sec. 7001. Abandoned Mine Reclamation Fund direct appropriations.
- TITLE VIII—NATURAL RESOURCES-RELATED INFRASTRUCTURE, WILDFIRE MANAGEMENT, AND ECOSYSTEM RESTORATION

- Sec. 8001. Forest Service Legacy Road and Trail Remediation Program.
- Sec. 8002. Study and report on feasibility of revegetating reclaimed mine sites.
- Sec. 8003. Wildfire risk reduction.
- Sec. 8004. Ecosystem restoration.

TITLE IX—WESTERN WATER INFRASTRUCTURE

Sec. 9001. Western water infrastructure.

TITLE X—ENERGY ACT OF 2020 FUNDING

- Sec. 10001. Energy storage demonstration projects.
- Sec. 10002. Advanced reactor demonstration program.
- Sec. 10003. Mineral security projects.
- Sec. 10004. Carbon capture demonstration and pilot programs.
- Sec. 10005. Direct air capture technologies prize competitions.
- Sec. 10006. Water power projects.
- Sec. 10007. Renewable energy projects.
- Sec. 10008. Industrial emissions demonstration projects.
- Sec. 10009. Availability of amounts.

TITLE XI—WAGE RATE REQUIREMENTS

Sec. 11001. Wage rate requirements.

1 SEC. 2. DEFINITIONS.

- 2 In this Act:
- 3 (1) Department.—The term "Department"
- 4 means the Department of Energy.
- 5 (2) Secretary.—The term "Secretary" means
- 6 the Secretary of Energy.

7 TITLE I—GRID INFRASTRUC-

8 TURE AND RESILIENCY

9 Subtitle A—Grid Infrastructure

10 Resilience and Reliability

- 11 SEC. 1001. PREVENTING OUTAGES AND ENHANCING THE
- 12 RESILIENCE OF THE ELECTRIC GRID.
- 13 (a) Definitions.—In this section:
- 14 (1) California eligible entity.—The term
- 15 "California eligible entity" means an entity de-

| 1 | scribed in any of clauses (1) through (vi) of para- |
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| 2 | graph (2)(A) that is located in the State. |
| 3 | (2) Eligible entity.— |
| 4 | (A) In general.—Except as provided in |
| 5 | subparagraph (B), the term "eligible entity" |
| 6 | means— |
| 7 | (i) an electric grid operator; |
| 8 | (ii) an electricity generator; |
| 9 | (iii) a transmission owner or operator |
| 10 | (iv) a distribution provider; |
| 11 | (v) a fuel supplier; and |
| 12 | (vi) any other relevant entity, as de- |
| 13 | termined by the Secretary. |
| 14 | (B) Exclusions.—The term "eligible en- |
| 15 | tity" does not include an entity located in the |
| 16 | State. |
| 17 | (3) Extreme weather.— |
| 18 | (A) In General.—The term "extreme |
| 19 | weather" means a weather phenomenon that— |
| 20 | (i) occurs outside of the historical fre- |
| 21 | quency prior to 1990; or |
| 22 | (ii) is unexpected, unusual, severe, or |
| 23 | unseasonal. |
| 24 | (B) Inclusions.—The term "extreme |
| 25 | weather" includes— |

the program established under subsection (b).

tively shut off, or cannot operate safely.

(7) RESILIENCE EVENT.—The term "resilience

event" means an event in which, due to extreme

weather, a wildfire, or any other natural disaster,

operations of the electric grid are disrupted, preven-

(8) STATE.—The term "State" means the State

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of California.

| 1 | (b) Establishment of Program.—Not later than |
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| 2 | 180 days after the date of enactment of this Act, the Sec- |
| 3 | retary shall establish a program under which the Secretary |
| 4 | shall make grants to eligible entities and the State in ac- |
| 5 | cordance with this section. |
| 6 | (c) Grants to Eligible Entities.— |
| 7 | (1) In General.—The Secretary may make a |
| 8 | grant under the program to an eligible entity to |
| 9 | carry out activities that— |
| 10 | (A) are supplemental to existing hardening |
| 11 | efforts of the eligible entity planned for any |
| 12 | given year; and |
| 13 | (B)(i) reduce the risk of any power lines |
| 14 | owned or operated by the eligible entity causing |
| 15 | a wildfire; or |
| 16 | (ii) increase the ability of the eligible entity |
| 17 | to reduce the likelihood and consequences of re- |
| 18 | silience events. |
| 19 | (2) Application.— |
| 20 | (A) In general.—An eligible entity desir- |
| 21 | ing a grant under the program shall submit to |
| 22 | the Secretary an application at such time, in |
| 23 | such manner, and containing such information |
| 24 | as the Secretary may require. |

- (B) Requirement.—As a condition of receiving a grant under the program, an eligible entity shall submit to the Secretary, as part of the application of the eligible entity submitted under subparagraph (A), a report detailing past, current, and future efforts by the eligible entity to reduce the likelihood and consequences of resilience events.
 - (3) LIMITATION.—The Secretary may not award a grant to an eligible entity in an amount that is greater than the total amount that the eligible entity has spent in the previous 3 years on efforts to reduce the likelihood and consequences of resilience events.
 - (4) Priority.—In making grants to eligible entities under the program, the Secretary shall give priority to projects that, in the determination of the Secretary, will generate the greatest community benefit in reducing the likelihood and consequences of resilience events.
 - (5) SMALL UTILITIES SET ASIDE.—The Secretary shall ensure that not less than 50 percent of the amounts made available to eligible entities under the program are made available to eligible entities

| 1 | that sell not more than 4,000,000 megawatt hours |
|----|---|
| 2 | of electricity per year. |
| 3 | (d) Grants to the State.— |
| 4 | (1) In General.—The Secretary, in accord- |
| 5 | ance with this subsection, may make grants under |
| 6 | the program to the State, which the State may use |
| 7 | to award grants to California eligible entities. |
| 8 | (2) Annual application.— |
| 9 | (A) In general.—For each fiscal year, to |
| 10 | be eligible to receive a grant under this sub- |
| 11 | section, the State shall submit to the Secretary |
| 12 | an application that includes a plan described in |
| 13 | subparagraph (B). |
| 14 | (B) PLAN REQUIRED.—A plan prepared by |
| 15 | the State for purposes of an application de- |
| 16 | scribed in subparagraph (A) shall— |
| 17 | (i) describe the criteria and methods |
| 18 | that will be used by the State to award |
| 19 | grants to California eligible entities; |
| 20 | (ii) be adopted after notice and a pub- |
| 21 | lic hearing; and |
| 22 | (iii) describe the proposed funding |
| 23 | distributions and recipients of the grants |
| 24 | to be provided by the State. |

| 1 | (3) Oversight.—The Secretary shall ensure |
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| 2 | that each grant provided to the State under the pro- |
| 3 | gram is allocated, pursuant to the applicable State |
| 4 | plan, to California eligible entities for projects within |
| 5 | the State. |
| 6 | (4) Priority.—In making grants to California |
| 7 | eligible entities using funds made available to the |
| 8 | State under the program, the State shall give pri- |
| 9 | ority to projects that, in the determination of the |
| 10 | State, will generate the greatest community benefit |
| 11 | in reducing the likelihood and consequences of resil- |
| 12 | ience events. |
| 13 | (5) Small utilities set aside.—The State |
| 14 | shall ensure that not less than 10 percent of the |
| 15 | amounts made available to California eligible entities |
| 16 | from funds made available to the State under the |
| 17 | program are made available to California eligible en- |
| 18 | tities that sell not more than 4,000,000 megawatt |
| 19 | hours of electricity per year. |
| 20 | (6) Technical assistance and administra- |
| 21 | TIVE EXPENSES.—Of the amounts made available to |
| 22 | the State under the program each fiscal year, the |
| 23 | State may use not more than 5 percent for— |
| 24 | (A) providing technical assistance under |
| 25 | subsection $(g)(1)(A)$; and |

| 1 | (B) administrative expenses associated |
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| 2 | with the program. |
| 3 | (7) MATCHING REQUIREMENT.—The State shall |
| 4 | be required to match 15 percent of the amount of |
| 5 | each grant provided to the State under the program. |
| 6 | (e) USE OF GRANTS.— |
| 7 | (1) IN GENERAL.—A grant awarded to an eligi- |
| 8 | ble entity or a California eligible entity under the |
| 9 | program may be used for activities, technologies, |
| 10 | equipment, and hardening measures to reduce the |
| 11 | likelihood and consequences of resilience events, in- |
| 12 | cluding— |
| 13 | (A) weatherization technologies and equip- |
| 14 | ment; |
| 15 | (B) fire-resistant technologies and fire pre- |
| 16 | vention systems; |
| 17 | (C) monitoring technologies; |
| 18 | (D) the undergrounding of electrical equip- |
| 19 | ment; |
| 20 | (E) utility pole management; |
| 21 | (F) the relocation of power lines or the |
| 22 | reconductoring of power lines with low-sag, ad- |
| 23 | vanced conductors; |
| 24 | (G) vegetation and fuel-load management; |

| 1 | (H) the use or construction of distributed |
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| 2 | energy resources for enhancing system adaptive |
| 3 | capacity during resilience events, including— |
| 4 | (i) microgrids; and |
| 5 | (ii) battery-storage subcomponents; |
| 6 | (I) adaptive protection technologies; |
| 7 | (J) advanced modeling technologies; |
| 8 | (K) hardening of power lines, facilities, |
| 9 | substations, of other systems; and |
| 10 | (L) the replacement of old overhead con- |
| 11 | ductors and underground cables. |
| 12 | (2) Prohibited Uses.— |
| 13 | (A) IN GENERAL.—A grant awarded to an |
| 14 | eligible entity or a California eligible entity |
| 15 | under the program may not be used for— |
| 16 | (i) construction of a new— |
| 17 | (I) electric generating facility; or |
| 18 | (II) large-scale battery-storage |
| 19 | facility that is not used for enhancing |
| 20 | system adaptive capacity during resil- |
| 21 | ience events; or |
| 22 | (ii) cybersecurity. |
| 23 | (B) CERTAIN INVESTMENTS ELIGIBLE FOR |
| 24 | RECOVERY.— |

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Discussion Draft

| 1 | (i) In general.—An eligible entity or |
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| 2 | California eligible entity may not seek cost |
| 3 | recovery for the portion of the cost of any |
| 4 | system, technology, or equipment that is |
| 5 | funded through a grant awarded under the |
| 6 | program. |
| 7 | (ii) Savings Provision.—Nothing in |
| 8 | this subparagraph prohibits an eligible en- |
| 9 | tity or California eligible entity from recov- |
| 10 | ering through traditional or incentive-based |
| 11 | ratemaking any portion of an investment |
| 12 | in a system, technology, or equipment that |
| 13 | is not funded by a grant awarded under |
| 14 | the program. |
| 15 | (f) Distribution of Funding.—Of the amounts |
| 16 | made available to carry out the program for a fiscal year, |
| 17 | the Secretary shall ensure that— |
| 18 | (1) not less than 80 percent is used to award |
| 19 | grants to eligible entities under subsection (c); and |
| 20 | (2) not more than 20 percent is used to make |
| 21 | grants to the State under subsection (d). |
| 22 | (g) Technical and Other Assistance.— |
| 23 | (1) IN GENERAL.—The Secretary and the State |
| 24 | may— |

| 1 | (A) provide technical assistance and facili- |
|----|--|
| 2 | tate the distribution and sharing of information |
| 3 | to reduce the likelihood and consequences of re- |
| 4 | silience events; and |
| 5 | (B) promulgate consumer-facing informa- |
| 6 | tion and resources to inform the public of best |
| 7 | practices and resources relating to reducing the |
| 8 | likelihood and consequences of resilience events. |
| 9 | (2) Use of funds by the secretary.—Of |
| 10 | the amounts made available to the Secretary to |
| 11 | carry out the program each fiscal year, the Secretary |
| 12 | may use not more than 5 percent for— |
| 13 | (A) providing technical assistance under |
| 14 | paragraph (1)(A); and |
| 15 | (B) administrative expenses associated |
| 16 | with the program. |
| 17 | (h) Matching Requirement.— |
| 18 | (1) In general.—Except as provided in para- |
| 19 | graph (2), an eligible entity or California eligible en- |
| 20 | tity that receives a grant under this section shall be |
| 21 | required to match 100 percent of the amount of the |
| 22 | grant. |
| 23 | (2) Exception for small utilities.—With |
| 24 | respect to an eligible entity or California eligible en- |
| 25 | tity that sells not more than 4,000,000 megawatt |

| 1 | hours of electricity per year, the eligible entity or |
|----|---|
| 2 | California eligible entity shall be required to match |
| 3 | $^{1~\mathrm{G7~T2L~K3}}$ of the amount of the grant. |
| 4 | (i) BIENNIAL REPORT TO CONGRESS.— |
| 5 | (1) In general.—Not later than 2 years after |
| 6 | the date of enactment of this Act, and every 2 years |
| 7 | thereafter through 2026, the Secretary shall submit |
| 8 | to the Committee on Energy and Natural Resources |
| 9 | of the Senate and the Committee on Energy and |
| 10 | Commerce of the House of Representatives a report |
| 11 | describing the program. |
| 12 | (2) Requirements.—The report under para- |
| 13 | graph (1) shall include information and data on— |
| 14 | (A) the costs of the projects for which |
| 15 | grants are awarded to eligible entities and Cali- |
| 16 | fornia eligible entities; |
| 17 | (B) the types of activities, technologies, |
| 18 | equipment, and hardening measures funded by |
| 19 | those grants; and |
| 20 | (C) the extent to which the ability of the |
| 21 | power grid to withstand resilience events has in- |
| 22 | creased. |
| 23 | (j) Appropriations.—In addition to amounts other- |
| 24 | wise made available, there is appropriated to the Secretary |
| 25 | to carry out the program, out of any amounts in the |

| 1 | Treasury not otherwise appropriated, \$1,000,000,000 for |
|----|--|
| 2 | each of fiscal years 2022 through 2026. |
| 3 | SEC. 1002. HAZARD MITIGATION USING DISASTER ASSIST- |
| 4 | ANCE. |
| 5 | Section 404(f)(12) of the Robert T. Stafford Disaster |
| 6 | Relief and Emergency Assistance Act (42 U.S.C. |
| 7 | 5170c(f)(12)) is amended— |
| 8 | (1) by inserting "and wildfire" after "wind- |
| 9 | storm"; |
| 10 | (2) by striking "including replacing" and in- |
| 11 | serting the following: "including— |
| 12 | "(A) replacing"; |
| 13 | (3) in subparagraph (A) (as so designated)— |
| 14 | (A) by inserting ", wildfire," after "ex- |
| 15 | treme wind"; and |
| 16 | (B) by adding "and" after the semicolon |
| 17 | at the end; and |
| 18 | (4) by adding at the end the following: |
| 19 | "(B) the installation of fire-resistant wires |
| 20 | and infrastructure and the undergrounding of |
| 21 | wires;". |
| 22 | SEC. 1003. ELECTRIC GRID RELIABILITY AND RESILIENCE |
| 23 | RESEARCH, DEVELOPMENT, AND DEM- |
| 24 | ONSTRATION. |
| 25 | (a) Definitions.—In this section: |

| 1 | (1) Federal financial assistance.—The |
|----|--|
| 2 | term "Federal financial assistance" has the meaning |
| 3 | given the term in section 200.1 of title 2, Code of |
| 4 | Federal Regulations. |
| 5 | (2) Indian Tribe.—The term "Indian Tribe" |
| 6 | has the meaning given the term in section 4 of the |
| 7 | Indian Self-Determination and Education Assistance |
| 8 | Act (25 U.S.C. 5304). |
| 9 | (b) Energy Infrastructure Federal Financial |
| 10 | Assistance Program.— |
| 11 | (1) Definitions.—In this subsection: |
| 12 | (A) ELIGIBLE ENTITY.—The term "eligible |
| 13 | entity' means each of— |
| 14 | (i) a State; |
| 15 | (ii) a combination of 2 or more |
| 16 | States; |
| 17 | (iii) an Indian Tribe; |
| 18 | (iv) a unit of local government; and |
| 19 | (v) a public utility commission. |
| 20 | (B) Program.—The term "program" |
| 21 | means the competitive Federal financial assist- |
| 22 | ance program established under paragraph (2). |
| 23 | (2) Establishment.—Not later than 90 days |
| 24 | after the date of enactment of this Act, the Sec- |
| 25 | retary shall establish a program, to be known as the |

| 1 | "Program Upgrading Our Electric Grid and Ensur- |
|----|--|
| 2 | ing Reliability and Resiliency", to provide, on a com- |
| 3 | petitive basis, Federal financial assistance to eligible |
| 4 | entities to carry out the purposes described in para- |
| 5 | graph (3). |
| 6 | (3) Purposes.—The purposes of the program |
| 7 | are— |
| 8 | (A) to demonstrate innovative approaches |
| 9 | to transmission, storage, and distribution infra- |
| 10 | structure to harden and enhance resilience and |
| 11 | reliability; and |
| 12 | (B) to demonstrate new approaches to en- |
| 13 | hance regional grid resilience, implemented |
| 14 | through States by public and publicly regulated |
| 15 | entities on a cost-shared basis. |
| 16 | (4) Applications.—To be eligible to receive |
| 17 | Federal financial assistance under the program, an |
| 18 | eligible entity shall submit to the Secretary an appli- |
| 19 | cation at such time, in such manner, and containing |
| 20 | such information as the Secretary may require, in- |
| 21 | cluding a description of— |
| 22 | (A) how the Federal financial assistance |
| 23 | would be used; |
| 24 | (B) the expected beneficiaries, and |

| 1 | (C) in the case of a proposal from an eligi- |
|----|--|
| 2 | ble entity described in paragraph (1)(A)(ii) |
| 3 | how the proposal would improve regional energy |
| 4 | infrastructure. |
| 5 | (5) Selection.—The Secretary shall select eli- |
| 6 | gible entities to receive Federal financial assistance |
| 7 | under the program on a competitive basis. |
| 8 | (6) Cost share.—Section 988 of the Energy |
| 9 | Policy Act of 2005 (42 U.S.C. 16352) shall apply to |
| 10 | Federal financial assistance provided under the pro- |
| 11 | gram. |
| 12 | (7) Appropriations.—In addition to amounts |
| 13 | otherwise made available, there is appropriated to |
| 14 | the Secretary to carry out this subsection, out of any |
| 15 | amounts in the Treasury not otherwise appropriated |
| 16 | \$1,000,000,000 for each of fiscal years 2022 |
| 17 | through 2026. |
| 18 | (e) Energy Improvement in Rural or Remote |
| 19 | Areas.— |
| 20 | (1) Definition of Rural or Remote |
| 21 | AREA.—In this subsection, the term "rural or re- |
| 22 | mote area" means a city, town, or unincorporated |
| 23 | area that has a population of not more than 10,000 |
| 24 | inhabitants. |

| 1 | (2) REQUIRED ACTIVITIES.—The Secretary |
|----|--|
| 2 | shall carry out activities to improve in rural or re- |
| 3 | mote areas of the United States— |
| 4 | (A) the resilience, safety, reliability, and |
| 5 | availability of energy; and |
| 6 | (B) environmental protection from adverse |
| 7 | impacts of energy generation. |
| 8 | (3) Research and information sharing.— |
| 9 | The Secretary, the Secretary of the Interior, the |
| 10 | Commandant of the Coast Guard, and the Secretary |
| 11 | of State shall seek to enter into a partnership with |
| 12 | the member states of the Arctic Council— |
| 13 | (A) to conduct research and share informa- |
| 14 | tion on— |
| 15 | (i) the effects of oil spills; and |
| 16 | (ii) the effectiveness of measures to |
| 17 | reduce the risk of oil spills; and |
| 18 | (B) to develop an international guideline |
| 19 | for oil spill preparedness and response in the |
| 20 | Arctic. |
| 21 | (4) Federal financial assistance.—The |
| 22 | Secretary, in consultation with the Secretary of Inte- |
| 23 | rior, may provide Federal financial assistance to |
| 24 | rural or remote areas for the purpose of— |

| 1 | (A) overall cost-effectiveness of energy gen- |
|----|---|
| 2 | eration, transmission, or distribution systems; |
| 3 | (B) siting or upgrading transmission and |
| 4 | distribution lines; |
| 5 | (C) reducing greenhouse gas emissions; |
| 6 | (D) providing or modernizing electric gen- |
| 7 | eration facilities; and |
| 8 | (E) increasing energy efficiency. |
| 9 | (5) Appropriations.—In addition to amounts |
| 10 | otherwise made available, there is appropriated to |
| 11 | the Secretary to carry out this subsection, out of any |
| 12 | amounts in the Treasury not otherwise appropriated, |
| 13 | \$200,000,000 for each of fiscal years 2022 through |
| 14 | 2026. |
| 15 | (d) Energy Infrastructure Resilience Frame- |
| 16 | WORK.— |
| 17 | (1) In general.—The Secretary, in collabora- |
| 18 | tion with the Secretary of Homeland Security, the |
| 19 | Federal Energy Regulatory Commission, the North |
| 20 | American Electric Reliability Corporation, and inter- |
| 21 | ested energy infrastructure stakeholders, shall de- |
| 22 | velop common analytical frameworks, tools, metrics, |
| 23 | and data to assess the resilience, reliability, safety, |
| 24 | and security of energy infrastructure in the United |
| 25 | States, including by developing and storing an inven- |

| 1 | tory of easily transported high-voltage recovery |
|----|--|
| 2 | transformers and other required equipment. |
| 3 | (2) Assessment and report.— |
| 4 | (A) Assessment.—The Secretary shall |
| 5 | carry out an assessment of— |
| 6 | (i) with respect to the inventory of |
| 7 | high-voltage recovery transformers, new |
| 8 | transformers, and other equipment pro- |
| 9 | posed to be developed and stored under |
| 10 | paragraph (1)— |
| 11 | (I) the policies, technical speci- |
| 12 | fications, and logistical and program |
| 13 | structures necessary to mitigate the |
| 14 | risks associated with the loss of high- |
| 15 | voltage recovery transformers; |
| 16 | (II) the technical specifications |
| 17 | for high-voltage recovery trans- |
| 18 | formers; |
| 19 | (III) where inventory of high- |
| 20 | voltage recovery transformers should |
| 21 | be stored; |
| 22 | (IV) the quantity of high-voltage |
| 23 | recovery transformers necessary for |
| 24 | the inventory; |

Discussion Draft

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| 1 | retary shall submit to Congress a report de- |
|----|--|
| 2 | scribing the results of the assessment carried |
| 3 | out under subparagraph (A). |
| 4 | SEC. 1004. UTILITY DEMAND RESPONSE. |
| 5 | (a) Consideration of Demand-Response Stand- |
| 6 | ARD.— |
| 7 | (1) In general.—Section 111(d) of the Public |
| 8 | Utility Regulatory Policies Act of 1978 (16 U.S.C. |
| 9 | 2621(d)) is amended by adding at the end the fol- |
| 10 | lowing: |
| 11 | "(20) Demand-response practices.— |
| 12 | "(A) In General.—Each electric utility |
| 13 | shall promote the use of demand-response prac- |
| 14 | tices by commercial, residential, and industrial |
| 15 | consumers to reduce electricity consumption |
| 16 | during periods of unusually high demand. |
| 17 | "(B) Rate recovery.— |
| 18 | "(i) In General.—Each State regu- |
| 19 | latory authority shall consider establishing |
| 20 | rate mechanisms allowing an electric utility |
| 21 | with respect to which the State regulatory |
| 22 | authority has ratemaking authority to |
| 23 | timely recover the costs of promoting de- |
| 24 | mand-response practices in accordance |
| 25 | with subparagraph (A). |

| 1 | "(ii) Nonregulated electric util- |
|----|---|
| 2 | ITIES.—A nonregulated electric utility may |
| 3 | establish rate mechanisms for the timely |
| 4 | recovery of the costs of promoting demand- |
| 5 | response practices in accordance with sub- |
| 6 | paragraph (A).". |
| 7 | (2) Compliance.— |
| 8 | (A) Time limitations.—Section 112(b) |
| 9 | of the Public Utility Regulatory Policies Act of |
| 10 | 1978 (16 U.S.C. 2622(b)) is amended by add- |
| 11 | ing at the end the following: |
| 12 | "(7)(A) Not later than 1 year after the date of |
| 13 | enactment of this paragraph, each State regulatory |
| 14 | authority (with respect to each electric utility for |
| 15 | which the State has ratemaking authority) and each |
| 16 | nonregulated electric utility shall commence consid- |
| 17 | eration under section 111, or set a hearing date for |
| 18 | consideration, with respect to the standard estab- |
| 19 | lished by paragraph (20) of section 111(d). |
| 20 | "(B) Not later than 2 years after the date of |
| 21 | enactment of this paragraph, each State regulatory |
| 22 | authority (with respect to each electric utility for |
| 23 | which the State has ratemaking authority), and each |
| 24 | nonregulated electric utility shall complete the con- |
| 25 | sideration and make the determination under section |

| 1 | 111 with respect to the standard established by |
|----|---|
| 2 | paragraph (20) of section 111(d).". |
| 3 | (B) Failure to comply.— |
| 4 | (i) In General.—Section 112(c) of |
| 5 | the Public Utility Regulatory Policies Act |
| 6 | of 1978 (16 U.S.C. 2622(c)) is amended— |
| 7 | (I) by striking "such paragraph |
| 8 | (14)" and all that follows through |
| 9 | "paragraphs (16)" and inserting |
| 10 | "such paragraph (14). In the case of |
| 11 | the standard established by paragraph |
| 12 | (15) of section 111(d), the reference |
| 13 | contained in this subsection to the |
| 14 | date of enactment of this Act shall be |
| 15 | deemed to be a reference to the date |
| 16 | of enactment of that paragraph (15). |
| 17 | In the case of the standards estab- |
| 18 | lished by paragraphs (16)"; and |
| 19 | (II) by adding at the end the fol- |
| 20 | lowing: "In the case of the standard |
| 21 | established by paragraph (20) of sec- |
| 22 | tion 111(d), the reference contained in |
| 23 | this subsection to the date of enact- |
| 24 | ment of this Act shall be deemed to be |

| 1 | a reference to the date of enactment |
|----|---|
| 2 | of that paragraph (20).". |
| 3 | (ii) Technical correction.—Para- |
| 4 | graph (2) of section 1254(b) of the Energy |
| 5 | Policy Act of 2005 (Public Law 109–58; |
| 6 | 119 Stat. 971) is repealed and the amend- |
| 7 | ment made by that paragraph (as in effect |
| 8 | on the day before the date of enactment of |
| 9 | this Act) is void, and section 112(d) of the |
| 10 | Public Utility Regulatory Policies Act of |
| 11 | 1978 (16 U.S.C. 2622(d)) shall be in ef- |
| 12 | fect as if that amendment had not been en- |
| 13 | acted. |
| 14 | (C) Prior state actions.— |
| 15 | (i) In General.—Section 112 of the |
| 16 | Public Utility Regulatory Policies Act of |
| 17 | 1978 (16 U.S.C. 2622) is amended by add- |
| 18 | ing at the end the following: |
| 19 | "(g) Prior State Actions.—Subsections (b) and |
| 20 | (c) shall not apply to the standard established by para- |
| 21 | graph (20) of section 111(d) in the case of any electric |
| 22 | utility in a State if, before the date of enactment of this |
| 23 | subsection— |
| 24 | "(1) the State has implemented for the electric |
| 25 | utility the standard (or a comparable standard); |

| 1 | "(2) the State regulatory authority for the |
|----|---|
| 2 | State or the relevant nonregulated electric utility has |
| 3 | conducted a proceeding to consider implementation |
| 4 | of the standard (or a comparable standard) for the |
| 5 | electric utility; or |
| 6 | "(3) the State legislature has voted on the im- |
| 7 | plementation of the standard (or a comparable |
| 8 | standard) for the electric utility.". |
| 9 | (ii) Cross-reference.—Section 124 |
| 10 | of the Public Utility Regulatory Policies |
| 11 | Act of 1978 (16 U.S.C. 2634) is amend- |
| 12 | ed — |
| 13 | (I) by striking "this subsection" |
| 14 | each place it appears and inserting |
| 15 | "this section"; and |
| 16 | (II) by adding at the end the fol- |
| 17 | lowing: "In the case of the standard |
| 18 | established by paragraph (20) of sec- |
| 19 | tion 111(d), the reference contained in |
| 20 | this section to the date of enactment |
| 21 | of this Act shall be deemed to be a |
| 22 | reference to the date of enactment of |
| 23 | that paragraph (20).". |

| 1 | (b) OPTIONAL FEATURES OF STATE ENERGY CON- |
|----|---|
| 2 | SERVATION PLANS.—Section 362(d) of the Energy Policy |
| 3 | and Conservation Act (42 U.S.C. 6322(d)) is amended— |
| 4 | (1) in paragraph (16), by striking "and" at the |
| 5 | end; |
| 6 | (2) by redesignating paragraph (17) as para- |
| 7 | graph (18); and |
| 8 | (3) by inserting after paragraph (16) the fol- |
| 9 | lowing: |
| 10 | "(17) programs that promote the installation |
| 11 | and use of demand-response technology and de- |
| 12 | mand-response practices; and". |
| 13 | (e) Federal Energy Management Program.— |
| 14 | Section 543(i) of the National Energy Conservation Policy |
| 15 | Act (42 U.S.C. 8253(i)) is amended— |
| 16 | (1) in paragraph (1)— |
| 17 | (A) in subparagraph (A), by striking |
| 18 | "and" at the end; |
| 19 | (B) in subparagraph (B), by striking the |
| 20 | period at the end and inserting "; and"; and |
| 21 | (C) by adding at the end the following: |
| 22 | "(C) to reduce energy consumption during |
| 23 | periods of unusually high electricity or natural |
| 24 | gas demand."; and |
| 25 | (2) in paragraph (3)(A)— |

| 1 | (A) in clause (v), by striking "and" at the |
|----|---|
| 2 | end; |
| 3 | (B) in clause (vi), by striking the period at |
| 4 | the end and inserting "; and"; and |
| 5 | (C) by adding at the end the following: |
| 6 | "(vii) promote the installation of de- |
| 7 | mand-response technology and the use of |
| 8 | demand-response practices in Federal |
| 9 | buildings.". |
| 10 | (d) Components of Zero-Net-Energy Commer- |
| 11 | CIAL BUILDINGS INITIATIVE.—Section 422(d)(3) of the |
| 12 | Energy Independence and Security Act of 2007 (42 |
| 13 | U.S.C. 17082(d)) is amended by inserting "(including de- |
| 14 | mand-response technologies, practices, and policies)" after |
| 15 | "policies". |
| 16 | SEC. 1005. SITING OF INTERSTATE ELECTRIC TRANS- |
| 17 | MISSION FACILITIES. |
| 18 | (a) Designation of National Interest Elec- |
| 19 | TRIC TRANSMISSION CORRIDORS.—Section 216(a) of the |
| 20 | Federal Power Act (16 U.S.C. 824p(a)) is amended— |
| 21 | (1) in paragraph (1)— |
| 22 | (A) by inserting "and Indian Tribes" after |
| 23 | "affected States"; and |
| 24 | (B) by inserting "capacity constraints |
| 25 | and" before "congestion"; |

| 1 | (2) in paragraph (2)— |
|----|--|
| 2 | (A) by striking "After" and inserting "Not |
| 3 | less frequently than once every 3 years, the Sec- |
| 4 | retary, after"; and |
| 5 | (B) by striking "affected States" and all |
| 6 | that follows through the period at the end and |
| 7 | inserting the following: "affected States and In- |
| 8 | dian Tribes), shall issue a report, based on the |
| 9 | study under paragraph (1) or other information |
| 10 | relating to electric transmission capacity con- |
| 11 | straints and congestion, which may designate as |
| 12 | a national interest electric transmission corridor |
| 13 | any geographic area that— |
| 14 | "(i) is experiencing electric energy |
| 15 | transmission capacity constraints or con- |
| 16 | gestion that adversely affects consumers |
| 17 | or |
| 18 | "(ii) is expected to experience such |
| 19 | energy transmission capacity constraints or |
| 20 | congestion."; |
| 21 | (3) in paragraph (3)— |
| 22 | (A) by striking "The Secretary shall con- |
| 23 | duct the study and issue the report in consulta- |
| 24 | tion" and inserting "Not less frequently than |
| 25 | once every 3 years, the Secretary, in conducting |
| | |

| 1 | the study under paragraph (1) and issuing the |
|----|--|
| 2 | report under paragraph (2), shall consult"; and |
| 3 | (4) in paragraph (4)— |
| 4 | (A) in subparagraph (C), by inserting "or |
| 5 | energy security" after "independence"; |
| 6 | (B) in subparagraph (D), by striking |
| 7 | "and" at the end; |
| 8 | (C) in subparagraph (E), by striking the |
| 9 | period at the end and inserting a semicolon; |
| 10 | and |
| 11 | (D) by adding at the end the following: |
| 12 | "(F) the designation would— |
| 13 | "(i) enhance the ability of facilities that |
| 14 | generate or transmit renewable energy, low- |
| 15 | emission energy, or emission-free energy to con- |
| 16 | nect to the electric grid; |
| 17 | "(ii) promote electrification of other sec- |
| 18 | tors, including the transportation sector; or |
| 19 | "(iii) facilitate other public policies to |
| 20 | decarbonize the grid; |
| 21 | "(G) the designation— |
| 22 | "(i) maximizes existing rights-of-way, in- |
| 23 | cluding along highways, brownfields, and rail- |
| 24 | ways; and |

| 1 | "(ii) avoids, to the maximum extent prac- |
|----|--|
| 2 | ticable, sensitive environmental areas and cul- |
| 3 | tural heritage sites; and |
| 4 | "(H) the designation would result in a reduc- |
| 5 | tion in the cost to purchase electric energy for con- |
| 6 | sumers.". |
| 7 | (b) Construction Permit.—Section 216(b) of the |
| 8 | Federal Power Act (16 U.S.C. 824p(b)) is amended— |
| 9 | (1) in paragraph (1)— |
| 10 | (A) in subparagraph (A)(ii), by inserting |
| 11 | "or interregional benefits" after "interstate |
| 12 | benefits"; and |
| 13 | (B) by striking subparagraph (C) and in- |
| 14 | serting the following: |
| 15 | "(C) a State commission or other entity that |
| 16 | has authority to approve the siting of the facilities— |
| 17 | "(i) has not approved or denied an applica- |
| 18 | tion seeking approval pursuant to applicable |
| 19 | law by the date that is 1 year after the later |
| 20 | of— |
| 21 | "(I) the date on which the application |
| 22 | was filed; and |
| 23 | "(II) the date on which the relevant |
| 24 | national interest electric transmission cor- |

| 1 | ridor was designated by the Secretary |
|----|--|
| 2 | under subsection (a); |
| 3 | "(ii) has conditioned its approval in such a |
| 4 | manner that the proposed construction or modi- |
| 5 | fication will not significantly reduce trans- |
| 6 | mission congestion in interstate commerce or is |
| 7 | not economically feasible; or |
| 8 | "(iii) has denied an application seeking ap- |
| 9 | proval pursuant to applicable law;". |
| 10 | (c) Rights-of-Way.—Section 216(e)(1) of the Fed- |
| 11 | eral Power Act (16 U.S.C. 824p(e)(1)) is amended by |
| 12 | striking "facilities, the" and inserting "facilities and, in |
| 13 | the determination of the Commission, the permit holder |
| 14 | has made good faith efforts to engage with landowners |
| 15 | and other stakeholders early in the applicable permitting |
| 16 | process, the". |
| 17 | (d) Interstate Compacts.—Section 216(i) of the |
| 18 | Federal Power Act (16 U.S.C. 824p(i)) is amended— |
| 19 | (1) in paragraph (2), by striking "may" and in- |
| 20 | serting "shall"; and |
| 21 | (2) in paragraph (4), by striking "the mem- |
| 22 | bers" and all that follows through the period at the |
| 23 | end and inserting the following: "the Secretary de- |
| 24 | termines that the members of the compact are in |
| 25 | disagreement after the later of— |

| 1 | "(A) the date that is 1 year after the date |
|----|--|
| 2 | on which the relevant application for the facility |
| 3 | was filed; and |
| 4 | "(B) the date that is 1 year after the date |
| 5 | on which the relevant national interest electric |
| 6 | transmission corridor was designated by the |
| 7 | Secretary under subsection (a).". |
| 8 | SEC. 1006. RULEMAKING TO INCREASE THE EFFECTIVE- |
| 9 | NESS OF INTERREGIONAL TRANSMISSION |
| 10 | PLANNING. |
| 11 | (a) In General.—Not later than 180 days after the |
| 12 | date of enactment of this Act, the Federal Energy Regu- |
| 13 | latory Commission shall initiate a rulemaking address- |
| 14 | ing— |
| 15 | (1) the effectiveness of existing planning proc- |
| 16 | esses for identifying interregional transmission |
| 17 | projects that provide economic, reliability, oper- |
| 18 | ational, public policy, and environmental benefits |
| 19 | (including reductions in carbon emissions), taking |
| 20 | into consideration the public interest, the integrity of |
| 21 | markets, and the protection of consumers; |
| 22 | (2) changes to the processes described in para- |
| 23 | graph (1) to ensure that efficient, cost-effective, and |
| 24 | broadly beneficial interregional transmission solu- |

| 1 | tions are selected for cost allocation, taking into con- |
|----|--|
| 2 | sideration— |
| 3 | (A) the public interest; |
| 4 | (B) the integrity of markets; |
| 5 | (C) the protection of consumers; |
| 6 | (D) the broad range of economic, reli- |
| 7 | ability, operational, public policy, and environ- |
| 8 | mental benefits that interregional transmission |
| 9 | provides, including reductions in carbon emis- |
| 10 | sions; |
| 11 | (E) the need for single projects to secure |
| 12 | approvals based on a comprehensive assessment |
| 13 | of the multiple benefits provided; |
| 14 | (F) that projects that meet interregional |
| 15 | benefit criteria should not be subject to subse- |
| 16 | quent reassessment by transmission planning |
| 17 | authorities; |
| 18 | (G) the importance of synchronization of |
| 19 | planning processes in neighboring regions, such |
| 20 | as using a joint model on a consistent timeline |
| 21 | with a single set of needs, input assumptions, |
| 22 | and benefit metrics; |
| 23 | (H) that evaluation of long-term scenarios |
| 24 | should align with the expected life of a trans- |
| 25 | mission asset: |

| 1 | (I) that transmission planning authorities |
|----|---|
| 2 | should allow for the identification and joint |
| 3 | evaluation of alternatives proposed by stake- |
| 4 | holders; |
| 5 | (J) that interregional planning should be |
| 6 | done regularly and not less frequently than |
| 7 | once every 3 years; and |
| 8 | (K) the elimination of arbitrary project |
| 9 | voltage, size, or cost requirements for inter- |
| 10 | regional solutions; and |
| 11 | (3) cost allocation methodologies that reflect |
| 12 | the multiple benefits provided by interregional trans- |
| 13 | mission solutions, including economic, reliability, |
| 14 | operational, public policy, and environmental bene- |
| 15 | fits (including reductions in carbon emissions). |
| 16 | (b) Timing.—Not later than 18 months after the |
| 17 | date of enactment of this Act, the Federal Energy Regu- |
| 18 | latory Commission shall promulgate a final rule to com- |
| 19 | plete the rulemaking initiated under subsection (a). |
| 20 | SEC. 1007. TRANSMISSION FACILITATION PROGRAM. |
| 21 | (a) Definitions.—In this section: |
| 22 | (1) Capacity contract.—The term "capacity |
| 23 | contract" means a contract entered into by the Sec- |
| 24 | retary and an eligible entity under subsection |

| 1 | (f)(1)(A) for the right to the use of the transmission |
|----|--|
| 2 | capacity of an eligible project. |
| 3 | (2) Department.—The term "Department" |
| 4 | means the Department of Energy. |
| 5 | (3) ELIGIBLE ENTITY.—The term "eligible enti- |
| 6 | ty" means a non-Federal entity seeking to carry out |
| 7 | an eligible project. |
| 8 | (4) Eligible project.— |
| 9 | (A) IN GENERAL.—The term "eligible |
| 10 | project" means a project for the construction or |
| 11 | upgrading of 1 or more electric power trans- |
| 12 | mission lines that— |
| 13 | (i) are not owned by the Federal Gov- |
| 14 | ernment; |
| 15 | (ii) are capable of transmitting elec- |
| 16 | tric energy of not less than— |
| 17 | (I) 1,000 megawatts; or |
| 18 | (II) 500 megawatts, if the |
| 19 | project consists of upgrading an exist- |
| 20 | ing transmission line or constructing a |
| 21 | new transmission line in an existing |
| 22 | transmission, transportation, or tele- |
| 23 | communications infrastructure cor- |
| 24 | ridor; |

| 1 | (iii) are not subject to all costs to con- |
|----|---|
| 2 | struct the project being recovered through |
| 3 | a Transmission Organization (as defined in |
| 4 | section 3 of the Federal Power Act (16 |
| 5 | U.S.C. 796)); and |
| 6 | (iv)(I) are new electric power trans- |
| 7 | mission lines, including replacements of ex- |
| 8 | isting electric power transmission lines; or |
| 9 | (II) are significant upgrades that in- |
| 10 | crease the transmission capacity of an ex- |
| 11 | isting electric power transmission line. |
| 12 | (B) Inclusion.—The term "eligible |
| 13 | project" includes the construction or upgrading |
| 14 | of related facilities. |
| 15 | (5) Environmental review process.—The |
| 16 | term "environmental review process" means— |
| 17 | (A) the process of preparing an environ- |
| 18 | mental impact statement, an environmental as- |
| 19 | sessment, a categorical exclusion, or any other |
| 20 | document prepared under the National Envi- |
| 21 | ronmental Policy Act of 1969 (42 U.S.C. 4321 |
| 22 | et seq.) for an eligible project; and |
| 23 | (B) any other process relating to the prep- |
| 24 | aration or completion of an environmental per- |

| 1 | mit, approval, review, or study required for an |
|----|--|
| 2 | eligible project under any other Federal law. |
| 3 | (6) FEDERAL LAND.—The term "Federal land" |
| 4 | means— |
| 5 | (A) public lands (as defined in section 103 |
| 6 | of the Federal Land Policy and Management |
| 7 | Act of 1976 (43 U.S.C. 1702)); and |
| 8 | (B) National Forest System land. |
| 9 | (7) Fund.—The term "Fund" means the |
| 10 | Transmission Facilitation Fund established by sub- |
| 11 | section $(e)(1)$. |
| 12 | (8) Program.—The term "program" means |
| 13 | the Transmission Facilitation Program established |
| 14 | by subsection (b). |
| 15 | (9) Related facility.— |
| 16 | (A) In general.—The term "related fa- |
| 17 | cility" means a facility related to an electric |
| 18 | power transmission line described in paragraph |
| 19 | (5)(A). |
| 20 | (B) Exclusions.—The term "related fa- |
| 21 | cility" does not include— |
| 22 | (i) facilities used primarily to generate |
| 23 | electric energy; or |
| 24 | (ii) facilities used in the local distribu- |
| 25 | tion of electric energy. |

| 1 | (10) Secretary.—The term "Secretary" |
|----|--|
| 2 | means the Secretary of Energy, acting through the |
| 3 | Assistant Secretary for the Office of Electricity. |
| 4 | (b) Establishment.—There is established a pro- |
| 5 | gram, to be known as the "Transmission Facilitation Pro- |
| 6 | gram", under which the Secretary shall facilitate the con- |
| 7 | struction of non-Federal electric power transmission lines |
| 8 | and related facilities in accordance with subsection (f). |
| 9 | (c) Administration.—The Secretary shall admin- |
| 10 | ister the program. |
| 11 | (d) Applications.— |
| 12 | (1) In general.—To be eligible for assistance |
| 13 | under this section, an eligible entity shall submit to |
| 14 | the Secretary an application at such time, in such |
| 15 | manner, and containing such information as the Sec- |
| 16 | retary may require. |
| 17 | (2) Procedures.—The Secretary shall estab- |
| 18 | lish procedures for the solicitation and review of ap- |
| 19 | plications from eligible entities. |
| 20 | (e) Funding.— |
| 21 | (1) Transmission facilitation fund.— |
| 22 | There is established in the Treasury a fund, to be |
| 23 | known as the "Transmission Facilitation Fund", |
| 24 | consisting of— |

| 1 | (A) any amounts appropriated to the |
|----|--|
| 2 | Fund; and |
| 3 | (B) any amounts deposited in the Fund |
| 4 | under paragraph (2). |
| 5 | (2) Deposits.—The Secretary shall deposit in |
| 6 | the Fund— |
| 7 | (A) all amounts received by the Secretary, |
| 8 | including receipts, collections, and recoveries, |
| 9 | from any source relating to expenses incurred |
| 10 | by the Secretary in carrying out the program, |
| 11 | including— |
| 12 | (i) costs recovered for a capacity con- |
| 13 | tract; and |
| 14 | (ii) amounts received as repayment of |
| 15 | a loan issued to an eligible entity under |
| 16 | subsection $(f)(1)(B)$; |
| 17 | (B) all amounts borrowed from the Treas- |
| 18 | ury by the Secretary for the program under |
| 19 | paragraph (3); and |
| 20 | (C) any amounts appropriated to the Sec- |
| 21 | retary for the program. |
| 22 | (3) Borrowing authority.—The Secretary |
| 23 | may borrow from the Treasury \$2,500,000,000 to |
| 24 | carry out the program. |

| 1 | (4) Expenditures.—The amounts in the |
|----|---|
| 2 | Fund shall be available to the Secretary, without |
| 3 | further appropriation or fiscal year limitation, to |
| 4 | carry out the program. |
| 5 | (5) Cost recovery.— |
| 6 | (A) IN GENERAL.—Except as provided in |
| 7 | subparagraph (B), the cost of any facilitation |
| 8 | activities carried out by the Secretary under |
| 9 | subsection (f)(1) shall be collected, on a sched- |
| 10 | ule to be determined by the Secretary— |
| 11 | (i) from eligible entities receiving the |
| 12 | benefit of the applicable facilitation activ- |
| 13 | ity; or |
| 14 | (ii) with respect to a contracted trans- |
| 15 | mission capacity under subsection |
| 16 | (f)(1)(A)— |
| 17 | (I) through rates charged to |
| 18 | third parties for the use of the con- |
| 19 | tracted transmission capacity; and |
| 20 | (II) on termination of the appli- |
| 21 | cable capacity contract under sub- |
| 22 | section (g)(6), from the applicable |
| 23 | third party or eligible entity, in ac- |
| 24 | cordance with that subsection. |
| 25 | (B) Exception.— |

| 1 | (i) In General.—The Secretary may |
|----|--|
| 2 | terminate a capacity contract under sub- |
| 3 | section (g)(6) without recovering the out- |
| 4 | standing costs of facilitating the applicable |
| 5 | eligible project if the Secretary determines |
| 6 | that it is not feasible to recover those costs |
| 7 | prior to terminating the capacity contract |
| 8 | as determined by the Secretary. |
| 9 | (ii) Forgiveness of certain |
| 10 | Amounts.—If the Secretary terminates a |
| 11 | capacity contract under clause (i), any |
| 12 | amounts borrowed by the Secretary from |
| 13 | the Treasury for the purpose of facilitating |
| 14 | the applicable eligible project— |
| 15 | (I) shall be forgiven; and |
| 16 | (II) shall not count toward the |
| 17 | limitation described in paragraph |
| 18 | (3)(B). |
| 19 | (6) Refinancing.—The Secretary may refi- |
| 20 | nance loans made to the Secretary under subsection |
| 21 | (e)(3)(A) within the Treasury. |
| 22 | (7) Authorization of appropriations.— |
| 23 | There is authorized to be appropriated to the Sec- |
| 24 | retary to carry out the program, for any administra- |
| 25 | tive expenses of carrying out the program that are |

| 1 | not recovered under paragraph (5), \$10,000,000 for |
|----|---|
| 2 | each of fiscal years 2022 through 2026. |
| 3 | (f) Facilitation of Eligible Projects.— |
| 4 | (1) In General.—To facilitate eligible |
| 5 | projects, the Secretary may— |
| 6 | (A) subject to subsections (g) and (j), |
| 7 | enter into a capacity contract with respect to an |
| 8 | eligible project prior to the date on which the |
| 9 | eligible project is completed; |
| 10 | (B) subject to subsections (h) and (j), |
| 11 | issue a loan to an eligible entity for the costs |
| 12 | of carrying out an eligible project; |
| 13 | (C) provide technical assistance to an eligi- |
| 14 | ble entity with respect to an eligible project; |
| 15 | and |
| 16 | (D) notwithstanding any other provision of |
| 17 | law and subject to subsection (i), to the extent |
| 18 | that an eligible project is required to undergo |
| 19 | an environmental review process, including with |
| 20 | respect to any rights-of-way across Federal |
| 21 | land, establish the Department as the Federal |
| 22 | lead agency for that environmental review proc- |
| 23 | ess. |
| 24 | (2) Requirement.—The provision and receipt |
| 25 | of assistance for an eligible project under paragraph |

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| 1 | (1) shall be subject to such terms and conditions as |
| 2 | the Secretary determines to be appropriate to ensure |
| 3 | the success of the program. |
| 4 | (g) Capacity Contracts.— |
| 5 | (1) Purpose.—In entering into capacity con- |
| 6 | tracts under subsection (f)(1)(A), the Secretary shall |
| 7 | seek to enter into capacity contracts that will en- |
| 8 | courage other entities to enter into contracts for the |
| 9 | transmission capacity of the eligible projects. |
| 10 | (2) Payment.—The amount paid by the Sec- |
| 11 | retary to an eligible entity under a capacity contract |
| 12 | for the right to the use of the transmission capacity |
| 13 | of an eligible project shall be— |
| 14 | (A) the fair market value for the use of the |
| 15 | transmission capacity, as determined by the |
| 16 | Secretary, taking into account, as the Secretary |
| 17 | determines to be necessary, the comparable |
| 18 | value for the use of the transmission capacity of |
| 19 | other electric power transmission lines; and |
| 20 | (B) on a schedule and in such divided |
| 21 | amounts, including in a single amount, that the |
| 22 | Secretary determines are likely to facilitate con- |
| | |

struction of the eligible project, taking into ac-

count standard industry practice and factors

| 1 | specific to each applicant, including, as applica- |
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| 2 | ble— |
| 3 | (i) potential review by a State regu- |
| 4 | latory entity of the revenue requirement of |
| 5 | an electric utility; and |
| 6 | (ii) the financial model of an inde- |
| 7 | pendent transmission developer. |
| 8 | (3) Limitations.—A capacity contract shall— |
| 9 | (A) be for a term of not more than 40 |
| 10 | years; and |
| 11 | (B) be for not more than 50 percent of the |
| 12 | total proposed transmission capacity of the ap- |
| 13 | plicable eligible project. |
| 14 | (4) Terms and conditions.—A capacity con- |
| 15 | tract shall include such detailed terms and condi- |
| 16 | tions as the Secretary determines to be appropriate |
| 17 | to protect the interests of the United States. |
| 18 | (5) Transmission marketing.— |
| 19 | (A) In General.—If the Secretary has |
| 20 | not terminated a capacity contract under para- |
| 21 | graph (6) before the applicable eligible project |
| 22 | enters into service, the Secretary may enter into |
| 23 | 1 or more contracts with a third party to mar- |
| 24 | ket the transmission capacity of the eligible |

third party.

| project to which the Secretary holds rights |
|--|
| under the capacity contract. |
| (B) Return.—The Secretary shall seek to |
| ensure that any contract entered into under |
| subparagraph (A) maximizes the financial re- |
| turn to the Federal Government. |
| (C) COMPETITIVE SOLICITATION.—The |
| Secretary shall only select third parties for con- |
| tracts under this paragraph through a competi- |
| tive solicitation. |
| (6) TERMINATION.— |
| (A) IN GENERAL.—The Secretary shall |
| seek to terminate a capacity contract as soon as |
| practicable after determining that sufficient |
| transmission capacity of the eligible project has |
| been secured by other entities to ensure the |
| long-term financial viability of the eligible |
| project, including through 1 or more transfers |
| under subparagraph (B). |
| (B) Transfer.—On payment to the Sec- |
| retary by a third party for transmission capac- |
| ity to which the Secretary has rights under a |
| capacity contract, the Secretary may transfer |
| the rights to that transmission capacity to that |
| |

| 1 | (C) Relinquishment.—On payment to |
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| 2 | the Secretary by the applicable eligible entity |
| 3 | for transmission capacity to which the Sec- |
| 4 | retary has rights under a capacity contract, the |
| 5 | Secretary may relinquish the rights to that |
| 6 | transmission capacity to the eligible entity. |
| 7 | (D) REQUIREMENT.—A payment under |
| 8 | subparagraph (B) or (C) shall be in an amount |
| 9 | sufficient for the Secretary to recover any re- |
| 10 | maining costs incurred by the Secretary with |
| 11 | respect to the quantity of transmission capacity |
| 12 | affected by the transfer under subparagraph |
| 13 | (B) or the relinquishment under subparagraph |
| 14 | (C), as applicable. |
| 15 | (7) Other federal capacity positions.— |
| 16 | The existence of a capacity contract does not pre- |
| 17 | clude a Federal entity, including a Federal power |
| 18 | marketing administration, from otherwise securing |
| 19 | transmission capacity at any time from an eligible |
| 20 | project, to the extent that the Federal entity is au- |
| 21 | thorized to secure that transmission capacity. |
| 22 | (8) FORM OF FINANCIAL ASSISTANCE.—Enter- |
| 23 | ing into a capacity contract under subsection |
| 24 | (f)(1)(A) shall be considered a form of financial as- |

sistance covered by clause $\llbracket (\mathrm{vii}) \rrbracket$ of section

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- 1 1508.1(q)(1) of title 40, Code of Federal Regula-2 tions.
- 3 (h) Loans.—
- [(1) Interest.—The rate of interest to be charged in connection with any loan made by the Secretary to an eligible entity under subsection (f)(1)(B) shall be fixed by the Secretary, taking into consideration market yields on outstanding market-able obligations of the United States of comparable maturities as of the date of the loan.
- 11 (i) Environmental Review Process.—
 - (1) Joint Lead agencies.—Nothing in this section precludes another Federal agency from being a joint lead agency with the Department in accordance with regulations promulgated under the National Environmental Policy Act of 1969 (42 U.S.C. 4321 et seq.).
 - (2) Effect of Authority.—Except as provided in subsection (g)(8)(B), nothing in this section affects or limits the application of, or any obligation to comply with, any requirement of an environmental law of the United States, including the National Environmental Policy Act of 1969 (42 U.S.C. 4321 et seq.).

| 1 | (3) Cost recovery.—The head of any Federal |
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| 2 | agency may accept funds from an eligible entity to |
| 3 | cover the costs of completing an environmental re- |
| 4 | view process relating to the facilitation of an eligible |
| 5 | project under this section. |
| 6 | (j) CERTIFICATION.—Prior to taking action to facili- |
| 7 | tate an eligible project under subparagraph (A) or (B) of |
| 8 | subsection (f)(1), the Secretary shall certify that— |
| 9 | (1) the eligible project is in the public interest; |
| 10 | (2) the eligible project is unlikely to be con- |
| 11 | structed in as timely a manner or with as much |
| 12 | transmission capacity in the absence of facilitation |
| 13 | under this section, including with respect to an eligi- |
| 14 | ble project for which a Federal investment tax credit |
| 15 | may be allowed; and |
| 16 | (3) it is reasonable to expect that the proceeds |
| 17 | from the eligible project will be adequate, as applica- |
| 18 | ble— |
| 19 | (A) to recover the cost of a capacity con- |
| 20 | tract entered into under subsection (f)(1)(A); or |
| 21 | (B) to repay a loan provided under sub- |
| 22 | section $(f)(1)(B)$. |
| 23 | (k) Other Authorities, Limitations, and Ef- |
| 24 | FECTS.— |

| 1 | (1) Participation.—The Secretary may per- |
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| 2 | mit other entities to participate in the financing, |
| 3 | construction, and ownership of eligible projects fa- |
| 4 | cilitated under this section. |
| 5 | (2) Operations and maintenance.—Facilita- |
| 6 | tion by the Secretary of an eligible project under |
| 7 | this section does not create any obligation on the |
| 8 | part of the Secretary to operate or maintain the eli- |
| 9 | gible project. |
| 10 | (3) Federal facilities.—For purposes of |
| 11 | cost recovery under subsection $(e)(5)$ and repayment |
| 12 | of a loan issued under subsection $(f)(1)(B)$, each eli- |
| 13 | gible project facilitated by the Secretary through the |
| 14 | use of a capacity contract or the issuance of a loan |
| 15 | under this section shall be treated as separate and |
| 16 | distinct from— |
| 17 | (A) each other eligible project; and |
| 18 | (B) all other Federal power and trans- |
| 19 | mission facilities. |
| 20 | (4) Effect on ancillary services author- |
| 21 | ITY AND OBLIGATIONS.—Nothing in this section con- |
| 22 | fers on the Secretary or any Federal power mar- |
| 23 | keting administration any additional authority or ob- |
| 24 | ligation to provide ancillary services to users of |

| 1 | transmission facilities constructed or upgraded |
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| 2 | under this section. |
| 3 | (5) Effect on Western area power admin- |
| 4 | ISTRATION PROJECTS.—Nothing in this section af- |
| 5 | fects— |
| 6 | (A) any pending project application before |
| 7 | the Western Area Power Administration under |
| 8 | section 301 of the Hoover Power Plant Act of |
| 9 | 1984 (42 U.S.C. 16421a); or |
| 10 | (B) any agreement entered into by the |
| 11 | Western Power Administration under that sec- |
| 12 | tion. |
| 13 | (6) Third-party finance.—Nothing in this |
| 14 | section precludes an eligible project facilitated under |
| 15 | this section from being eligible as a project under |
| 16 | section 1222 of the Energy Policy Act of 2005 (42 |
| 17 | U.S.C. 16421). |
| 18 | (7) Limitation on loans.—An eligible project |
| 19 | may not be the subject of both— |
| 20 | (A) a loan under subsection (f)(1)(B); and |
| 21 | (B) a Federal loan under section 301 of |
| 22 | the Hoover Power Plant Act of 1984 (42 |
| 23 | U.S.C. 16421a). |
| 24 | (8) Considerations.—In evaluating eligible |
| 25 | projects for possible facilitation under this section, |

| 1 | the Secretary shall prioritize projects that, to the ex- |
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| 2 | tent practicable— |
| 3 | (A) use technology that enhances the ca- |
| 4 | pacity, efficiency, or reliability of an electric |
| 5 | power transmission system, including hardware |
| 6 | or software that enables dynamic line ratings |
| 7 | advanced power flow control, or grid topology |
| 8 | optimization; |
| 9 | (B) will improve the resiliency and reli- |
| 10 | ability of an electric power transmission system |
| 11 | (C) facilitate interregional transmission |
| 12 | projects that support strong and equitable eco- |
| 13 | nomic growth; and |
| 14 | (D) contribute to national or subnational |
| 15 | goals to lower electricity sector greenhouse gas |
| 16 | emissions. |
| 17 | SEC. 1008. DEPLOYMENT OF TECHNOLOGIES TO ENHANCE |
| 18 | GRID FLEXIBILITY. |
| 19 | (a) In General.—Section 1306 of the Energy Inde- |
| 20 | pendence and Security Act of 2007 (42 U.S.C. 17386) is |
| 21 | amended— |
| 22 | (1) in subsection (b)— |
| 23 | (A) in the matter preceding paragraph (1), |
| 24 | by striking "the date of enactment of this Act" |

| 1 | and inserting "the date of enactment of the En- |
|----|--|
| 2 | ergy Infrastructure Act"; |
| 3 | (B) by redesignating paragraph (9) as |
| 4 | paragraph (13); and |
| 5 | (C) by inserting after paragraph (8) the |
| 6 | following: |
| 7 | "(9) In the case of data analytics that enable |
| 8 | software to engage in Smart Grid functions, the doc- |
| 9 | umented purchase costs of the data analytics. |
| 10 | "(10) In the case of buildings, the documented |
| 11 | expenses for devices and software that allow build- |
| 12 | ings to engage in Smart Grid functions. |
| 13 | "(11) In the case of utility communications, |
| 14 | operational fiber and wireless broadband commu- |
| 15 | nications networks to enable data flow between dis- |
| 16 | tribution system components. |
| 17 | "(12) In the case of extreme weather or natural |
| 18 | disasters, such as wildfires, the ability to redirect or |
| 19 | shut off power to minimize blackouts and avoid fur- |
| 20 | ther damage."; and |
| 21 | (2) in subsection (d)— |
| 22 | (A) by redesignating paragraph (9) as |
| 23 | paragraph (13); and |
| 24 | (B) by inserting after paragraph (8) the |
| 25 | following: |

| 1 | "(9) The ability to use data analytics and soft- |
|----|---|
| 2 | ware-as-service to provide flexibility by improving |
| 3 | the visibility of the electrical system to grid opera- |
| 4 | tors that can help quickly rebalance the electrical |
| 5 | system with autonomous controls. |
| 6 | "(10) The ability to facilitate the aggregation |
| 7 | or integration of distributed energy resources to |
| 8 | serve as assets for the grid. |
| 9 | "(11) The ability to provide energy storage to |
| 10 | meet fluctuating electricity demand, provide voltage |
| 11 | support, and integrate intermittent generation |
| 12 | sources. |
| 13 | "(12) The ability to anticipate and mitigate im- |
| 14 | pacts of extreme weather events or natural disasters |
| 15 | on grid resiliency.". |
| 16 | (b) APPROPRIATIONS.—In addition to amounts other- |
| 17 | wise made available, there is appropriated to the Secretary |
| 18 | to carry out the Smart Grid Investment Matching Grant |
| 19 | Program established under section 1306(a) of the Energy |
| 20 | Independence and Security Act of 2007 (42 U.S.C. |
| 21 | 17386(a)), out of any amounts in the Treasury not other- |
| 22 | wise appropriated, \$3,000,000,000 for fiscal year 2022, |
| 23 | to remain available through September 30, 2026. |

| 1 | SEC. 1009. STATE ENERGY SECURITY PLANS. |
|----|---|
| 2 | (a) In General.—Part D of title III of the Energy |
| 3 | Policy and Conservation Act (42 U.S.C. 6321 et seq.) is |
| 4 | amended— |
| 5 | (1) in section 361— |
| 6 | (A) by striking the section designation and |
| 7 | heading and all that follows through "The Con- |
| 8 | gress" and inserting the following: |
| 9 | "SEC. 361. FINDINGS; PURPOSE; DEFINITIONS. |
| 10 | "(a) Findings.—Congress". |
| 11 | (B) in subsection (b), by striking "(b) It |
| 12 | is" and inserting the following: |
| 13 | "(b) Purpose.—It is"; and |
| 14 | (C) by adding at the end the following: |
| 15 | "(c) Definitions.—In this part:"; |
| 16 | (2) in section 366— |
| 17 | (A) in paragraph (3)(B)(i), by striking |
| 18 | "approved under section 367, and"; and insert- |
| 19 | ing "; and; |
| 20 | (B) in each of paragraphs (1) through (8), |
| 21 | by inserting a paragraph heading, the text of |
| 22 | which is comprised of the term defined in the |
| 23 | paragraph; and |
| 24 | (C) by redesignating paragraphs (6) and |
| 25 | (7) as paragraphs (7) and (6), respectively, and |

| 1 | moving the paragraphs so as to appear in nu- |
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| 2 | merical order; |
| 3 | (3) by moving paragraphs (1) through (8) of |
| 4 | section 366 (as so redesignated) so as to appear |
| 5 | after subsection (c) of section 361 (as designated by |
| 6 | paragraph $(1)(D)$; and |
| 7 | (4) by amending section 366 to read as follows |
| 8 | "SEC. 366. STATE ENERGY SECURITY PLANS. |
| 9 | "(a) Definitions.—In this section: |
| 10 | "(1) Bulk-power system.—The term 'bulk- |
| 11 | power system' has the meaning given the term in |
| 12 | section 215(a) of the Federal Power Act (16 U.S.C. |
| 13 | 824o(a)). |
| 14 | "(2) State energy security plan.—The |
| 15 | term 'State energy security plan' means a State en- |
| 16 | ergy security plan described in subsection (b). |
| 17 | "(b) Financial Assistance for State Energy |
| 18 | Security Plans.—Federal financial assistance made |
| 19 | available to a State under this part may be used for the |
| 20 | development, implementation, review, and revision of a |
| 21 | State energy security plan that— |
| 22 | "(1) assesses the existing circumstances in the |
| 23 | State; and |
| | |

| 1 | "(2) proposes methods to strengthen the ability |
|----|--|
| 2 | of the State, in consultation with owners and opera- |
| 3 | tors of energy infrastructure in the State— |
| 4 | "(A) to secure the energy infrastructure of |
| 5 | the State against all physical and cybersecurity |
| 6 | threats; |
| 7 | "(B)(i) to mitigate the risk of energy sup- |
| 8 | ply disruptions to the State; and |
| 9 | "(ii) to enhance the response to, and recov- |
| 10 | ery from, energy disruptions; and |
| 11 | "(C) to ensure that the State has reliable, |
| 12 | secure, and resilient energy infrastructure. |
| 13 | "(c) Contents of Plan.—A State energy security |
| 14 | plan shall— |
| 15 | "(1) address all energy sources and regulated |
| 16 | and unregulated energy providers; |
| 17 | "(2) provide a State energy profile, including |
| 18 | an assessment of energy production, transmission, |
| 19 | distribution, and end-use; |
| 20 | "(3) address potential hazards to each energy |
| 21 | sector or system, including— |
| 22 | "(A) physical threats and vulnerabilities; |
| 23 | and |
| 24 | "(B) cybersecurity threats and |
| 25 | vulnerabilities; |

| 1 | "(4) provide a risk assessment of energy infra- |
|----|---|
| 2 | structure and cross-sector interdependencies; |
| 3 | "(5) provide a risk mitigation approach to en- |
| 4 | hance reliability and end-use resilience; and |
| 5 | "(6)(A) address— |
| 6 | "(i) multi-State and regional coordination, |
| 7 | planning, and response; and |
| 8 | "(ii) coordination with Indian Tribes with |
| 9 | respect to planning and response; and |
| 10 | "(B) to the extent practicable, encourage mu- |
| 11 | tual assistance in cyber and physical response plans. |
| 12 | "(d) Coordination.—In developing or revising a |
| 13 | State energy security plan, the State energy office of the |
| 14 | State shall coordinate, to the extent practicable, with— |
| 15 | "(1) the public utility or service commission of |
| 16 | the State; |
| 17 | "(2) energy providers from the private and pub- |
| 18 | lic sectors; and |
| 19 | "(3) other entities responsible for— |
| 20 | "(A) maintaining fuel or electric reliability; |
| 21 | and |
| 22 | "(B) securing energy infrastructure. |
| 23 | "(e) Financial Assistance.—A State is not eligible |
| 24 | to receive Federal financial assistance under this part for |
| 25 | any purpose for a fiscal year unless the Governor of the |

| 1 | State submits to the Secretary, with respect to that fiscal |
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| 2 | year— |
| 3 | "(1) a State energy security plan that meets |
| 4 | the requirements of subsection (c); or |
| 5 | "(2) after an annual review, carried out by the |
| 6 | Governor, of a State energy security plan— |
| 7 | "(A) any necessary revisions to the State |
| 8 | energy security plan; or |
| 9 | "(B) a certification that no revisions to the |
| 10 | State energy security plan are necessary. |
| 11 | "(f) TECHNICAL ASSISTANCE.—On request of the |
| 12 | Governor of a State, the Secretary, in consultation with |
| 13 | the Secretary of Homeland Security, may provide informa- |
| 14 | tion, technical assistance, and other assistance in the de- |
| 15 | velopment, implementation, or revision of a State energy |
| 16 | security plan. |
| 17 | "(g) Requirement.—Each State receiving Federal |
| 18 | financial assistance under this part shall provide reason- |
| 19 | able assurance to the Secretary that the State has estab- |
| 20 | lished policies and procedures designed to assure that the |
| 21 | financial assistance will be used— |
| 22 | "(1) to supplement, and not to supplant, State |
| 23 | and local funds; and |
| 24 | "(2) to the maximum extent practicable, to in- |
| 25 | crease the amount of State and local funds that oth- |

| 1 | erwise would be available, in the absence of the Fed- |
|----|---|
| 2 | eral financial assistance, for the implementation of ϵ |
| 3 | State energy security plan. |
| 4 | "(h) Protection of Information.—Information |
| 5 | provided to, or collected by, the Federal Government pur- |
| 6 | suant to this section the disclosure of which the Secretary |
| 7 | reasonably foresees could be detrimental to the physical |
| 8 | security or cybersecurity of any electric utility or the bulk- |
| 9 | power system— |
| 10 | "(1) shall be exempt from disclosure under sec- |
| 11 | tion 552(b)(3) of title 5, United States Code; and |
| 12 | "(2) shall not be made available by any Federal |
| 13 | agency, State, political subdivision of a State, or |
| 14 | Tribal authority pursuant to any Federal, State, po- |
| 15 | litical subdivision of a State, or Tribal law, respec- |
| 16 | tively, requiring public disclosure of information or |
| 17 | records. |
| 18 | "(i) Sunset.—The requirements of this section shall |
| 19 | expire on October 31, 2025.". |
| 20 | (b) CLERICAL AMENDMENTS.—The table of contents |
| 21 | of the Energy Policy and Conservation Act (Public Law |
| 22 | 94–163; 89 Stat. 872) is amended— |
| 23 | (1) by striking the item relating to section 361 |
| 24 | and inserting the following: |

"Sec. 361. Findings; purpose; definitions."; and

| 1 | (2) by striking the item relating to section 366 |
|----|--|
| 2 | and inserting the following: |
| | "Sec. 366. State energy security plans.". |
| 3 | (c) Conforming Amendments.— |
| 4 | (1) Section 509(i)(3) of the Housing and Urban |
| 5 | Development Act of 1970 (12 U.S.C. 1701z-8(i)(3)) |
| 6 | is amended by striking "prescribed for such terms in |
| 7 | section 366 of the Energy Policy and Conservation |
| 8 | Act" and inserting "given the terms in section |
| 9 | 361(c) of the Energy Policy and Conservation Act". |
| 10 | (2) Section 363 of the Energy Policy and Con- |
| 11 | servation Act (42 U.S.C. 6323) is amended— |
| 12 | (A) by striking subsection (e); and |
| 13 | (B) by redesignating subsection (f) as sub- |
| 14 | section (e). |
| 15 | (3) Section 451(i)(3) of the Energy Conserva- |
| 16 | tion and Production Act (42 U.S.C. 6881(i)(3)) is |
| 17 | amended by striking "prescribed for such terms in |
| 18 | section 366 of the Federal Energy Policy and Con- |
| 19 | servation Act" and inserting "given the terms in sec- |
| 20 | tion 361(c) of the Energy Policy and Conservation |
| 21 | Act''. |
| 22 | SEC. 1010. STATE ENERGY PROGRAM. |
| 23 | (a) Authorization of Appropriations.—Section |
| 24 | 365 of the Energy Policy and Conservation Act (42 U.S.C. |

| 1 | 6325) is amended by striking subsection (f) and inserting |
|----|--|
| 2 | the following: |
| 3 | "(f) Authorization of Appropriations.—There |
| 4 | is authorized to be appropriated to carry out this part |
| 5 | \$90,000,000 for each of fiscal years 2022 through 2026.". |
| 6 | (b) Collaborative Transmission Siting.— |
| 7 | (1) IN GENERAL.—Part D of title III of the |
| 8 | Energy Policy and Conservation Act (42 U.S.C. |
| 9 | 6321 et seq.) is amended by adding at the end the |
| 10 | following: |
| 11 | "SEC. 367. DIRECT APPROPRIATIONS. |
| 12 | "In addition to amounts otherwise made available, |
| 13 | there is appropriated to the Secretary, out of any amounts |
| 14 | in the Treasury not otherwise appropriated, \$500,000,000 |
| 15 | for fiscal year 2022, to remain available through Sep- |
| 16 | tember 30, 2029, for the State Energy Program under |
| 17 | this part for State, local, and Tribal governments to sup- |
| 18 | port transmission and distribution planning, including— |
| 19 | "(1) feasibility studies for transmission line |
| 20 | routes and alternatives; |
| 21 | "(2) preparation of necessary project design |
| 22 | and permits; and |
| 23 | "(3) outreach to affected stakeholders.". |
| 24 | (2) CLERICAL AMENDMENT.—The table of con- |
| | |

tents of the Energy Policy and Conservation Act

| | 1 | (Public | Law | 94-163: | 89 | Stat. | 872) | is | amended | by |
|--|---|---------|-----|---------|----|-------|------|----|---------|----|
|--|---|---------|-----|---------|----|-------|------|----|---------|----|

- 2 adding at the end of the items relating to part D of
- 3 title III the following:

"Sec. 367. Direct appropriations.".

- 4 (c) State Energy Conservation Plans.—Section
- 5 362(d) of the Energy Policy and Conservation Act (42)
- 6 U.S.C. 6322(d)) is amended by striking paragraph (3) and
- 7 inserting the following:
- 8 "(3) programs to increase transportation energy
- 9 efficiency, including programs to help reduce carbon
- emissions in the transportation sector by 2050 and
- accelerate the use of alternative transportation fuels
- for, and the electrification of, State government ve-
- hicles, fleet vehicles, taxis and ridesharing services,
- mass transit, school buses, and privately owned pas-
- senger and medium- and heavy-duty vehicles;".

16 SEC. 1011. POWER MARKETING ADMINISTRATION TRANS-

17 MISSION BORROWING AUTHORITY.

- 18 For the purposes of providing funds to assist in the
- 19 financing of the construction, acquisition, and replacement
- 20 of the transmission system of the Bonneville Power Ad-
- 21 ministration under the Pacific Northwest Electric Power
- 22 Planning and Conservation Act (16 U.S.C. 839 et seq.),
- 23 an additional \$2,000,000,000 in borrowing authority is
- 24 made available under the Federal Columbia River Trans-

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|---|
| mission System Act (16 U.S.C. 838 et seq.), to remain |
| outstanding at any 1 time. |
| Subtitle B—Cybersecurity |
| SEC. 1101. ENHANCING GRID SECURITY THROUGH PUBLIC- |
| PRIVATE PARTNERSHIPS. |
| (a) Definitions.—In this section: |
| (1) Bulk-power system; electric reli- |
| ABILITY ORGANIZATION.—The terms "bulk-power |
| system" and "Electric Reliability Organization" has |
| the meaning given the terms in section 215(a) of the |
| Federal Power Act (16 U.S.C. 824o(a)). |
| (2) Electric utility; state regulatory |
| AUTHORITY.—The terms "electric utility" and |
| "State regulatory authority" have the meanings |
| given the terms in section 3 of the Federal Power |
| Act (16 U.S.C. 796). |
| (b) Program to Promote and Advance Physical |
| SECURITY AND CYBERSECURITY OF ELECTRIC UTILI- |
| TIES.— |
| (1) Establishment.—The Secretary, in con- |
| |

21 sultation with the Secretary of Homeland Security 22 and, as the Secretary determines to be appropriate, 23 the heads of other relevant Federal agencies, State 24 regulatory authorities, industry stakeholders, and

| 1 | the Electric Reliability Organization, shall carry out |
|----|--|
| 2 | a program— |
| 3 | (A) to develop, and provide for voluntary |
| 4 | implementation of, maturity models, self-assess- |
| 5 | ments, and auditing methods for assessing the |
| 6 | physical security and cybersecurity of electric |
| 7 | utilities; |
| 8 | (B) to assist with threat assessment and |
| 9 | cybersecurity training for electric utilities; |
| 10 | (C) to provide technical assistance for elec- |
| 11 | tric utilities subject to the program; |
| 12 | (D) to provide training to electric utilities |
| 13 | to address and mitigate cybersecurity supply |
| 14 | chain management risks; |
| 15 | (E) to advance, in partnership with electric |
| 16 | utilities, the cybersecurity of third-party ven- |
| 17 | dors that manufacture components of the elec- |
| 18 | tric grid; and |
| 19 | (F) to increase opportunities for sharing |
| 20 | best practices and data collection within the |
| 21 | electric sector. |
| 22 | (2) Scope.—In carrying out the program under |
| 23 | paragraph (1), the Secretary shall— |
| 24 | (A) take into consideration— |

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| 1 | (i) the different sizes of electric utili- |
|----|---|
| 2 | ties; and |
| 3 | (ii) the regions that electric utilities |
| 4 | serve; |
| 5 | (B) prioritize electric utilities with fewer |
| 6 | available resources due to size or region; and |
| 7 | (C) to the maximum extent practicable |
| 8 | use and leverage— |
| 9 | (i) existing Department and Depart- |
| 10 | ment of Homeland Security programs; and |
| 11 | (ii) existing programs of the Federal |
| 12 | agencies determined to be appropriate |
| 13 | under paragraph (1). |
| 14 | (c) Report on Cybersecurity of Distribution |
| 15 | Systems.—Not later than 1 year after the date of enact- |
| 16 | ment of this Act, the Secretary, in consultation with the |
| 17 | Secretary of Homeland Security and, as the Secretary de- |
| 18 | termines to be appropriate, the heads of other Federal |
| 19 | agencies, State regulatory authorities, and industry stake- |
| 20 | holders, shall submit to Congress a report that assesses— |
| 21 | (1) priorities, policies, procedures, and actions |
| 22 | for enhancing the physical security and cybersecurity |
| 23 | of electricity distribution systems, including behind- |
| 24 | the-meter generation, storage, and load management |

| 1 | devices, to address threats to, and vulnerabilities of, |
|----|--|
| 2 | electricity distribution systems; and |
| 3 | (2) the implementation of the priorities, poli- |
| 4 | cies, procedures, and actions assessed under para- |
| 5 | graph (1), including— |
| 6 | (A) an estimate of potential costs and ben- |
| 7 | efits of the implementation; and |
| 8 | (B) an assessment of any public-private |
| 9 | cost-sharing opportunities. |
| 10 | (d) Protection of Information.—Information |
| 11 | provided to, or collected by, the Federal Government pur- |
| 12 | suant to this section the disclosure of which the Secretary |
| 13 | reasonably foresees could be detrimental to the physical |
| 14 | security or cybersecurity of any electric utility or the bulk- |
| 15 | power system— |
| 16 | (1) shall be exempt from disclosure under sec- |
| 17 | tion 552(b)(3) of title 5, United States Code; and |
| 18 | (2) shall not be made available by any Federal |
| 19 | agency, State, political subdivision of a State, or |
| 20 | Tribal authority pursuant to any Federal, State, po- |
| 21 | litical subdivision of a State, or Tribal law, respec- |
| 22 | tively, requiring public disclosure of information or |
| 23 | records. |
| 24 | (e) Savings Provision.—Nothing in this section af- |
| 25 | fects the authority, existing on the day before the date |

- 1 of enactment of this Act, of any other Federal department
- 2 or agency, including the authority provided to the Sec-
- 3 retary of Homeland Security and the Director of the Cy-
- 4 bersecurity and Infrastructure Security Agency in title
- 5 XXII of the Homeland Security Act of 2002 (6 U.S.C.
- 6 651 et seq.).

7 SEC. 1102. ENERGY CYBER SENSE PROGRAM.

- 8 (a) Definitions.—In this section:
- 9 (1) Bulk-power system.—The term "bulk-
- power system" has the meaning given the term in
- section 215(a) of the Federal Power Act (16 U.S.C.
- 12 824o(a)).
- 13 (2) Program.—The term "program" means
- the voluntary Energy Cyber Sense program estab-
- lished under subsection (b).
- 16 (b) Establishment.—The Secretary, in consulta-
- 17 tion with the Secretary of Homeland Security and the
- 18 heads of other relevant Federal agencies, shall establish
- 19 a voluntary Energy Cyber Sense program to test the cy-
- 20 bersecurity of products and technologies intended for use
- 21 in the bulk-power system.
- (c) Program Requirements.—In carrying out sub-
- 23 section (b), the Secretary, in consultation with the Sec-
- 24 retary of Homeland Security and the heads of other rel-
- 25 evant Federal agencies, shall—

- 1 (1) establish a testing process under the pro-2 gram to test the cybersecurity of products and tech-3 nologies intended for use in the bulk-power system, 4 including products relating to industrial control sys-5 tems and operational technologies, such as super-6 visory control and data acquisition systems; 7 (2) for products and technologies tested under 8 the program, establish and maintain cybersecurity 9 vulnerability reporting processes and a related data-10 base that are integrated with Federal vulnerability 11 coordination processes; 12 (3) provide technical assistance to electric utili-13 ties, product manufacturers, and other electricity 14 sector stakeholders to develop solutions to mitigate 15 identified cybersecurity vulnerabilities in products 16 and technologies tested under the program; 17 (4) biennially review products and technologies 18 under the program for tested cybersecurity 19 vulnerabilities and provide analysis with respect to 20 how those products and technologies respond to and 21 mitigate cyber threats; 22 (5) develop guidance that is informed by anal-23 ysis and testing results under the program for elec-24 tric utilities for the procurement of products and
 - technologies;

| 1 | (6) provide reasonable notice to, and solicit |
|----|--|
| 2 | comments from, the public prior to establishing or |
| 3 | revising the testing process under the program; |
| 4 | (7) oversee the testing of products and tech- |
| 5 | nologies under the program; and |
| 6 | (8) consider incentives to encourage the use of |
| 7 | analysis and results of testing under the program in |
| 8 | the design of products and technologies for use in |
| 9 | the bulk-power system. |
| 10 | (d) Protection of Information.—Information |
| 11 | provided to, or collected by, the Federal Government pur- |
| 12 | suant to this section the disclosure of which the Secretary |
| 13 | reasonably foresees could be detrimental to the physical |
| 14 | security or cybersecurity of any electric utility or the bulk- |
| 15 | power system— |
| 16 | (1) shall be exempt from disclosure under sec- |
| 17 | tion 552(b)(3) of title 5, United States Code; and |
| 18 | (2) shall not be made available by any Federal |
| 19 | agency, State, political subdivision of a State, or |
| 20 | Tribal authority pursuant to any Federal, State, po- |
| 21 | litical subdivision of a State, or Tribal law, respec- |
| 22 | tively, requiring public disclosure of information or |
| 23 | records. |
| 24 | (e) Federal Government Liability.—Nothing in |
| 25 | this section authorizes the commencement of an action |

- 1 against the United States with respect to the testing of
- 2 a product or technology under the program.
- 3 (f) Savings Provision.—Nothing in this section af-
- 4 fects the authority, existing on the day before the date
- 5 of enactment of this Act, of any other Federal department
- 6 or agency, including the authority provided to the Sec-
- 7 retary of Homeland Security and the Director of the Cy-
- 8 bersecurity and Infrastructure Security Agency in title
- 9 XXII of the Homeland Security Act of 2002 (6 U.S.C.
- 10 651 et seq.).
- 11 SEC. 1103. INCENTIVES FOR ADVANCED CYBERSECURITY
- 12 TECHNOLOGY INVESTMENT.
- Part II of the Federal Power Act is amended by in-
- 14 serting after section 219 (16 U.S.C. 824s) the following:
- 15 "SEC. 219A. INCENTIVES FOR CYBERSECURITY INVEST-
- 16 MENTS.
- 17 "(a) Definitions.—In this section:
- 18 "(1) Advanced cybersecurity tech-
- NOLOGY.—The term 'advanced cybersecurity tech-
- 20 nology' means any technology, operational capability,
- or service, including computer hardware, software,
- or a related asset, that enhances the security posture
- of public utilities through improvements in the abil-
- 24 ity to protect against, detect, respond to, or recover
- from a cybersecurity threat (as defined in section

| 1 | 102 of the Cybersecurity Act of 2015 (6 U.S.C. |
|----|---|
| 2 | 1501)). |
| 3 | "(2) Advanced cybersecurity technology |
| 4 | INFORMATION.—The term 'advanced cybersecurity |
| 5 | technology information' means information relating |
| 6 | to advanced cybersecurity technology or proposed |
| 7 | advanced cybersecurity technology that is generated |
| 8 | by or provided to the Commission or another Fed- |
| 9 | eral agency. |
| 10 | "(b) STUDY.—Not later than 180 days after the date |
| 11 | of enactment of this section, the Commission, in consulta- |
| 12 | tion with the Secretary of Energy, the North American |
| 13 | Electric Reliability Corporation, the Electricity Subsector |
| 14 | Coordinating Council, and the National Association of |
| 15 | Regulatory Utility Commissioners, shall conduct a study |
| 16 | to identify incentive-based, including performance-based, |
| 17 | rate treatments for the transmission and sale of electric |
| 18 | energy subject to the jurisdiction of the Commission that |
| 19 | could be used to encourage— |
| 20 | "(1) investment by public utilities in advanced |
| 21 | cybersecurity technology; and |
| 22 | "(2) participation by public utilities in cyberse- |
| 23 | curity threat information sharing programs. |
| 24 | "(c) Incentive-Based Rate Treatment.—Not |
| 25 | later than 1 year after the completion of the study under |

| 1 | subsection (b), the Commission shall establish, by rule, in- |
|----|--|
| 2 | centive-based, including performance-based, rate treat- |
| 3 | ments for the transmission of electric energy in interstate |
| 4 | commerce and the sale of electric energy at wholesale in |
| 5 | interstate commerce by public utilities for the purpose of |
| 6 | benefitting consumers by encouraging— |
| 7 | "(1) investments by public utilities in advanced |
| 8 | cybersecurity technology; and |
| 9 | "(2) participation by public utilities in cyberse- |
| 10 | curity threat information sharing programs. |
| 11 | "(d) Factors for Consideration.—In issuing a |
| 12 | rule pursuant to this section, the Commission may provide |
| 13 | additional incentives beyond those identified in subsection |
| 14 | (c) in any case in which the Commission determines that |
| 15 | an investment in advanced cybersecurity technology or in- |
| 16 | formation sharing program costs will reduce cybersecurity |
| 17 | risks to— |
| 18 | "(1) defense critical electric infrastructure (as |
| 19 | defined in section 215A(a)) and other facilities sub- |
| 20 | ject to the jurisdiction of the Commission that are |
| 21 | critical to public safety, national defense, or home- |
| 22 | land security, as determined by the Commission in |
| 23 | consultation with— |
| 24 | "(A) the Secretary of Energy; |

| 1 | "(B) the Secretary of Homeland Security |
|----|--|
| 2 | and |
| 3 | "(C) other appropriate Federal agencies |
| 4 | and |
| 5 | "(2) facilities of small or medium-sized public |
| 6 | utilities with limited cybersecurity resources, as de- |
| 7 | termined by the Commission. |
| 8 | "(e) Ratepayer Protection.— |
| 9 | "(1) In General.—Any rate approved under ϵ |
| 10 | rule issued pursuant to this section, including any |
| 11 | revisions to that rule, shall be subject to the require- |
| 12 | ments of sections 205 and 206 that all rates |
| 13 | charges, terms, and conditions— |
| 14 | "(A) shall be just and reasonable; and |
| 15 | "(B) shall not be unduly discriminatory or |
| 16 | preferential. |
| 17 | "(2) Prohibition of Duplicate Recovery.— |
| 18 | Any rule issued pursuant to this section shall pre- |
| 19 | clude rate treatments that allow unjust and unrea- |
| 20 | sonable double recovery for advanced cybersecurity |
| 21 | technology. |
| 22 | "(f) Single-Issue Rate Filings.—The Commis- |
| 23 | sion shall permit public utilities to apply for incentive- |
| 24 | based rate treatment under a rule issued under this sec- |
| 25 | tion on a single-issue basis by submitting to the Commis- |

- 1 sion a tariff schedule under section 205 that permits re-
- 2 covery of costs and incentives over the depreciable life of
- 3 the applicable assets, without regard to changes in receipts
- 4 or other costs of the public utility.
- 5 "(g) Protection of Information.—Advanced cy-
- 6 bersecurity technology information that is provided to,
- 7 generated by, or collected by the Federal Government
- 8 under subsection (b), (c), or (f) shall be considered to be
- 9 critical electric infrastructure information under section
- 10 215A.".
- 11 SEC. 1104. RURAL AND MUNICIPAL UTILITY ADVANCED CY-
- 12 BERSECURITY GRANT AND TECHNICAL AS-
- 13 SISTANCE PROGRAM.
- 14 (a) DEFINITIONS.—In this section:
- 15 (1) Advanced cybersecurity tech-
- NOLOGY.—The term "advanced cybersecurity tech-
- 17 nology" means any technology, operational capa-
- bility, or service, including computer hardware, soft-
- ware, or a related asset, that enhances the security
- posture of electric utilities through improvements in
- 21 the ability to protect against, detect, respond to, or
- recover from a cybersecurity threat (as defined in
- section 102 of the Cybersecurity Act of 2015 (6
- 24 U.S.C. 1501)).

| 1 | (2) Bulk-power system.—The term "bulk- |
|----|---|
| 2 | power system" has the meaning given the term in |
| 3 | section 215(a) of the Federal Power Act (16 U.S.C. |
| 4 | 824o(a)). |
| 5 | (3) Eligible enti- |
| 6 | ty'' means— |
| 7 | (A) a rural electric cooperative; |
| 8 | (B) a utility owned by a political subdivi- |
| 9 | sion of a State, such as a municipally owned |
| 10 | electric utility; |
| 11 | (C) a utility owned by any agency, author- |
| 12 | ity, corporation, or instrumentality of 1 or more |
| 13 | political subdivisions of a State; |
| 14 | (D) a not-for-profit entity that is in a part- |
| 15 | nership with not fewer than 6 entities described |
| 16 | in subparagraph (A), (B), or (C); and |
| 17 | (E) an investor-owned electric utility that |
| 18 | sells less than 4,000,000 megawatt hours of |
| 19 | electricity per year. |
| 20 | (4) Program.—The term "Program" means |
| 21 | the Rural and Municipal Utility Advanced Cyberse- |
| 22 | curity Grant and Technical Assistance Program es- |
| 23 | tablished under subsection (b). |
| 24 | (b) Establishment.—Not later than 180 days after |
| 25 | the date of enactment of this Act, the Secretary, in con- |

| 1 | sultation with the Secretary of Homeland Security, the |
|----|---|
| 2 | Federal Energy Regulatory Commission, the North Amer- |
| 3 | ican Electric Reliability Corporation, and the Electricity |
| 4 | Subsector Coordinating Council, shall establish a program |
| 5 | to be known as the "Rural and Municipal Utility Advanced |
| 6 | Cybersecurity Grant and Technical Assistance Program", |
| 7 | to provide grants and technical assistance to, and enter |
| 8 | into cooperative agreements with, eligible entities to pro- |
| 9 | tect against, detect, respond to, and recover from cyberse- |
| 10 | curity threats. |
| 11 | (c) Objectives.—The objectives of the Program |
| 12 | shall be— |
| 13 | (1) to deploy advanced cybersecurity tech- |
| 14 | nologies for electric utility systems; and |
| 15 | (2) to increase the participation of eligible enti- |
| 16 | ties in cybersecurity threat information sharing pro- |
| 17 | grams. |
| 18 | (d) Awards.— |
| 19 | (1) In General.—The Secretary— |
| 20 | (A) shall award grants and provide tech- |
| 21 | nical assistance under the Program to eligible |
| 22 | entities on a competitive basis; |
| 23 | (B) shall develop criteria and a formula for |
| 24 | awarding grants and providing technical assist- |
| 25 | ance under the Program; |
| | |

| 1 | (C) may enter into cooperative agreements |
|----|--|
| 2 | with eligible entities that can facilitate the ob- |
| 3 | jectives described in subsection (c); and |
| 4 | (D) shall establish a process to ensure that |
| 5 | all eligible entities are informed about and can |
| 6 | become aware of opportunities to receive grants |
| 7 | or technical assistance under the Program. |
| 8 | (2) Priority for grants and technical as- |
| 9 | SISTANCE.—In awarding grants and providing tech- |
| 10 | nical assistance under the Program, the Secretary |
| 11 | shall give priority to an eligible entity that, as deter- |
| 12 | mined by the Secretary— |
| 13 | (A) has limited cybersecurity resources; |
| 14 | (B) owns assets critical to the reliability of |
| 15 | the bulk-power system; or |
| 16 | (C) owns defense critical electric infra- |
| 17 | structure (as defined in section 215A(a) of the |
| 18 | Federal Power Act (16 U.S.C. 8240–1(a))). |
| 19 | (e) Protection of Information.—Information |
| 20 | provided to, or collected by, the Federal Government pur- |
| 21 | suant to this section the disclosure of which the Secretary |
| 22 | reasonably foresees could be detrimental to the physical |
| 23 | security or cybersecurity of any electric utility or the bulk- |
| 24 | power system— |

| 1 | (1) shall be exempt from disclosure under sec- |
|----|---|
| 2 | tion 552(b)(3) of title 5, United States Code; and |
| 3 | (2) shall not be made available by any Federal |
| 4 | agency, State, political subdivision of a State, or |
| 5 | Tribal authority pursuant to any Federal, State, po- |
| 6 | litical subdivision of a State, or Tribal law, respec- |
| 7 | tively, requiring public disclosure of information or |
| 8 | records. |
| 9 | (f) Appropriations.—In addition to amounts other- |
| 10 | wise made available, there is appropriated to the Secretary |
| 11 | to carry out this section, out of any amounts in the Treas- |
| 12 | ury not otherwise appropriated, \$50,000,000 for each of |
| 13 | fiscal years 2022 through 2026. |
| 14 | SEC. 1105. ENHANCED GRID SECURITY. |
| 15 | (a) Definitions.—In this section: |
| 16 | (1) Electric utility.—The term "electric |
| 17 | utility" has the meaning given the term in section |
| 18 | 3 of the Federal Power Act (16 U.S.C. 796). |
| 19 | (2) E-ISAC.—The term "E-ISAC" means the |
| 20 | Electricity Information Sharing and Analysis Center. |
| 21 | (b) Cybersecurity for the Energy Sector Re- |
| 22 | SEARCH, DEVELOPMENT, AND DEMONSTRATION PRO- |
| 23 | GRAM.— |
| 24 | (1) In general.—The Secretary, in consulta- |
| 25 | tion with the Secretary of Homeland Security and, |

| 1 | as determined appropriate, other Federal agencies, |
|----|--|
| 2 | the energy sector, the States, and other stake- |
| 3 | holders, shall develop and carry out a program— |
| 4 | (A) to develop advanced cybersecurity ap- |
| 5 | plications and technologies for the energy sec- |
| 6 | tor— |
| 7 | (i) to identify and mitigate |
| 8 | vulnerabilities, including— |
| 9 | (I) dependencies on other critical |
| 10 | infrastructure; and |
| 11 | (II) impacts from weather and |
| 12 | fuel supply; and |
| 13 | (ii) to advance the security of field de- |
| 14 | vices and third-party control systems, in- |
| 15 | cluding— |
| 16 | (I) systems for generation, trans- |
| 17 | mission, distribution, end use, and |
| 18 | market functions; |
| 19 | (II) specific electric grid elements |
| 20 | including advanced metering, demand |
| 21 | response, distribution, generation, and |
| 22 | electricity storage; |
| 23 | (III) forensic analysis of infected |
| 24 | systems; and |
| 25 | (IV) secure communications; |

| 1 | (B) to leverage electric grid architecture as |
|----|--|
| 2 | a means to assess risks to the energy sector, in- |
| 3 | cluding by implementing an all-hazards ap- |
| 4 | proach to communications infrastructure, con- |
| 5 | trol systems architecture, and power systems |
| 6 | architecture; |
| 7 | (C) to perform pilot demonstration projects |
| 8 | with the energy sector to gain experience with |
| 9 | new technologies; and |
| 10 | (D) to develop workforce development cur- |
| 11 | ricula for energy sector-related cybersecurity. |
| 12 | (2) Appropriations.—In addition to amounts |
| 13 | otherwise made available, there is appropriated to |
| 14 | the Secretary to carry out this subsection, out of any |
| 15 | amounts in the Treasury not otherwise appropriated, |
| 16 | \$50,000,000 for each of fiscal years 2022 through |
| 17 | 2026. |
| 18 | (c) Energy Sector Operational Support for |
| 19 | Cyberresilience Program.— |
| 20 | (1) IN GENERAL.—The Secretary may develop |
| 21 | and carry out a program— |
| 22 | (A) to enhance and periodically test— |
| 23 | (i) the emergency response capabilities |
| 24 | of the Department; and |

| 1 | (ii) the coordination of the Depart |
|----|--|
| 2 | ment with other agencies, the National |
| 3 | Laboratories, and private industry; |
| 4 | (B) to expand cooperation of the Depart |
| 5 | ment with the intelligence community for en- |
| 6 | ergy sector-related threat collection and anal- |
| 7 | ysis; |
| 8 | (C) to enhance the tools of the Department |
| 9 | and E-ISAC for monitoring the status of the |
| 10 | energy sector; |
| 11 | (D) to expand industry participation in E- |
| 12 | ISAC; and |
| 13 | (E) to provide technical assistance to small |
| 14 | electric utilities for purposes of assessing |
| 15 | cybermaturity levels. |
| 16 | (2) Appropriations.—In addition to amounts |
| 17 | otherwise made available, there is appropriated to |
| 18 | the Secretary to carry out this subsection, out of any |
| 19 | amounts in the Treasury not otherwise appropriated |
| 20 | \$10,000,000 for each of fiscal years 2022 through |
| 21 | 2026. |
| 22 | (d) Modeling and Assessing Energy Infra- |
| 23 | STRUCTURE RISK.— |

| 1 | (1) In general.—The Secretary shall develop |
|----|--|
| 2 | and carry out an advanced energy security program |
| 3 | to secure energy networks, including— |
| 4 | (A) electric networks; |
| 5 | (B) natural gas networks; and |
| 6 | (C) oil exploration, transmission, and deliv- |
| 7 | ery networks. |
| 8 | (2) Security and resiliency objective.— |
| 9 | The objective of the program developed under para- |
| 10 | graph (1) is to increase the functional preservation |
| 11 | of electric grid operations or natural gas and oil op- |
| 12 | erations in the face of natural and human-made |
| 13 | threats and hazards, including electric magnetic |
| 14 | pulse and geomagnetic disturbances. |
| 15 | (3) Eligible activities.—In carrying out the |
| 16 | program developed under paragraph (1), the Sec- |
| 17 | retary may— |
| 18 | (A) develop capabilities to identify |
| 19 | vulnerabilities and critical components that pose |
| 20 | major risks to grid security if destroyed or im- |
| 21 | paired; |
| 22 | (B) develop a maturity model for physical |
| 23 | security and cybersecurity; |
| 24 | (C) conduct exercises and assessments to |
| 25 | identify and mitigate vulnerabilities to the elec- |

| 1 | tric grid, including providing mitigation rec- |
|--|---|
| 2 | ommendations; and |
| 3 | (D) provide technical assistance to States |
| 4 | and other entities for standards and risk anal- |
| 5 | ysis. |
| 6 | (4) Authorization of appropriations.—In |
| 7 | addition to amounts otherwise made available, there |
| 8 | is appropriated to the Secretary to carry out this |
| 9 | subsection, out of any amounts in the Treasury not |
| 10 | otherwise appropriated, \$10,000,000 for each of fis- |
| 11 | cal years 2022 through 2026. |
| 12 | Subtitle C—Broadband |
| | |
| 13 | SEC. 1201. ENABLING MIDDLE MILE BROADBAND INFRA- |
| 13 14 | SEC. 1201. ENABLING MIDDLE MILE BROADBAND INFRA- STRUCTURE. |
| | |
| 14 | STRUCTURE. |
| 14 15 | STRUCTURE. (a) DEFINITIONS.—In this section: |
| 14 15 16 | STRUCTURE. (a) DEFINITIONS.—In this section: (1) ANCHOR INSTITUTION.—The term "anchor |
| 14 15 16 17 | structure. (a) Definitions.—In this section: (1) Anchor institution.—The term "anchor institution" means any of the following: |
| 14 15 16 17 | STRUCTURE. (a) DEFINITIONS.—In this section: (1) ANCHOR INSTITUTION.—The term "anchor institution" means any of the following: (A) A school. |
| 14 15 16 17 18 | STRUCTURE. (a) DEFINITIONS.—In this section: (1) Anchor institution.—The term "anchor institution" means any of the following: (A) A school. (B) A library. |
| 14 15 16 17 18 19 20 | STRUCTURE. (a) DEFINITIONS.—In this section: (1) ANCHOR INSTITUTION.—The term "anchor institution" means any of the following: (A) A school. (B) A library. (C) A healthcare provider. |
| 14 15 16 17 18 19 20 21 | structure. (a) Definitions.—In this section: (1) Anchor institution.—The term "anchor institution" means any of the following: (A) A school. (B) A library. (C) A healthcare provider. (D) A community college. |

| 1 | (2) ELIGIBLE ENTITY.—The term "eligible enti- |
|----|--|
| 2 | ty" means an electric utility (as defined in section |
| 3 | 3 of the Federal Power Act (16 U.S.C. 796)). |
| 4 | (3) Last mile broadband infrastruc- |
| 5 | TURE.—The term "last mile broadband infrastruc- |
| 6 | ture" means broadband infrastructure that connects |
| 7 | directly to an end-user location. |
| 8 | (4) MIDDLE MILE BROADBAND INFRASTRUC- |
| 9 | TURE.— |
| 10 | (A) IN GENERAL.—The term "middle mile |
| 11 | broadband infrastructure" means any |
| 12 | broadband infrastructure that does not connect |
| 13 | directly to an end-user location (other than an |
| 14 | anchor institution). |
| 15 | (B) Inclusions.—The term "middle mile |
| 16 | broadband infrastructure" includes leased dark |
| 17 | fiber, interoffice lit transport, lit backhaul, lit |
| 18 | transport connectivity to data centers or inter- |
| 19 | net exchange points, special access transport, |
| 20 | and other similar services. |
| 21 | (5) Program.—The term "program" means |
| 22 | the program established under subsection (b)(1). |
| 23 | (6) Unserved Area.—The term "unserved |
| 24 | area" means an area that, as determined in accord- |
| 25 | ance with the maps created under section $802(c)(1)$ |

| 1 | of the Communications Act of 1934 (47 U.S.C. |
|----|--|
| 2 | 642(c)(1)), does not have access to broadband serv- |
| 3 | ice with— |
| 4 | (A) a download speed of at least 25 mega- |
| 5 | bits per second; and |
| 6 | (B) an upload speed of at least 3 megabits |
| 7 | per second. |
| 8 | (b) Establishment of Program.— |
| 9 | (1) In general.—Not later than 180 days |
| 10 | after the date of enactment of this Act, the Sec- |
| 11 | retary shall establish a program under which the |
| 12 | Secretary shall provide grants, loans, and loan guar- |
| 13 | antees to eligible entities for the construction, im- |
| 14 | provement, or acquisition of middle mile broadband |
| 15 | infrastructure. |
| 16 | (2) Purpose.—The purpose of the program |
| 17 | shall be to encourage the expansion and extension of |
| 18 | middle mile broadband infrastructure to reduce the |
| 19 | cost to connect unserved areas to the backbone of |
| 20 | the internet and thereby reduce the cost of deploying |
| 21 | last mile broadband infrastructure. |
| 22 | (c) Eligible Projects.—The Secretary may pro- |
| 23 | vide a grant, loan, or loan guarantee under the program |
| 24 | for a middle mile broadband infrastructure project de- |
| 25 | scribed in an application submitted under subsection (d) |

| 1 | only if the Secretary determines that, as of the date on |
|----|--|
| 2 | which the application is submitted, the proposed middle |
| 3 | mile broadband network associated with the middle mile |
| 4 | broadband infrastructure project will be capable of sup- |
| 5 | porting retail broadband service for the residents and busi- |
| 6 | nesses within the proposed service territory. |
| 7 | (d) Applications.—An eligible entity desiring a |
| 8 | grant, loan, or loan guarantee under the program shall |
| 9 | submit to the Secretary an application at such time, in |
| 10 | such manner, and containing such information as the Sec- |
| 11 | retary may require, including— |
| 12 | (1) a plan to ensure the viability of the middle |
| 13 | mile broadband infrastructure project proposed in |
| 14 | the application by— |
| 15 | (A) connecting, assisting with connecting, |
| 16 | or enabling the connection of retail broadband |
| 17 | systems within the proposed service territory to |
| 18 | the middle mile broadband infrastructure |
| 19 | project in an affordable and economically com- |
| 20 | petitive manner; |
| 21 | (B) obtaining contingent agreements from |
| 22 | not fewer than 1 provider of last mile |
| 23 | broadband infrastructure to lease or buy capac- |
| 24 | ity prior to the date on which the grant, loan, |
| 25 | or loan guarantee is provided; and |

| 1 | (C) leasing dark fiber capacity or selling |
|----|---|
| 2 | services on a non-discriminatory basis; and |
| 3 | (2) a demonstration that the middle mile |
| 4 | broadband infrastructure to be constructed, im- |
| 5 | proved, or acquired pursuant to the project will, in |
| 6 | coordination with other projects that serve unserved |
| 7 | areas, reduce the cost to connect unserved areas to |
| 8 | broadband service. |
| 9 | (e) Selection Priority.—In selecting projects for |
| 10 | which to provide grants, loans, or loan guarantees under |
| 11 | the program, the Secretary shall give priority to projects |
| 12 | that leverage existing rights-of-way, assets, and infra- |
| 13 | structure to minimize financial, regulatory, and permitting |
| 14 | challenges. |
| 15 | (f) REQUIREMENT.—An eligible entity selected to re- |
| 16 | ceive a grant, loan, or loan guarantee under the program |
| 17 | shall agree— |
| 18 | (1) to complete build-out of the middle mile |
| 19 | broadband infrastructure project described in the |
| 20 | application by the date that is 5 years after the date |
| 21 | on which proceeds from the applicable grant or loan |
| 22 | are first made available to the eligible entity; and |
| 23 | (2) to comply with all requirements imposed by |
| 24 | the Secretary. |
| 25 | (g) Grants.— |

25

retary.

1 (1) LIMITATION.—A grant provided under the 2 program may not exceed 50 percent of the total cost 3 of the project for which the grant is awarded. 4 (2) Prohibition.—The Secretary may not re-5 quire the recipient of a grant under the program, or 6 any sublessee of the middle mile broadband infra-7 structure constructed, improved, or acquired pursu-8 ant to the grant, to provide to the Federal Govern-9 ment a security interest in the applicable middle 10 mile broadband infrastructure. 11 (h) TERMS, CONDITIONS, AND ADEQUACY OF SECU-RITY FOR LOANS AND LOAN GUARANTEES.— 12 13 (1) IN GENERAL.—All loans and loan guaran-14 tees provided under the program shall be made sub-15 ject to such terms, conditions, and adequacy of secu-16 rity requirements as may be required by the Sec-17 retary. 18 (2) Substitute Security.—If the middle mile 19 broadband infrastructure constructed, improved, or 20 acquired pursuant to a loan or loan guarantee pro-21 vided under the program would not provide adequate 22 security due to long-term leasing arrangements, the 23 Secretary shall require substitute security in such 24 form and substance as are acceptable to the Sec-

- 1 (i) Use of Funds by Regulated Utilities.—The 2 Secretary shall encourage regulated utilities to use funds 3 provided pursuant to a grant, loan, or loan guarantee 4 under the program as a supplement to the core utility capital investment plans of the regulated utility to facilitate increased broadband connectivity to unserved areas in— 6 7 (1) the service territories of the regulated util-8 ity; and 9 (2) nearby communities. 10 (j) APPROPRIATIONS.—In addition to amounts other-11 wise made available, there is appropriated to the Secretary 12 to carry out this section, out of any amounts in the Treas-13 ury not otherwise appropriated, \$100,000,000 for each of fiscal years 2022 through 2026. 14 TITLE II—SUPPLY CHAINS FOR 15 CLEAN ENERGY TECHNOLOGIES 16 SEC. 2001. EARTH MAPPING RESOURCES INITIATIVE. 17 18 (a) Definition of Critical Mineral.—In this 19 section, the term "critical mineral" has the meaning given 20 the term in section 7002(a) of the Energy Act of 2020 21 (30 U.S.C. 1606(a)). 22 (b) Establishment.—There is established within
- 22 (b) ESTABLISHMENT.—There is established within 23 the United States Geological Survey an initiative, to be 24 known as the "Earth Mapping Resources Initiative" (re-25 ferred to in this section as the "Initiative").

| 1 | (c) Purpose.—The purpose of the Initiative shall be |
|----|---|
| 2 | to accelerate efforts to carry out the fundamental re- |
| 3 | sources and mapping mission of the United States Geo- |
| 4 | logical Survey by— |
| 5 | (1) providing integrated topographic, geologic, |
| 6 | geochemical, and geophysical mapping; |
| 7 | (2) accelerating the integration and consolida- |
| 8 | tion of geospatial and resource data; and |
| 9 | (3) providing interpretation of subsurface and |
| 10 | above-ground mineral resources data. |
| 11 | (d) Cooperative Agreements.— |
| 12 | (1) In general.—In carrying out the Initia- |
| 13 | tive, the Director of the United States Geological |
| 14 | Survey may enter into cooperative agreements with |
| 15 | State geological surveys. |
| 16 | (2) Effect.—Nothing in paragraph (1) pre- |
| 17 | cludes the Director of the United States Geological |
| 18 | Survey from using existing contracting authorities in |
| 19 | carrying out the Initiative. |
| 20 | (e) Comprehensive Mapping Modernization.— |
| 21 | (1) In general.—Not later than 10 years |
| 22 | after the date of enactment of this Act, the Initiative |
| 23 | shall complete an initial comprehensive national |
| 24 | modern surface and subsurface mapping and data |
| 25 | integration effort. |

| 1 | (2) Approach.—In carrying out paragraph (1) |
|----|---|
| 2 | with regard to minerals, mineralization, and mineral |
| 3 | deposits, the Initiative shall focus on the full range |
| 4 | of minerals, using a whole ore body approach rather |
| 5 | than a single commodity approach, to emphasize all |
| 6 | of the recoverable critical minerals in a given surface |
| 7 | or subsurface deposit. |
| 8 | (3) Priority.—In carrying out paragraph (1) |
| 9 | with regard to minerals, mineralization, and mineral |
| 10 | deposits, the Initiative shall prioritize mapping and |
| 11 | assessing critical minerals. |
| 12 | (4) Inclusions.—In carrying out paragraph |
| 13 | (1), the Initiative shall— |
| 14 | (A) map and collect data for areas con- |
| 15 | taining mine waste to increase understanding of |
| 16 | above-ground critical mineral resources in pre- |
| 17 | viously disturbed areas; and |
| 18 | (B) provide for analysis of samples, includ- |
| 19 | ing samples within the National Geological and |
| 20 | Geophysical Data Preservation Program estab- |
| 21 | lished under section 351(b) of the Energy Pol- |
| 22 | icy Act of 2005 (42 U.S.C. 15908(b)) for the |
| 23 | occurrence of critical minerals. |
| 24 | (f) AVAILABILITY.—The Initiative shall make the |
| 25 | geospatial data and metadata gathered by the Initiative |

| 1 | under subsection (e)(1) electronically publicly accessible |
|----|---|
| 2 | on an ongoing basis. |
| 3 | (g) Integration of Data Sources.—The Initia- |
| 4 | tive shall integrate data sources, including data from— |
| 5 | (1) the National Cooperative Geologic Mapping |
| 6 | Program established by section 4(a)(1) of the Na- |
| 7 | tional Geologic Mapping Act of 1992 (43 U.S.C. |
| 8 | 31e(a)(1)); |
| 9 | (2) the National Geological and Geophysical |
| 10 | Data Preservation Program established under sec- |
| 11 | tion 351(b) of the Energy Policy Act of 2005 (42 |
| 12 | U.S.C. 15908(b)); |
| 13 | (3) the USMIN Mineral Deposit Database of |
| 14 | the United States Geological Survey; |
| 15 | (4) the 3D Elevation Program established |
| 16 | under section 5(a) of the National Landslide Pre- |
| 17 | paredness Act (43 U.S.C. 3104(a)); and |
| 18 | (5) other relevant sources, including sources |
| 19 | providing geothermal resources data. |
| 20 | (h) APPROPRIATIONS.—In addition to amounts other- |
| 21 | wise made available, there is appropriated to the Secretary |
| 22 | to carry out this section, out of any amounts in the Treas- |
| 23 | ury not otherwise appropriated, \$64,000,000 for each of |
| 24 | fiscal years 2022 through 2026, to remain available until |
| 25 | expended. |

| 1 | SEC. 2002. NATIONAL COOPERATIVE GEOLOGIC MAPPING |
|----|---|
| 2 | PROGRAM. |
| 3 | (a) In General.—Section 4(d) of the National Geo- |
| 4 | logic Mapping Act of 1992 (43 U.S.C. 31c(d)) is amended |
| 5 | by adding at the end the following: |
| 6 | "(4) Abandoned mine land and mine waste |
| 7 | COMPONENT.— |
| 8 | "(A) In General.—The geologic mapping |
| 9 | program shall include an abandoned mine land |
| 10 | and mine waste geologic mapping component, |
| 11 | the objective of which shall be to establish the |
| 12 | geologic framework of abandoned mine land |
| 13 | and other land containing mine waste deter- |
| 14 | mined to be vital to the economic, social, envi- |
| 15 | ronmental, or scientific welfare of the United |
| 16 | States. |
| 17 | "(B) Mapping priorities.—For the com- |
| 18 | ponent described in subparagraph (A), the pri- |
| 19 | ority shall be mapping abandoned mine land |
| 20 | and other land containing mine waste where |
| 21 | multiple critical mineral (as defined in section |
| 22 | 7002(a) of the Energy Act of 2020 (30 U.S.C. |
| 23 | 1606(a))) and metal commodities are antici- |
| 24 | pated to be present, rather than single mineral |
| 25 | resources.". |

| 1 | (b) Authorization of Appropriations.—Section |
|----------|--|
| 2 | 9(a) of the National Geologic Mapping Act of 1992 (43 |
| 3 | U.S.C. 31h(a)) is amended by striking "2023" and insert- |
| 4 | ing "2031". |
| 5 | SEC. 2003. NATIONAL GEOLOGICAL AND GEOPHYSICAL |
| 6 | DATA PRESERVATION PROGRAM. |
| 7 | Section 351(b) of the Energy Policy Act of 2005 (42 |
| 8 | U.S.C. 15908(b)) is amended— |
| 9 | (1) in paragraph (2), by striking "and" after |
| 10 | the semicolon; |
| 11 | (2) in paragraph (3), by striking the period at |
| 12 | the end and inserting "; and; and |
| 13 | (3) by adding at the end the following: |
| 14 | "(4) to provide for preservation of samples to |
| 15 | track geochemical signatures from critical mineral |
| 16 | (as defined in section 7002(a) of the Energy Act of |
| 17 | 2020 (30 U.S.C. 1606(a))) ore bodies for use in |
| 18 | provenance tracking frameworks.". |
| 19 | SEC. 2004. USGS ENERGY AND MINERALS RESEARCH FACIL- |
| 20 | ITY. |
| | 111. |
| 21 | (a) Establishment.—The Director of the United |
| 21 22 | |
| | (a) Establishment.—The Director of the United |

- 1 and tenant build-out of a facility to support energy and
- 2 minerals research and appurtenant associated structures.
- 3 (b) OWNERSHIP.—The United States Geological Sur-
- 4 vey shall retain ownership of the facility and associated
- 5 structures described in subsection (a).
- 6 (c) AGREEMENTS.—The Director may enter into
- 7 agreements with, and to collect and expend funds or in-
- 8 kind contributions from, academic, Federal, State, or
- 9 other tenants over the life of the facility described in sub-
- 10 section (a) for the purposes of—
- 11 (1) facility planning;
- (2) design;
- 13 (3) maintenance;
- 14 (4) operation; or
- 15 (5) facility improvements.
- 16 (d) Leases.—The Director may enter into a lease
- 17 or other agreement with the academic partner with which
- 18 the Director has entered into a cooperative agreement
- 19 under subsection (a), at no cost to the Federal Govern-
- 20 ment, to obtain land on which to construct the facility de-
- 21 scribed in that subsection for a term of not less than 99
- 22 years.
- (e) Reports.—The Director shall submit to Con-
- 24 gress annual reports on—
- 25 (1) the facility described in subsection (a); and

| 1 | (2) the authorities used under this section. |
|----|---|
| 2 | (f) Appropriations.—In addition to amounts other- |
| 3 | wise made available, there is appropriated to the Secretary |
| 4 | of the Interior to carry out this section, out of any |
| 5 | amounts in the Treasury not otherwise appropriated, |
| 6 | \$167,000,000 for fiscal year 2022, to remain available |
| 7 | until expended. |
| 8 | SEC. 2005. RARE EARTH ELEMENTS DEMONSTRATION FA- |
| 9 | CILITY. |
| 10 | Section 7001 of the Energy Act of 2020 (42 U.S.C. |
| 11 | 13344) is amended— |
| 12 | (1) in subsection (b), by inserting "and annu- |
| 13 | ally thereafter while the facility established under |
| 14 | subsection (c) remains in operation," after "enact- |
| 15 | ment of this Act,"; |
| 16 | (2) by redesignating subsection (c) as sub- |
| 17 | section (d); and |
| 18 | (3) by inserting after subsection (b) the fol- |
| 19 | lowing: |
| 20 | "(c) Rare Earth Demonstration Facility.— |
| 21 | "(1) Establishment.—In coordination with |
| 22 | the research program under subsection $(a)(1)(A)$, |
| 23 | the Secretary shall fund, through an agreement with |
| 24 | an academic partner, the design, construction, and |
| 25 | build-out of a facility to demonstrate the feasibility |

| 1 | of a full-scale integrated rare earth element concen- |
|----|--|
| 2 | trator and refinery. |
| 3 | "(2) Facility activities.—The facility estab- |
| 4 | lished under paragraph (1) shall— |
| 5 | "(A) utilize acid mine drainage as a feed- |
| 6 | stock; |
| 7 | "(B) separate mixed rare earth oxides into |
| 8 | pure oxides of each rare earth element; |
| 9 | "(C) refine rare earth oxides into rare |
| 10 | earth metals; and |
| 11 | "(D) provide for separation of rare earth |
| 12 | oxides and refining into rare earth metals at a |
| 13 | single site. |
| 14 | "(3) Appropriations.—In addition to |
| 15 | amounts otherwise made available, there is appro- |
| 16 | priated to the Secretary to carry out this subsection, |
| 17 | out of any amounts in the Treasury not otherwise |
| 18 | appropriated, \$140,000,000 for fiscal year 2022, to |
| 19 | remain available until expended.". |
| 20 | SEC. 2006. CRITICAL MINERALS SUPPLY CHAINS AND RELI- |
| 21 | ABILITY. |
| 22 | (a) Definition of Critical Mineral.—In this |
| 23 | section, the term "critical mineral" has the meaning given |
| 24 | the term in section 7002(a) of the Energy Act of 2020 |
| 25 | (30 U.S.C. 1606(a)). |

| 1 | (b) Sense of Congress.—It is the sense of Con- |
|----|---|
| 2 | gress that— |
| 3 | (1) critical minerals are fundamental to the |
| 4 | economy, competitiveness, and security of the United |
| 5 | States; |
| 6 | (2) many critical minerals are only economic to |
| 7 | recover when combined with the production of a host |
| 8 | mineral; |
| 9 | (3) to the maximum extent practicable, the crit- |
| 10 | ical mineral needs of the United States should be |
| 11 | satisfied by minerals responsibly produced and recy- |
| 12 | cled in the United States; and |
| 13 | (4) the Federal permitting process has been |
| 14 | identified as an impediment to mineral production |
| 15 | and the mineral security of the United States. |
| 16 | (e) Federal Permitting and Review Perform- |
| 17 | ANCE IMPROVEMENTS.—To improve the quality and time- |
| 18 | liness of Federal permitting and review processes with re- |
| 19 | spect to critical mineral production on Federal land, the |
| 20 | Secretary of the Interior, acting through the Director of |
| 21 | the Bureau of Land Management, and the Secretary of |
| 22 | Agriculture, acting through the Chief of the Forest Service |
| 23 | (referred to in this section as the "Secretaries"), to the |
| 24 | maximum extent practicable, shall complete the Federal |
| 25 | permitting and review processes with maximum efficiency |

| 1 | and effectiveness, while supporting vital economic growth, |
|----|--|
| 2 | by— |
| 3 | (1) establishing and adhering to timelines and |
| 4 | schedules for the consideration of, and final deci- |
| 5 | sions regarding, applications, operating plans, leases, |
| 6 | licenses, permits, and other use authorizations for |
| 7 | critical mineral-related activities on Federal land; |
| 8 | (2) establishing clear, quantifiable, and tem- |
| 9 | poral permitting performance goals and tracking |
| 10 | progress against those goals; |
| 11 | (3) engaging in early collaboration among agen- |
| 12 | cies, project sponsors, and affected stakeholders— |
| 13 | (A) to incorporate and address the inter- |
| 14 | ests of those parties; and |
| 15 | (B) to minimize delays; |
| 16 | (4) ensuring transparency and accountability by |
| 17 | using cost-effective information technology to collect |
| 18 | and disseminate information regarding individual |
| 19 | projects and agency performance; |
| 20 | (5) engaging in early and active consultation |
| 21 | with State, local, and Tribal governments— |
| 22 | (A) to avoid conflicts or duplication of ef- |
| 23 | fort; |
| 24 | (B) to resolve concerns; and |

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| 1 | (C) to allow for concurrent, rather than se- |
|----|--|
| 2 | quential, reviews; |
| 3 | (6) providing demonstrable improvements in the |
| 4 | performance of Federal permitting and review proc- |
| 5 | esses, including lower costs and more timely deci- |
| 6 | sions; |
| 7 | (7) expanding and institutionalizing Federal |
| 8 | permitting and review process improvements that |
| 9 | have proven effective; |
| 10 | (8) developing mechanisms to better commu- |
| 11 | nicate priorities and resolve disputes among agencies |
| 12 | at the national, regional, State, and local levels; and |
| 13 | (9) developing other practices, such as |
| 14 | preapplication procedures. |
| 15 | (d) Review and Report.—Not later than 1 year |
| 16 | after the date of enactment of this Act, the Secretaries |
| 17 | shall submit to Congress a report that— |
| 18 | (1) identifies additional measures, including |
| 19 | regulatory and legislative proposals, if appropriate, |
| 20 | that would increase the timeliness of permitting ac- |
| 21 | tivities for the exploration and development of do- |
| 22 | mestic critical minerals; |
| 23 | (2) identifies options, including cost recovery |
| 24 | paid by permit applicants, for ensuring adequate |
| 25 | staffing and training of Federal entities and per- |

| 1 | sonnel responsible for the consideration of applica- |
|----|---|
| 2 | tions, operating plans, leases, licenses, permits, and |
| 3 | other use authorizations for critical mineral-related |
| 4 | activities on Federal land; |
| 5 | (3) quantifies the period of time typically re- |
| 6 | quired to complete each step associated with the de- |
| 7 | velopment and processing of applications, operating |
| 8 | plans, leases, licenses, permits, and other use au- |
| 9 | thorizations for critical mineral-related activities on |
| 10 | Federal land, including by— |
| 11 | (A) calculating the range, the mean, the |
| 12 | median, the variance, and other statistical |
| 13 | measures or representations of the period of |
| 14 | time; and |
| 15 | (B) taking into account other aspects that |
| 16 | affect the period of time that are outside the |
| 17 | control of the Executive branch, such as judicial |
| 18 | review, applicant decisions, or State and local |
| 19 | government involvement; and |
| 20 | (4) describes actions carried out pursuant to |
| 21 | subsection (c). |
| 22 | (e) Performance Metric.—Not later than 90 days |
| 23 | after the date of submission of the report under subsection |
| 24 | (d), and after providing public notice and an opportunity |
| 25 | to comment, the Secretaries, using as a baseline the period |

| 1 | of time quantified under paragraph (3) of that subsection |
|----|---|
| 2 | shall develop and publish a performance metric for evalu- |
| 3 | ating the progress made by the Executive branch to expe- |
| 4 | dite the permitting of activities that will increase explo- |
| 5 | ration for, and development of, domestic critical minerals, |
| 6 | while maintaining environmental standards. |
| 7 | (f) Annual Reports.—Not later than the date on |
| 8 | which the President submits the first budget of the President |
| 9 | dent under section 1105 of title 31, United States Code |
| 10 | after publication of the performance metric required under |
| 11 | subsection (e), and annually thereafter, the Secretaries |
| 12 | shall submit to Congress a report that— |
| 13 | (1) summarizes the implementation of rec- |
| 14 | ommendations, measures, and options identified in |
| 15 | paragraphs (1) and (2) of subsection (d); |
| 16 | (2) using the performance metric developed |
| 17 | under subsection (e), describes progress made by the |
| 18 | Executive branch, as compared to the baseline devel- |
| 19 | oped pursuant to subsection (d)(3), in expediting the |
| 20 | permitting of activities that will increase exploration |
| 21 | for, and development of, domestic critical minerals |
| 22 | and |
| 23 | (3) compares the United States to other coun- |
| 24 | tries in terms of permitting efficiency and any other |

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| 1 | criteria relevant to the globally competitive critical |
|----|---|
| 2 | minerals industry. |
| 3 | (g) Individual Projects.—Each year, using data |
| 4 | contained in the reports submitted under subsection (f), |
| 5 | the Director of the Office of Management and Budget |
| 6 | shall prioritize inclusion of individual critical mineral |
| 7 | projects on the website operated by the Office of Manage- |
| 8 | ment and Budget in accordance with section 1122 of title |
| 9 | 31, United States Code. |
| 10 | SEC. 2007. BATTERY PROCESSING AND MANUFACTURING. |
| 11 | (a) Definitions.—In this section: |
| 12 | (1) Advanced Battery.—The term "advanced |
| 13 | battery" means a high-capacity battery that— |
| 14 | (A) has a robust battery cell and module; |
| 15 | and |
| 16 | (B) is used in energy storage applications, |
| 17 | including electric vehicles and the electric grid. |
| 18 | (2) Advanced battery component.— |
| 19 | (A) IN GENERAL.—The term "advanced |
| 20 | battery component" means a component of an |
| 21 | advanced battery. |
| 22 | (B) Inclusions.—The term "advanced |
| 23 | battery component" includes materials, en- |
| 24 | hancements, enclosures, anodes, cathodes, elec- |
| | |

| 1 | trolytes, cells, and other associated technologies |
|----|---|
| 2 | that comprise an advanced battery. |
| 3 | (3) Battery material.—The term "battery |
| 4 | material" means the raw and processed form of a |
| 5 | mineral, metal, chemical, or other material used in |
| 6 | an advanced battery component. |
| 7 | (4) ELIGIBLE ENTITY.—The term "eligible enti- |
| 8 | ty" means an entity described in any of paragraphs |
| 9 | (1) through (5) of section 989(b) of the Energy Pol- |
| 10 | iey Act of 2005 (42 U.S.C. 16353(b)). |
| 11 | (5) Manufacturing.—The term "manufac- |
| 12 | turing", with respect to an advanced battery and an |
| 13 | advanced battery component, means the industrial |
| 14 | and chemical steps taken to produce that advanced |
| 15 | battery or advanced battery component, respectively. |
| 16 | (6) Processing.—The term "processing", with |
| 17 | respect to battery material, means the refining of |
| 18 | critical materials, including the treating, baking, and |
| 19 | coating processes used to convert raw products into |
| 20 | operable components of an advanced battery. |
| 21 | (7) Recycling.—The term "recycling" means |
| 22 | the recovery of critical materials from batteries to be |
| 23 | reused in similar applications, including the extract- |
| 24 | ing, processing, and recoating of battery materials |
| 25 | and advanced battery components. |

| 1 | (b) BATTERY MATERIAL PROCESSING GRANTS.— |
|----|--|
| 2 | (1) In general.—Not later than 180 days |
| 3 | after the date of enactment of this Act, the Sec- |
| 4 | retary shall establish within the Office of Fossil En- |
| 5 | ergy a program, to be known as the "Battery Mate- |
| 6 | rial Processing Grant Program" (referred to in this |
| 7 | subsection as the "program"), under which the Sec- |
| 8 | retary shall award grants in accordance with this |
| 9 | subsection. |
| 0 | (2) Purposes.—The purposes of the program |
| 1 | are— |
| 2 | (A) to ensure that the United States has |
| 3 | a viable battery materials processing industry to |
| 4 | supply the North American battery supply |
| 5 | chain; |
| 6 | (B) to expand the capabilities of the |
| 7 | United States in advanced battery manufac- |
| 8 | turing; and |
| 9 | (C) to enhance national security by reduc- |
| 20 | ing the reliance of the United States on foreign |
| 21 | competitors for critical materials and tech- |
| 22 | nologies. |
| 23 | (3) Grants.— |
| | |

| 1 | (A) In General.—Under the program, |
|----|--|
| 2 | the Secretary shall award grants to eligible en- |
| 3 | tities— |
| 4 | (i) to carry out a demonstration |
| 5 | project for the processing of battery mate- |
| 6 | rials; |
| 7 | (ii) to construct a new commercial- |
| 8 | scale battery material processing facility; |
| 9 | and |
| 10 | (iii) to retool, retrofit, or expand an |
| 11 | existing battery material processing facility |
| 12 | determined qualified by the Secretary. |
| 13 | (B) Amount limitation.—The amount of |
| 14 | a grant awarded under the program shall be |
| 15 | not less than— |
| 16 | (i) \$50,000,000 for a project de- |
| 17 | scribed in subparagraph (A)(i); |
| 18 | (ii) \$100,000,000 for a project de- |
| 19 | scribed in subparagraph (A)(ii); and |
| 20 | (iii) \$50,000,000 for a project de- |
| 21 | scribed in subparagraph (A)(iii). |
| 22 | (C) Priority; consideration.—In |
| 23 | awarding grants to eligible entities under the |
| 24 | program, the Secretary shall— |

\$3,000,000,000 for the period of fiscal years 2022

through 2026, to remain available until expended.

23

| 1 | (c) Battery Manufacturing and Recycling |
|----|--|
| 2 | Grants.— |
| 3 | (1) In General.—Not later than 180 days |
| 4 | after the date of enactment of this Act, the Sec- |
| 5 | retary shall establish within the Office of Energy Ef- |
| 6 | ficiency and Renewable Energy a battery manufac- |
| 7 | turing and recycling grant program (referred to in |
| 8 | this subsection as the "program"). |
| 9 | (2) Purpose.—The purpose of the program is |
| 10 | to ensure that the United States has a viable domes- |
| 11 | tic manufacturing and recycling capability to sup- |
| 12 | port and sustain a North American battery supply |
| 13 | chain. |
| 14 | (3) Grants.— |
| 15 | (A) In General.—Under the program, |
| 16 | the Secretary shall award grants to eligible en- |
| 17 | tities— |
| 18 | (i) to carry out demonstration projects |
| 19 | for advanced battery component manufac- |
| 20 | turing, advanced battery manufacturing, |
| 21 | and recycling; |
| 22 | (ii) to construct a new commercial- |
| 23 | scale advanced battery component manu- |
| 24 | facturing, advanced battery manufacturing, |
| 25 | or recycling facility; and |

| 1 | (iii) to retool, retrofit, or expand an |
|----|--|
| 2 | existing facility, determined qualified by |
| 3 | the Secretary, for advanced battery compo- |
| 4 | nent manufacturing, advanced battery |
| 5 | manufacturing, or battery recycling. |
| 6 | (B) Amount limitation.—The amount of |
| 7 | a grant awarded under the program shall be |
| 8 | not less than— |
| 9 | (i) \$50,000,000 for a project de- |
| 10 | scribed in subparagraph (A)(i); |
| 11 | (ii) \$100,000,000 for a project de- |
| 12 | scribed in subparagraph (A)(ii); and |
| 13 | (iii) \$50,000,000 for a project de- |
| 14 | scribed in subparagraph (A)(iii). |
| 15 | (C) Priority; consideration.—In |
| 16 | awarding grants to eligible entities under the |
| 17 | program, the Secretary shall— |
| 18 | (i) give priority to an eligible entity |
| 19 | that— |
| 20 | (I) is located and operates in the |
| 21 | United States; and |
| 22 | (II) deploys United States-owned |
| 23 | intellectual property and content; and |
| 24 | (ii) take into consideration whether a |
| 25 | project— |

thereafter, the Secretary shall submit to Congress a report

on the grant programs established under subsections (b)

| 1 | and (c), including, with respect to each grant program, |
|----|---|
| 2 | a description of— |
| 3 | (1) the number of grant applications received; |
| 4 | (2) the number of grants awarded and the |
| 5 | amount of each award; and |
| 6 | (3) the purpose and status of each project car- |
| 7 | ried out using a grant. |
| 8 | (e) Lithium-Ion Battery Recycling Prize Com- |
| 9 | PETITION.— |
| 10 | (1) In general.—The Secretary shall continue |
| 11 | to carry out the Lithium-Ion Battery Recycling |
| 12 | Prize Competition of the Department established |
| 13 | pursuant to section 24 of the Stevenson-Wydler |
| 14 | Technology Innovation Act of 1980 (15 U.S.C. |
| 15 | 3719) (referred to in this subsection as the "com- |
| 16 | petition"). |
| 17 | (2) Additional funding for pilot |
| 18 | PROJECTS.— |
| 19 | (A) Appropriations.—In addition to |
| 20 | amounts otherwise made available, there is ap- |
| 21 | propriated to the Secretary to carry out Phase |
| 22 | III of the competition, out of any amounts in |
| 23 | the Treasury not otherwise appropriated, |
| 24 | \$10,000,000 for fiscal year 2022, to remain |
| 25 | available until expended. |

| 1 | (B) Use of funds.—The Secretary may |
|----|---|
| 2 | use amounts made available under subpara- |
| 3 | graph (A)— |
| 4 | (i) to increase the number of winners |
| 5 | of Phase III of the competition; |
| 6 | (ii) to increase the amount awarded to |
| 7 | each winner of Phase III of the competi- |
| 8 | tion; and |
| 9 | (iii) to carry out any other activity |
| 10 | that is consistent with the goals of Phase |
| 11 | III of the competition, as determined by |
| 12 | the Secretary. |
| 13 | (f) Task Force on Battery Producer Require- |
| 14 | MENTS.— |
| 15 | (1) Definitions.—In this subsection: |
| 16 | (A) Battery.—The term "battery" means |
| 17 | a device that— |
| 18 | (i) consists of 1 or more electro- |
| 19 | chemical cells that are electrically con- |
| 20 | nected; and |
| 21 | (ii) is designed to store and deliver |
| 22 | electric energy. |
| 23 | (B) BATTERY PRODUCER.—The term |
| 24 | "battery producer" means, with respect to a |
| 25 | battery or battery-containing product that is |

| 1 | sold, offered for sale, or distributed for sale in |
|----|--|
| 2 | the United States, including through retail, |
| 3 | wholesale, business-to-business, and online sale, |
| 4 | the following applicable entity: |
| 5 | (i) A person who— |
| 6 | (I) manufactures the battery or |
| 7 | battery-containing product; and |
| 8 | (II) sells or offers for sale the |
| 9 | battery or battery-containing product |
| 10 | under the brand of that person. |
| 11 | (ii) If there is no person described in |
| 12 | clause (i) with respect to the battery or |
| 13 | battery-containing product, the owner or li- |
| 14 | censee of the brand under which the bat- |
| 15 | tery or battery-containing product is sold, |
| 16 | offered for sale, or distributed, regardless |
| 17 | of whether the trademark of the brand is |
| 18 | registered. |
| 19 | (iii) If there is no person described in |
| 20 | clause (i) or (ii) with respect to the battery |
| 21 | or battery-containing product, a person |
| 22 | that imports the battery or battery-con- |
| 23 | taining product into the United States for |
| 24 | sale or distribution. |

| 1 | (C) Battery-containing product.— |
|----|--|
| 2 | The term "battery-containing product" means a |
| 3 | new or unused product that contains or is pack- |
| 4 | aged with a battery. |
| 5 | (2) Task force.—The Secretary shall convene |
| 6 | a task force to develop a battery producer responsi- |
| 7 | bility framework that— |
| 8 | (A) addresses battery recycling goals, cost |
| 9 | structures for mandatory recycling, reporting |
| 10 | requirements, product design, collection models, |
| 11 | and transportation of collected materials; |
| 12 | (B) provides sufficient flexibility to allow |
| 13 | battery producers to determine cost-effective |
| 14 | strategies for compliance with the framework; |
| 15 | and |
| 16 | (C) outlines regulatory pathways for effec- |
| 17 | tive recycling. |
| 18 | (3) Task force members.—Members of the |
| 19 | task force convened under paragraph (2) shall in- |
| 20 | clude— |
| 21 | (A) battery producers, manufacturers, re- |
| 22 | tailers, recyclers, collectors, and refiners; |
| 23 | (B) States and municipalities; and |
| 24 | (C) other relevant stakeholders, as deter- |
| 25 | mined by the Secretary. |

| 1 | (4) Report.—Not later than 1 year after the |
|----|---|
| 2 | date on which the Secretary convenes the task force |
| 3 | under paragraph (2), the Secretary shall submit to |
| 4 | Congress a report that— |
| 5 | (A) describes the producer responsibility |
| 6 | framework developed by the task force; |
| 7 | (B) includes the recommendations of the |
| 8 | task force on how best to implement potential |
| 9 | enforcement mechanism to ensure that battery |
| 10 | producers and sellers are contributing to the re- |
| 11 | cycling of batteries; and |
| 12 | (C) suggests regulatory pathways for effec- |
| 13 | tive recycling. |
| 14 | SEC. 2008. ELECTRIC DRIVE VEHICLE BATTERY RECYCLING |
| 15 | AND SECOND-LIFE APPLICATIONS PROGRAM. |
| 16 | Section 641 of the Energy Independence and Security |
| 17 | Act of 2007 (42 U.S.C. 17231) is amended— |
| 18 | (1) by striking subsection (k) and inserting the |
| 19 | following: |
| 20 | "(k) Electric Drive Vehicle Battery Second- |
| 21 | LIFE APPLICATIONS AND RECYCLING.— |
| 22 | "(1) Definitions.—In this subsection: |
| 23 | "(A) BATTERY RECYCLING AND SECOND- |
| 24 | LIFE APPLICATIONS PROGRAM.—The term 'bat- |
| 25 | tery recycling and second-life applications pro- |

| 1 | gram' means the electric drive vehicle battery |
|----|--|
| 2 | recycling and second-life applications program |
| 3 | established under paragraph (3). |
| 4 | "(B) Critical material.—The term |
| 5 | 'critical material' has the meaning given the |
| 6 | term in section 7002(a) of the Energy Act of |
| 7 | 2020 (30 U.S.C. 1606(a)). |
| 8 | "(C) ECONOMICALLY DISTRESSED AREA.— |
| 9 | The term 'economically distressed area' means |
| 10 | an area described in section 301(a) of the Pub- |
| 11 | lic Works and Economic Development Act of |
| 12 | 1965 (42 U.S.C. 3161(a)). |
| 13 | "(D) ELECTRIC DRIVE VEHICLE BAT- |
| 14 | TERY.—The term 'electric drive vehicle battery' |
| 15 | means any battery that is a motive power |
| 16 | source for an electric drive vehicle. |
| 17 | "(E) Eligible entity.—The term 'eligi- |
| 18 | ble entity' means an entity described in any of |
| 19 | paragraphs (1) through (5) of section 989(b) of |
| 20 | the Energy Policy Act of 2005 (42 U.S.C. |
| 21 | 16353(b)). |
| 22 | "(2) Program.—The Secretary shall carry out |
| 23 | a program of research, development, and demonstra- |
| 24 | tion of— |

| 1 | "(A) second-life applications for energy |
|----|---|
| 2 | storage devices that have been used to power |
| 3 | electric drive vehicles; and |
| 4 | "(B) technologies and processes for final |
| 5 | recycling and disposal of the devices described |
| 6 | in subparagraph (A). |
| 7 | "(3) Electric drive vehicle battery recy- |
| 8 | CLING AND SECOND-LIFE APPLICATIONS.— |
| 9 | "(A) In general.—In carrying out the |
| 10 | program under paragraph (2), the Secretary |
| 11 | shall establish an electric drive vehicle battery |
| 12 | recycling and second-life applications program |
| 13 | under which the Secretary shall— |
| 14 | "(i) award grants under subparagraph |
| 15 | (D); and |
| 16 | "(ii) carry out other activities in ac- |
| 17 | cordance with this paragraph. |
| 18 | "(B) Purposes.—The purposes of the |
| 19 | battery recycling and second-life applications |
| 20 | program are the following: |
| 21 | "(i) To improve the recycling and sec- |
| 22 | ond-use rates of electric drive vehicle bat- |
| 23 | teries. |
| 24 | "(ii) To optimize the design and |
| 25 | adaptability of electric drive vehicle bat- |

| 1 | teries to make electric drive vehicle bat- |
|----|--|
| 2 | teries more easily recyclable. |
| 3 | "(iii) To establish alternative supply |
| 4 | chains for critical materials that are found |
| 5 | in electric drive vehicle batteries. |
| 6 | "(iv) To reduce the cost of manufac- |
| 7 | turing, installation, purchase, operation, |
| 8 | and maintenance of electric drive vehicle |
| 9 | batteries. |
| 10 | "(v) To improve the environmental |
| 11 | impact of electric drive vehicle battery re- |
| 12 | cycling processes. |
| 13 | "(C) Targets.—In carrying out the bat- |
| 14 | tery recycling and second-life applications pro- |
| 15 | gram, the Secretary shall address near-term (up |
| 16 | to 2 years), mid-term (up to 5 years), and long- |
| 17 | term (up to 10 years) challenges to the recy- |
| 18 | cling of electric drive vehicle batteries. |
| 19 | "(D) Grants.— |
| 20 | "(i) In general.—In carrying out |
| 21 | the battery recycling and second-life appli- |
| 22 | cations program, the Secretary shall award |
| 23 | multiyear grants on a competitive, merit- |
| 24 | reviewed basis to eligible entities— |

construction and other tools and

Discussion Draft

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sumers;

sources of the Senate, the Committee on

Science, Space, and Technology of the

House of Representatives, and any other

23

24

tery

recycling and manufacturing

fields and the necessary skills employ-

24

| 1 | cle battery manufacturing and recy- |
|----|--|
| 2 | cling in the United States; and |
| 3 | "(X) needs for future research, |
| 4 | development, and demonstration |
| 5 | projects in electric drive vehicle bat- |
| 6 | tery manufacturing, recycling, and re- |
| 7 | lated areas, as determined by the Sec- |
| 8 | retary. |
| 9 | "(G) EVALUATION.—Not later than 3 |
| 10 | years after the date on which the report under |
| 11 | subparagraph (F)(ii) is submitted, and every 4 |
| 12 | years thereafter, the Secretary shall conduct, |
| 13 | and make available to the public and the rel- |
| 14 | evant committees of Congress, an independent |
| 15 | review of the progress of the grants awarded |
| 16 | under subparagraph (D) in meeting the rec- |
| 17 | ommendations and targets included in the re- |
| 18 | port."; and |
| 19 | (2) in subsection (p)— |
| 20 | (A) in paragraph (2), by striking "and;"; |
| 21 | (B) in paragraph (4), by adding "and" at |
| 22 | the end; |
| 23 | (C) in paragraph (5), by striking "; and" |
| 24 | and inserting a period; |
| 25 | (D) by striking paragraph (6); |

| 1 | (E) by redesignating paragraphs (1) |
|----|--|
| 2 | through (5) as subparagraphs (A) through (E), |
| 3 | respectively, and indenting appropriately; |
| 4 | (F) by striking the subsection designation |
| 5 | and heading and all that follows through |
| 6 | "There are" in the matter preceding subpara- |
| 7 | graph (A) (as so redesignated) and inserting |
| 8 | the following: |
| 9 | "(p) Funding.— |
| 10 | "(1) Authorization of appropriations.— |
| 11 | There are'; and |
| 12 | (G) by adding at the end the following: |
| 13 | "(2) Appropriations.—In addition to |
| 14 | amounts otherwise made available, there is appro- |
| 15 | priated to the Secretary to carry out the electric |
| 16 | drive vehicle battery second-life applications and re- |
| 17 | cycling program under subsection (k), out of any |
| 18 | amounts in the Treasury not otherwise appropriated, |
| 19 | \$40,000,000 for each of fiscal years 2022 through |
| 20 | 2026.". |
| 21 | SEC. 2009. ADVANCED ENERGY MANUFACTURING AND RE- |
| 22 | CYCLING GRANT PROGRAM. |
| 23 | (a) Definitions.—In this section: |
| 24 | (1) ADVANCED ENERGY PROPERTY.—The term |
| 25 | "advanced energy property" means— |

| 1 | (A) property designed to be used to |
|----|--|
| 2 | produce energy from the sun, water, wind, geo- |
| 3 | thermal or hydrothermal (as those terms are |
| 4 | defined in section 612 of the Energy Independent |
| 5 | ence and Security Act of 2007 (42 U.S.C |
| 6 | 17191)) resources, enhanced geothermal sys- |
| 7 | tems (as defined in that section), or other re- |
| 8 | newable resources; |
| 9 | (B) fuel cells, microturbines, or energy |
| 10 | storage systems and components; |
| 11 | (C) electric grid modernization equipment |
| 12 | or components; |
| 13 | (D) property designed to capture, remove |
| 14 | use, or sequester carbon oxide emissions; |
| 15 | (E) equipment designed to refine |
| 16 | electrolyze, or blend any fuel, chemical, or prod- |
| 17 | uct that is— |
| 18 | (i) renewable; or |
| 19 | (ii) low-carbon and low-emission; |
| 20 | (F) property designed to produce energy |
| 21 | conservation technologies (including for residen- |
| 22 | tial, commercial, and industrial applications); |
| 23 | (G)(i) light-, medium-, or heavy-duty elec- |
| 24 | tric or fuel cell vehicles; |

| 1 | (ii) technologies, components, and mate- |
|----|---|
| 2 | rials of those vehicles; and |
| 3 | (iii) charging or refueling infrastructure |
| 4 | associated with those vehicles; |
| 5 | (H)(i) hybrid vehicles with a gross vehicle |
| 6 | weight rating of not less than 14,000 pounds |
| 7 | and |
| 8 | (ii) technologies, components, and mate- |
| 9 | rials for those vehicles; and |
| 10 | (I) other advanced energy property de- |
| 11 | signed to reduce greenhouse gas emissions, as |
| 12 | may be determined by the Secretary. |
| 13 | (2) COVERED CENSUS TRACT.—The term "cov- |
| 14 | ered census tract" means a census tract— |
| 15 | (A) in which, after December 31, 1999, a |
| 16 | coal mine had closed; |
| 17 | (B) in which, after December 31, 2009, a |
| 18 | coal-fired electricity generating unit had been |
| 19 | retired; or |
| 20 | (C) that is immediately adjacent to a cen- |
| 21 | sus tract described in subparagraph (A) or (B) |
| 22 | (3) Eligible entity.—The term "eligible enti- |
| 23 | ty' means a manufacturing firm— |
| 24 | (A) the gross annual sales of which are |
| 25 | less than \$100,000,000; |

| 1 | (B) that has fewer than 500 employees at |
|----|--|
| 2 | the plant site of the manufacturing firm; and |
| 3 | (C) the annual energy bills of which total |
| 4 | more than \$100,000 but less than \$2,500,000 |
| 5 | (4) MINORITY-OWNED.—The term "minority- |
| 6 | owned", with respect to an eligible entity, means an |
| 7 | eligible entity not less than 51 percent of which is |
| 8 | owned by 1 or more Black American, Native Amer- |
| 9 | ican, Hispanic American, or Asian American individ- |
| 10 | uals. |
| 11 | (5) Program.—The term "Program" means |
| 12 | the grant program established under subsection (b) |
| 13 | (6) Qualifying advanced energy |
| 14 | PROJECT.—The term "qualifying advanced energy |
| 15 | project" means a project that— |
| 16 | (A)(i) re-equips, expands, or establishes a |
| 17 | manufacturing or recycling facility for the pro- |
| 18 | duction or recycling, as applicable, of advanced |
| 19 | energy property; or |
| 20 | (ii) re-equips an industrial or manufac- |
| 21 | turing facility with equipment designed to re- |
| 22 | duce the greenhouse gas emissions of that facil- |
| 23 | ity substantially below the greenhouse gas emis- |
| 24 | sions under current best practices, as deter- |
| | |

| 1 | mined by the Secretary, through the installation |
|----|--|
| 2 | of— |
| 3 | (I) low- or zero-carbon process heat |
| 4 | systems; |
| 5 | (II) carbon capture, transport, utiliza- |
| 6 | tion, and storage systems; |
| 7 | (III) technology relating to energy ef- |
| 8 | ficiency and reduction in waste from indus- |
| 9 | trial processes; or |
| 10 | (IV) any other industrial technology |
| 11 | that significantly reduces greenhouse gas |
| 12 | emissions, as determined by the Secretary; |
| 13 | (B) has a reasonable expectation of com- |
| 14 | mercial viability, as determined by the Sec- |
| 15 | retary; and |
| 16 | (C) is located in a covered census tract. |
| 17 | (b) Establishment.—Not later than 180 days after |
| 18 | the date of enactment of this Act, the Secretary shall es- |
| 19 | tablish a program to award grants to eligible entities to |
| 20 | carry out qualifying advanced energy projects. |
| 21 | (c) Applications.— |
| 22 | (1) In general.—Each eligible entity seeking |
| 23 | a grant under the Program shall submit to the Sec- |
| 24 | retary an application at such time, in such manner, |
| 25 | and containing such information as the Secretary |

| 1 | may require, including a description of the proposed |
|----|--|
| 2 | qualifying advanced energy project to be carried out |
| 3 | using the grant. |
| 4 | (2) Selection Criteria.— |
| 5 | (A) Projects.—In selecting eligible enti- |
| 6 | ties to receive grants under the Program, the |
| 7 | Secretary shall, with respect to the qualifying |
| 8 | advanced energy projects proposed by the eligi- |
| 9 | ble entities, give higher priority to projects |
| 10 | that— |
| 11 | (i) will provide higher net impact in |
| 12 | avoiding or reducing anthropogenic emis- |
| 13 | sions of greenhouse gases; |
| 14 | (ii) will result in a higher level of do- |
| 15 | mestic job creation (both direct and indi- |
| 16 | rect) during the lifetime of the project; |
| 17 | (iii) will result in a higher level of job |
| 18 | creation in the vicinity of the project, par- |
| 19 | ticularly with respect to— |
| 20 | (I) low-income communities (as |
| 21 | described in section 45D(e) of the In- |
| 22 | ternal Revenue Code of 1986); and |
| 23 | (II) dislocated workers who were |
| 24 | previously employed in manufacturing, |
| 25 | coal power plants, or coal mining; |

than 3 years after the date of receipt of the

grant funds; and

22

24

| | 100 |
|----|--|
| 1 | (B) to return to the Secretary any grant |
| 2 | funds that remain unobligated at the end of |
| 3 | that 3-year period. |
| 4 | (2) Location.—If the Secretary determines |
| 5 | that an eligible entity awarded a grant under the |
| 6 | Program has carried out the applicable qualifying |
| 7 | advanced energy project at a location that is materi- |
| 8 | ally different from the location specified in the appli- |
| 9 | cation for the grant, the eligible entity shall be re- |
| 10 | quired to return the grant funds to the Secretary. |
| 11 | (e) TECHNICAL ASSISTANCE.— |
| 12 | (1) In general.—Not later than 180 days |
| 13 | after the date of enactment of this Act, the Sec- |
| 14 | retary shall provide technical assistance on a selec- |
| 15 | tive basis to eligible entities that are seeking a grant |
| 16 | under the Program to enhance the impact of the |
| 17 | qualifying advanced energy project to be carried out |
| 18 | using the grant with respect to the selection criteria |
| 19 | described in subsection $(c)(2)(A)$. |
| 20 | (2) APPLICATIONS.—An eligible entity desiring |
| 21 | technical assistance under paragraph (1) shall sub- |
| 22 | mit to the Secretary an application at such time, in |

such manner, and containing such information as

the Secretary may require.

| 1 | (3) Factors for consideration.—In select- |
|----|--|
| 2 | ing eligible entities for technical assistance under |
| 3 | paragraph (1), the Secretary shall give higher pri- |
| 4 | ority to eligible entities that propose a qualifying ad- |
| 5 | vanced energy project that has greater potential for |
| 6 | enhancement of the impact of the project with re- |
| 7 | spect to the selection criteria described in subsection |
| 8 | (e)(2)(A). |
| 9 | (f) Publication of Grants.—The Secretary shall |
| 10 | make publicly available the identity of each eligible entity |
| 11 | awarded a grant under the Program and the amount of |
| 12 | the grant. |
| 13 | (g) Report.—Not later than 4 years after the date |
| 14 | of enactment this Act, the Secretary shall— |
| 15 | (1) review the grants awarded under the Pro- |
| 16 | gram; and |
| 17 | (2) submit to the Committee on Energy and |
| 18 | Natural Resources of the Senate and the Committee |
| 19 | on Energy and Commerce of the House of Rep- |
| 20 | resentatives a report describing those grants. |
| 21 | (h) Appropriations.—In addition to amounts other- |
| 22 | wise made available, there is appropriated to the Secretary |
| 23 | to carry out the Program, out of any amounts in the |
| 24 | Treasury not otherwise appropriated, \$150,000,000 for |
| 25 | each of fiscal years 2022 through 2026. |

| 1 | TITLE III—FUELS AND TECH- |
|----|--|
| 2 | NOLOGY INFRASTRUCTURE |
| 3 | INVESTMENTS |
| 4 | Subtitle A—Carbon Capture, Utili- |
| 5 | zation, Storage, and Transpor- |
| 6 | tation Infrastructure |
| 7 | SEC. 3001. FINDINGS. |
| 8 | Congress finds that— |
| 9 | (1) the industrial sector is integral to the econ- |
| 10 | omy of the United States— |
| 11 | (A) providing millions of jobs and essential |
| 12 | products; and |
| 13 | (B) demonstrating global leadership in |
| 14 | manufacturing and innovation; |
| 15 | (2) carbon capture and storage technologies are |
| 16 | necessary for reducing hard-to-abate emissions from |
| 17 | the industrial sector, which emits nearly 25 percent |
| 18 | of carbon dioxide emissions in the United States; |
| 19 | (3) carbon removal and storage technologies, in- |
| 20 | cluding direct air capture, must be deployed at |
| 21 | large-scale in the coming decades to remove carbon |
| 22 | dioxide directly from the atmosphere; |
| 23 | (4) large-scale deployment of carbon capture |
| 24 | removal, utilization, transport, and storage— |

| 1 | (A) is critical for achieving mid-century cli- |
|----|--|
| 2 | mate goals; and |
| 3 | (B) will drive regional economic develop- |
| 4 | ment, technological innovation, and high-wage |
| 5 | employment; |
| 6 | (5) carbon capture, removal, and utilization |
| 7 | technologies require a backbone system of shared |
| 8 | carbon dioxide transport and storage infrastructure |
| 9 | to enable large-scale deployment, realize economies |
| 10 | of scale, and create an interconnected carbon man- |
| 11 | agement market; |
| 12 | (6) carbon dioxide transport infrastructure and |
| 13 | permanent geological storage are proven and safe |
| 14 | technologies with existing Federal and State regu- |
| 15 | latory frameworks; |
| 16 | (7) carbon dioxide transport and storage infra- |
| 17 | structure share similar barriers to deployment pre- |
| 18 | viously faced by other types of critical national infra- |
| 19 | structure, such as high capital costs and chicken- |
| 20 | and-egg challenges, that require Federal and State |
| 21 | support, in combination with private investment, to |
| 22 | be overcome; and |
| 23 | (8) each State should take into consideration, |
| 24 | with respect to new carbon dioxide transportation in- |
| 25 | frastructure— |

| 1 | (A) qualifying the infrastructure as pollu- |
|----|--|
| 2 | tion control devices under applicable laws (in- |
| 3 | cluding regulations) of the State; and |
| 4 | (B) establishing a waiver of ad valorem |
| 5 | and property taxes for the infrastructure for a |
| 6 | period of not less than 10 years. |
| 7 | SEC. 3002. CARBON UTILIZATION PROGRAM. |
| 8 | Section 969A of the Energy Policy Act of 2005 (42 |
| 9 | U.S.C. 16298a) is amended— |
| 10 | (1) in subsection (a)— |
| 11 | (A) by redesignating paragraphs (3) and |
| 12 | (4) as paragraphs (4) and (5), respectively; and |
| 13 | (B) by inserting after paragraph (2) the |
| 14 | following: |
| 15 | "(3) to develop or obtain, in coordination with |
| 16 | other applicable Federal agencies and standard-set- |
| 17 | ting organizations, standards and certifications, as |
| 18 | appropriate, to facilitate the commercialization of |
| 19 | the products and technologies described in para- |
| 20 | graph (2);"; |
| 21 | (2) in subsection (b)— |
| 22 | (A) by redesignating paragraph (2) as |
| 23 | paragraph (3); |
| 24 | (B) by inserting after paragraph (1) the |
| 25 | following: |

| 1 | "(2) Grant Program.— |
|----|---|
| 2 | "(A) IN GENERAL.—Not later than 1 year |
| 3 | after the date of enactment of the Energy In- |
| 4 | frastructure Act, the Secretary shall establish a |
| 5 | program to provide grants to eligible entities to |
| 6 | use in accordance with subparagraph (D). |
| 7 | "(B) Eligible entities.—To be eligible |
| 8 | to receive a grant under this paragraph, an en- |
| 9 | tity shall be— |
| 10 | "(i) a State; |
| 11 | "(ii) a unit of local government; or |
| 12 | "(iii) a public utility or agency. |
| 13 | "(C) APPLICATIONS.—Eligible entities de- |
| 14 | siring a grant under this paragraph shall sub- |
| 15 | mit to the Secretary an application at such |
| 16 | time, in such manner, and containing such in- |
| 17 | formation as the Secretary determines to be ap- |
| 18 | propriate. |
| 19 | "(D) USE OF FUNDS.—An eligible entity |
| 20 | shall use a grant received under this paragraph |
| 21 | to procure and use commercial or industrial |
| 22 | products that— |
| 23 | "(i) use or are derived from anthropo- |
| 24 | genic carbon oxides; and |

| 1 | "(ii) demonstrate significant net re- |
|----|---|
| 2 | ductions in lifecycle greenhouse gas emis- |
| 3 | sions compared to incumbent technologies, |
| 4 | processes, and products."; and |
| 5 | (C) in paragraph (3) (as so redesignated), |
| 6 | by striking "paragraph (1)" and inserting "this |
| 7 | subsection"; |
| 8 | (3) in subsection $(c)(4)$, by striking ", subject |
| 9 | to the availability of appropriations"; and |
| 10 | (4) by striking subsection (d) and inserting the |
| 11 | following: |
| 12 | "(d) Appropriations.—In addition to amounts oth- |
| 13 | erwise made available, there are appropriated to the Sec- |
| 14 | retary to carry out this section, out of any amounts in |
| 15 | the Treasury not otherwise appropriated— |
| 16 | "(1) \$41,000,000 for fiscal year 2022; |
| 17 | "(2) \$65,250,000 for fiscal year 2023; |
| 18 | "(3) \$66,562,500 for fiscal year 2024; |
| 19 | "(4) $$67,940,625$ for fiscal year 2025; and |
| 20 | "(5) $$69,387,656$ for fiscal year 2026.". |
| 21 | SEC. 3003. CARBON CAPTURE TECHNOLOGY PROGRAM. |
| 22 | Section 962(b)(2) of the Energy Policy Act of 2005 |
| 23 | (42 U.S.C. 16292(b)(2)) is amended— |
| 24 | (1) in subparagraph (C), by striking "and" at |
| 25 | the end; |

| 1 | (2) in subparagraph (D), by striking "pro- |
|----|--|
| 2 | gram." and inserting "program for carbon capture |
| 3 | technologies; and"; and |
| 4 | (3) by adding at the end the following: |
| 5 | "(E) a front-end engineering and design |
| 6 | program for carbon dioxide transport infra- |
| 7 | structure necessary to enable deployment of |
| 8 | carbon capture, utilization, and storage tech- |
| 9 | nologies.". |
| 10 | SEC. 3004. CARBON DIOXIDE TRANSPORTATION INFRA- |
| 11 | STRUCTURE FINANCE AND INNOVATION. |
| 12 | (a) In General.—Title IX of the Energy Policy Act |
| 13 | of 2005 (42 U.S.C. 16181 et seq.) is amended by adding |
| 14 | at the end the following: |
| 15 | "Subtitle J—Carbon Dioxide Trans- |
| 16 | portation Infrastructure Fi- |
| 17 | nance and Innovation |
| 18 | "SEC. 999A. DEFINITIONS. |
| 19 | "In this subtitle: |
| 20 | "(1) CIFIA PROGRAM.—The term 'CIFIA pro- |
| 21 | gram' means the carbon dioxide transportation in- |
| 22 | frastructure finance and innovation program estab- |
| 23 | lished under section 999B(a). |

| 1 | "(2) COMMON CARRIER.—The term 'common |
|----|---|
| 2 | carrier' means a transportation infrastructure oper- |
| 3 | ator or owner that— |
| 4 | "(A) publishes a publicly available tariff |
| 5 | containing the just and reasonable rates, terms, |
| 6 | and conditions of nondiscriminatory service; |
| 7 | and |
| 8 | "(B) holds itself out to provide transpor- |
| 9 | tation services to the public for a fee. |
| 10 | "(3) Contingent commitment.—The term |
| 11 | 'contingent commitment' means a commitment to |
| 12 | obligate funds from future available budget author- |
| 13 | ity that is— |
| 14 | "(A) contingent on those funds being made |
| 15 | available in law at a future date; and |
| 16 | "(B) not an obligation of the Federal Gov- |
| 17 | ernment. |
| 18 | "(4) Eligible project costs.—The term 'eli- |
| 19 | gible project costs' means amounts substantially all |
| 20 | of which are paid by, or for the account of, an obli- |
| 21 | gor in connection with a project, including— |
| 22 | "(A) the cost of— |
| 23 | "(i) development-phase activities, in- |
| 24 | cluding planning, feasibility analysis, rev- |
| 25 | enue forecasting, environmental review, |

| 1 | permitting, preliminary engineering and |
|----|--|
| 2 | design work, and other preconstruction ac- |
| 3 | tivities; |
| 4 | "(ii) construction, reconstruction, re- |
| 5 | habilitation, replacement, and acquisition |
| 6 | of real property (including land relating to |
| 7 | the project and improvements to land), en- |
| 8 | vironmental mitigation, construction con- |
| 9 | tingencies, and acquisition and installation |
| 10 | of equipment (including labor); and |
| 11 | "(iii) capitalized interest necessary to |
| 12 | meet market requirements, reasonably re- |
| 13 | quired reserve funds, capital issuance ex- |
| 14 | penses, and other carrying costs during |
| 15 | construction; and |
| 16 | "(B) transaction costs associated with fi- |
| 17 | nancing the project, including— |
| 18 | "(i) the cost of legal counsel and tech- |
| 19 | nical consultants; and |
| 20 | "(ii) any subsidy amount paid in ac- |
| 21 | cordance with section 999B(c)(3)(B)(ii) or |
| 22 | section 999C(b)(6)(B)(ii). |
| 23 | "(5) Federal Credit Instrument.—The |
| 24 | term 'Federal credit instrument' means a secured |

| 1 | loan or loan guarantee authorized to be provided |
|----|---|
| 2 | under the CIFIA program with respect to a project. |
| 3 | "(6) Lender.—The term 'lender' means a |
| 4 | qualified institutional buyer (as defined in section |
| 5 | 230.144A(a) of title 17, Code of Federal Regula- |
| 6 | tions (or a successor regulation), commonly known |
| 7 | as Rule 144A(a) of the Securities and Exchange |
| 8 | Commission and issued under the Securities Act of |
| 9 | 1933 (15 U.S.C. 77a et seq.)), that is not a Federal |
| 10 | qualified institutional buyer. |
| 11 | "(7) Letter of interest.—The term 'letter |
| 12 | of interest' means a letter submitted by a potential |
| 13 | applicant prior to an application for credit assistance |
| 14 | in a format prescribed by the Secretary on the |
| 15 | website of the CIFIA program that— |
| 16 | "(A) describes the project and the location, |
| 17 | purpose, and cost of the project; |
| 18 | "(B) outlines the proposed financial plan, |
| 19 | including the requested credit and grant assist- |
| 20 | ance and the proposed obligor; |
| 21 | "(C) provides a status of environmental re- |
| 22 | view; and |
| 23 | "(D) provides information regarding satis- |
| 24 | faction of other eligibility requirements of the |
| 25 | CIFIA program. |

| 1 | "(8) LOAN GUARANTEE.—The term 'loan guar- |
|----|---|
| 2 | antee' means any guarantee or other pledge by the |
| 3 | Secretary to pay all or part of the principal of, and |
| 4 | interest on, a loan made to an obligor, or debt obli- |
| 5 | gation issued by an obligor, in each case funded by |
| 6 | a lender. |
| 7 | "(9) Master Credit Agreement.—The term |
| 8 | 'master credit agreement' means a conditional agree- |
| 9 | ment that— |
| 10 | "(A) is for the purpose of extending credit |
| 11 | assistance for— |
| 12 | "(i) a project of high priority under |
| 13 | section $999B(c)(3)(A)$; or |
| 14 | "(ii) a project covered under section |
| 15 | 999B(e)(3)(B); |
| 16 | "(B) does not provide for a current obliga- |
| 17 | tion of Federal funds; and |
| 18 | "(C) would— |
| 19 | "(i) make a contingent commitment of |
| 20 | a Federal credit instrument or grant at a |
| 21 | future date, subject to— |
| 22 | "(I) the availability of future |
| 23 | funds being made available to carry |
| 24 | out the CIFIA program; and |

| 1 | entry into the agreement or release of the |
|----|--|
| 2 | commitment, as applicable, unless other- |
| 3 | wise extended by the Secretary. |
| 4 | "(10) Obligor.—The term 'obligor' means a |
| 5 | corporation, partnership, joint venture, trust, non- |
| 6 | Federal governmental entity, agency, or instrumen- |
| 7 | tality, or other entity that is liable for payment of |
| 8 | the principal of, or interest on, a Federal credit in- |
| 9 | strument. |
| 10 | "(11) Produced in the united states.— |
| 11 | The term 'produced in the United States', with re- |
| 12 | spect to iron and steel, means that all manufac- |
| 13 | turing processes for the iron and steel, including the |
| 14 | application of any coating, occurs within the United |
| 15 | States. |
| 16 | "(12) Project.—The term 'project' means a |
| 17 | project for common carrier carbon dioxide transpor- |
| 18 | tation infrastructure or associated equipment, in- |
| 19 | cluding pipeline, shipping, rail, or other transpor- |
| 20 | tation infrastructure and associated equipment, that |
| 21 | will transport or handle carbon dioxide captured |
| 22 | from anthropogenic sources or ambient air, as the |
| 23 | Secretary determines to be appropriate. |
| 24 | "(13) Project obligation.—The term |
| 25 | 'project obligation' means any note, bond, debenture, |

| 1 | or other debt obligation issued by an obligor in con- |
|----|---|
| 2 | nection with the financing of a project, other than |
| 3 | a Federal credit instrument. |
| 4 | "(14) Secured Loan.—The term 'secured |
| 5 | loan' means a direct loan to an obligor or a debt ob- |
| 6 | ligation issued by an obligor and purchased by the |
| 7 | Secretary, in each case funded by the Secretary in |
| 8 | connection with the financing of a project under sec- |
| 9 | tion 999C. |
| 10 | "(15) Subsidy amount.—The term 'subsidy |
| 11 | amount' means the amount of budget authority suf- |
| 12 | ficient to cover the estimated long-term cost to the |
| 13 | Federal Government of a Federal credit instru- |
| 14 | ment— |
| 15 | "(A) calculated on a net present value |
| 16 | basis; and |
| 17 | "(B) excluding administrative costs and |
| 18 | any incidental effects on governmental receipts |
| 19 | or outlays in accordance with the Federal Cred- |
| 20 | it Reform Act of 1990 (2 U.S.C. 661 et seq.). |
| 21 | "(16) Substantial completion.—The term |
| 22 | 'substantial completion', with respect to a project, |
| 23 | means the date— |
| 24 | "(A) on which the project commences |
| 25 | transportation of carbon dioxide; or |

| 1 | "(B) of a comparable event to the event |
|----|--|
| 2 | described in subparagraph (A), as determined |
| 3 | by the Secretary and specified in the project |
| 4 | credit agreement. |
| 5 | "SEC. 999B. DETERMINATION OF ELIGIBILITY AND |
| 6 | PROJECT SELECTION. |
| 7 | "(a) Establishment of Program.—The Secretary |
| 8 | shall establish and carry out a carbon dioxide transpor- |
| 9 | tation infrastructure finance and innovation program, |
| 10 | under which the Secretary shall provide for eligible |
| 11 | projects in accordance with this subtitle— |
| 12 | "(1) a Federal credit instrument under section |
| 13 | 999C; |
| 14 | "(2) a grant under section 999D; or |
| 15 | "(3) both a Federal credit instrument and a |
| 16 | grant. |
| 17 | "(b) Eligibility.— |
| 18 | "(1) In general.—A project shall be eligible |
| 19 | to receive a Federal credit instrument or a grant |
| 20 | under the CIFIA program if— |
| 21 | "(A) the entity proposing to carry out the |
| 22 | project submits a letter of interest prior to sub- |
| 23 | mission of an application under paragraph (3) |
| 24 | for the project; and |
| | |

| 1 | "(B) the project meets the criteria de- |
|----|--|
| 2 | scribed in this subsection. |
| 3 | "(2) Creditworthiness.— |
| 4 | "(A) IN GENERAL.—Each project and obli- |
| 5 | gor that receives a Federal credit instrument or |
| 6 | a grant under the CIFIA program shall be |
| 7 | creditworthy, such that there exists a reason- |
| 8 | able prospect of repayment of the principal and |
| 9 | interest on the Federal credit instrument, as |
| 10 | determined by the Secretary under subpara- |
| 11 | graph (B). |
| 12 | "(B) Reasonable prospect of repay- |
| 13 | MENT.—The Secretary shall base a determina- |
| 14 | tion of whether there is a reasonable prospect |
| 15 | of repayment under subparagraph (A) on a |
| 16 | comprehensive evaluation of whether the obligor |
| 17 | has a reasonable prospect of repaying the Fed- |
| 18 | eral credit instrument for the eligible project, |
| 19 | including evaluation of— |
| 20 | "(i) the strength of the contractual |
| 21 | terms of an eligible project (if available for |
| 22 | the applicable market segment); |
| 23 | "(ii) the forecast of noncontractual |
| 24 | cash flows supported by market projections |
| 25 | from reputable sources, as determined by |

| 1 | the Secretary, and cash sweeps or other |
|----|---|
| 2 | structural enhancements; |
| 3 | "(iii) the projected financial strength |
| 4 | of the obligor— |
| 5 | "(I) at the time of loan close |
| 6 | and |
| 7 | "(II) throughout the loan term |
| 8 | including after the project is com- |
| 9 | pleted; |
| 10 | "(iv) the financial strength of the in- |
| 11 | vestors and strategic partners of the obli- |
| 12 | gor, if applicable; and |
| 13 | "(v) other financial metrics and anal- |
| 14 | yses that are relied on by the private lend- |
| 15 | ing community and nationally recognized |
| 16 | credit rating agencies, as determined ap- |
| 17 | propriate by the Secretary. |
| 18 | "(3) Applications.—To be eligible for assist |
| 19 | ance under the CIFIA program, an obligor shal |
| 20 | submit to the Secretary a project application at such |
| 21 | time, in such manner, and containing such informa- |
| 22 | tion as the Secretary determines to be appropriate |
| 23 | "(4) Eligible project costs.—A project |
| 24 | under the CIFIA program shall have eligible project |

| 1 | costs that are reasonably anticipated to equal or ex- |
|----|--|
| 2 | ceed \$100,000,000. |
| 3 | "(5) REVENUE SOURCES.—The applicable Fed- |
| 4 | eral credit instrument shall be repayable, in whole or |
| 5 | in part, from— |
| 6 | "(A) user fees; |
| 7 | "(B) payments owing to the obligor under |
| 8 | a public-private partnership; or |
| 9 | "(C) other revenue sources that also secure |
| 10 | or fund the project obligations. |
| 11 | "(6) Obligor will be identified later.— |
| 12 | A State, local government, agency, or instrumen- |
| 13 | tality of a State or local government, or a public au- |
| 14 | thority, may submit to the Secretary an application |
| 15 | under paragraph (3), under which a private party to |
| 16 | a public-private partnership will be— |
| 17 | "(A) the obligor; and |
| 18 | "(B) identified at a later date through |
| 19 | completion of a procurement and selection of |
| 20 | the private party. |
| 21 | "(7) Beneficial effects.—The Secretary |
| 22 | shall determine that financial assistance for each |
| 23 | project under the CIFIA program will— |
| 24 | "(A) attract public or private investment |
| 25 | for the project; or |

| 1 | "(B) enable the project to proceed at an |
|----|--|
| 2 | earlier date than the project would otherwise be |
| 3 | able to proceed or reduce the lifecycle costs (in |
| 4 | cluding debt service costs) of the project. |
| 5 | "(8) Project readiness.—To be eligible for |
| 6 | assistance under the CIFIA program, the applican- |
| 7 | shall demonstrate a reasonable expectation that the |
| 8 | contracting process for construction of the project |
| 9 | can commence by not later than 90 days after the |
| 10 | date on which a Federal credit instrument or gran |
| 11 | is obligated for the project under the CIFIA pro |
| 12 | gram. |
| 13 | "(c) Selection Among Eligible Projects.— |
| 14 | "(1) Establishment of application proc |
| 15 | ESS.—The Secretary shall establish an application |
| 16 | process under which projects that are eligible to re |
| 17 | ceive assistance under subsection (b) may— |
| 18 | "(A) receive credit assistance on terms ac |
| 19 | ceptable to the Secretary, if adequate funds are |
| 20 | available (including any funds provided on be |
| 21 | half of an eligible project under paragraph |
| 22 | (3)(B)(ii)) to cover the subsidy amount associ |
| 23 | ated with the Federal credit instrument; and |
| 24 | "(B) receive grants under section 999D |
| 25 | if— |

| 1 | "(i) adequate funds are available to | | | | | | |
|----|---|--|--|--|--|--|--|
| 2 | cover the amount of the grant; and | | | | | | |
| 3 | "(ii) the Secretary determines that | | | | | | |
| 4 | the project is eligible under subsection (b). | | | | | | |
| 5 | "(2) Priority.—In selecting projects to receive | | | | | | |
| 6 | credit assistance under subsection (b), the Secretary | | | | | | |
| 7 | shall give priority to projects that— | | | | | | |
| 8 | "(A) are large-capacity, common carrier | | | | | | |
| 9 | infrastructure; | | | | | | |
| 10 | "(B) have demonstrated demand for use of | | | | | | |
| 11 | the infrastructure by associated projects that | | | | | | |
| 12 | capture carbon dioxide from anthropogenic | | | | | | |
| 13 | sources or ambient air; | | | | | | |
| 14 | "(C) enable geographical diversity in asso- | | | | | | |
| 15 | ciated projects that capture carbon dioxide from | | | | | | |
| 16 | anthropogenic sources or ambient air, with the | | | | | | |
| 17 | goal of enabling projects in all major carbon di- | | | | | | |
| 18 | oxide-emitting regions of the United States; and | | | | | | |
| 19 | "(D) are sited within, or adjacent to, exist- | | | | | | |
| 20 | ing pipeline or other linear infrastructure cor- | | | | | | |
| 21 | ridors, in a manner that minimizes environ- | | | | | | |
| 22 | mental disturbance and other siting concerns. | | | | | | |
| 23 | "(3) Master credit agreements.— | | | | | | |
| | | | | | | | |

| 1 | "(A) Priority projects.—The Secretary |
|----|---|
| 2 | may enter into a master credit agreement for a |
| 3 | project that the Secretary determines— |
| 4 | "(i) will likely be eligible for credit as- |
| 5 | sistance under subsection (b), on obtain- |
| 6 | ing— |
| 7 | "(I) additional commitments |
| 8 | from associated carbon capture |
| 9 | projects to use the project; or |
| 10 | "(II) all necessary permits and |
| 11 | approvals; and |
| 12 | "(ii) is a project of high priority, as |
| 13 | determined in accordance with the criteria |
| 14 | described in paragraph (2). |
| 15 | "(B) ADEQUATE FUNDING NOT AVAIL- |
| 16 | ABLE.—If the Secretary fully obligates funding |
| 17 | to eligible projects for a fiscal year and ade- |
| 18 | quate funding is not available to fund a Federal |
| 19 | credit instrument, a project sponsor (including |
| 20 | a unit of State or local government) of an eligi- |
| 21 | ble project may elect— |
| 22 | "(i)(I) to enter into a master credit |
| 23 | agreement in lieu of the Federal credit in- |
| 24 | strument; and |

| 1 | "(II) to wait to execute a Federal |
|----|---|
| 2 | credit instrument until the fiscal year for |
| 3 | which additional funds are available to re- |
| 4 | ceive credit assistance; or |
| 5 | "(ii) if the lack of adequate funding is |
| 6 | solely with respect to amounts available for |
| 7 | the subsidy amount, to pay the subsidy |
| 8 | amount to fund the Federal credit instru- |
| 9 | ment. |
| 10 | "(d) Federal Requirements.— |
| 11 | "(1) In general.—Nothing in this subtitle su- |
| 12 | persedes the applicability of any other requirement |
| 13 | under Federal law (including regulations). |
| 14 | "(2) NEPA.—Federal credit assistance may |
| 15 | only be provided under this subtitle for a project |
| 16 | that has received an environmental categorical exclu- |
| 17 | sion, a finding of no significant impact, or a record |
| 18 | of decision under the National Environmental Policy |
| 19 | Act of 1969 (42 U.S.C. 4321 et seq.). |
| 20 | "(e) Use of American Iron, Steel, and Manu- |
| 21 | FACTURED GOODS.— |
| 22 | "(1) In general.—Except as provided in para- |
| 23 | graph (2), no Federal credit instrument or grant |
| 24 | provided under the CIFIA program shall be made |
| 25 | available for a project unless all iron, steel, and |

| 1 | manufactured goods used in the project are pro- |
|----|---|
| 2 | duced in the United States. |
| 3 | "(2) Exceptions.—Paragraph (1) shall not |
| 4 | apply in any case or category of cases with respect |
| 5 | to which the Secretary determines that— |
| 6 | "(A) the application would be inconsistent |
| 7 | with the public interest; |
| 8 | "(B) iron, steel, or a relevant manufac- |
| 9 | tured good is not produced in the United States |
| 10 | in sufficient and reasonably available quantity, |
| 11 | or of a satisfactory quality; or |
| 12 | "(C) the inclusion of iron, steel, or a man- |
| 13 | ufactured good produced in the United States |
| 14 | will increase the cost of the overall project by |
| 15 | more than 25 percent. |
| 16 | "(3) Waivers.—If the Secretary receives a re- |
| 17 | quest for a waiver under this subsection, the Sec- |
| 18 | retary shall— |
| 19 | "(A) make available to the public a copy of |
| 20 | the request, together with any information |
| 21 | available to the Secretary concerning the re- |
| 22 | quest— |
| 23 | "(i) on an informal basis; and |

| 1 | "(ii) by electronic means, including on |
|----|--|
| 2 | the official public website of the Depart- |
| 3 | ment; |
| 4 | "(B) allow for informal public comment re- |
| 5 | lating to the request for not fewer than 15 days |
| 6 | before making a determination with respect to |
| 7 | the request; and |
| 8 | "(C) approve or disapprove the request by |
| 9 | not later than the date that is 120 days after |
| 10 | the date of receipt of the request. |
| 11 | "(4) Applicability.—This subsection shall be |
| 12 | applied in accordance with any applicable obligations |
| 13 | of the United States under international agreements. |
| 14 | "(f) Application Processing Procedures.— |
| 15 | "(1) Notice of complete application.— |
| 16 | Not later than 30 days after the date of receipt of |
| 17 | an application under this section, the Secretary shall |
| 18 | provide to the applicant a written notice describing |
| 19 | whether— |
| 20 | "(A) the application is complete; or |
| 21 | "(B) additional information or materials |
| 22 | are needed to complete the application. |
| 23 | "(2) Approval or denial of application.— |
| 24 | Not later than 60 days after the date of issuance of |
| 25 | a written notice under paragraph (1), the Secretary |

| 1 | shall provide to the applicant a written notice in- | | | | | | |
|----|---|--|--|--|--|--|--|
| 2 | forming the applicant whether the Secretary has ap- | | | | | | |
| 3 | proved or disapproved the application. | | | | | | |
| 4 | "(g) Development-phase Activities.—Any Fed- | | | | | | |
| 5 | eral credit instrument provided under the CIFIA program | | | | | | |
| 6 | may be used to finance up to 100 percent of the cost of | | | | | | |
| 7 | development-phase activities, as described in section | | | | | | |
| 8 | 999A(4)(A). | | | | | | |
| 9 | "SEC. 999C. SECURED LOANS. | | | | | | |
| 10 | "(a) AGREEMENTS.— | | | | | | |
| 11 | "(1) In General.—Subject to paragraph (2), | | | | | | |
| 12 | the Secretary may enter into agreements with 1 or | | | | | | |
| 13 | more obligors to make secured loans, the proceeds of | | | | | | |
| 14 | which— | | | | | | |
| 15 | "(A) shall be used— | | | | | | |
| 16 | "(i) to finance eligible project costs of | | | | | | |
| 17 | any project selected under section 999B; | | | | | | |
| 18 | "(ii) to refinance interim construction | | | | | | |
| 19 | financing of eligible project costs of any | | | | | | |
| 20 | project selected under section 999B; or | | | | | | |
| 21 | "(iii) to refinance long-term project | | | | | | |
| 22 | obligations or Federal credit instruments, | | | | | | |
| 23 | if the refinancing provides additional fund- | | | | | | |
| 24 | ing capacity for the completion, enhance- | | | | | | |
| 25 | ment, or expansion of any project that— | | | | | | |

| 1 | "(I) is selected under section | | | | | |
|----|---|--|--|--|--|--|
| 2 | 999B; or | | | | | |
| 3 | "(II) otherwise meets the re- | | | | | |
| 4 | quirements of that section; and | | | | | |
| 5 | "(B) may be used in accordance with sub- | | | | | |
| 6 | section (b)(7) to pay any fees collected by the | | | | | |
| 7 | Secretary under subparagraph (B) of that sub- | | | | | |
| 8 | section. | | | | | |
| 9 | "(2) RISK ASSESSMENT.—Before entering into | | | | | |
| 10 | an agreement under this subsection, the Secretary, | | | | | |
| 11 | in consultation with the Director of the Office of | | | | | |
| 12 | Management and Budget, shall determine an appro- | | | | | |
| 13 | priate credit subsidy amount for each secured loan, | | | | | |
| 14 | taking into account all relevant factors, including the | | | | | |
| 15 | creditworthiness factors under section $999B(b)(2)$. | | | | | |
| 16 | "(b) Terms and Limitations.— | | | | | |
| 17 | "(1) In general.—A secured loan under this | | | | | |
| 18 | section with respect to a project shall be on such | | | | | |
| 19 | terms and conditions and contain such covenants, | | | | | |
| 20 | representations, warranties, and requirements (in- | | | | | |
| 21 | cluding requirements for audits) as the Secretary de- | | | | | |
| 22 | termines to be appropriate. | | | | | |
| 23 | "(2) MAXIMUM AMOUNT.—The amount of a se- | | | | | |
| 24 | cured loan under this section shall not exceed an | | | | | |

| 1 | amount equal to 80 percent of the reasonably antici- |
|----|--|
| 2 | pated eligible project costs. |
| 3 | "(3) Payment.—A secured loan under this sec- |
| 4 | tion shall be payable, in whole or in part, from— |
| 5 | "(A) user fees; |
| 6 | "(B) payments owing to the obligor under |
| 7 | a public-private partnership; or |
| 8 | "(C) other revenue sources that also secure |
| 9 | or fund the project obligations. |
| 10 | "(4) Interest rate.— |
| 11 | "(A) In general.—Except as provided in |
| 12 | subparagraph (B), the interest rate on a se- |
| 13 | cured loan under this section shall be not less |
| 14 | than the interest rate reflected in the yield on |
| 15 | United States Treasury securities of a similar |
| 16 | maturity to the maturity of the secured loan on |
| 17 | the date of execution of the loan agreement. |
| 18 | "(B) Limited buydowns.— |
| 19 | "(i) In general.—Subject to clause |
| 20 | (iii), the Secretary may lower the interest |
| 21 | rate of a secured loan under this section to |
| 22 | not lower than the interest rate described |
| 23 | in clause (ii), if the interest rate has in- |
| 24 | creased during the period— |

subsidy amount, if any.

"(7) FEES.—

"(A) IN GENERAL.—The Secretary may

collect a fee on or after the date of the financial

close of a Federal credit instrument under this

| 1 | section in an amount equal to not more than |
|----|---|
| 2 | \$3,000,000 to cover all or a portion of the costs |
| 3 | to the Federal Government of providing the |
| 4 | Federal credit instrument. |
| 5 | "(B) Amendment to add cost of fees |
| 6 | TO SECURED LOAN.—If the Secretary collects ϵ |
| 7 | fee from an obligor under subparagraph (A) to |
| 8 | cover all or a portion of the costs to the Federal |
| 9 | Government of providing a secured loan, the ob- |
| 10 | ligor and the Secretary may amend the terms |
| 11 | of the secured loan to add to the principal of |
| 12 | the secured loan an amount equal to the |
| 13 | amount of the fee collected by the Secretary. |
| 14 | "(8) Maximum federal involvement.—The |
| 15 | total Federal assistance provided for a project under |
| 16 | the CIFIA program, including any grant provided |
| 17 | under section 999D, shall not exceed an amount |
| 18 | equal to 80 percent of the eligible project costs. |
| 19 | "(c) Repayment.— |
| 20 | "(1) Schedule.—The Secretary shall establish |
| 21 | a repayment schedule for each secured loan under |
| 22 | this section based on— |
| 23 | "(A) the projected cash flow from project |
| 24 | revenues and other repayment sources; and |
| 25 | "(B) the useful life of the project. |
| | |

| 1 | "(2) Commencement.—Scheduled loan repay- |
|----|---|
| 2 | ments of principal or interest on a secured loan |
| 3 | under this section shall commence not later than 5 |
| 4 | years after the date of substantial completion of the |
| 5 | project. |
| 6 | "(3) Deferred payments.— |
| 7 | "(A) IN GENERAL.—If, at any time after |
| 8 | the date of substantial completion of a project, |
| 9 | the project is unable to generate sufficient reve- |
| 10 | nues in excess of reasonable and necessary op- |
| 11 | erating expenses to pay the scheduled loan re- |
| 12 | payments of principal and interest on the se- |
| 13 | cured loan, the Secretary may, subject to sub- |
| 14 | paragraph (C), allow the obligor to add unpaid |
| 15 | principal and interest to the outstanding bal- |
| 16 | ance of the secured loan. |
| 17 | "(B) Interest.—Any payment deferred |
| 18 | under subparagraph (A) shall— |
| 19 | "(i) continue to accrue interest in ac- |
| 20 | cordance with subsection (b)(4) until fully |
| 21 | repaid; and |
| 22 | "(ii) be scheduled to be amortized |
| 23 | over the remaining term of the loan. |
| 24 | "(C) Criteria.— |

| 1 | "(i) In General.—Any payment de- |
|----|--|
| 2 | ferral under subparagraph (A) shall be |
| 3 | contingent on the project meeting criteria |
| 4 | established by the Secretary. |
| 5 | "(ii) Repayment standards.—The |
| 6 | criteria established pursuant to clause (i) |
| 7 | shall include standards for the reasonable |
| 8 | prospect of repayment. |
| 9 | "(4) Prepayment.— |
| 10 | "(A) Use of excess revenues.—Any |
| 11 | excess revenues that remain after satisfying |
| 12 | scheduled debt service requirements on the |
| 13 | project obligations and secured loan and all de- |
| 14 | posit requirements under the terms of any trust |
| 15 | agreement, bond resolution, or similar agree- |
| 16 | ment securing project obligations may be ap- |
| 17 | plied annually to prepay the secured loan, with- |
| 18 | out penalty. |
| 19 | "(B) Use of proceeds of refi- |
| 20 | NANCING.—A secured loan may be prepaid at |
| 21 | any time without penalty from the proceeds of |
| 22 | refinancing from non-Federal funding sources. |
| 23 | "(d) Sale of Secured Loans.— |
| 24 | "(1) In General.—Subject to paragraph (2), |
| 25 | as soon as practicable after substantial completion of |

a project and after notifying the obligor, the Secretary may sell to another entity or reoffer into the capital markets a secured loan for the project if the Secretary determines that the sale or reoffering can be made on favorable terms.

"(2) Consent of Obligor.—In making a sale or reoffering under paragraph (1), the Secretary may not change any original term or condition of the secured loan without the written consent of the obligor.

"(e) Loan Guarantees.—

"(1) IN GENERAL.—The Secretary may provide a loan guarantee to a lender in lieu of making a secured loan under this section if the Secretary determines that the budgetary cost of the loan guarantee is substantially the same as, or less than, that of a secured loan.

"(2) TERMS.—The terms of a loan guarantee under paragraph (1) shall be consistent with the terms required under this section for a secured loan, except that the rate on the guaranteed loan and any prepayment features shall be negotiated between the obligor and the lender, with the consent of the Secretary.

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| | | 99911. | TTDL/WID | TIDAINI 3. |

| 2 | "(a) Establishment.—The Secretary may provide |
|----|---|
| 3 | grants to pay a portion of the cost differential, with re- |
| 4 | spect to any projected future increase in demand for car- |
| 5 | bon dioxide transportation by an infrastructure project de- |
| 6 | scribed in subsection (b), between— |
| 7 | "(1) the cost of constructing the infrastructure |
| 8 | asset with the capacity to transport an increased |
| 9 | flow rate of carbon dioxide, as made practicable |
| 10 | under the project; and |
| 11 | "(2) the cost of constructing the infrastructure |
| 12 | asset with the capacity to transport carbon dioxide |
| 13 | at the flow rate initially required, based on commit- |
| 14 | ments for the use of the asset. |
| 15 | "(b) Eligibility.—To be eligible to receive a grant |
| 16 | under this section, an entity shall— |
| 17 | "(1) be eligible to receive credit assistance |
| 18 | under the CIFIA program; |
| 19 | "(2) carry out, or propose to carry out, a |
| 20 | project for large-capacity, common carrier infra- |
| 21 | structure with a probable future increase in demand |
| 22 | for carbon dioxide transportation; and |
| 23 | "(3) submit to the Secretary an application at |
| 24 | such time, in such manner, and containing such in- |
| 25 | formation as the Secretary determines to be appro- |
| 26 | priate. |

- 1 "(c) Use of Funds.—A grant provided under this
- 2 section may be used only to pay the costs of any additional
- 3 flow rate capacity of a carbon dioxide transportation infra-
- 4 structure asset that the project sponsor demonstrates to
- 5 the satisfaction of the Secretary can reasonably be ex-
- 6 pected to be used during the 20-year period beginning on
- 7 the date of substantial completion of the project described
- 8 in subsection (b)(2).
- 9 "(d) Maximum Amount.—The amount of a grant
- 10 provided under this section may not exceed an amount
- 11 equal to 80 percent of the cost of the additional capacity
- 12 described in subsection (a).
- 13 "SEC. 999E. PROGRAM ADMINISTRATION.
- 14 "(a) Requirement.—The Secretary shall establish
- 15 a uniform system to service the Federal credit instruments
- 16 provided under the CIFIA program.
- 17 "(b) Fees.—If funding sufficient to cover the costs
- 18 of services of expert firms retained pursuant to subsection
- 19 (d) and all or a portion of the costs to the Federal Govern-
- 20 ment of servicing the Federal credit instruments is not
- 21 provided in an appropriations Act for a fiscal year, the
- 22 Secretary, during that fiscal year, may collect fees on or
- 23 after the date of the financial close of a Federal credit
- 24 instrument provided under the CIFIA program at a level
- 25 that is sufficient to cover those costs.

| 1 | "(c) Servicer.— |
|----|--|
| 2 | "(1) In General.—The Secretary may appoint |
| 3 | a financial entity to assist the Secretary in servicing |
| 4 | the Federal credit instruments. |
| 5 | "(2) Duties.—A servicer appointed under |
| 6 | paragraph (1) shall act as the agent for the Sec- |
| 7 | retary. |
| 8 | "(3) Fee.—A servicer appointed under para- |
| 9 | graph (1) shall receive a servicing fee, subject to ap- |
| 10 | proval by the Secretary. |
| 11 | "(d) Assistance From Expert Firms.—The Sec- |
| 12 | retary may retain the services of expert firms, including |
| 13 | counsel, in the field of municipal and project finance to |
| 14 | assist in the underwriting and servicing of Federal credit |
| 15 | instruments. |
| 16 | "(e) Expedited Processing.—The Secretary shall |
| 17 | implement procedures and measures to economize the time |
| 18 | and cost involved in obtaining approval and the issuance |
| 19 | of credit assistance under the CIFIA program. |
| 20 | "SEC. 999F. STATE AND LOCAL PERMITS. |
| 21 | "The provision of credit assistance under the CIFIA |
| 22 | program with respect to a project shall not— |
| 23 | "(1) relieve any recipient of the assistance of |
| 24 | any project obligation to obtain any required State |

| 1 | or local permit or approval with respect to the |
|----|---|
| 2 | project; |
| 3 | "(2) limit the right of any unit of State or local |
| 4 | government to approve or regulate any rate of re- |
| 5 | turn on private equity invested in the project; or |
| 6 | "(3) otherwise supersede any State or local law |
| 7 | (including any regulation) applicable to the construc- |
| 8 | tion or operation of the project. |
| 9 | "SEC. 999G. REGULATIONS. |
| 10 | "The Secretary may promulgate such regulations as |
| 11 | the Secretary determines to be appropriate to carry out |
| 12 | the CIFIA program. |
| 13 | "SEC. 999H. FUNDING. |
| 14 | "(a) Funding.— |
| 15 | "(1) Appropriations.—In addition to |
| 16 | amounts otherwise made available, there is appro- |
| 17 | priated to the Secretary to carry out this subtitle, |
| 18 | out of any amounts in the Treasury not otherwise |
| 19 | appropriated— |
| 20 | "(A) \$600,000,000 for each of fiscal years |
| 21 | 2022 and 2023; and |
| 22 | "(B) \$300,000,000 for each of fiscal years |
| 23 | 2024 through 2026. |
| 24 | "(2) Spending and Borrowing author- |
| 25 | ITY.—Spending and borrowing authority for a fiscal |

| 1 | year to enter into Federal credit instruments shall |
|----|--|
| 2 | be promptly apportioned to the Secretary on a fiscal- |
| 3 | year basis. |
| 4 | "(3) Reestimates.—If the subsidy amount of |
| 5 | a Federal credit instrument is reestimated, the cost |
| 6 | increase or decrease of the reestimate shall be borne |
| 7 | by, or benefit, the general fund of the Treasury, con- |
| 8 | sistent with section 504(f) of the Congressional |
| 9 | Budget Act of 1974 (2 U.S.C. 661c(f)). |
| 10 | "(4) Administrative costs.—Of the amounts |
| 11 | made available to carry out the CIFIA program, the |
| 12 | Secretary may use not more than \$9,000,000 (as in- |
| 13 | dexed for United States dollar inflation from the |
| 14 | date of enactment of the Energy Infrastructure Act |
| 15 | (as measured by the Consumer Price Index)) each |
| 16 | fiscal year for the administration of the CIFIA pro- |
| 17 | gram. |
| 18 | "(b) Contract Authority.— |
| 19 | "(1) In general.—Notwithstanding any other |
| 20 | provision of law, execution of a term sheet by the |
| 21 | Secretary of a Federal credit instrument that uses |
| 22 | amounts made available under the CIFIA program |
| 23 | shall impose on the United States a contractual obli- |
| 24 | gation to fund the Federal credit investment. |

| 1 | "(2) AVAILABILITY.—Amounts made available |
|----|---|
| 2 | to carry out the CIFIA program for a fiscal year |
| 3 | shall be available for obligation on October 1 of the |
| 4 | fiscal year.". |
| 5 | (b) TECHNICAL AMENDMENTS.—The table of con- |
| 6 | tents for the Energy Policy Act of 2005 (Public Law 109– |
| 7 | 58; 119 Stat. 600) is amended— |
| 8 | (1) in the item relating to section 917, by strik- |
| 9 | ing "Efficiency"; |
| 10 | (2) by striking the items relating to subtitle J |
| 11 | of title IX (relating to ultra-deepwater and uncon- |
| 12 | ventional natural gas and other petroleum resources) |
| 13 | and inserting the following: |
| | "Subtitle J—Carbon Dioxide Transportation Infrastructure Finance and Innovation |
| | "Sec. 999A. Definitions. "Sec. 999B. Determination of eligibility and project selection. "Sec. 999C. Secured loans. "Sec. 999D. Future growth grants. "Sec. 999E. Program administration. "Sec. 999F. State and local permits. "Sec. 999G. Regulations. "Sec. 999H. Funding."; and |
| 14 | (3) by striking the item relating to section |
| 15 | 969B and inserting the following: |
| | "Sec. 969B. High efficiency turbines.". |
| 16 | SEC. 3005. CARBON STORAGE VALIDATION AND TESTING. |
| 17 | Section 963 of the Energy Policy Act of 2005 (42 |
| 18 | U.S.C. 16293) is amended— |

| 1 | (1) in subsection $(a)(1)(B)$, by striking "over a |
|----|---|
| 2 | 10-year period''; |
| 3 | (2) in subsection (b)— |
| 4 | (A) in paragraph (1), by striking "and |
| 5 | demonstration" and inserting "demonstration, |
| 6 | and commercialization"; and |
| 7 | (B) in paragraph (2)— |
| 8 | (i) in subparagraph (G), by striking |
| 9 | "and" at the end; |
| 10 | (ii) in subparagraph (H), by striking |
| 11 | the period at the end and inserting "; |
| 12 | and"; and |
| 13 | (iii) by adding at the end the fol- |
| 14 | lowing: |
| 15 | "(I) evaluating the quantity, lo- |
| 16 | cation, and timing of geologic carbon |
| 17 | storage deployment that may be need- |
| 18 | ed, and developing strategies and re- |
| 19 | sources to enable the deployment."; |
| 20 | (3) by redesignating subsections (e) through (g) |
| 21 | as subsections (f) through (h), respectively; |
| 22 | (4) by inserting after subsection (d) the fol- |
| 23 | lowing: |
| 24 | "(e) Large-scale Carbon Storage Commer- |
| 25 | CIALIZATION PROGRAM.— |

| 1 | "(1) IN GENERAL.—The Secretary shall estab- |
|----|--|
| 2 | lish a commercialization program under which the |
| 3 | Secretary shall provide funding for the development |
| 4 | of new or expanded commercial large-scale carbon |
| 5 | sequestration projects and associated carbon dioxide |
| 6 | transport infrastructure, including funding for the |
| 7 | feasibility, site characterization, permitting, and con- |
| 8 | struction stages of project development. |
| 9 | "(2) Applications; selection.— |
| 10 | "(A) In general.—To be eligible to enter |
| 11 | into an agreement with the Secretary for fund- |
| 12 | ing under paragraph (1), an entity shall submit |
| 13 | to the Secretary an application at such time, in |
| 14 | such manner, and containing such information |
| 15 | as the Secretary determines to be appropriate. |
| 16 | "(B) APPLICATION PROCESS.—The Sec- |
| 17 | retary shall establish an application process |
| 18 | that, to the maximum extent practicable— |
| 19 | "(i) is open to projects at any stage of |
| 20 | development described in paragraph (1); |
| 21 | and |
| 22 | "(ii) facilitates expeditious develop- |
| 23 | ment of projects described in that para- |
| 24 | graph. |

| 1 | "(C) Project selection.—In selecting |
|----|--|
| 2 | projects for funding under paragraph (1), the |
| 3 | Secretary shall give priority to— |
| 4 | "(i) projects with substantial carbon |
| 5 | dioxide storage capacity; or |
| 6 | "(ii) projects that will store carbon di- |
| 7 | oxide from multiple carbon capture facili- |
| 8 | ties."; |
| 9 | (5) in subsection (f) (as so redesignated), in |
| 10 | paragraph (1), by inserting "with respect to the re- |
| 11 | search, development, demonstration program compo- |
| 12 | nents described in subsections (b) through (d)" be- |
| 13 | fore "give preference"; and |
| 14 | (6) by striking subsection (h) (as so redesig- |
| 15 | nated) and inserting the following: |
| 16 | "(h) Appropriations.—In addition to amounts oth- |
| 17 | erwise made available, there is appropriated to the Sec- |
| 18 | retary to carry out this section, out of any amounts in |
| 19 | the Treasury not otherwise appropriated, \$500,000,000 |
| 20 | for each of fiscal years 2022 through 2026.". |
| 21 | SEC. 3006. SECURE GEOLOGIC STORAGE PERMITTING. |
| 22 | (a) Definitions.—In this section: |
| 23 | (1) Administrator.—The term "Adminis- |
| 24 | trator" means the Administrator of the Environ- |
| 25 | mental Protection Agency. |

| 1 | (2) Class VI well.—The term "Class VI well" |
|----|---|
| 2 | means a well described in section 144.6(f) of title |
| 3 | 40, Code of Federal Regulations (or successor regu- |
| 4 | lations). |
| 5 | (b) Geologic Sequestration Permitting.—In |
| 6 | addition to amounts otherwise made available, there is ap- |
| 7 | propriated to the Administrator for the permitting of |
| 8 | Class VI wells by the Administrator for the injection of |
| 9 | carbon dioxide for the purpose of geologic sequestration |
| 10 | in accordance with the requirements of the Safe Drinking |
| 11 | Water Act (42 U.S.C. 300f et seq.) and the final rule of |
| 12 | the Administrator entitled "Federal Requirements Under |
| 13 | the Underground Injection Control (UIC) Program for |
| 14 | Carbon Dioxide (CO ₂) Geologic Sequestration (GS) Wells |
| 15 | (75 Fed. Reg. 77230 (December 10, 2010)), out of any |
| 16 | amounts not otherwise appropriated, \$5,000,000 for each |
| 17 | of fiscal years 2022 through 2026. |
| 18 | (c) State Permitting Program Grants.— |
| 19 | (1) Establishment.—The Administrator shall |
| 20 | award grants to States that, pursuant to section |
| 21 | 1422 of the Safe Drinking Water Act (42 U.S.C. |
| 22 | 300h-1), receive the approval of the Administrator |
| 23 | for a State underground injection control program |
| 24 | for permitting Class VI wells for the injection of car- |
| 25 | bon dioxide. |

| 1 | (2) USE OF FUNDS.—A State that receives a |
|--|---|
| 2 | grant under paragraph (1) shall use the amounts re- |
| 3 | ceived under the grant to defray the expenses of the |
| 4 | State related to the establishment and operation of |
| 5 | a State underground injection control program de- |
| 6 | scribed in paragraph (1). |
| 7 | (3) Appropriations.—In addition to amounts |
| 8 | otherwise made available, there is appropriated to |
| 9 | the Administrator to carry out this subsection, out |
| 10 | of any amounts in the Treasury not otherwise appro- |
| 11 | priated, \$50,000,000 for each of fiscal years 2022 |
| 12 | through 2026. |
| | |
| 13 | SEC. 3007. GEOLOGIC CARBON SEQUESTRATION ON THE |
| 13 14 | SEC. 3007. GEOLOGIC CARBON SEQUESTRATION ON THE OUTER CONTINENTAL SHELF. |
| | |
| 14 | OUTER CONTINENTAL SHELF. |
| 14 15 | OUTER CONTINENTAL SHELF. (a) DEFINITIONS.—Section 2 of the Outer Conti- |
| 141516 | OUTER CONTINENTAL SHELF. (a) DEFINITIONS.—Section 2 of the Outer Continental Shelf Lands Act (43 U.S.C. 1331) is amended— |
| 14151617 | OUTER CONTINENTAL SHELF. (a) DEFINITIONS.—Section 2 of the Outer Continental Shelf Lands Act (43 U.S.C. 1331) is amended— (1) in the matter preceding subsection (a), by |
| 1415161718 | OUTER CONTINENTAL SHELF. (a) DEFINITIONS.—Section 2 of the Outer Continental Shelf Lands Act (43 U.S.C. 1331) is amended— (1) in the matter preceding subsection (a), by striking "When used in this Act—" and inserting |
| 141516171819 | outer continental shelf. (a) Definitions.—Section 2 of the Outer Continental Shelf Lands Act (43 U.S.C. 1331) is amended— (1) in the matter preceding subsection (a), by striking "When used in this Act—" and inserting "In this Act:"; |
| 14151617181920 | outer continental shelf. (a) Definitions.—Section 2 of the Outer Continental Shelf Lands Act (43 U.S.C. 1331) is amended— (1) in the matter preceding subsection (a), by striking "When used in this Act—" and inserting "In this Act:"; (2) in each subsection, by inserting a subsection |
| 14 15 16 17 18 19 20 21 | outer continental shelf. (a) Definitions.—Section 2 of the Outer Continental Shelf Lands Act (43 U.S.C. 1331) is amended— (1) in the matter preceding subsection (a), by striking "When used in this Act—" and inserting "In this Act:"; (2) in each subsection, by inserting a subsection heading, the text of which is comprised of the term |

| 1 | at the end of subsection (p) and inserting a period; |
|----|---|
| 2 | and |
| 3 | (4) by adding at the end the following: |
| 4 | "(r) Carbon Dioxide Stream.— |
| 5 | "(1) IN GENERAL.—The term 'carbon dioxide |
| 6 | stream' means carbon dioxide that— |
| 7 | "(A) has been captured; and |
| 8 | "(B) consists overwhelmingly of— |
| 9 | "(i) carbon dioxide plus incidental as- |
| 10 | sociated substances derived from the |
| 11 | source material or capture process; and |
| 12 | "(ii) any substances added to the |
| 13 | stream for the purpose of enabling or im- |
| 14 | proving the injection process. |
| 15 | "(2) Exclusions.—The term 'carbon dioxide |
| 16 | stream' does not include waste or other matter |
| 17 | added to the carbon dioxide stream for the purpose |
| 18 | of disposal. |
| 19 | "(s) Carbon Sequestration.—The term 'carbon |
| 20 | sequestration' means the act of storing carbon dioxide that |
| 21 | has been captured through physical, chemical, or biological |
| 22 | processes that can prevent the carbon dioxide from reach- |
| 23 | ing the atmosphere.". |
| 24 | (b) Leases, Easements, or Rights-of-way for |
| 25 | Energy and Related Purposes.—Section 8(p)(1) of |

| 1 | the Outer Continental Shelf Lands Act (43 U.S.C. |
|----|--|
| 2 | 1337(p)(1)) is amended— |
| 3 | (1) in subparagraph (C), by striking "or" after |
| 4 | the semicolon; |
| 5 | (2) in subparagraph (D), by striking the period |
| 6 | at the end and inserting "; or"; and |
| 7 | (3) by adding at the end the following: |
| 8 | "(E) provide for, support, or are directly |
| 9 | related to the injection of a carbon dioxide |
| 10 | stream into sub-seabed geologic formations for |
| 11 | the purpose of long-term carbon sequestra- |
| 12 | tion.". |
| 13 | (c) Clarification.—A carbon dioxide stream in- |
| 14 | jected for the purpose of carbon sequestration under sub- |
| 15 | paragraph (E) of section 8(p)(1) of the Outer Continental |
| 16 | Shelf Lands Act (43 U.S.C. 1337(p)(1)) shall not be con- |
| 17 | sidered to be material (as defined in section 3 of the Ma- |
| 18 | rine Protection, Research, and Sanctuaries Act of 1972 |
| 19 | (33 U.S.C. 1402)) for purposes of that Act (33 U.S.C. |
| 20 | 1401 et seq.). |
| 21 | (d) REGULATIONS.—Not later than 1 year after the |
| 22 | date of enactment of this Act, the Secretary of the Interior |
| 23 | shall promulgate regulations to carry out the amendments |
| 24 | made by this section. |

carbon; and

| 1 | SEC. 3008. CARBON REMOVAL. |
|----|--|
| 2 | (a) In General.—Section. 969D. CARBON RE- |
| 3 | MOVAL of subtitle F of title IX of the Energy Policy Act |
| 4 | of 2005 (42 U.S.C. 16291 et seq.) is further amended by |
| 5 | adding at the end the following: |
| 6 | "(k) REGIONAL DIRECT AIR CAPTURE HUBS.— |
| 7 | "(1) Definition of Regional Direct Air |
| 8 | CAPTURE HUB.—In this section, the term 'regional |
| 9 | clean direct air capture hub' means a network of di- |
| 10 | rect air capture projects, potential carbon dioxide |
| 11 | utilization off-takers, and connective infrastructure |
| 12 | located in close proximity. |
| 13 | "(2) Establishment of Program.—The Sec- |
| 14 | retary shall establish a program to support the de- |
| 15 | velopment of 4 regional direct air capture hubs |
| 16 | that— |
| 17 | "(A) demonstrably aid the achievement of |
| 18 | capturing carbon dioxide directly from the at- |
| 19 | mosphere; |
| 20 | "(B) each have the capacity to capture and |
| 21 | sequester at least one million metric tons of |
| 22 | carbon dioxide annually; |
| 23 | "(C) demonstrate the capture, processing, |
| 24 | delivery, and storage or end-use of captured |

| 1 | "(D) can be developed into a national car- |
|----|---|
| 2 | bon network to facilitate sequestration or car- |
| 3 | bon utilization. |
| 4 | "(3) Selection of regional direct air |
| 5 | CAPTURE HUBS.— |
| 6 | "(A) Solicitation of proposals.—Not |
| 7 | later than 180 days after the date of enactment |
| 8 | of the Energy Infrastructure Act, the Secretary |
| 9 | shall solicit proposals for regional clean direct |
| 10 | air capture hubs. |
| 11 | "(B) Selection of Hubs.—Not later |
| 12 | than 1 year after the deadline for the submis- |
| 13 | sion of proposals under paragraph (1), the Sec- |
| 14 | retary shall select 4 regional direct air capture |
| 15 | hubs to be developed under subsection (b). |
| 16 | "(C) Criteria.—The Secretary shall se- |
| 17 | lect regional clean direct air capture hubs under |
| 18 | paragraph (2) using the following criteria: |
| 19 | "(i) Carbon intensity of local in- |
| 20 | DUSTRY.—To the maximum extent prac- |
| 21 | ticable, each direct air capture hub shall be |
| 22 | located in a region with existing carbon in- |
| 23 | tensive fuel production or industrial capac- |
| 24 | ity, or such capacity that has retired or |
| 25 | closed in the preceding 10 years. |

| 1 | "(ii) Geographic diversity.—To |
|----|--|
| 2 | the maximum extent practicable, each re- |
| 3 | gional clean direct air capture hub shall be |
| 4 | located in a different region of the United |
| 5 | States. |
| 6 | "(iii) Carbon Potential.—To the |
| 7 | maximum extent practicable, each regional |
| 8 | direct air capture hub shall be located in a |
| 9 | region with high potential for carbon se- |
| 10 | questration or utilization. |
| 11 | "(iv) Hubs in fossil-producing re- |
| 12 | GIONS.—To the maximum extent prac- |
| 13 | ticable, at least 2 regional direct air cap- |
| 14 | ture hubs shall be located in economically |
| 15 | distressed communities in the regions of |
| 16 | the United States with high levels of coal |
| 17 | or shale gas resources. |
| 18 | "(v) Employment.—The Secretary |
| 19 | shall give priority to regional direct air |
| 20 | capture hubs that are likely to create op- |
| 21 | portunities for skilled training and long- |
| 22 | term employment to the greatest number |
| 23 | of residents of the region. |
| 24 | "(vi) Additional Criteria.—The |
| 25 | Secretary may take into consideration |

| 1 | other criteria that, in the judgement of the |
|----|--|
| 2 | Secretary, are necessary or appropriate to |
| 3 | carry out this title. |
| 4 | "(D) Funding of regional direct air |
| 5 | CAPTURE HUBS.—The Secretary may make |
| 6 | grants or enter into cooperative agreements or |
| 7 | contracts to each regional direct air capture se- |
| 8 | lected under paragraph (2) to accelerate com- |
| 9 | mercialization of, and demonstrate the capture, |
| 10 | processing, delivery, storage, and end-use of |
| 11 | carbon from the atmosphere. |
| 12 | "(4) Appropriations.—In addition to |
| 13 | amounts otherwise made available, there is appro- |
| 14 | priated to the Secretary to carry out this section, |
| 15 | out of any amounts in the Treasury not otherwise |
| 16 | appropriated, \$3,500,000,000 for the period of fiscal |
| 17 | years 2022 through 2026.". |
| 18 | Subtitle B—Hydrogen Research |
| 19 | and Development |
| 20 | SEC. 3101. FINDINGS; PURPOSE. |
| 21 | (a) FINDINGS.—Congress finds that— |
| 22 | (1) hydrogen plays a critical part in the com- |
| 23 | prehensive energy portfolio of the United States; |
| 24 | (2) the use of the hydrogen resources of the |
| 25 | United States— |

| 1 | (A) promotes energy security and resil- |
|----|--|
| 2 | ience; and |
| 3 | (B) provides economic value and environ- |
| 4 | mental benefits for diverse applications across |
| 5 | multiple sectors of the economy; and |
| 6 | (3) hydrogen can be produced from a variety of |
| 7 | domestically available clean energy sources, includ- |
| 8 | ing— |
| 9 | (A) renewable energy resources, including |
| 10 | biomass; |
| 11 | (B) fossil fuels with carbon capture, utili- |
| 12 | zation, and storage; and |
| 13 | (C) nuclear power. |
| 14 | (b) Purpose.—The purpose of this subtitle is to ac- |
| 15 | celerate research, development, demonstration, and de- |
| 16 | ployment of hydrogen from clean energy sources by— |
| 17 | (1) providing a statutory definition for the term |
| 18 | "clean hydrogen"; |
| 19 | (2) establishing a clean hydrogen strategy and |
| 20 | roadmap for the United States; |
| 21 | (3) establishing a clearing house for clean hy- |
| 22 | drogen program information at the National Energy |
| 23 | Technology Laboratory; |
| 24 | (4) developing a robust clean hydrogen supply |
| 25 | chain and workforce by prioritizing clean hydrogen |

| 1 | demonstration projects in economically distressed |
|----|--|
| 2 | communities in major shale gas regions; |
| 3 | (5) establishing regional clean hydrogen hubs; |
| 4 | and |
| 5 | (6) authorizing appropriations to carry out the |
| 6 | Department of Energy Hydrogen Program Plan, |
| 7 | dated November 2020, developed pursuant to title |
| 8 | VIII of the Energy Policy Act of 2005 (42 U.S.C. |
| 9 | 16151 et seq.). |
| 10 | SEC. 3102. DEFINITIONS. |
| 11 | Section 803 of the Energy Policy Act of 2005 (42 |
| 12 | U.S.C. 16152) is amended— |
| 13 | (1) in paragraph (5), by striking the paragraph |
| 14 | designation and heading and all that follows through |
| 15 | "when" in the matter preceding subparagraph (A) |
| 16 | and inserting the following: |
| 17 | "(5) Portable; Storage.—The terms 'port- |
| 18 | able' and 'storage', when'; |
| 19 | (2) by redesignating paragraphs (1) through |
| 20 | (7) as paragraphs (2) through (8), respectively; and |
| 21 | (3) by inserting before paragraph (2) (as so re- |
| 22 | designated) the following: |
| 23 | "(1) CLEAN HYDROGEN; HYDROGEN.—The |
| 24 | terms 'clean hydrogen' and 'hydrogen' mean hydro- |
| 25 | gen produced in compliance with the greenhouse gas |

| 1 | emissions standard established under section 822(a), |
|----|---|
| 2 | including production from any fuel source.". |
| 3 | SEC. 3103. CLEAN HYDROGEN RESEARCH AND DEVELOP- |
| 4 | MENT PROGRAM. |
| 5 | (a) In General.—Section 805 of the Energy Policy |
| 6 | Act of 2005 (42 U.S. 16154) is amended— |
| 7 | (1) in the section heading, by striking "PRO- |
| 8 | GRAMS" and inserting "CLEAN HYDROGEN RE- |
| 9 | SEARCH AND DEVELOPMENT PROGRAM"; |
| 10 | (2) in subsection (a)— |
| 11 | (A) by striking "research and development |
| 12 | program" and inserting "crosscutting research |
| 13 | and development program (referred to in this |
| 14 | section as the 'program')"; and |
| 15 | (B) by inserting "processing," after "pro- |
| 16 | duction,"; |
| 17 | (3) by striking subsection (b) and inserting the |
| 18 | following: |
| 19 | "(b) Goals.—The goals of the program shall be— |
| 20 | "(1) to advance research and development to |
| 21 | demonstrate and commercialize the use of clean hy- |
| 22 | drogen in the transportation, utility, industrial, com- |
| 23 | mercial, and residential sectors; and |

| 1 | "(2) to demonstrate a standard of clean hydro- |
|----|--|
| 2 | gen production in the transportation, utility, indus- |
| 3 | trial, commercial, and residential sectors by 2040."; |
| 4 | (4) in subsection (c)(3), by striking "renewable |
| 5 | fuels and biofuels" and inserting "fossil fuels with |
| 6 | carbon capture, utilization, and sequestration, re- |
| 7 | newable fuels, biofuels, and nuclear energy"; |
| 8 | (5) by striking subsection (e) and inserting the |
| 9 | following: |
| 10 | "(e) Activities.—In carrying out the program, the |
| 11 | Secretary, in partnership with the private sector, shall |
| 12 | conduct activities to advance and support— |
| 13 | "(1) the establishment of a series of technology |
| 14 | cost goals oriented toward achieving the standard of |
| 15 | clean hydrogen production [developed under section |
| 16 | 822(a)]; |
| 17 | "(2) the production of clean hydrogen from di- |
| 18 | verse energy sources, including— |
| 19 | "(A) fossil fuels with carbon capture, utili- |
| 20 | zation, and sequestration; |
| 21 | "(B) hydrogen-carrier fuels (including eth- |
| 22 | anol and methanol); |
| 23 | "(C) renewable energy resources, including |
| 24 | biomass; |
| 25 | "(D) nuclear energy; and |

| 1 | "(E) any other methods the Secretary de- |
|----|--|
| 2 | termines to be appropriate; |
| 3 | "(3) the use of clean hydrogen for commercial, |
| 4 | industrial, and residential electric power generation; |
| 5 | "(4) the use of clean hydrogen in industrial ap- |
| 6 | plications, including steelmaking, cement, chemical |
| 7 | feedstocks, and process heat; |
| 8 | "(5) the use of clean hydrogen for use as a fuel |
| 9 | source for both residential and commercial comfort |
| 10 | heating and hot water requirements; |
| 11 | "(6) the safe and efficient delivery of hydrogen |
| 12 | or hydrogen-carrier fuels, including— |
| 13 | "(A) transmission by pipelines, including |
| 14 | retrofitting the existing natural gas transpor- |
| 15 | tation infrastructure system to enable a transi- |
| 16 | tion to transport and deliver increasing levels of |
| 17 | clean hydrogen, clean hydrogen blends, or clean |
| 18 | hydrogen carriers; |
| 19 | "(B) tanks and other distribution methods; |
| 20 | and |
| 21 | "(C) convenient and economic refueling of |
| 22 | vehicles— |
| 23 | "(i) at central refueling stations; or |
| 24 | "(ii) through distributed onsite gen- |
| 25 | eration; |

| 1 | "(7) advanced vehicle technologies, including— |
|----|--|
| 2 | "(A) engine and emission control systems; |
| 3 | "(B) energy storage, electric propulsion, |
| 4 | and hybrid systems; |
| 5 | "(C) automotive materials; and |
| 6 | "(D) other advanced vehicle technologies; |
| 7 | "(8) storage of hydrogen or hydrogen-carrier |
| 8 | fuels, including the development of materials for safe |
| 9 | and economic storage in gaseous, liquid, or solid |
| 10 | form; |
| 11 | "(9) the development of safe, durable, afford- |
| 12 | able, and efficient fuel cells, including fuel-flexible |
| 13 | fuel cell power systems, improved manufacturing |
| 14 | processes, high-temperature membranes, cost-effec- |
| 15 | tive fuel processing for natural gas, fuel cell stack |
| 16 | and system reliability, low-temperature operation, |
| 17 | and cold start capability; and |
| 18 | "(10) the ability of domestic clean hydrogen |
| 19 | equipment manufacturers to manufacture commer- |
| 20 | cially available competitive technologies in the |
| 21 | United States."; and |
| 22 | (6) by adding at the end the following: |
| 23 | "(j) Targets.—Not later than 180 days after the |
| 24 | date of enactment of the Energy Infrastructure Act, the |
| 25 | Secretary shall establish targets for the program to ad- |

| 1 | dress near-term | un to 2 vea | rs) mid-term | (un to 7) | vears) |
|---|-----------------|---------------|-------------------|-----------|--------|
| 1 | uress mear-term | tup to 4 vea. | 18), IIIIu-teriii | 140 60 7 | vearsi |

- 2 and long-term (up to 15 years) challenges to the advance-
- 3 ment of clean hydrogen systems and technologies.".
- 4 (b) Conforming Amendment.—The table of con-
- 5 tents for the Energy Policy Act of 2005 (Public Law 109–
- 6 58; 119 Stat. 599) is amended by striking the item relat-
- 7 ing to section 805 and inserting the following:

"Sec. 805. Clean hydrogen research and development program.".

8 SEC. 3104. ADDITIONAL CLEAN HYDROGEN PROGRAMS.

- 9 Title VIII of the Energy Policy Act of 2005 (42)
- 10 U.S.C. 16151 et seq.) is amended—
- 11 (1) by redesignating sections 813 through 816
- as sections 818 through 821, respectively; and
- 13 (2) by inserting after section 812 the following:
- 14 "SEC. 813. REGIONAL CLEAN HYDROGEN HUBS.
- 15 "(a) Definition of Regional Clean Hydrogen
- 16 Hub.—In this section, the term 'regional clean hydrogen
- 17 hub' means a network of clean hydrogen producers, poten-
- 18 tial clean hydrogen consumers, and connective infrastruc-
- 19 ture located in close proximity.
- 20 "(b) Establishment of Program.—The Secretary
- 21 shall establish a program to support the development of
- 22 4 regional clean hydrogen hubs that—
- 23 "(1) demonstrably aid the achievement of the
- clean hydrogen production standard [developed
- under section 822(a)];

| 1 | "(2) demonstrate the production, processing, |
|----|--|
| 2 | delivery, storage, and end-use of clean hydrogen; and |
| 3 | "(3) can be developed into a national clean hy- |
| 4 | drogen network to facilitate a clean hydrogen econ- |
| 5 | omy. |
| 6 | "(c) Selection of Regional Clean Hydrogen |
| 7 | Hubs.— |
| 8 | "(1) Solicitation of Proposals.—Not later |
| 9 | than 180 days after the date of enactment of the |
| 10 | Energy Infrastructure Act, the Secretary shall solicit |
| 11 | proposals for regional clean hydrogen hubs. |
| 12 | "(2) Selection of Hubs.—Not later than 1 |
| 13 | year after the deadline for the submission of pro- |
| 14 | posals under paragraph (1), the Secretary shall se- |
| 15 | lect 4 regional clean hydrogen hubs to be developed |
| 16 | under subsection (b). |
| 17 | "(3) Criteria.—The Secretary shall select re- |
| 18 | gional clean hydrogen hubs under paragraph (2) |
| 19 | using the following criteria: |
| 20 | "(A) FEEDSTOCK AND END-USE DIVER- |
| 21 | SITY.—To the maximum extent practicable, at |
| 22 | least 1 regional clean hydrogen hub shall dem- |
| 23 | onstrate— |
| 24 | "(i) the production of clean hydrogen |
| 25 | from— |

| 1 | "(D) Employment.—The Secretary shall |
|----|--|
| 2 | give priority to regional clean hydrogen hubs |
| 3 | that are likely to create opportunities for skilled |
| 4 | training and long-term employment to the |
| 5 | greatest number of residents of the region. |
| 6 | "(E) Additional Criteria.—The Sec- |
| 7 | retary may take into consideration other cri- |
| 8 | teria that, in the judgement of the Secretary, |
| 9 | are necessary or appropriate to carry out this |
| 10 | title |
| 11 | "(4) Funding of regional clean hydrogen |
| 12 | HUBS.—The Secretary may make grants to each re- |
| 13 | gional clean hydrogen hub selected under paragraph |
| 14 | (2) to accelerate commercialization of, and dem- |
| 15 | onstrate the production, processing, delivery, stor- |
| 16 | age, and end-use of, clean hydrogen. |
| 17 | "(d) APPROPRIATIONS.—In addition to amounts oth- |
| 18 | erwise made available, there is appropriated to the Sec- |
| 19 | retary to carry out this section, out of any amounts in |
| 20 | the Treasury not otherwise appropriated, \$8,000,000,000 |
| 21 | for the period of fiscal years 2022 through 2026. |
| 22 | "SEC. 814. NATIONAL CLEAN HYDROGEN STRATEGY AND |
| 23 | ROADMAP. |
| 24 | "(a) Development.— |

| 1 | "(1) In general.—In carrying out the pro- |
|----|---|
| 2 | grams established under sections 805 and 813, the |
| 3 | Secretary, in consultation with the heads of relevant |
| 4 | offices of the Department, shall develop a national |
| 5 | strategy and roadmap to facilitate widescale produc- |
| 6 | tion, processing, delivery, storage, and use of clean |
| 7 | hydrogen. |
| 8 | "(2) Inclusions.—The national clean hydro- |
| 9 | gen strategy and roadmap developed under para- |
| 10 | graph (1) shall focus on— |
| 11 | "(A) establishing a standard of hydrogen |
| 12 | production that achieves the standard [devel- |
| 13 | oped under section 822(a)], including interim |
| 14 | goals towards meeting that standard; |
| 15 | "(B)(i) clean hydrogen production and use |
| 16 | from natural gas, coal, renewable energy |
| 17 | sources, nuclear energy, and biomass; and |
| 18 | "(ii) identifying potential barriers, path- |
| 19 | ways, and opportunities, including Federal pol- |
| 20 | icy needs, to transition to a clean hydrogen |
| 21 | economy; |
| 22 | "(C) identifying— |
| 23 | "(i) economic opportunities for the |
| 24 | production, processing, transport, storage, |
| 25 | and use of clean hydrogen that exist in the |

| 1 | major shale natural gas-producing regions |
|----|---|
| 2 | of the United States; and |
| 3 | "(ii) environmental risks associated |
| 4 | with potential deployment of clean hydro- |
| 5 | gen technologies in those regions, and ways |
| 6 | to mitigate those risks; |
| 7 | "(D) approaches, including substrategies, |
| 8 | that reflect geographic diversity across the |
| 9 | country, to advance clean hydrogen based on re- |
| 10 | sources, industry sectors, environmental bene- |
| 11 | fits, and economic impacts in regional econo- |
| 12 | mies; |
| 13 | "(E) identifying opportunities to use, and |
| 14 | barriers to using, existing infrastructure, in- |
| 15 | cluding all components of the natural gas infra- |
| 16 | structure system, the carbon dioxide pipeline in- |
| 17 | frastructure system, end-use local distribution |
| 18 | networks, end-use power generators, LNG ter- |
| 19 | minals, industrial users of natural gas, and res- |
| 20 | idential and commercial consumers of natural |
| 21 | gas, for clean hydrogen deployment; |
| 22 | "(F) identifying the needs for and barriers |
| 23 | and pathways to developing clean hydrogen |
| 24 | hubs (including, where appropriate, clean hy- |

| 1 | drogen hubs coupled with carbon capture, utili- |
|----|---|
| 2 | zation, and storage hubs) that— |
| 3 | "(i) are regionally dispersed across |
| 4 | the United States and can leverage natural |
| 5 | gas shale plays to the maximum extent |
| 6 | practicable; |
| 7 | "(ii) can demonstrate the efficient |
| 8 | production, processing, delivery, and use of |
| 9 | clean hydrogen; |
| 10 | "(iii) include transportation corridors |
| 11 | and modes of transportation, including |
| 12 | transportation of clean hydrogen by pipe- |
| 13 | line and rail and through ports; and |
| 14 | "(iv) where appropriate, could serve |
| 15 | as joint clean hydrogen and carbon cap- |
| 16 | ture, utilization, and storage hubs; |
| 17 | "(G) prioritizing activities that improve the |
| 18 | ability of the Department to develop tools to |
| 19 | model, analyze, and optimize single-input, mul- |
| 20 | tiple-output integrated hybrid energy systems |
| 21 | and multiple-input, multiple-output integrated |
| 22 | hybrid energy systems that maximize efficiency |
| 23 | in providing hydrogen, high-value heat, elec- |
| 24 | tricity, and chemical synthesis services; |

| "(H) identifying the appropriate points of |
|---|
| interaction between and among Federal agen- |
| cies involved in the production, processing, de- |
| livery, storage, and use of clean hydrogen and |
| clarifying the responsibilities of those Federal |
| agencies, and potential regulatory obstacles and |
| recommendations for modifications, in order to |
| support the deployment of clean hydrogen; and |
| "(I) identifying geographic zones or re- |
| gions in which clean hydrogen technologies |
| could efficiently and economically be introduced |
| in order to transition existing infrastructure to |
| rely on clean hydrogen, in support of |
| decarbonizing all relevant sectors of the econ- |
| omy. |
| "(b) Reports to Congress.— |
| "(1) In general.—Not later than 180 days |
| after the date of enactment of the Energy Infra- |
| structure Act, the Secretary shall submit to Con- |
| gress the clean hydrogen strategy and roadmap de- |
| veloped under subsection (a). |
| "(2) UPDATES.—The Secretary shall submit to |
| Congress updates to the clean hydrogen strategy and |
| roadman under naraoranh (1) not less frequently |

| 1 | than once every 3 years after the date on which the |
|----|--|
| 2 | Secretary initially submits the report and roadmap. |
| 3 | "SEC. 815. CLEAN HYDROGEN MANUFACTURING AND RECY- |
| 4 | CLING. |
| 5 | "(a) Clean Hydrogen Manufacturing Initia- |
| 6 | TIVE.— |
| 7 | "(1) In general.—In carrying out the pro- |
| 8 | grams established under sections 805 and 813, the |
| 9 | Secretary shall award multiyear grants to, and enter |
| 10 | into contracts, cooperative agreements, or any other |
| 11 | agreements authorized under this Act or other Fed- |
| 12 | eral law with, eligible entities (as determined by the |
| 13 | Secretary) for research, development, and dem- |
| 14 | onstration projects to advance new clean hydrogen |
| 15 | production, processing, delivery, storage, and use |
| 16 | equipment manufacturing technologies and tech- |
| 17 | niques. |
| 18 | "(2) Priority.—In awarding grants or enter- |
| 19 | ing into contracts, cooperative agreements, or other |
| 20 | agreements under paragraph (1), the Secretary, to |
| 21 | the maximum extent practicable, shall give priority |
| 22 | to clean hydrogen equipment manufacturing projects |
| 23 | that— |
| 24 | "(A) increase efficiency and cost-effective- |
| 25 | ness in— |

| 1 | "(i) the manufacturing process; and |
|----|--|
| 2 | "(ii) the use of resources, including |
| 3 | existing energy infrastructure; |
| 4 | "(B) support domestic supply chains for |
| 5 | materials and components; |
| 6 | "(C) identify and incorporate nonhaz- |
| 7 | ardous alternative materials for components |
| 8 | and devices; |
| 9 | "(D) operate in partnership with tribal en- |
| 10 | ergy development organizations, Indian Tribes, |
| 11 | Tribal organizations, Native Hawaiian commu- |
| 12 | nity-based organizations, or territories or freely |
| 13 | associated States; or |
| 14 | "(E) are located in economically distressed |
| 15 | areas of the major shale natural gas-producing |
| 16 | regions of the United States. |
| 17 | "(3) EVALUATION.—Not later than 3 years |
| 18 | after the date of enactment of the Energy Infra- |
| 19 | structure Act, and not less frequently than once |
| 20 | every 4 years thereafter, the Secretary shall conduct, |
| 21 | and make available to the public and the relevant |
| 22 | committees of Congress, an independent review of |
| 23 | the progress of the projects carried out through |
| 24 | grants awarded, or contracts, cooperative agree- |

| 1 | ments, or other agreements entered into, under |
|----|---|
| 2 | paragraph (1). |
| 3 | "(b) Clean Hydrogen Technology Recycling |
| 4 | RESEARCH, DEVELOPMENT, AND DEMONSTRATION PRO- |
| 5 | GRAM.— |
| 6 | "(1) In general.—In carrying out the pro- |
| 7 | grams established under sections 805 and 813, the |
| 8 | Secretary shall award multiyear grants to, and enter |
| 9 | into contracts, cooperative agreements, or any other |
| 10 | agreements authorized under this Act or other Fed- |
| 11 | eral law with, eligible entities for research, develop- |
| 12 | ment, and demonstration projects to create innova- |
| 13 | tive and practical approaches to increase the reuse |
| 14 | and recycling of clean hydrogen technologies, includ- |
| 15 | ing by— |
| 16 | "(A) increasing the efficiency and cost-ef- |
| 17 | fectiveness of the recovery of raw materials |
| 18 | from clean hydrogen technology components |
| 19 | and systems, including enabling technologies |
| 20 | such as electrolyzers and fuel cells; |
| 21 | "(B) minimizing environmental impacts |
| 22 | from the recovery and disposal processes; |
| 23 | "(C) addressing any barriers to the re- |
| 24 | search, development, demonstration, and com- |
| 25 | mercialization of technologies and processes for |

| 1 | the disassembly and recycling of devices used |
|----|--|
| 2 | for clean hydrogen production, processing, de- |
| 3 | livery, storage, and use; |
| 4 | "(D) developing alternative materials, de- |
| 5 | signs, manufacturing processes, and other as- |
| 6 | pects of clean hydrogen technologies; |
| 7 | "(E) developing alternative disassembly |
| 8 | and resource recovery processes that enable effi- |
| 9 | cient, cost-effective, and environmentally re- |
| 10 | sponsible disassembly of, and resource recovery |
| 11 | from, clean hydrogen technologies; and |
| 12 | "(F) developing strategies to increase con- |
| 13 | sumer acceptance of, and participation in, the |
| 14 | recycling of fuel cells. |
| 15 | "(2) Dissemination of Results.—The Sec- |
| 16 | retary shall make available to the public and the rel- |
| 17 | evant committees of Congress the results of the |
| 18 | projects carried out through grants awarded, or con- |
| 19 | tracts, cooperative agreements, or other agreements |
| 20 | entered into, under paragraph (1), including any |
| 21 | educational and outreach materials developed by the |
| 22 | projects. |
| 23 | "(c) Appropriations.—In addition to amounts oth- |
| 24 | erwise made available, there is appropriated to the Sec- |
| 25 | retary to carry out this section, out of any amounts in |

25 projects—

| | 200 |
|----|---|
| 1 | the Treasury not otherwise appropriated, \$100,000,000 |
| 2 | for each of fiscal years 2022 through 2026. |
| 3 | "SEC. 816. CLEAN HYDROGEN ELECTROLYSIS PROGRAM. |
| 4 | "(a) Definitions.—In this section: |
| 5 | "(1) Electrolysis.—The term 'electrolysis |
| 6 | means a process that uses electricity to split water |
| 7 | into hydrogen and oxygen. |
| 8 | "(2) Electrolyzer.—The term 'electrolyzer |
| 9 | means a system that produces hydrogen using elec- |
| 10 | trolysis. |
| 11 | "(3) Program.—The term 'program' means |
| 12 | the program established under subsection (b). |
| 13 | "(b) Establishment.—Not later than 90 days after |
| 14 | the date of enactment of the Energy Infrastructure Act |
| 15 | the Secretary shall establish a research, development |
| 16 | demonstration, commercialization, and deployment pro- |
| 17 | gram for purposes of commercialization to improve the ef- |
| 18 | ficiency, increase the durability, and reduce the cost of |
| 19 | producing clean hydrogen using electrolyzers. |
| 20 | "(c) Goal.—The goal of the program is to reduce |
| 21 | the cost of hydrogen produced using electrolyzers to less |
| 22 | than \$2 per kilogram of hydrogen by 2026. |
| 23 | "(d) Demonstration Projects.—In carrying out |
| 24 | the program, the Secretary shall fund demonstration |
| | |

| 1 | "(1) to demonstrate technologies that produce |
|----|--|
| 2 | clean hydrogen using electrolyzers; and |
| 3 | "(2) to validate information on the cost, effi- |
| 4 | ciency, durability, and feasibility of commercial de- |
| 5 | ployment of the technologies described in paragraph |
| 6 | (1). |
| 7 | "(e) Focus.—The program shall focus on research |
| 8 | relating to, and the development, demonstration, and de- |
| 9 | ployment of— |
| 10 | "(1) low-temperature electrolyzers, including |
| 11 | liquid-alkaline electrolyzers, membrane-based |
| 12 | electrolyzers, and other advanced electrolyzers, capa- |
| 13 | ble of converting intermittent sources of electric |
| 14 | power to clean hydrogen with enhanced efficiency |
| 15 | and durability; |
| 16 | "(2) high-temperature electrolyzers that com- |
| 17 | bine electricity and heat to improve the efficiency of |
| 18 | clean hydrogen production; |
| 19 | "(3) advanced reversible fuel cells that combine |
| 20 | the functionality of an electrolyzer and a fuel cell; |
| 21 | "(4) new highly active, selective, and durable |
| 22 | electrolyzer catalysts and electro-catalysts that— |
| 23 | "(A) greatly reduce or eliminate the need |
| 24 | for platinum group metals; and |

| 1 | "(B) enable electrolysis of complex mix- |
|----|--|
| 2 | tures with impurities, including seawater; |
| 3 | "(5) modular electrolyzers for distributed en- |
| 4 | ergy systems and the bulk-power system (as defined |
| 5 | in section 215(a) of the Federal Power Act (16 |
| 6 | U.S.C. 824o(a))); |
| 7 | "(6) low-cost membranes or electrolytes and |
| 8 | separation materials that are durable in the presence |
| 9 | of impurities or seawater; |
| 10 | "(7) improved component design and material |
| 11 | integration, including with respect to electrodes, po- |
| 12 | rous transport layers and bipolar plates, and bal- |
| 13 | ance-of-system components, to allow for scale-up and |
| 14 | domestic manufacturing of electrolyzers at a high |
| 15 | volume; |
| 16 | "(8) clean hydrogen storage technologies; |
| 17 | "(9) technologies that integrate hydrogen pro- |
| 18 | duction with— |
| 19 | "(A) clean hydrogen compression and dry- |
| 20 | ing technologies; |
| 21 | "(B) clean hydrogen storage; and |
| 22 | "(C) transportation or stationary systems; |
| 23 | and |
| 24 | "(10) integrated systems that combine hydro- |
| 25 | gen production with renewable power generation |

| 1 | technologies, including hybrid systems with hydrogen |
|----|--|
| 2 | storage. |
| 3 | "(f) Grants, Contracts, Cooperative Agree- |
| 4 | MENTS.— |
| 5 | "(1) Grants.—In carrying out the program |
| 6 | the Secretary shall award grants, on a competitive |
| 7 | basis, to eligible entities for projects that the Sec- |
| 8 | retary determines would provide the greatest |
| 9 | progress toward achieving the goal of the program |
| 10 | described in subsection (c). |
| 11 | "(2) Contracts and cooperative agree- |
| 12 | MENTS.—In carrying out the program, the Secretary |
| 13 | may enter into contracts and cooperative agreements |
| 14 | with eligible entities and Federal agencies for |
| 15 | projects that the Secretary determines would further |
| 16 | the purpose of the program described in subsection |
| 17 | (b). |
| 18 | "(3) Eligibility; applications.— |
| 19 | "(A) In General.—The eligibility of an |
| 20 | entity to receive a grant under paragraph (1) |
| 21 | to enter into a contract or cooperative agree- |
| 22 | ment under paragraph (2), or to receive fund- |
| 23 | ing for a demonstration project under sub- |
| 24 | section (d) shall be determined by the Sec- |
| 25 | retary. |

| 1 | "(B) APPLICATIONS.—An eligible entity |
|----|--|
| 2 | desiring to receive a grant under paragraph (1), |
| 3 | to enter into a contract or cooperative agree- |
| 4 | ment under paragraph (2), or to receive fund- |
| 5 | ing for a demonstration project under sub- |
| 6 | section (d) shall submit to the Secretary an ap- |
| 7 | plication at such time, in such manner, and |
| 8 | containing such information as the Secretary |
| 9 | may require. |
| 10 | "(g) Appropriations.—In addition to amounts oth- |
| 11 | erwise made available, there is appropriated to the Sec- |
| 12 | retary to carry out the program, out of any amounts in |
| 13 | the Treasury not otherwise appropriated, \$200,000,000 |
| 14 | for each of fiscal years 2022 through 2026, to remain |
| 15 | available until expended. |
| 16 | "SEC. 817. LABORATORY MANAGEMENT. |
| 17 | "(a) In General.—The National Energy Tech- |
| 18 | nology Laboratory shall be the lead National Laboratory |
| 19 | for purposes of carrying out the programs established |
| 20 | under sections 813, 815, and 816. |
| 21 | "(b) Collaboration; Clearinghouse.—In car- |
| 22 | rying out subsection (a), the National Energy Technology |
| 23 | Laboratory shall— |
| 24 | "(1) collaborate with— |
| 25 | "(A) other National Laboratories; |

| 1 | "(B) institutions of higher education; |
|--|---|
| 2 | "(C) research institutes; |
| 3 | "(D) industrial researchers; and |
| 4 | "(E) international researchers; and |
| 5 | "(2) act as a clearinghouse to collect informa- |
| 6 | tion from, and distribute information to, the Na- |
| 7 | tional Laboratories and other entities described in |
| 8 | subparagraphs (B) through (E) of paragraph (1).". |
| 9 | SEC. 3105. CLEAN HYDROGEN PRODUCTION QUALIFICA- |
| 10 | TIONS. |
| 11 | (a) In General.—The Energy Policy Act of 2005 |
| | (49 II C C 16151 at gas) (as amonded by section |
| 12 | (42 U.S.C. 16151 et seq.) (as amended by section |
| 1213 | 3104(1)) is amended by adding at the end the following: |
| | |
| 13 | 3104(1)) is amended by adding at the end the following: |
| 13 14 | 3104(1)) is amended by adding at the end the following: "SEC. 822. CLEAN HYDROGEN PRODUCTION QUALIFICA- |
| 13 14 15 16 | 3104(1)) is amended by adding at the end the following: "SEC. 822. CLEAN HYDROGEN PRODUCTION QUALIFICA- TIONS. |
| 13 14 15 16 17 | 3104(1)) is amended by adding at the end the following: "SEC. 822. CLEAN HYDROGEN PRODUCTION QUALIFICA- TIONS. "(a) IN GENERAL.—The Secretary, in consultation |
| 13 14 15 16 17 | 3104(1)) is amended by adding at the end the following: "SEC. 822. CLEAN HYDROGEN PRODUCTION QUALIFICATIONS. "(a) IN GENERAL.—The Secretary, in consultation with the Administrator of the Environmental Protection |
| 13 14 15 16 17 18 | 3104(1)) is amended by adding at the end the following: "SEC. 822. CLEAN HYDROGEN PRODUCTION QUALIFICA- TIONS. "(a) IN GENERAL.—The Secretary, in consultation with the Administrator of the Environmental Protection Agency, shall develop a greenhouse gas emissions standard |
| 13 14 15 16 17 18 19 | 3104(1)) is amended by adding at the end the following: "SEC. 822. CLEAN HYDROGEN PRODUCTION QUALIFICATIONS. "(a) IN GENERAL.—The Secretary, in consultation with the Administrator of the Environmental Protection Agency, shall develop a greenhouse gas emissions standard for clean hydrogen production that shall apply to activities |
| 13 14 15 16 17 18 19 20 | "SEC. 822. CLEAN HYDROGEN PRODUCTION QUALIFICATIONS. "(a) IN GENERAL.—The Secretary, in consultation with the Administrator of the Environmental Protection Agency, shall develop a greenhouse gas emissions standard for clean hydrogen production that shall apply to activities carried out under this title. |
| 13 14 15 16 17 18 19 20 21 | "SEC. 822. CLEAN HYDROGEN PRODUCTION QUALIFICATIONS. "(a) IN GENERAL.—The Secretary, in consultation with the Administrator of the Environmental Protection Agency, shall develop a greenhouse gas emissions standard for clean hydrogen production that shall apply to activities carried out under this title. "(b) APPLICATION.—The standard developed under |

- 1 (b) Conforming Amendment.—The table of con-
- 2 tents for the Energy Policy Act of 2005 (Public Law 109–
- 3 58; 119 Stat. 599) is amended by striking the items relat-
- 4 ing to sections 813 through 816 and inserting the fol-
- 5 lowing:
 - "Sec. 813. Regional clean hydrogen hubs.
 - "Sec. 814. National clean hydrogen strategy and roadmap.
 - "Sec. 815. Clean hydrogen manufacturing and recycling.
 - "Sec. 816. Clean hydrogen electrolysis program.
 - "Sec. 817. Laboratory management.
 - "Sec. 818. Technology transfer
 - "Sec. 819. Miscellaneous provisions.
 - "Sec. 820. Cost sharing.
 - "Sec. 821. Savings clause.
 - "Sec. 822. Clean hydrogen production qualifications.".

6 Subtitle C—Nuclear Energy

7 Infrastructure

- 8 SEC. 3201. INFRASTRUCTURE PLANNING FOR MICRO NU-
- 9 CLEAR REACTORS.
- 10 (a) Definition of Micro Nuclear Reactor.—In
- 11 this section, the term "micro nuclear reactor" means a
- 12 nuclear reactor that has a power production capacity that
- 13 is not greater than 50 megawatts.
- 14 (b) Report.—Not later than 180 days after the date
- 15 of enactment of this Act, the Secretary shall submit to
- 16 the Committee on Energy and Natural Resources of the
- 17 Senate and the Committees on Energy and Commerce and
- 18 Science, Space, and Technology of the House of Rep-
- 19 resentatives a report on the plans of the Department to

| reactors. (c) Elements.—The report required by subsection (b) shall address the following: |
|--|
| |
| (b) aball address the following |
| (b) shall address the following: |
| (1) An evaluation by the Department of current |
| resilience and carbon reduction requirements for en- |
| ergy for facilities of the Department to determine |
| whether changes are needed to address— |
| (A) the causes of, and contributing factors |
| for, the February 2021 Electric Reliability |
| Council of Texas power outages; |
| (B) the need to provide uninterrupted |
| power to facilities of the Department for at |
| least 3 days during power grid failures; |
| (C) the need for protection against cyber |
| threats and electromagnetic pulses; and |
| (D) resilience to extreme natural events, |
| including earthquakes, volcanic activity, tor- |
| nados, hurricanes, floods, tsunamis, seiches, a |
| large quantity of snowfall, and very low or high |
| temperatures. |
| (2) A strategy of the Department for using nu- |
| clear energy to meet resilience and carbon reduction |
| goals of facilities of the Department. |
| |

| 1 | (3) A strategy to partner with private industry |
|----|---|
| 2 | to develop and deploy micro nuclear reactors to re- |
| 3 | mote communities in order to replace diesel genera- |
| 4 | tion and other fossil fuels. |
| 5 | (4) An assessment by the Department of the |
| 6 | value associated with enhancing the resilience of a |
| 7 | facility of the Department by transitioning to power |
| 8 | from micro nuclear reactors and to co-located nu- |
| 9 | clear facilities with the capability to provide dedi- |
| 10 | cated power to the facility of the Department during |
| 11 | a grid outage or failure. |
| 12 | (5) The plans of the Department— |
| 13 | (A) for deploying a micro nuclear reactor |
| 14 | at a facility of the Department in the United |
| 15 | States by 2026; and |
| 16 | (B) to include micro nuclear reactors in |
| 17 | the planning for meeting future facility energy |
| 18 | needs. |
| 19 | SEC. 3202. PROPERTY INTERESTS RELATING TO CERTAIN |
| 20 | PROJECTS AND PROTECTION OF INFORMA- |
| 21 | TION RELATING TO CERTAIN AGREEMENTS. |
| 22 | (a) Property Interests Relating to Feder- |
| 23 | ALLY FUNDED ADVANCED NUCLEAR REACTOR |
| 24 | Projects.— |
| 25 | (1) Definitions.—In this section: |

| 1 | (A) ADVANCED NUCLEAR REACTOR.—The |
|----|---|
| 2 | term "advanced nuclear reactor" has the mean- |
| 3 | ing given the term in section 951(b) of the En- |
| 4 | ergy Policy Act of 2005 (42 U.S.C. 16271(b)) |
| 5 | (B) Property interest.— |
| 6 | (i) In general.—Except as provided |
| 7 | in clause (ii), the term "property interest" |
| 8 | means any interest in real property or per- |
| 9 | sonal property (as those terms are defined |
| 10 | in section 200.1 of title 2, Code of Federa |
| 11 | Regulations (as in effect on the date of en- |
| 12 | actment of this Act)). |
| 13 | (ii) Exclusion.—The term "property |
| 14 | interest" does not include any interest in |
| 15 | intellectual property developed using fund- |
| 16 | ing provided under a project described in |
| 17 | paragraph (3). |
| 18 | (2) Assignment of Property interests.— |
| 19 | The Secretary may assign to any entity, including |
| 20 | the United States, fee title or any other property in |
| 21 | terest acquired by the Secretary under an agreement |
| 22 | entered into with respect to a project described in |
| 23 | paragraph (3). |
| 24 | (3) Project described.—A project referred |
| 25 | to in paragraph (2) is— |

| I | (A) a project for which funding is provided |
|----|--|
| 2 | pursuant to the funding opportunity announce- |
| 3 | ment of the Department numbered DE-FOA- |
| 4 | 0002271, including any project for which fund- |
| 5 | ing has been provided pursuant to that an- |
| 6 | nouncement as of the date of enactment of this |
| 7 | Act; |
| 8 | (B) any other project for which funding is |
| 9 | provided using amounts made available for the |
| 10 | Advanced Reactor Demonstration Program of |
| 11 | the Department under the heading "Nuclean |
| 12 | Energy" under the heading "ENERGY PRO- |
| 13 | GRAMS" in title III of division C of the Fur- |
| 14 | ther Consolidated Appropriations Act, 2020 |
| 15 | (Public Law 116–94; 133 Stat. 2670); |
| 16 | (C) any other project for which Federal |
| 17 | funding is provided under the Advanced Reac- |
| 18 | tor Demonstration Program of the Department |
| 19 | or |
| 20 | (D) a project— |
| 21 | (i) relating to advanced nuclear reac- |
| 22 | tors; and |
| 23 | (ii) for which Federal funding is pro- |
| 24 | vided under a program that is similar to |
| 25 | or a successor of, the Advanced Reactor |

| 1 | Demonstration Program of the Depart- |
|----|---|
| 2 | ment. |
| 3 | (4) Retroactive vesting.—The vesting of fee |
| 4 | title or any other property interest assigned under |
| 5 | paragraph (2) shall be retroactive to the date on |
| 6 | which the applicable project first received Federal |
| 7 | funding as described in any of subparagraphs (A) |
| 8 | through (D) of paragraph (3). |
| 9 | (b) Considerations in Cooperative Research |
| 10 | AND DEVELOPMENT AGREEMENTS.— |
| 11 | (1) In general.—Section 12(c)(7)(B) of the |
| 12 | Stevenson-Wydler Technology Innovation Act of |
| 13 | 1980 (15 U.S.C. 3710a(c)(7)(B)) is amended— |
| 14 | (A) by inserting "(i)" after "(B)"; |
| 15 | (B) in clause (i), as so designated, by |
| 16 | striking "The director" and inserting "Subject |
| 17 | to clause (ii), the director"; and |
| 18 | (C) by adding at the end the following: |
| 19 | "(II) The agency may authorize |
| 20 | the director to provide appropriate |
| 21 | protections against dissemination de- |
| 22 | scribed in clause (i) for a total period |
| 23 | of not more than 30 years if the agen- |
| 24 | cy determines that the nature of the |
| 25 | information protected against dissemi- |

| 1 | nation, including nuclear technology, |
|----|--|
| 2 | could reasonably require an extended |
| 3 | period of that protection to reach |
| 4 | commercialization.". |
| 5 | (2) Applicability.— |
| 6 | (A) DEFINITION.—In this subsection, the |
| 7 | term "cooperative research and development |
| 8 | agreement" has the meaning given the term in |
| 9 | section 12(d) of the Stevenson-Wydler Tech- |
| 10 | nology Innovation Act of 1980 (15 U.S.C. |
| 11 | 3710a(d)). |
| 12 | (B) Retroactive effect.—Clause (ii) of |
| 13 | section 12(c)(7)(B) of the Stevenson-Wydler |
| 14 | Technology Innovation Act of 1980 (15 U.S.C. |
| 15 | 3710a(c)(7)(B)), as added by subsection (a) of |
| 16 | this section, shall apply with respect to any co- |
| 17 | operative research and development agreement |
| 18 | that is in effect as of the day before the date |
| 19 | of enactment of this Act. |
| 20 | (c) Department of Energy Contracts.—Section |
| 21 | 646(g)(5) of the Department of Energy Organization Act |
| 22 | (42 U.S.C. 7256(g)(5)) is amended— |
| 23 | (1) by striking "(5) The Secretary" and insert- |
| 24 | ing the following: |
| 25 | "(5) Protection from disclosure.— |

| 1 | "(A) IN GENERAL.—The Secretary"; and |
|----|---|
| 2 | (2) in subparagraph (A) (as so designated)— |
| 3 | (A) by striking ", for up to 5 years after |
| 4 | the date on which the information is devel- |
| 5 | oped,"; and |
| 6 | (B) by striking "agency." and inserting |
| 7 | the following: "agency— |
| 8 | "(i) for up to 5 years after the date |
| 9 | on which the information is developed; or |
| 10 | "(ii) for up to 30 years after the date |
| 11 | on which the information is developed, if |
| 12 | the Secretary determines that the nature |
| 13 | of the technology under the transaction, in- |
| 14 | cluding nuclear technology, could reason- |
| 15 | ably require an extended period of protec- |
| 16 | tion from disclosure to reach commer- |
| 17 | cialization. |
| 18 | "(B) Extension during term.—The |
| 19 | Secretary may extend the period of protection |
| 20 | from disclosure during the term of any trans- |
| 21 | action described in subparagraph (A) in accord- |
| 22 | ance with that subparagraph.". |
| 23 | SEC. 3203. CIVIL NUCLEAR CREDIT PROGRAM. |
| 24 | (a) Definitions.—In this section: |

| 1 | (1) CERTIFIED NUCLEAR REACTOR.—The term |
|----|---|
| 2 | "certified nuclear reactor" means a nuclear reactor |
| 3 | that— |
| 4 | (A) competes in a competitive electricity |
| 5 | market; and |
| 6 | (B) is certified under subsection |
| 7 | (c)(2)(A)(i) to submit a sealed bid in accord- |
| 8 | ance with subsection (d). |
| 9 | (2) Credit.—The term "credit" means a credit |
| 10 | allocated to a certified nuclear reactor under sub- |
| 11 | section $(e)(2)$. |
| 12 | (b) Establishment of Program.—The Secretary |
| 13 | shall establish a civil nuclear credit program— |
| 14 | (1) to evaluate nuclear reactors that are pro- |
| 15 | jected to cease operations due to economic factors; |
| 16 | and |
| 17 | (2) to allocate credits to certified nuclear reac- |
| 18 | tors that are selected under paragraph (1)(B) of |
| 19 | subsection (e) to receive credits under paragraph (2) |
| 20 | of that subsection. |
| 21 | (e) Certification.— |
| 22 | (1) Application.— |
| 23 | (A) IN GENERAL.—In order to be certified |
| 24 | under paragraph (2)(A)(i), the owner or oper- |
| 25 | ator of a nuclear reactor that is projected to |

| 1 | cease operations due to economic factors shall |
|----|---|
| 2 | submit to the Secretary an application at such |
| 3 | time, in such manner, and containing such in- |
| 4 | formation as the Secretary determines to be ap- |
| 5 | propriate, including— |
| 6 | (i) information on the operating costs |
| 7 | necessary to make the determination de- |
| 8 | scribed in paragraph (2)(A)(ii)(I), includ- |
| 9 | ing— |
| 10 | (I) the average projected annual |
| 11 | operating loss in dollars per mega- |
| 12 | watt-hour expected to be incurred by |
| 13 | the nuclear reactor over the 4-year pe- |
| 14 | riod for which credits would be allo- |
| 15 | cated; |
| 16 | (II) any private or publicly avail- |
| 17 | able data with respect to current or |
| 18 | projected bulk power market prices; |
| 19 | (III) out-of-market revenue |
| 20 | streams; |
| 21 | (IV) operations and maintenance |
| 22 | costs; |
| 23 | (V) capital costs, including fuel; |
| 24 | and |

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| | 224 |
| 1 | (VI) operational and market |
| 2 | risks; |
| 3 | (ii) an estimate of the potential incre- |
| 4 | mental air pollutants that would result if |
| 5 | the nuclear reactor were to cease oper- |
| 6 | ations; |
| 7 | (iii) known information on the source |
| 8 | of produced uranium and the location |
| 9 | where the uranium is converted, enriched, |
| 10 | and fabricated into fuel assemblies for the |
| 11 | nuclear reactor for the 4-year period for |
| 12 | which credits would be allocated; and |
| 13 | (iv) a detailed plan to sustain oper- |
| 14 | ations at the conclusion of the applicable |
| 15 | 4-year period for which credits would be |
| 16 | allocated— |
| 17 | (I) without receiving additional |
| 18 | credits; or |
| 19 | (II) with the receipt of additional |
| 20 | credits of a lower amount than the |
| 21 | credits allocated during that 4-year |
| 22 | credit period. |
| 23 | (B) TIMELINE.—The Secretary shall ac- |
| 24 | cept applications described in subparagraph |
| 25 | (A)— |

factors; and

| 1 | (II) after considering the esti- |
|----|--|
| 2 | mate submitted under paragraph |
| 3 | (1)(A)(ii), the Secretary determines |
| 4 | that pollutants would increase if the |
| 5 | nuclear reactor were to cease oper- |
| 6 | ations and be replaced with other |
| 7 | types of power generation. |
| 8 | (iii) Priority.—In determining |
| 9 | whether to certify a nuclear reactor under |
| 10 | clause (i), the Secretary shall give priority |
| 11 | to a nuclear reactor that uses uranium |
| 12 | that is produced, converted, enriched, and |
| 13 | fabricated into fuel assemblies in the |
| 14 | United States. |
| 15 | (B) Notice.—For each application re- |
| 16 | ceived under paragraph (1)(A), the Secretary |
| 17 | shall provide to the applicable owner or oper- |
| 18 | ator, as applicable— |
| 19 | (i) a notice of the certification of the |
| 20 | applicable nuclear reactor; or |
| 21 | (ii) a notice that describes the reasons |
| 22 | why the certification of the applicable nu- |
| 23 | clear reactor was denied. |
| 24 | (d) Bidding Process.— |

| 1 | (1) In General.—Subject to paragraph (2) |
|----|--|
| 2 | the Secretary shall establish a deadline by which |
| 3 | each certified nuclear reactor shall submit to the |
| 4 | Secretary a sealed bid that— |
| 5 | (A) describes the price per megawatt-hour |
| 6 | required to maintain operations of the certified |
| 7 | nuclear reactor during the 4-year period for |
| 8 | which the certified nuclear reactor would receive |
| 9 | credits; and |
| 10 | (B) includes a commitment, subject to the |
| 11 | receipt of credits, to provide a specific number |
| 12 | of megawatt-hours of generation during the 4- |
| 13 | year period for which credits would be allocated |
| 14 | (2) REQUIREMENT.—The deadline established |
| 15 | under paragraph (1) shall be not later than 30 days |
| 16 | after the first date on which the Secretary has made |
| 17 | the determination described in paragraph (2)(A)(i) |
| 18 | of subsection (c) with respect to each application |
| 19 | submitted under paragraph (1)(A) of that sub- |
| 20 | section. |
| 21 | (e) Allocation.— |
| 22 | (1) Auction.—Notwithstanding section 169 of |
| 23 | the Atomic Energy Act of 1954 (42 U.S.C. 2209). |
| 24 | the Secretary shall— |

| 1 | (A) in consultation with the heads of appli- |
|----|--|
| 2 | cable Federal agencies, establish a process for |
| 3 | evaluating bids submitted under subsection |
| 4 | (d)(1) through an auction process; and |
| 5 | (B) select certified nuclear reactors to be |
| 6 | allocated credits. |
| 7 | (2) Credits.—Subject to subsection (f)(2), or |
| 8 | selection under paragraph (1), a certified nuclear re- |
| 9 | actor shall be allocated credits for a 4-year period |
| 10 | beginning on the date of the selection. |
| 11 | (3) Requirement.—To the maximum extent |
| 12 | practicable, the Secretary shall use the amounts |
| 13 | made available for credits under this section to allo- |
| 14 | cate credits to as many certified nuclear reactors as |
| 15 | possible. |
| 16 | (f) Renewal.— |
| 17 | (1) In general.—The owner or operator of a |
| 18 | certified nuclear reactor may seek to recertify the |
| 19 | nuclear reactor in accordance with this section. |
| 20 | (2) Limitation.—Notwithstanding any other |
| 21 | provision of this section, the Secretary may not allo- |
| 22 | cate any credits after September 30, 2031. |
| 23 | (g) Additional Requirements.— |
| 24 | (1) Audit.—During the 4-year period begin- |
| 25 | ning on the date on which a certified nuclear reactor |

| 1 | first receives a credit, the Secretary shall periodically |
|----|--|
| 2 | audit the certified nuclear reactor. |
| 3 | (2) RECAPTURE.—The Secretary shall, by regu- |
| 4 | lation, provide for the recapture of the allocation of |
| 5 | any credit to a certified nuclear reactor that, during |
| 6 | the period described in paragraph (1)— |
| 7 | (A) terminates operations; or |
| 8 | (B) does not operate at an annual loss in |
| 9 | the absence of an allocation of credits to the |
| 10 | certified nuclear reactor. |
| 11 | (3) Confidentiality.—The Secretary shall es- |
| 12 | tablish procedures to ensure that any confidential, |
| 13 | private, proprietary, or privileged information that is |
| 14 | included in a sealed bid submitted under this section |
| 15 | is not publicly disclosed or otherwise improperly |
| 16 | used. |
| 17 | (h) Report.—Not later than January 1, 2024, the |
| 18 | Comptroller General of the United States shall submit to |
| 19 | Congress a report with respect to the credits allocated to |
| 20 | certified nuclear reactors, which shall include— |
| 21 | (1) an evaluation of the effectiveness of the |
| 22 | credits in avoiding air pollutants while ensuring grid |
| 23 | reliability; |
| 24 | (2) a quantification of the ratepayer savings |
| 25 | achieved under this section; and |

| 1 | (3) any recommendations to renew or expand |
|----|---|
| 2 | the credits. |
| 3 | (i) APPROPRIATIONS.—In addition to amounts other- |
| 4 | wise made available, there is appropriated to the Secretary |
| 5 | to carry out this section, out of any amounts in the Treas- |
| 6 | ury not otherwise appropriated, $\$1,200,000,000$ for each |
| 7 | of fiscal years 2022 through 2026. |
| 8 | Subtitle D—Miscellaneous |
| 9 | SEC. 3301. SOLAR ENERGY TECHNOLOGIES ON CURRENT |
| 10 | AND FORMER MINE LAND. |
| 11 | Section 3004 of the Energy Act of 2020 (42 U.S.C. |
| 12 | 16238) is amended— |
| 13 | (1) in subsection (a)— |
| 14 | (A) by redesignating paragraphs (6) |
| 15 | through (15) as paragraphs (7) through (16), |
| 16 | respectively; and |
| 17 | (B) by inserting after paragraph (5) the |
| 18 | following: |
| 19 | "(6) MINE LAND.—The term 'mine land' means |
| 20 | land subject to title V of the Surface Mining Control |
| 21 | and Reclamation Act of 1977 (30 U.S.C. 1251 et |
| 22 | seq.)."; and |
| 23 | (2) in subsection (b)(6)(B)— |
| 24 | (A) in the matter preceding clause (i), by |
| 25 | inserting ", in consultation with the Secretary |

| 1 | of the Interior and the Administrator of the |
|----------|--|
| 2 | Environmental Protection Agency for purposes |
| 3 | of clause (iv)," after "the Secretary"; |
| 4 | (B) in clause (iii), by striking "and" after |
| 5 | the semicolon; |
| 6 | (C) by redesignating clause (iv) as clause |
| 7 | (v); and |
| 8 | (D) by inserting after clause (iii) the fol- |
| 9 | lowing: |
| 10 | "(iv) a description of the technical |
| 11 | and economic viability of siting solar en- |
| 12 | ergy technologies on current and former |
| 13 | mine land, including necessary interconnec- |
| 14 | tion and transmission siting; and". |
| 15 | SEC. 3302. CLEAN ENERGY DEMONSTRATION PROGRAM ON |
| 16 | CURRENT AND FORMER MINE LAND. |
| 17 | (a) Definitions.—In this section: |
| 18 | (1) CLEAN ENERGY PROJECT.—The term |
| 19 | "clean energy project" means a project that dem- |
| 20 | onstrates 1 or more of the following technologies: |
| 21 | (A) Solar. |
| | |
| 22 | (B) Micro-grids. |
| 22 23 | (B) Micro-grids.(C) Geothermal. |

| 1 | (E) Fossil-fueled electricity generation with |
|----|---|
| 2 | carbon capture, utilization, and sequestration. |
| 3 | (F) Energy storage, including pumped |
| 4 | storage hydropower and compressed air storage |
| 5 | (G) Advanced nuclear technologies. |
| 6 | (2) Economically distressed area.—The |
| 7 | term "economically distressed area" means an area |
| 8 | described in section 301(a) of the Public Works and |
| 9 | Economic Development Act of 1965 (42 U.S.C |
| 10 | 3161(a)). |
| 11 | (3) MINE LAND.—The term "mine land" means |
| 12 | land subject to title V of the Surface Mining Control |
| 13 | and Reclamation Act of 1977 (30 U.S.C. 1251 et |
| 14 | seq.). |
| 15 | (4) Program.—The term "program" means |
| 16 | the demonstration program established under sub- |
| 17 | section (b). |
| 18 | (b) Establishment.—The Secretary shall establish |
| 19 | a program to demonstrate the technical and economic via |
| 20 | bility of carrying out clean energy projects on current and |
| 21 | former mine land. |
| 22 | (c) Selection of Demonstration Projects.— |
| 23 | (1) In general.—In carrying out the program |
| 24 | the Secretary shall select not more than 3 clean en- |

| 1 | ergy projects, to be carried out in geographically di- |
|----|--|
| 2 | verse regions. |
| 3 | (2) Eligibility.—To be eligible to be selected |
| 4 | for participation in the program under paragraph |
| 5 | (1), a clean energy project shall demonstrate, as de- |
| 6 | termined by the Secretary, a technology on a current |
| 7 | or former mine land site with a reasonable expecta- |
| 8 | tion of commercial viability. |
| 9 | (3) Priority.—In selecting clean energy |
| 10 | projects for participation in the program under |
| 11 | paragraph (1), the Secretary shall prioritize clean |
| 12 | energy projects that will— |
| 13 | (A) be carried out in a location where the |
| 14 | greatest number of jobs can be created from the |
| 15 | successful demonstration of the clean energy |
| 16 | project; |
| 17 | (B) provide the greatest net impact in |
| 18 | avoiding or reducing anthropogenic emissions of |
| 19 | greenhouse gases; |
| 20 | (C) provide the greatest domestic job cre- |
| 21 | ation (both directly and indirectly) during the |
| 22 | implementation of the clean energy project; |
| 23 | (D) provide the greatest job creation and |
| 24 | economic development in the vicinity of the |
| 25 | clean energy project, particularly— |

| 1 | (i) in economically distressed areas |
|----|---|
| 2 | and |
| 3 | (ii) with respect to dislocated workers |
| 4 | who were previously employed in manufac- |
| 5 | turing, coal power plants, or coal mining |
| 6 | (E) have the greatest potential for techno- |
| 7 | logical innovation and commercial deployment; |
| 8 | (F) have the lowest levelized cost of gen- |
| 9 | erated or stored energy; |
| 10 | (G) have the lowest rate of greenhouse gas |
| 11 | emissions per unit of electricity generated or |
| 12 | stored; and |
| 13 | (H) have the shortest project time from |
| 14 | permitting to completion. |
| 15 | (4) Project selection.—The Secretary shall |
| 16 | solicit proposals for clean energy projects and select |
| 17 | clean energy project finalists in consultation with the |
| 18 | Secretary of the Interior, the Administrator of the |
| 19 | Environmental Protection Agency, and the Secretary |
| 20 | of Labor. |
| 21 | (d) Consultation.—The Secretary shall consult |
| 22 | with the Director of the Office of Surface Mining Rec- |
| 23 | lamation and Enforcement and the Administrator of the |
| 24 | Environmental Protection Agency, acting through the Of- |
| 25 | fice of Brownfields and Land Revitalization, to determine |

- 1 whether it is necessary to promulgate regulations or issue
- 2 guidance in order to prioritize and expedite the siting of
- 3 clean energy projects on current and former mine land
- 4 sites.
- 5 (e) Technical Assistance.—The Secretary shall
- 6 provide technical assistance to project applicants selected
- 7 for participation in the program under subsection (c) to
- 8 assess the needed interconnection, transmission, and other
- 9 grid components and permitting and siting necessary to
- 10 interconnect, on current and former mine land where the
- 11 project will be sited, any generation or storage with the
- 12 electric grid.
- 13 (f) APPROPRIATIONS.—In addition to amounts other-
- 14 wise made available, there is appropriated to the Secretary
- 15 to carry out this section, out of any amounts in the Treas-
- 16 ury not otherwise appropriated, \$100,000,000 for each of
- 17 fiscal years 2022 through 2026.
- 18 SEC. 3303. STUDY AND REPORT ON HYPERLOOP TECH-
- 19 **NOLOGIES.**
- 20 (a) IN GENERAL.—Not later than 1 year after the
- 21 date of enactment of this Act, the Secretary shall conduct,
- 22 and submit to Congress a report describing the results of,
- 23 a study on the opportunities for, and barriers to, deploying
- 24 hyperloop technologies in the United States.

| 1 | (b) Inclusions.—The report submitted under sub- |
|----|---|
| 2 | section (a) shall include— |
| 3 | (1) a description of any current research and |
| 4 | development activities carried out by the Depart- |
| 5 | ment with respect to hyperloop technologies; |
| 6 | (2) recommendations for future research, devel- |
| 7 | opment, and demonstration and funding needs to |
| 8 | support the utilization and scale-up of hyperloop |
| 9 | technologies; |
| 10 | (3) identifications of sites that would be suit- |
| 11 | able for research, development, and demonstration |
| 12 | projects relating to hyperloop technologies; and |
| 13 | (4) a description of the potential for job cre- |
| 14 | ation and workforce needs if hyperloop technologies |
| 15 | were deployed. |
| 16 | SEC. 3304. HYDROPOWER. |
| 17 | In addition to amounts otherwise made available, |
| 18 | there is appropriated to the Secretary to carry out activi- |
| 19 | ties under sections 242 and 243 of the Energy Policy Act |
| 20 | of 2005 (42 U.S.C. 15881, 15882), out of any amounts |
| 21 | in the Treasury not otherwise appropriated, |
| 22 | \$2,253,600,000 for the period of fiscal years 2022 |
| 23 | through 2026. |
| | |

| 1 | TITLE IV—ENABLING ENERGY |
|----|---|
| 2 | INFRASTRUCTURE INVEST- |
| 3 | MENT AND DATA COLLEC- |
| 4 | TION |
| 5 | Subtitle A—Department of Energy |
| 6 | Loan Program |
| 7 | SEC. 4001. DEPARTMENT OF ENERGY LOAN PROGRAMS. |
| 8 | (a) TITLE XVII INNOVATIVE ENERGY LOAN GUAR- |
| 9 | ANTEE PROGRAM.— |
| 10 | (1) Reasonable prospect of repayment.— |
| 11 | Section 1702(d)(1) of the Energy Policy Act of 2005 |
| 12 | (42 U.S.C. 16512(d)(1)) is amended— |
| 13 | (A) by striking the paragraph designation |
| 14 | and heading and all that follows through "No |
| 15 | guarantee" and inserting the following: |
| 16 | "(1) Requirement.— |
| 17 | "(A) IN GENERAL.—No guarantee"; and |
| 18 | (B) by adding at the end the following: |
| 19 | "(B) Reasonable prospect of repay- |
| 20 | MENT.—The Secretary shall base a determina- |
| 21 | tion of whether there is reasonable prospect of |
| 22 | repayment under subparagraph (A) on a com- |
| 23 | prehensive evaluation of whether the borrower |
| 24 | has a reasonable prospect of repaying the guar- |

| 1 | anteed obligation for the eligible project, includ- |
|----|---|
| 2 | ing an evaluation of— |
| 3 | "(i) the strength of the contractual |
| 4 | terms of the eligible project (if commer- |
| 5 | cially reasonably available); |
| 6 | "(ii) the forecast of noncontractual |
| 7 | cash flows supported by market projections |
| 8 | from reputable sources, as determined by |
| 9 | the Secretary; |
| 10 | "(iii) cash sweeps and other structure |
| 11 | enhancements; |
| 12 | "(iv) the projected financial strength |
| 13 | of the borrower— |
| 14 | "(I) at the time of loan close; |
| 15 | and |
| 16 | "(II) throughout the loan term |
| 17 | after the project is completed; |
| 18 | "(v) the financial strength of the in- |
| 19 | vestors and strategic partners of the bor- |
| 20 | rower, if applicable; and |
| 21 | "(vi) other financial metrics and anal- |
| 22 | yses that are relied on by the private lend- |
| 23 | ing community and nationally recognized |
| 24 | credit rating agencies, as determined ap- |
| 25 | propriate by the Secretary.". |

| 1 | (2) Loan guarantees for projects that |
|----|---|
| 2 | INCREASE THE DOMESTIC SUPPLY OF CRITICAL MIN- |
| 3 | ERALS.—Section 1703(b) of the Energy Policy Act |
| 4 | of 2005 (42 U.S.C. 16513(b)) is amended by adding |
| 5 | at the end the following: |
| 6 | "(13) Projects that increase the domestic sup- |
| 7 | ply of critical minerals (as defined in section |
| 8 | 7002(a) of the Energy Act of 2020 (30 U.S.C. |
| 9 | 1606(a)), including through the production, proc- |
| 10 | essing, manufacturing, recycling, or fabrication of |
| 11 | mineral alternatives.". |
| 12 | (b) Advanced Technology Vehicle Manufac- |
| 13 | TURING.— |
| 14 | (1) Eligibility.—Section 136(a)(1) of the En- |
| 15 | ergy Independence and Security Act of 2007 (42 |
| 16 | U.S.C. 17013(a)(1)) is amended— |
| 17 | (A) in subparagraph (C), by striking the |
| 18 | period at the end and inserting a semicolon; |
| 19 | (B) by redesignating subparagraphs (A) |
| 20 | through (C) as clauses (i) through (iii), respec- |
| 21 | tively, and indenting appropriately; |
| 22 | (C) in the matter preceding clause (i) (as |
| 23 | so redesignated), by striking "means an ultra" |
| 24 | and inserting the following: "means— |
| 25 | "(A) an ultra"; and |

| 1 | (D) by adding at the end the following: |
|----|---|
| 2 | "(B) a medium duty vehicle or a heavy |
| 3 | duty vehicle that exceeds 125 percent of the |
| 4 | greenhouse gas emissions and fuel efficiency |
| 5 | standards established by the final rule of the |
| 6 | Environmental Protection Agency entitled |
| 7 | 'Greenhouse Gas Emissions and Fuel Efficiency |
| 8 | Standards for Medium- and Heavy-Duty En- |
| 9 | gines and Vehicles—Phase 2' (81 Fed. Reg. |
| 10 | 73478 (October 25, 2016)); |
| 11 | "(C) a train or locomotive; |
| 12 | "(D) marine transportation; and |
| 13 | "(E) hyperloop technology.". |
| 14 | (2) Reasonable prospect of repayment.— |
| 15 | Section 136(d) of the Energy Independence and Se- |
| 16 | curity Act of 2007 (42 U.S.C. 17013(d)) is amend- |
| 17 | ed |
| 18 | (A) by striking paragraph (3) and insert- |
| 19 | ing the following: |
| 20 | "(3) Selection of eligible projects.— |
| 21 | "(A) IN GENERAL.—The Secretary shall |
| 22 | select eligible projects to receive loans under |
| 23 | this subsection if the Secretary determines |
| 24 | that— |
| 25 | "(i) the loan recipient— |

(B) in paragraph (4)—

| 1 | (i) in subparagraph (C), by striking |
|----|---|
| 2 | "and" after the semicolon; |
| 3 | (ii) in subparagraph (D), by striking |
| 4 | the period at the end and inserting "; |
| 5 | and"; and |
| 6 | (iii) by adding at the end the fol- |
| 7 | lowing: |
| 8 | "(E) shall be subject to the condition that |
| 9 | the loan is not subordinate to other financing.". |
| 10 | (3) Additional reforms.—Section 136 of the |
| 11 | Energy Independence and Security Act of 2007 (42 |
| 12 | U.S.C. 17013) is amended— |
| 13 | (A) in subsection (h)— |
| 14 | (i) in the subsection heading, by strik- |
| 15 | ing "Automobile" and inserting "Ad- |
| 16 | VANCED TECHNOLOGY VEHICLE"; and |
| 17 | (ii) in paragraph (1)(B), by striking |
| 18 | "automobiles, or components of auto- |
| 19 | mobiles" and inserting "advanced tech- |
| 20 | nology vehicles, or components of advanced |
| 21 | technology vehicles"; |
| 22 | (B) by striking subsection (i); |
| 23 | (C) by redesignating subsection (j) as sub- |
| 24 | section (i); and |
| 25 | (D) by adding at the end the following: |

| 1 | "(j) Coordination.—In carrying out this section, |
|----|--|
| 2 | the Secretary shall coordinate with relevant vehicle, bio- |
| 3 | energy, and hydrogen and fuel cell demonstration project |
| 4 | activities supported by the Department. |
| 5 | "(k) Outreach.—In carrying out this section, the |
| 6 | Secretary shall— |
| 7 | "(1) provide assistance with the completion of |
| 8 | applications for awards or loans under this section; |
| 9 | and |
| 10 | "(2) conduct outreach, including through con- |
| 11 | ferences and online programs, to disseminate infor- |
| 12 | mation on awards and loans under this section to |
| 13 | potential applicants. |
| 14 | "(l) Report.—Not later than 2 years after the date |
| 15 | of enactment of this subsection, and every 3 years there- |
| 16 | after, the Secretary shall submit to Congress a report on |
| 17 | the status of projects supported by a loan under this sec- |
| 18 | tion, including— |
| 19 | "(1) a list of projects receiving a loan under |
| 20 | this section, including the loan amount and con- |
| 21 | struction status of each project; |
| 22 | "(2) the status of the loan repayment for each |
| 23 | project, including future repayment projections; |

| 1 | "(3) data regarding the number of direct and |
|----|--|
| 2 | indirect jobs retained, restored, or created by fi- |
| 3 | nanced projects; |
| 4 | "(4) the number of new projects projected to |
| 5 | receive a loan under this section in the next 2 years, |
| 6 | including the projected aggregate loan amount over |
| 7 | the next 2 years; |
| 8 | "(5) evaluation of ongoing compliance with the |
| 9 | assurances and commitments, and of the predictions, |
| 10 | made by applicants pursuant to paragraphs (2) and |
| 11 | (3) of subsection (d); |
| 12 | "(6) the total number of applications received |
| 13 | by the Department each year; and |
| 14 | "(7) any other metrics the Secretary determines |
| 15 | appropriate.". |
| 16 | Subtitle B—Energy Information |
| 17 | Administration |
| 18 | SEC. 4101. DEFINITIONS. |
| 19 | In this subtitle: |
| 20 | (1) Administrator.—The term "Adminis- |
| 21 | trator" means the Administrator of the Energy In- |
| 22 | formation Administration. |
| 23 | (2) Annual critical minerals outlook.— |
| 24 | The term "Annual Critical Minerals Outlook" means |
| 25 | the Annual Critical Minerals Outlook prepared |

| 1 | under section $7002(j)(1)(B)$ of the Energy Act of |
|----|--|
| 2 | 2020 (30 U.S.C. 1606(j)(1)(B)). |
| 3 | (3) Critical Mineral.—The term "critical |
| 4 | mineral" has the meaning given the term in section |
| 5 | 7002(a) of the Energy Act of 2020 (30 U.S.C. |
| 6 | 1606(a)). |
| 7 | (4) Household energy burden.—The term |
| 8 | "household energy burden" means the quotient ob- |
| 9 | tained by dividing— |
| 10 | (A) the residential energy expenditures (as |
| 11 | defined in section 440.3 of title 10, Code of |
| 12 | Federal Regulations (as in effect on the date of |
| 13 | enactment of this Act)) of the applicable house- |
| 14 | hold; by |
| 15 | (B) the annual income of that household. |
| 16 | (5) Household with a high energy bur- |
| 17 | DEN.—The term "household with a high energy bur- |
| 18 | den" has the meaning given the term in section |
| 19 | 440.3 of title 10, Code of Federal Regulations (as |
| 20 | in effect on the date of enactment of this Act). |
| 21 | (6) Large manufacturing facility.—The |
| 22 | term "large manufacturing facility" means a manu- |
| 23 | facturing facility that— |
| 24 | (A) annually consumes more than 35,000 |
| 25 | megawatt-hours of electricity; or |

| 1 | (B) has a peak power demand of more |
|----|--|
| 2 | than 10 megawatts. |
| 3 | (7) Load-serving entity.—The term "load- |
| 4 | serving entity" has the meaning given the term in |
| 5 | section 217(a) of the Federal Power Act (16 U.S.C. |
| 6 | 824q(a)). |
| 7 | (8) MISCELLANEOUS ELECTRIC LOAD.—The |
| 8 | term "miscellaneous electric load" means electricity |
| 9 | that— |
| 10 | (A) is used by an appliance or device— |
| 11 | (i) within a building; or |
| 12 | (ii) to serve a building; and |
| 13 | (B) is not used for heating, ventilation, air |
| 14 | conditioning, lighting, water heating, or refrig- |
| 15 | eration. |
| 16 | (9) Regional transmission organization.— |
| 17 | The term "Regional Transmission Organization" |
| 18 | has the meaning given the term in section 3 of the |
| 19 | Federal Power Act (16 U.S.C. 796). |
| 20 | (10) Rural area.—The term "rural area" |
| 21 | means a city, town, or unincorporated area that has |
| 22 | a population of not more than 10,000 inhabitants. |
| 23 | SEC. 4102. DATA COLLECTION IN THE ELECTRICITY SEC- |
| 24 | TOR. |
| 25 | (a) Dashboard.— |

| 1 | (1) Establishment.— |
|----|---|
| 2 | (A) In general.—Not later than 90 days |
| 3 | after the date of enactment of this Act, the Ad- |
| 4 | ministrator shall establish an online database to |
| 5 | track the operation of the bulk power system in |
| 6 | the contiguous 48 States (referred to in this |
| 7 | section as the "dashboard"). |
| 8 | (B) Improvement of existing dash- |
| 9 | BOARD.—The dashboard under subparagraph |
| 10 | (A) may be established through the improve |
| 11 | ment, in accordance with this subsection, of ar |
| 12 | existing dashboard of the Energy Information |
| 13 | Administration, such as— |
| 14 | (i) the U.S. Electric System Oper- |
| 15 | ating Data dashboard; or |
| 16 | (ii) the Hourly Electric Grid Monitor |
| 17 | (2) Expansion.— |
| 18 | (A) IN GENERAL.—Not later than 1 year |
| 19 | after the date of enactment of this Act, the Ad- |
| 20 | ministrator shall expand the dashboard estab- |
| 21 | lished under paragraph (1) to include, to the |
| 22 | maximum extent practicable, hourly operating |
| 23 | data collected from the electricity balancing au- |
| 24 | thorities that operate the bulk power system in |

| 1 | all of the several States, each territory of the |
|----|--|
| 2 | United States, and the District of Columbia. |
| 3 | (B) Types of data.—The hourly oper- |
| 4 | ating data collected under subparagraph (A) |
| 5 | may include data relating to— |
| 6 | (i) total electricity demand; |
| 7 | (ii) electricity demand by subregion; |
| 8 | (iii) short-term electricity demand |
| 9 | forecasts; |
| 10 | (iv) total electricity generation; |
| 11 | (v) net electricity generation by fuel |
| 12 | type, including renewables; |
| 13 | (vi) electricity stored and discharged; |
| 14 | (vii) total net electricity interchange; |
| 15 | (viii) electricity interchange with di- |
| 16 | rectly interconnected balancing authorities; |
| 17 | and |
| 18 | (ix) the estimated marginal green- |
| 19 | house gas emissions per megawatt hour of |
| 20 | electricity generated— |
| 21 | (I) within the metered boundaries |
| 22 | of each balancing authority; and |
| 23 | (II) for each pricing node. |
| 24 | (b) Mix of Energy Sources.— |

| 1 | (1) In general.—Not later than 1 year after |
|----|--|
| 2 | the date of enactment of this Act, the Administrator |
| 3 | shall establish, in accordance with section 4109 and |
| 4 | this subsection, a system to harmonize the operating |
| 5 | data on electricity generation collected under sub- |
| 6 | section (a) with— |
| 7 | (A) measurements of greenhouse gas and |
| 8 | other pollutant emissions collected by the Envi- |
| 9 | ronmental Protection Agency; |
| 10 | (B) other data collected by the Environ- |
| 11 | mental Protection Agency or other relevant |
| 12 | Federal agencies, as the Administrator deter- |
| 13 | mines to be appropriate; and |
| 14 | (C) data collected by State or regional en- |
| 15 | ergy credit registries. |
| 16 | (2) Outcomes.—The system established under |
| 17 | paragraph (1) shall result in an integrated dataset |
| 18 | that includes, for any given time— |
| 19 | (A) the net generation of electricity by |
| 20 | megawatt hour within the metered boundaries |
| 21 | of each balancing authority; and |
| 22 | (B) the average and marginal greenhouse |
| 23 | gas emissions by megawatt hour of electricity |
| 24 | generated within the metered boundaries of |
| 25 | each balancing authority. |

| 1 | (3) Real-time data dissemination.—To the |
|---------------------------------|--|
| 2 | maximum extent practicable, the system established |
| 3 | under paragraph (1) shall disseminate data on a |
| 4 | real-time basis. |
| 5 | (4) Complementary efforts.—The system |
| 6 | established under paragraph (1) shall complement |
| 7 | any existing data dissemination efforts of the Ad- |
| 8 | ministrator that make use of electricity generation |
| 9 | data, such as electricity demand by subregion and |
| 10 | electricity interchange with directly interconnected |
| 11 | balancing authorities. |
| 12 | (e) Observed Characteristics of Bulk Power |
| 13 | System Resource Integration.— |
| 14 | (1) In general.—Not later than 1 year after |
| 15 | the date of enactment of this Act, the Administrator |
| 16 | shall establish a system to provide to the public |
| 17 | timely data on the integration of energy resources |
| 18 | into the bulk power system and the electric distribu- |
| 19 | tion grids in the United States, and the observed ef- |
| 20 | facts of that intermation |
| | fects of that integration. |
| 21 | (2) Requirements.—In carrying out para- |
| 2122 | <u> </u> |
| | (2) Requirements.—In carrying out para- |
| 22 | (2) Requirements.—In carrying out paragraph (1), the Administrator shall seek to improve |

| 1 | (A) thermal generator cycling to accommo- |
|----|--|
| 2 | date intermittent generation; |
| 3 | (B) generation unit self-scheduling prac- |
| 4 | tices; |
| 5 | (C) renewable source curtailment; |
| 6 | (D) utility-scale storage; |
| 7 | (E) load response; |
| 8 | (F) aggregations of distributed energy re- |
| 9 | sources at the distribution system level; |
| 10 | (G) power interchange between directly |
| 11 | connected balancing authorities; |
| 12 | (H) expanding Regional Transmission Or- |
| 13 | ganization balancing authorities; |
| 14 | (I) improvements in real-time— |
| 15 | (i) accuracy of locational marginal |
| 16 | prices; and |
| 17 | (ii) signals to flexible demand; and |
| 18 | (J) disruptions to grid operations, includ- |
| 19 | ing disruptions caused by cyber sources, phys- |
| 20 | ical sources, extreme weather events, or other |
| 21 | sources. |
| 22 | (d) Distribution System Operations.— |
| 23 | (1) In general.—Not later than 1 year after |
| 24 | the date of enactment of this Act, the Administrator |
| 25 | shall establish a system to provide to the public |

| 1 | timely data on the operations of load-serving entities |
|----|--|
| 2 | in the electricity grids of the United States. |
| 3 | (2) Requirements.— |
| 4 | (A) In general.—In carrying out para- |
| 5 | graph (1), the Administrator shall— |
| 6 | (i) not less frequently than annually, |
| 7 | provide data on— |
| 8 | (I) the delivered generation re- |
| 9 | source mix for each load-serving enti- |
| 10 | ty; and |
| 11 | (II) the distributed energy re- |
| 12 | sources operating within each service |
| 13 | area of a load-serving entity; |
| 14 | (ii) harmonize the data on delivered |
| 15 | generation resource mix described in clause |
| 16 | (i)(I) with measurements of greenhouse |
| 17 | gas emissions collected by the Environ- |
| 18 | mental Protection Agency; |
| 19 | (iii) to the maximum extent prac- |
| 20 | ticable, disseminate the data described in |
| 21 | clause (i)(I) and the harmonized data de- |
| 22 | scribed in clause (ii) on a real-time basis; |
| 23 | and |
| 24 | (iv) provide historical data, beginning |
| 25 | with the earliest calendar year practicable, |

| 1 | but not later than calendar year 2020, on |
|----|---|
| 2 | the delivered generation resource mix de- |
| 3 | scribed in clause (i)(I). |
| 4 | (B) Data on the delivered genera- |
| 5 | TION RESOURCE MIX.—In collecting the data |
| 6 | described in subparagraph (A)(i)(I), the Admin- |
| 7 | istrator shall— |
| 8 | (i) use existing voluntary industry |
| 9 | methodologies, including reporting proto- |
| 10 | cols and databases that provide consistent, |
| 11 | timely, and accessible carbon emissions in- |
| 12 | tensity rates for delivered electricity; |
| 13 | (ii) consider that generation and |
| 14 | transmission entities may provide data on |
| 15 | behalf of load-serving entities; |
| 16 | (iii) to the extent that the Adminis- |
| 17 | trator determines necessary, require each |
| 18 | load-serving entity to submit additional in- |
| 19 | formation as needed to determine the deliv- |
| 20 | ered generation resource mix of the load- |
| 21 | serving entity, including financial or con- |
| 22 | tractual agreements for power and genera- |
| 23 | tion resource type attributes with respect |
| 24 | to power owned by or retired by the load- |
| 25 | serving entity; and |

| 1 | (iv) for any portion of the generation |
|--|---|
| 2 | resource mix of a load-serving entity that |
| 3 | is otherwise unaccounted for, develop a |
| 4 | methodology to assign to the load-serving |
| 5 | entity a share of the otherwise unac- |
| 6 | counted for resource mix of the relevant |
| 7 | balancing authority. |
| 8 | (3) CITY-LEVEL DATA.—Not later than 1 year |
| 9 | after the date of enactment of this Act, the Adminis- |
| 10 | trator shall develop a plan for the collection or esti- |
| 11 | mation of data on the electricity consumption within |
| 12 | the city limits of cities in the United States. |
| | |
| 13 | SEC. 4103. EXPANSION OF ENERGY CONSUMPTION SUR- |
| 1314 | SEC. 4103. EXPANSION OF ENERGY CONSUMPTION SUR- VEYS. |
| | |
| 14 15 | VEYS. |
| 141516 | VEYS. (a) In General.—Not later than 2 years after the |
| 14151617 | VEYS. (a) IN GENERAL.—Not later than 2 years after the date of enactment of this Act, the Administrator shall im- |
| 14151617 | VEYS. (a) In General.—Not later than 2 years after the date of enactment of this Act, the Administrator shall implement measures to expand the Manufacturing Energy |
| 14 15 16 17 18 | VEYS. (a) IN GENERAL.—Not later than 2 years after the date of enactment of this Act, the Administrator shall implement measures to expand the Manufacturing Energy Consumption Survey, the Commercial Building Energy |
| 14 15 16 17 18 19 | VEYS. (a) In General.—Not later than 2 years after the date of enactment of this Act, the Administrator shall implement measures to expand the Manufacturing Energy Consumption Survey, the Commercial Building Energy Consumption Survey, and the Residential Energy Con- |
| 14151617181920 | veys. (a) In General.—Not later than 2 years after the date of enactment of this Act, the Administrator shall implement measures to expand the Manufacturing Energy Consumption Survey, the Commercial Building Energy Consumption Survey, and the Residential Energy Consumption Survey to include data on energy end use in |
| 14 15 16 17 18 19 20 21 | veys. (a) In General.—Not later than 2 years after the date of enactment of this Act, the Administrator shall implement measures to expand the Manufacturing Energy Consumption Survey, the Commercial Building Energy Consumption Survey, and the Residential Energy Consumption Survey to include data on energy end use in order to facilitate the identification of— |

Discussion Draft

| 1 | (3) opportunities to better understand and |
|----|--|
| 2 | manage miscellaneous electric loads. |
| 3 | (b) Requirements.— |
| 4 | (1) In general.—In carrying out subsection |
| 5 | (a), the Administrator shall— |
| 6 | (A) increase the scope and frequency of |
| 7 | data collection on energy end uses and services; |
| 8 | (B) use new data collection methods and |
| 9 | tools in order to obtain more comprehensive |
| 10 | data and reduce the burden on survey respond- |
| 11 | ents, including by— |
| 12 | (i) accessing other existing data |
| 13 | sources; and |
| 14 | (ii) if feasible, developing online and |
| 15 | real-time reporting systems; |
| 16 | (C) identify and report community-level |
| 17 | economic and environmental impacts, including |
| 18 | with respect to— |
| 19 | (i) the reliability and security of the |
| 20 | energy supply; and |
| 21 | (ii) local areas with households with a |
| 22 | high energy burden; and |
| 23 | (D) improve the presentation of data, in- |
| 24 | cluding by— |

| 1 | (i) enabling the presentation of data |
|----|---|
| 2 | in an interactive cartographic format on a |
| 3 | national, regional, State, and local level |
| 4 | with the functionality of viewing various |
| 5 | economic, energy, and demographic meas- |
| 6 | ures on an individual basis or in combina- |
| 7 | tion; and |
| 8 | (ii) incorporating the results of the |
| 9 | data collection, methods, and tools de- |
| 10 | scribed in subparagraphs (A) and (B) into |
| 11 | existing and new digital distribution meth- |
| 12 | ods. |
| 13 | (2) Manufacturing energy consumption |
| 14 | SURVEY.—With respect to the Manufacturing En- |
| 15 | ergy Consumption Survey, the Administrator shall— |
| 16 | (A) implement measures to provide more |
| 17 | detailed representations of data by region; |
| 18 | (B) for large manufacturing facilities, |
| 19 | break out process heat use by required process |
| 20 | temperatures in order to facilitate the identi- |
| 21 | fication of opportunities for cost reductions and |
| 22 | energy efficiency or energy productivity im- |
| 23 | provements; |
| 24 | (C) collect information on— |

| 1 | (i) energy source-switching capabili- |
|----|---|
| 2 | ties, especially with respect to thermal |
| 3 | processes and the efficiency of thermal |
| 4 | processes; |
| 5 | (ii) the use of electricity, biofuels, hy- |
| 6 | drogen, or other alternative fuels to |
| 7 | produce process heat; and |
| 8 | (iii) the use of demand response; and |
| 9 | (D) identify current and potential future |
| 10 | industrial clusters in which multiple firms and |
| 11 | facilities in a defined geographic area share the |
| 12 | costs and benefits of infrastructure for clean |
| 13 | manufacturing, such as— |
| 14 | (i) hydrogen generation, production, |
| 15 | transport, use, and storage infrastructure; |
| 16 | and |
| 17 | (ii) carbon dioxide capture, transport, |
| 18 | use, and storage infrastructure. |
| 19 | (3) Residential energy consumption sur- |
| 20 | VEY.—With respect to the Residential Energy Con- |
| 21 | sumption Survey, the Administrator shall— |
| 22 | (A) implement measures to provide more |
| 23 | detailed representations of data by— |
| 24 | (i) geographic area, including by State |
| 25 | (for each State); |

(5) individual, corporate, or public owners of

(6) balancing authority analyses of—

23

24

25

electric vehicles; and

| 1 | (A) transformer loading congestion; and |
|----------------------------|--|
| 2 | (B) distribution-system congestion. |
| 3 | (c) Consultation and Coordination.—In car- |
| 4 | rying out subsection (a), the Administrator may consult |
| 5 | and enter into agreements with other institutions having |
| 6 | relevant data and data collection capabilities, such as— |
| 7 | (1) the Secretary of Transportation; |
| 8 | (2) the Secretary; |
| 9 | (3) the Administrator of the Environmental |
| 10 | Protection Agency; |
| 11 | (4) States or State agencies; and |
| 12 | (5) private entities. |
| 13 | SEC. 4105. PLAN FOR THE FORECASTING OF DEMAND FOR |
| 14 | MINERALS USED IN THE ENERGY SECTOR. |
| 15 | (a) In Company Not let on the 100 decree of the the |
| 13 | (a) In General.—Not later than 180 days after the |
| 16 | date of enactment of this Act, the Administrator shall de- |
| 16 | |
| 16 17 | date of enactment of this Act, the Administrator shall de- |
| 16 17 | date of enactment of this Act, the Administrator shall develop a plan for the forecasting of demand for energy |
| 16 17 18 | date of enactment of this Act, the Administrator shall develop a plan for the forecasting of demand for energy equipment, including equipment for energy production or |
| 16 17 18 19 | date of enactment of this Act, the Administrator shall develop a plan for the forecasting of demand for energy equipment, including equipment for energy production or storage purposes, that uses minerals, such as lithium and |
| 16 17 18 19 20 | date of enactment of this Act, the Administrator shall develop a plan for the forecasting of demand for energy equipment, including equipment for energy production or storage purposes, that uses minerals, such as lithium and cobalt, that are or potentially may be determined to be |

| 1 | (2) emerging or potential markets for new en- |
|----|---|
| 2 | ergy-producing and energy-storing technologies en- |
| 3 | tering commercialization. |
| 4 | (b) Metrics.—The plan developed under subsection |
| 5 | (a) shall produce forecasts of equipment demand— |
| 6 | (1) over the 1-year, 5-year, and 10-year periods |
| 7 | beginning on the date on which development of the |
| 8 | plan is completed; |
| 9 | (2) by particular economic sectors; and |
| 10 | (3) according to any other parameters that the |
| 11 | Administrator, in collaboration with the Secretary of |
| 12 | the Interior, acting through the Director of the |
| 13 | United States Geological Survey, determines are |
| 14 | needed for the Annual Critical Minerals Outlook. |
| 15 | (e) Collaboration.—In carrying out subsection |
| 16 | (a), the Administrator shall work with— |
| 17 | (1) the Secretary with respect to the possible |
| 18 | trajectories of emerging energy-producing and en- |
| 19 | ergy-storing technologies; and |
| 20 | (2) the Secretary of the Interior, acting through |
| 21 | the Director of the United States Geological Survey |
| 22 | with respect to the parameters and assessments |
| 23 | needed for the Annual Critical Minerals Outlook. |

| 1 | SEC. 4106. EXPANSION OF INTERNATIONAL ENERGY DATA. |
|----|--|
| 2 | (a) In General.—Not later than 1 year after the |
| 3 | date of enactment of this Act, the Administrator shall im- |
| 4 | plement measures to expand and improve the international |
| 5 | energy data resources of the Energy Information Adminis- |
| 6 | tration in order to understand— |
| 7 | (1) the production and use of energy in various |
| 8 | countries; |
| 9 | (2) changing patterns of energy use internation- |
| 10 | ally; |
| 11 | (3) the relative costs and environmental impacts |
| 12 | of energy production and use internationally; and |
| 13 | (4) plans for or construction of major energy |
| 14 | facilities or infrastructure. |
| 15 | (b) Requirements.—In carrying out subsection (a), |
| 16 | the Administrator shall— |
| 17 | (1) work with, and leverage the data resources |
| 18 | of, the International Energy Agency; |
| 19 | (2) include detail on energy consumption by |
| 20 | fuel, economic sector, and end use within countries |
| 21 | for which data are available; |
| 22 | (3) collect relevant measures of energy use, in- |
| 23 | cluding— |
| 24 | (A) cost; and |
| 25 | (B) emissions intensity; and |

| 1 | (4) provide tools that allow for straightforward |
|----|--|
| 2 | country-to-country comparisons of energy production |
| 3 | and consumption across economic sectors and end |
| 4 | uses. |
| 5 | SEC. 4107. PLAN FOR THE NATIONAL ENERGY MODELING |
| 6 | SYSTEM. |
| 7 | Not later than 180 days after the date of enactment |
| 8 | of this Act, the Administrator shall develop a plan to iden- |
| 9 | tify any need or opportunity to update or further the capa- |
| 10 | bilities of the National Energy Modeling System, including |
| 11 | with respect to— |
| 12 | (1) treating energy demand endogenously; |
| 13 | (2) increased natural gas usage and increased |
| 14 | market penetration of renewable energy; |
| 15 | (3) flexible operating modes of nuclear power |
| 16 | plants, such as load following and frequency control; |
| 17 | (4) tools to model multiple-output energy sys- |
| 18 | tems that provide hydrogen, high-value heat, elec- |
| 19 | tricity, and chemical synthesis services, including |
| 20 | interactions of those energy systems with the elec- |
| 21 | tricity grids, pipeline networks, and the broader |
| 22 | economy; |
| 23 | (5) demand response and improved representa- |
| 24 | tion of energy storage, including long-duration stor- |
| 25 | age, in capacity expansion models; |

| 1 | (6) electrification, particularly with respect to |
|----|--|
| 2 | the transportation, industrial, and buildings sectors; |
| 3 | (7) increasing model resolution to represent all |
| 4 | hours of the year and all electricity generators; |
| 5 | (8) wholesale electricity market design and the |
| 6 | appropriate valuation of all services that support the |
| 7 | reliability of electricity grids, such as— |
| 8 | (A) battery storage; and |
| 9 | (B) synthetic inertia from grid-tied invert- |
| 10 | ers; |
| 11 | (9) economic modeling of the role of energy effi- |
| 12 | ciency, demand response, electricity storage, and a |
| 13 | variety of distributed generation technologies; |
| 14 | (10) the production, transport, use, and storage |
| 15 | of carbon dioxide, hydrogen, and hydrogen carriers; |
| 16 | (11) greater flexibility in— |
| 17 | (A) the modeling of the environmental im- |
| 18 | pacts of electricity systems, such as— |
| 19 | (i) emissions of greenhouse gases and |
| 20 | other pollutants; and |
| 21 | (ii) the use of land and water re- |
| 22 | sources; and |
| 23 | (B) the ability to support climate mod- |
| 24 | eling, such as the climate modeling performed |
| 25 | by the Office of Biological and Environmental |

| 1 | Research in the Office of Science of the Depart- |
|----|---|
| 2 | ment; |
| 3 | (12) technologies that are in an early stage of |
| 4 | commercial deployment and have been identified by |
| 5 | the Secretary as candidates for large-scale dem- |
| 6 | onstration projects, such as— |
| 7 | (A) carbon capture, transport, use, and |
| 8 | storage from any source or economic sector; |
| 9 | (B) direct air capture; |
| 10 | (C) hydrogen production, including via |
| 11 | electrolysis; |
| 12 | (D) synthetic and biogenic hydrocarbon |
| 13 | liquid and gaseous fuels; |
| 14 | (E) supercritical carbon dioxide combus- |
| 15 | tion turbines; |
| 16 | (F) industrial fuel cell and hydrogen com- |
| 17 | bustion equipment; and |
| 18 | (G) industrial electric boilers; |
| 19 | (13) increased and improved data sources and |
| 20 | tools, including— |
| 21 | (A) the establishment of technology and |
| 22 | cost baselines, including technology learning |
| 23 | rates; |
| 24 | (B) economic, employment, and health im- |
| 25 | pacts of energy system policies on households, |

| 1 | as a function of household income and region; |
|----|---|
| 2 | and |
| 3 | (C) the use of behavioral economics to in- |
| 4 | form demand modeling in all sectors; and |
| 5 | (14) striving to migrate toward a single, con- |
| 6 | sistent, and open-source modeling platform, and in- |
| 7 | creasing open access to model systems, data, and |
| 8 | outcomes, for— |
| 9 | (A) disseminating reference scenarios that |
| 10 | can be transparently and broadly replicated; |
| 11 | and |
| 12 | (B) promoting the development of the re- |
| 13 | searcher and analyst workforce needed to con- |
| 14 | tinue the development and validation of im- |
| 15 | proved energy system models in the future. |
| 16 | SEC. 4108. REPORT ON COSTS OF CARBON ABATEMENT IN |
| 17 | THE ELECTRICITY SECTOR. |
| 18 | Not later than 270 days after the date of enactment |
| 19 | of this Act, the Administrator shall submit to Congress |
| 20 | a report on— |
| 21 | (1) the potential use of levelized cost of carbon |
| 22 | abatement (referred to in this section as "LCCA") |
| 23 | or a similar metric in analyzing generators of elec- |
| 24 | tricity; |

| 1 | (2) the feasibility and impact of incorporating |
|----|--|
| 2 | LCCA in long-term forecasts— |
| 3 | (A) to compare technical approaches and |
| 4 | understand real-time changes in fossil-fuel and |
| 5 | nuclear dispatch; |
| 6 | (B) to compare the costs of technology op- |
| 7 | tions to reduce emissions; and |
| 8 | (C) to compare the costs of policy options, |
| 9 | including current policies, regarding valid and |
| 10 | verifiable reductions and removals of carbon; |
| 11 | and |
| 12 | (3)(A) a potential process to measure carbon |
| 13 | dioxide emissions intensity per unit of output pro- |
| 14 | duction for a range of— |
| 15 | (i) energy sources; |
| 16 | (ii) sectors; and |
| 17 | (iii) geographic regions; and |
| 18 | (B) a corresponding process to provide an em- |
| 19 | pirical framework for reporting the status and costs |
| 20 | of carbon dioxide reduction relative to specified |
| 21 | goals. |
| 22 | SEC. 4109. HARMONIZATION OF EFFORTS AND DATA. |
| 23 | Not later than 1 year after the date of enactment |
| 24 | of this Act, the Administrator shall establish a system to |
| 25 | harmonize, to the maximum extent practicable— |

| 1 | (1) the data collection efforts of the Adminis- |
|----|---|
| 2 | trator, including any data collection required under |
| 3 | this subtitle, with the data collection efforts of— |
| 4 | (A) the Environmental Protection Agency; |
| 5 | (B) other relevant Federal agencies, as the |
| 6 | Administrator determines to be appropriate; |
| 7 | and |
| 8 | (C) State or regional energy credit reg- |
| 9 | istries, as the Administrator determines to be |
| 10 | appropriate; |
| 11 | (2) the data collected under this subtitle, in- |
| 12 | cluding the operating data on electricity generation |
| 13 | collected under section 4102(a), with data collected |
| 14 | by the entities described in subparagraphs (A) |
| 15 | through (C) of paragraph (1), including any meas- |
| 16 | urements of greenhouse gas and other pollutant |
| 17 | emissions collected by the Environmental Protection |
| 18 | Agency; and |
| 19 | (3) the efforts of the Administrator to identify |
| 20 | and report relevant impacts, opportunities, and pat- |
| 21 | terns with respect to energy use, including the iden- |
| 22 | tification of community-level economic and environ- |
| 23 | mental impacts required under section |
| 24 | 4103(b)(1)(C), with the efforts of the Environmental |
| 25 | Protection Agency and other relevant Federal agen- |

| 1 | cies, as determined by the Administrator, to identify |
|----|--|
| 2 | similar impacts, opportunities, and patterns. |
| 3 | Subtitle C—Miscellaneous |
| 4 | SEC. 4201. CONSIDERATION OF MEASURES TO PROMOTE |
| 5 | GREATER ELECTRIFICATION OF THE TRANS- |
| 6 | PORTATION SECTOR. |
| 7 | (a) In General.—Section 111(d) of the Public Util- |
| 8 | ity Regulatory Policies Act of 1978 (16 U.S.C. 2621(d)) |
| 9 | (as amended by section $1004(a)(1)$) is amended by adding |
| 10 | at the end the following: |
| 11 | "(21) Electric vehicle charging pro- |
| 12 | GRAMS.—Each State shall consider measures to pro- |
| 13 | mote greater electrification of the transportation sec- |
| 14 | tor, including the establishment of rates that— |
| 15 | "(A) promote affordable and equitable |
| 16 | electric vehicle charging options for both resi- |
| 17 | dential and public electric vehicle charging in- |
| 18 | frastructure; |
| 19 | "(B) facilitate reduced charging times for |
| 20 | light-, medium-, and heavy-duty vehicles to im- |
| 21 | prove customer experiences; |
| 22 | "(C) accelerate third-party investment in |
| 23 | public electric vehicle charging stations in order |
| 24 | to reduce greenhouse gas emissions in the light- |
| 25 | , medium-, and heavy-duty vehicle sectors; and |

| 1 | "(D) appropriately recover the marginal |
|----|---|
| 2 | costs of delivering electricity to electric vehicles |
| 3 | and electric vehicle charging infrastructure.". |
| 4 | (b) Compliance.— |
| 5 | (1) Time Limitation.—Section 112(b) of the |
| 6 | Public Utility Regulatory Policies Act of 1978 (16 |
| 7 | U.S.C. 2622(b)) (as amended by section |
| 8 | 1004(a)(2)(A)) is amended by adding at the end the |
| 9 | following: |
| 10 | "(8)(A) Not later than 1 year after the date of |
| 11 | enactment of this paragraph, each State regulatory |
| 12 | authority (with respect to each electric utility for |
| 13 | which the State has ratemaking authority) and each |
| 14 | nonregulated utility shall commence consideration |
| 15 | under section 111, or set a hearing date for consid- |
| 16 | eration, with respect to the standard established by |
| 17 | paragraph (21) of section 111(d). |
| 18 | "(B) Not later than 2 years after the date of |
| 19 | enactment of this paragraph, each State regulatory |
| 20 | authority (with respect to each electric utility for |
| 21 | which the State has ratemaking authority), and each |
| 22 | nonregulated electric utility shall complete the con- |
| 23 | sideration and make the determination under section |
| 24 | 111 with respect to the standard established by |
| 25 | paragraph (21) of section 111(d).". |

| 1 | (2) Failure to comply.—Section 112(c) of |
|----|---|
| 2 | the Public Utility Regulatory Policies Act of 1978 |
| 3 | (16 U.S.C. 2622(c)) (as amended by section |
| 4 | 1004(a)(2)(B)(i)) is amended by adding at the end |
| 5 | the following: "In the case of the standard estab- |
| 6 | lished by paragraph (21) of section 111(d), the ref- |
| 7 | erence contained in this subsection to the date of en- |
| 8 | actment of this Act shall be deemed to be a ref- |
| 9 | erence to the date of enactment of that paragraph |
| 10 | (21).". |
| 11 | (3) Prior state actions.— |
| 12 | (A) In General.—Section 112 of the |
| 13 | Public Utility Regulatory Policies Act of 1978 |
| 14 | (16 U.S.C. 2622) (as amended by section |
| 15 | 1004(a)(2)(C)(i)) is amended by adding at the |
| 16 | end the following: |
| 17 | "(h) Other Prior State Actions.—Subsections |
| 18 | (b) and (c) shall not apply to the standard established by |
| 19 | paragraph (21) of section 111(d) in the case of any elec- |
| 20 | tric utility in a State if, before the date of enactment of |
| 21 | this subsection— |
| 22 | "(1) the State has implemented for the electric |
| 23 | utility the standard (or a comparable standard); |
| 24 | "(2) the State regulatory authority for the |
| 25 | State or the relevant nonregulated electric utility has |

| 1 | conducted a proceeding to consider implementation |
|----|--|
| 2 | of the standard (or a comparable standard) for the |
| 3 | electric utility; or |
| 4 | "(3) the State legislature has voted on the im- |
| 5 | plementation of the standard (or a comparable |
| 6 | standard) for the electric utility during the 3-year |
| 7 | period ending on that date of enactment.". |
| 8 | (B) Cross-reference.—Section 124 of |
| 9 | the Public Utility Regulatory Policies Act of |
| 10 | 1978 (16 U.S.C. 2634) (as amended by section |
| 11 | 1004(a)(2)(C)(ii)(II)) is amended by adding at |
| 12 | the end the following: "In the case of the stand- |
| 13 | ard established by paragraph (21) of section |
| 14 | 111(d), the reference contained in this section |
| 15 | to the date of enactment of this Act shall be |
| 16 | deemed to be a reference to the date of enact- |
| 17 | ment of that paragraph (21).". |
| 18 | TITLE V—ENERGY EFFICIENCY |
| 19 | AND BUILDING INFRASTRUC- |
| 20 | TURE |
| 21 | Subtitle A—Residential and |
| 22 | Commercial Energy Efficiency |
| 23 | SEC. 5001. DEFINITIONS. |
| 24 | In this subtitle: |

| 1 | (1) Priority state.—The term "priority |
|----|--|
| 2 | State" means a State that— |
| 3 | (A) is eligible for funding under the State |
| 4 | Energy Program; and |
| 5 | (B)(i) is among the 15 States with the |
| 6 | highest annual per-capita combined residential |
| 7 | and commercial sector energy consumption, as |
| 8 | most recently reported by the Energy Informa- |
| 9 | tion Administration; or |
| 10 | (ii) is among the 15 States with the high- |
| 11 | est annual per-capita energy-related carbon di- |
| 12 | oxide emissions by State, as most recently re- |
| 13 | ported by the Energy Information Administra- |
| 14 | tion. |
| 15 | (2) Program.—The term "program" means |
| 16 | the program established under section 5002(a). |
| 17 | (3) STATE.—The term "State" means a State |
| 18 | (as defined in section 3 of the Energy Policy and |
| 19 | Conservation Act (42 U.S.C. 6202)), acting through |
| 20 | a State energy office. |
| 21 | (4) State energy program.—The term |
| 22 | "State Energy Program" means the State Energy |
| 23 | Program established under part D of title III of the |
| 24 | Energy Policy and Conservation Act (42 U.S.C. |
| 25 | 6321 et seq.). |

| 1 | SEC. 5002. ENERGY EFFICIENCY REVOLVING LOAN FUND |
|----|---|
| 2 | CAPITALIZATION GRANT PROGRAM. |
| 3 | (a) In General.—Not later than 1 year after the |
| 4 | date of enactment of this Act, under the State Energy |
| 5 | Program, the Secretary shall establish a program under |
| 6 | which the Secretary shall provide capitalization grants to |
| 7 | States to establish a revolving loan fund under which the |
| 8 | State shall provide loans and grants, as applicable, in ac- |
| 9 | cordance with this section. |
| 10 | (b) Distribution of Funds.— |
| 11 | (1) All states.— |
| 12 | (A) IN GENERAL.—Of the amounts made |
| 13 | available under subsection (j), the Secretary |
| 14 | shall use 40 percent to provide capitalization |
| 15 | grants to States that are eligible for funding |
| 16 | under the State Energy Program, in accordance |
| 17 | with the allocation formula established under |
| 18 | section 420.11 of title 10, Code of Federal Reg- |
| 19 | ulations (or successor regulations). |
| 20 | (B) Remaining funding.—After applying |
| 21 | the allocation formula described in subpara- |
| 22 | graph (A), the Secretary shall redistribute any |
| 23 | unclaimed funds to the remaining States seek- |
| 24 | ing capitalization grants under that subpara- |
| 25 | graph. |
| 26 | (2) Priority states.— |

| 1 | (A) IN GENERAL.—Of the amounts made |
|----|--|
| 2 | available under subsection (j), the Secretary |
| 3 | shall use 60 percent to provide supplemental |
| 4 | capitalization grants to priority States in ac- |
| 5 | cordance with an allocation formula determined |
| 6 | by the Secretary. |
| 7 | (B) Remaining funding.—After applying |
| 8 | the allocation formula described in subpara- |
| 9 | graph (A), the Secretary shall redistribute any |
| 10 | unclaimed funds to the remaining priority |
| 11 | States seeking supplemental capitalization |
| 12 | grants under that subparagraph. |
| 13 | (C) Grant amount.— |
| 14 | (i) MAXIMUM AMOUNT.—The amount |
| 15 | of a supplemental capitalization grant pro- |
| 16 | vided to a State under this paragraph shall |
| 17 | not exceed \$15,000,000. |
| 18 | (ii) Supplement not supplant.—A |
| 19 | supplemental capitalization grant received |
| 20 | by a State under this paragraph shall sup- |
| 21 | plement, not supplant, a capitalization |
| 22 | grant received by that State under para- |
| 23 | graph (1). |
| 24 | (c) Applications for Capitalization Grants.— |
| 25 | A State seeking a capitalization grant under the program |

| 1 | shall submit to the Secretary an application at such time, |
|----|--|
| 2 | in such manner, and containing such information as the |
| 3 | Secretary may require, including— |
| 4 | (1) a detailed explanation of how the grant will |
| 5 | be used, including a plan to establish a new revolv- |
| 6 | ing loan fund or use an existing revolving loan fund; |
| 7 | (2) the need of eligible recipients for loans and |
| 8 | grants in the State for assistance with conducting |
| 9 | energy audits; |
| 10 | (3) a description of the expected benefits that |
| 11 | building infrastructure and energy system upgrades |
| 12 | and retrofits will have on communities in the State; |
| 13 | and |
| 14 | (4) in the case of a priority State seeking a |
| 15 | supplemental capitalization grant under subsection |
| 16 | (b)(2), a justification for needing the supplemental |
| 17 | funding. |
| 18 | (d) Timing.— |
| 19 | (1) IN GENERAL.—The Secretary shall establish |
| 20 | a timeline with dates by, or periods by the end of, |
| 21 | which a State shall— |
| 22 | (A) on receipt of a capitalization grant |
| 23 | under the program, deposit the grant funds into |
| 24 | a revolving loan fund; and |

| 1 | (B) begin using the capitalization grant as |
|----|---|
| 2 | described in subsection $(e)(1)$. |
| 3 | (2) Use of grant.—Under the timeline estab- |
| 4 | lished under paragraph (1), a State shall be required |
| 5 | to begin using a capitalization grant not more than |
| 6 | 180 days after the date on which the grant is re- |
| 7 | ceived. |
| 8 | (e) USE OF GRANT FUNDS.— |
| 9 | (1) In general.—A State that receives a cap- |
| 10 | italization grant under the program— |
| 11 | (A) shall provide loans in accordance with |
| 12 | paragraph (2); and |
| 13 | (B) may provide grants in accordance with |
| 14 | paragraph (3). |
| 15 | (2) Loans.— |
| 16 | (A) Commercial energy audit.— |
| 17 | (i) In general.—A State that re- |
| 18 | ceives a capitalization grant under the pro- |
| 19 | gram may provide a loan to an eligible re- |
| 20 | cipient described in clause (iii) to conduct |
| 21 | a commercial energy audit. |
| 22 | (ii) Audit requirements.—A com- |
| 23 | mercial energy audit conducted using a |
| 24 | loan provided under clause (i) shall— |

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| 1 | cipient to a qualified contractor, as determined |
|----|--|
| 2 | by the State, to estimate— |
| 3 | (i) the upfront capital cost of each |
| 4 | recommended upgrade; and |
| 5 | (ii) the total upfront capital cost of |
| 6 | implementing all recommended upgrades. |
| 7 | (E) Loan recipients.—Each State pro- |
| 8 | viding loans under this paragraph shall, to the |
| 9 | maximum extent practicable, provide loans to |
| 10 | eligible recipients that do not have access to |
| 11 | private capital. |
| 12 | (3) Grants and technical assistance.— |
| 13 | (A) IN GENERAL.—A State that receives a |
| 14 | capitalization grant under the program may use |
| 15 | not more than 25 percent of the grant funds to |
| 16 | provide grants or technical assistance to eligible |
| 17 | entities described in subparagraph (B) to carry |
| 18 | out the activities described in subparagraphs |
| 19 | (A), (B), and (C) of paragraph (2). |
| 20 | (B) ELIGIBLE ENTITY.—An entity eligible |
| 21 | for a grant or technical assistance under sub- |
| 22 | paragraph (A) is— |
| 23 | (i) a business that— |
| 24 | (I) is an eligible recipient de- |
| 25 | scribed in paragraph (2)(A)(iii); and |

| | 200 |
|----|--|
| 1 | (II) has fewer than 500 employ- |
| 2 | ees; or |
| 3 | (ii) a low-income individual (as de- |
| 4 | fined in section 3 of the Workforce Innova- |
| 5 | tion and Opportunity Act (29 U.S.C. |
| 6 | 3102)) that owns a residential building. |
| 7 | (4) Administrative expenses.—A State that |
| 8 | receives a capitalization grant under the program |
| 9 | may use not more than 10 percent of the grant |
| 10 | funds for administrative expenses. |
| 11 | (f) Coordination With Existing Programs.—A |
| 12 | State receiving a capitalization grant under the program |
| 13 | is encouraged to utilize and build on existing programs |
| 14 | and infrastructure within the State that may aid the State |
| 15 | in carrying out a revolving loan fund program. |
| 16 | (g) Leveraging Private Capital.—A State receiv- |
| 17 | ing a capitalization grant under the program shall, to the |
| 18 | maximum extent practicable, use the grant to leverage pri- |
| 19 | vate capital. |
| 20 | (h) Outreach.—The Secretary shall engage in out- |
| 21 | reach to inform States of the availability of capitalization |
| 22 | grants under the program. |
| 23 | (i) Report.—Each State that receives a capitaliza- |
| 24 | tion grant under the program shall, not later than 1 year |
| | |

| 1 | after a grant is received, submit to the Secretary a report |
|----|---|
| 2 | that describes— |
| 3 | (1) the number of recipients to which the State |
| 4 | has distributed— |
| 5 | (A) loans for— |
| 6 | (i) commercial energy audits under |
| 7 | subsection $(e)(2)(A)$; |
| 8 | (ii) residential energy audits under |
| 9 | subsection $(e)(2)(B)$; |
| 10 | (iii) energy upgrades and retrofits |
| 11 | under subsection (e)(2)(C); and |
| 12 | (B) grants under subsection (e)(3); and |
| 13 | (2) the average capital cost of upgrades and |
| 14 | retrofits across all commercial energy audits and |
| 15 | residential energy audits that were conducted in the |
| 16 | State using loans provided by the State under sub- |
| 17 | section (e). |
| 18 | (j) APPROPRIATIONS.—In addition to amounts other- |
| 19 | wise made available, there is appropriated to the Secretary |
| 20 | to carry out this section, out of any amounts in the Treas- |
| 21 | ury not otherwise appropriated, \$250,000,000 for fiscal |
| 22 | year 2022, to remain available until expended. |
| 23 | SEC. 5003. ENERGY AUDITOR TRAINING GRANT PROGRAM. |
| 24 | (a) Definitions.—In this section: |

| 1 | (1) COVERED CERTIFICATION.—The term "cov- |
|----|---|
| 2 | ered certification" means any of the following certifi- |
| 3 | cations: |
| 4 | (A) The American Society of Heating, Re- |
| 5 | frigerating, and Air-Conditioning Engineers |
| 6 | Building Energy Assessment Professional cer- |
| 7 | tification. |
| 8 | (B) The Association of Energy Engineers |
| 9 | Certified Energy Auditor certification. |
| 10 | (C) The Building Performance Institute |
| 11 | Home Energy Professional Energy Auditor cer- |
| 12 | tification. |
| 13 | (D) The Residential Energy Services Net- |
| 14 | work Home Energy Rater certification. |
| 15 | (E) Any other third-party certification rec- |
| 16 | ognized by the Department. |
| 17 | (F) Any third-party certification that the |
| 18 | Secretary determines is equivalent to the certifi- |
| 19 | cations described in subparagraphs (A) through |
| 20 | (E). |
| 21 | (2) ELIGIBLE STATE.—The term "eligible |
| 22 | State" means a State that— |
| 23 | (A) has a demonstrated need for assistance |
| 24 | for training energy auditors; and |

| 1 | (B) meets any additional criteria deter- |
|----|--|
| 2 | mined necessary by the Secretary. |
| 3 | (b) Establishment.—Under the State Energy Pro- |
| 4 | gram, the Secretary shall establish a competitive grant |
| 5 | program under which the Secretary shall award grants to |
| 6 | eligible States to train individuals to conduct energy au- |
| 7 | dits or surveys of commercial and residential buildings. |
| 8 | (c) Applications.— |
| 9 | (1) In General.—A State seeking a grant |
| 10 | under subsection (b) shall submit to the Secretary |
| 11 | an application at such time, in such manner, and |
| 12 | containing such information as the Secretary may |
| 13 | require, including the energy auditor training pro- |
| 14 | gram plan described in paragraph (2). |
| 15 | (2) Energy auditor training program |
| 16 | PLAN.—An energy auditor training program plan |
| 17 | submitted with an application under paragraph (1) |
| 18 | shall include— |
| 19 | (A)(i) a proposed training curriculum for |
| 20 | energy audit trainees; and |
| 21 | (ii) an identification of the covered certifi- |
| 22 | cation that those trainees will receive on com- |
| 23 | pletion of that training curriculum; |
| 24 | (B) the expected per-individual cost of |
| 25 | training; |

| 1 | (C) a plan for connecting trainees with em- |
|----|--|
| 2 | ployment opportunities; and |
| 3 | (D) any additional information required by |
| 4 | the Secretary. |
| 5 | (d) Amount of Grant.—The amount of a grant |
| 6 | awarded to an eligible State under subsection (b)— |
| 7 | (1) shall be determined by the Secretary, taking |
| 8 | into account the population of the eligible State; and |
| 9 | (2) shall not exceed \$2,000,000 for any eligible |
| 10 | State. |
| 11 | (e) USE OF FUNDS.— |
| 12 | (1) IN GENERAL.—An eligible State that re- |
| 13 | ceives a grant under subsection (b) shall use the |
| 14 | grant funds— |
| 15 | (A) to cover any cost associated with indi- |
| 16 | viduals being trained or certified to conduct en- |
| 17 | ergy audits by— |
| 18 | (i) the State; or |
| 19 | (ii) a State-certified third party train- |
| 20 | ing program; and |
| 21 | (B) subject to paragraph (2), to pay the |
| 22 | wages of a trainee during the period in which |
| 23 | the trainee receives training and certification. |
| 24 | (2) Limitation.—Not more than 10 percent of |
| 25 | grant funds provided under subsection (b) to an eli- |

| 1 | gible State may be used for the purpose described in |
|----|--|
| 2 | paragraph (1)(B). |
| 3 | (f) Consultation.—In carrying out this section, the |
| 4 | Secretary shall consult with the Secretary of Labor. |
| 5 | (g) APPROPRIATIONS.—In addition to amounts other- |
| 6 | wise made available, there is appropriated to the Secretary |
| 7 | to carry out this section, out of any amounts in the Treas- |
| 8 | ury not otherwise appropriated, \$8,000,000 for each of fis- |
| 9 | cal years 2022 through 2026. |
| 10 | Subtitle B—Buildings |
| 11 | SEC. 5101. COST-EFFECTIVE CODES IMPLEMENTATION FOR |
| 12 | EFFICIENCY AND RESILIENCE. |
| 13 | (a) In General.—Title III of the Energy Conserva- |
| 14 | tion and Production Act (42 U.S.C. 6831 et seq.) is |
| 15 | amended by adding at the end the following: |
| 16 | "SEC. 309. COST-EFFECTIVE CODES IMPLEMENTATION FOR |
| 17 | EFFICIENCY AND RESILIENCE. |
| 18 | "(a) Definitions.—In this section: |
| 19 | "(1) ELIGIBLE ENTITY.—The term 'eligible en- |
| 20 | tity' means— |
| 21 | "(A) a relevant State agency, as deter- |
| 22 | mined by the Secretary, such as a State build- |
| 23 | ing code agency, State energy office, or Tribal |
| 24 | energy office; and |
| 25 | "(B) a partnership. |

| 1 | "(2) Partnership.—The term 'partnership' |
|----|---|
| 2 | means a partnership between an eligible entity de- |
| 3 | scribed in paragraph (1)(A) and 1 or more of the |
| 4 | following entities: |
| 5 | "(A) Local building code agencies. |
| 6 | "(B) Codes and standards developers. |
| 7 | "(C) Associations of builders and design |
| 8 | and construction professionals. |
| 9 | "(D) Local and utility energy efficiency |
| 10 | programs. |
| 11 | "(E) Consumer, energy efficiency, and en- |
| 12 | vironmental advocates. |
| 13 | "(F) Other entities, as determined by the |
| 14 | Secretary. |
| 15 | "(3) Secretary.—The term 'Secretary' means |
| 16 | the Secretary of Energy. |
| 17 | "(b) Establishment.— |
| 18 | "(1) IN GENERAL.—The Secretary shall estab- |
| 19 | lish within the Building Technologies Office of the |
| 20 | Department of Energy a program under which the |
| 21 | Secretary shall award grants on a competitive basis |
| 22 | to eligible entities to enable sustained cost-effective |
| 23 | implementation of updated building energy codes. |
| 24 | "(2) UPDATED BUILDING ENERGY CODE.—An |
| 25 | update to a building energy code under this section |

| 1 | shall include any update made available after the ex- |
|----|---|
| 2 | isting building energy code, even if it is not the most |
| 3 | recent updated code available. |
| 4 | "(c) Criteria; Priority.—In awarding grants |
| 5 | under subsection (b), the Secretary shall— |
| 6 | "(1) consider— |
| 7 | "(A) prospective energy savings and plans |
| 8 | to measure the savings; |
| 9 | "(B) the long-term sustainability of those |
| 10 | measures and savings; |
| 11 | "(C) prospective benefits, and plans to as- |
| 12 | sess the benefits, including benefits relating |
| 13 | to— |
| 14 | "(i) resilience and peak load reduc- |
| 15 | tion; |
| 16 | "(ii) occupant safety and health; and |
| 17 | "(iii) environmental performance; |
| 18 | "(D) the demonstrated capacity of the eli- |
| 19 | gible entity to carry out the proposed project; |
| 20 | and |
| 21 | "(E) the need of the eligible entity for as- |
| 22 | sistance; and |
| 23 | "(2) give priority to applications from partner- |
| 24 | ships. |
| 25 | "(d) Eligible Activities.— |

| 1 | "(1) In General.—An eligible entity awarded |
|----|--|
| 2 | a grant under this section may use the grant |
| 3 | funds— |
| 4 | "(A) to create or enable State or regional |
| 5 | partnerships to provide training and materials |
| 6 | to— |
| 7 | "(i) builders, contractors and sub- |
| 8 | contractors, architects, and other design |
| 9 | and construction professionals, relating to |
| 10 | meeting updated building energy codes in a |
| 11 | cost-effective manner; and |
| 12 | "(ii) building code officials, relating to |
| 13 | improving implementation of and compli- |
| 14 | ance with building energy codes; |
| 15 | "(B) to collect and disseminate quan- |
| 16 | titative data on construction and codes imple- |
| 17 | mentation, including code pathways, perform- |
| 18 | ance metrics, and technologies used; |
| 19 | "(C) to develop and implement a plan for |
| 20 | highly effective codes implementation, including |
| 21 | measuring compliance; |
| 22 | "(D) to address various implementation |
| 23 | needs in rural, suburban, and urban areas; and |
| 24 | "(E) to implement updates in energy codes |
| 25 | for— |

| 1 | "(i) new residential and commercial |
|----|---|
| 2 | buildings (including multifamily buildings) |
| 3 | and |
| 4 | "(ii) additions and alterations to ex- |
| 5 | isting residential and commercial buildings |
| 6 | (including multifamily buildings). |
| 7 | "(2) Related topics.—Training and mate- |
| 8 | rials provided using a grant under this section may |
| 9 | include information on the relationship between en- |
| 10 | ergy codes and— |
| 11 | "(A) cost-effective, high-performance, and |
| 12 | zero-net-energy buildings; |
| 13 | "(B) improving resilience, health, and safe- |
| 14 | ty; |
| 15 | "(C) water savings and other environ- |
| 16 | mental impacts; and |
| 17 | "(D) the economic impacts of energy |
| 18 | codes. |
| 19 | "(e) Appropriations.—In addition to amounts oth- |
| 20 | erwise made available, there is appropriated to the Sec- |
| 21 | retary to carry out this section, out of any amounts in |
| 22 | the Treasury not otherwise appropriated, \$45,000,000 for |
| 23 | each of fiscal years 2022 through 2026.". |
| 24 | (b) Conforming Amendment.—Section 303 of the |
| 25 | Energy Conservation and Production Act (42 U.S.C. |

| 6832) is amended, in the matter preceding paragraph (1) |
|---|
| by striking "As used in" and inserting "Except as other |
| wise provided, in". |
| SEC. 5102. BUILDING, TRAINING, AND ASSESSMENT CEN |
| TERS. |
| (a) In General.—The Secretary shall provide |
| grants to institutions of higher education (as defined in |
| section 101 of the Higher Education Act of 1965 (20 |
| U.S.C. 1001)) and Tribal Colleges or Universities (as de- |
| fined in section 316(b) of that Act (20 U.S.C. 1059c(b)) |
| to establish building training and assessment centers— |
| (1) to identify opportunities for optimizing en- |
| ergy efficiency and environmental performance in |
| buildings; |
| (2) to promote the application of emerging con- |
| cepts and technologies in commercial and institu- |
| tional buildings; |
| (3) to train engineers, architects, building sci- |
| entists, building energy permitting and enforcement |
| officials, and building technicians in energy-efficient |
| design and operation; |
| (4) to assist institutions of higher education |
| and Tribal Colleges or Universities in training build |
| ing technicians; |
| |

| 1 | (5) to promote research and development for |
|----|---|
| 2 | the use of alternative energy sources and distributed |
| 3 | generation to supply heat and power for buildings, |
| 4 | particularly energy-intensive buildings; and |
| 5 | (6) to coordinate with and assist State-accred- |
| 6 | ited technical training centers, community colleges, |
| 7 | Tribal Colleges or Universities, and local offices of |
| 8 | the National Institute of Food and Agriculture and |
| 9 | ensure appropriate services are provided under this |
| 10 | section to each region of the United States. |
| 11 | (b) Coordination and Nonduplication.— |
| 12 | (1) In General.—The Secretary shall coordi- |
| 13 | nate the program with the industrial research and |
| 14 | assessment centers program under section 457 of |
| 15 | the Energy Independence and Security Act of 2007 |
| 16 | (as added by section 5201(b)) and with other Fed- |
| 17 | eral programs to avoid duplication of effort. |
| 18 | (2) Collocation.—To the maximum extent |
| 19 | practicable, building, training, and assessment cen- |
| 20 | ters established under this section shall be collocated |
| 21 | with industrial assessment centers (as defined in |
| 22 | section 5211). |
| 23 | (c) APPROPRIATIONS.—In addition to amounts other- |
| 24 | wise made available, there is appropriated to the Secretary |
| 25 | to carry out this section, out of any amounts in the Treas- |

| 1 | ury not otherwise appropriated, \$10,000,000 for fiscal |
|----|---|
| 2 | year 2022, to remain available until expended. |
| 3 | SEC. 5103. CAREER SKILLS TRAINING. |
| 4 | (a) Definition of Eligible Entity.—In this sec- |
| 5 | tion, the term "eligible entity" means a nonprofit partner- |
| 6 | ship that— |
| 7 | (1) includes the equal participation of industry, |
| 8 | including public or private employers, and labor or- |
| 9 | ganizations, including joint labor-management train- |
| 10 | ing programs; |
| 11 | (2) may include workforce investment boards, |
| 12 | community-based organizations, qualified service and |
| 13 | conservation corps, educational institutions, small |
| 14 | businesses, cooperatives, State and local veterans |
| 15 | agencies, and veterans service organizations; and |
| 16 | (3) demonstrates— |
| 17 | (A) experience in implementing and oper- |
| 18 | ating worker skills training and education pro- |
| 19 | grams; |
| 20 | (B) the ability to identify and involve in |
| 21 | training programs carried out under this sec- |
| 22 | tion, target populations of individuals who |
| 23 | would benefit from training and be actively in- |
| 24 | volved in activities relating to energy efficiency |
| 25 | and renewable energy industries; and |

| 1 | (C) the ability to help individuals achieve |
|----|---|
| 2 | economic self-sufficiency. |
| 3 | (b) Establishment.—The Secretary shall award |
| 4 | grants to eligible entities to pay the Federal share of asso- |
| 5 | ciated career skills training programs under which stu- |
| 6 | dents concurrently receive classroom instruction and on- |
| 7 | the-job training for the purpose of obtaining an industry- |
| 8 | related certification to install energy efficient buildings |
| 9 | technologies. |
| 10 | (c) FEDERAL SHARE.—The Federal share of the cost |
| 11 | of carrying out a career skills training program described |
| 12 | in subsection (b) shall be 50 percent. |
| 13 | (d) APPROPRIATIONS.—In addition to amounts other- |
| 14 | wise made available, there is appropriated to the Secretary |
| 15 | to carry out this section, out of any amounts in the Treas- |
| 16 | ury not otherwise appropriated, \$10,000,000 for fiscal |
| 17 | year 2022, to remain available until expended. |
| 18 | SEC. 5104. COMMERCIAL BUILDING ENERGY CONSUMPTION |
| 19 | INFORMATION SHARING. |
| 20 | (a) DEFINITIONS.—In this section: |
| 21 | (1) Administrator.—The term "Adminis- |
| 22 | trator" means the Administrator of the Energy In- |
| 23 | formation Administration. |
| | |

| 1 | (2) AGREEMENT.—The term "Agreement" |
|----|--|
| 2 | means the agreement entered into under subsection |
| 3 | (b). |
| 4 | (3) Survey.—The term "Survey" means the |
| 5 | Commercial Building Energy Consumption Survey. |
| 6 | (b) Authorization of Agreement.—Not later |
| 7 | than 120 days after the date of enactment of this Act, |
| 8 | the Administrator and the Administrator of the Environ- |
| 9 | mental Protection Agency shall sign, and submit to Con- |
| 10 | gress, an information sharing agreement relating to com- |
| 11 | mercial building energy consumption data. |
| 12 | (c) Content of Agreement.—The Agreement |
| 13 | shall— |
| 14 | (1) provide that— |
| 15 | (A) the Administrator shall have access to |
| 16 | building-specific data in the Portfolio Manager |
| 17 | database of the Environmental Protection |
| 18 | Agency; and |
| 19 | (B) the Administrator of the Environ- |
| 20 | mental Protection Agency shall have access to |
| 21 | unmasked, raw building-specific data collected |
| 22 | by the Survey; |
| 23 | (2) describe the manner in which the Adminis- |
| 24 | trator shall incorporate appropriate data (including |
| 25 | the data described in subsection (d)) into any Survey |

| 1 | published for the 2018 Survey cycle and each subse- |
|----|---|
| 2 | quent cycle for the purpose of analyzing and esti- |
| 3 | mating building population, size, location, activity, |
| 4 | energy usage, and any other relevant building char- |
| 5 | acteristic; |
| 6 | (3) describe and compare— |
| 7 | (A) the methodologies that the Energy In- |
| 8 | formation Administration, the Environmental |
| 9 | Protection Agency, and State and local govern- |
| 10 | ment managers use to maximize the quality, re- |
| 11 | liability, and integrity of data collected through |
| 12 | the Survey, the Portfolio Manager database of |
| 13 | the Environmental Protection Agency, and |
| 14 | State and local building energy disclosure laws |
| 15 | (including regulations), respectively, and the |
| 16 | manner in which those methodologies can be |
| 17 | improved; and |
| 18 | (B) consistencies and variations in data for |
| 19 | the same buildings captured in— |
| 20 | (i)(I) the 2018 Survey cycle; and |
| 21 | (II) each subsequent Survey cycle; |
| 22 | and |
| 23 | (ii) the Portfolio Manager database of |
| 24 | the Environmental Protection Agency; |

| 1 | (4) consider whether, and the methods by |
|----|--|
| 2 | which, the Administrator may collect and publish |
| 3 | new iterations of Survey data every 3 years— |
| 4 | (A) using the Survey processes of the Ad- |
| 5 | ministrator; or |
| 6 | (B) as supplemented by information in the |
| 7 | Portfolio Manager database of the Environ- |
| 8 | mental Protection Agency. |
| 9 | (d) Data.—The data referred in subsection $(c)(2)$ in- |
| 10 | cludes data that— |
| 11 | (1) is collected through the Portfolio Manager |
| 12 | database of the Environmental Protection Agency; |
| 13 | (2) is required to be publicly available on the |
| 14 | internet under State and local government building |
| 15 | energy disclosure laws (including regulations); and |
| 16 | (3) includes information on private sector build- |
| 17 | ings that are not less than 250,000 square feet. |
| 18 | (e) Protection of Information.—In carrying out |
| 19 | the agreement, the Administrator and the Administrator |
| 20 | of the Environmental Protection Agency shall protect in- |
| 21 | formation in accordance with— |
| 22 | (1) section 552(b)(4) of title 5, United States |
| 23 | Code (commonly known as the "Freedom of Infor- |
| 24 | mation Act''); |

| 1 | (2) subchapter III of chapter 35 of title 44, |
|----|---|
| 2 | United States Code; and |
| 3 | (3) any other applicable law (including regula- |
| 4 | tions). |
| 5 | Subtitle C—Industrial Energy |
| 6 | Efficiency |
| 7 | PART I—INDUSTRY |
| 8 | SEC. 5201. FUTURE OF INDUSTRY PROGRAM AND INDUS- |
| 9 | TRIAL RESEARCH AND ASSESSMENT CEN- |
| 10 | TERS. |
| 11 | (a) Future of Industry Program.— |
| 12 | (1) In General.—Section 452 of the Energy |
| 13 | Independence and Security Act of 2007 (42 U.S.C. |
| 14 | 17111) is amended— |
| 15 | (A) by striking the section heading and in- |
| 16 | serting the following:"FUTURE OF INDUSTRY |
| 17 | PROGRAM''; |
| 18 | (B) in subsection (a)(2)— |
| 19 | (i) by redesignating subparagraph (E) |
| 20 | as subparagraph (F); and |
| 21 | (ii) by inserting after subparagraph |
| 22 | (D) the following: |
| 23 | "(E) water and wastewater treatment fa- |
| 24 | cilities, including systems that treat municipal, |
| 25 | industrial, and agricultural waste; and"; |

| 1 | (C) by striking subsection (e); and |
|--|---|
| 2 | (D) by redesignating subsection (f) as sub- |
| 3 | section (e). |
| 4 | (2) Conforming Amendment.—Section |
| 5 | 454(b)(2)(C) of the Energy Independence and Secu- |
| 6 | rity Act of 2007 (42 U.S.C. $17113(b)(2)(C)$) is |
| 7 | amended by striking "energy-intensive industries" |
| 8 | and inserting "Future of Industry". |
| 9 | (b) Industrial Research and Assessment Cen- |
| 10 | TERS.—Subtitle D of title IV of the Energy Independence |
| 11 | and Security Act of 2007 (42 U.S.C. 17111 et seq.) is |
| 12 | amended by adding at the end the following: |
| 13 | "SEC. 457. INDUSTRIAL RESEARCH AND ASSESSMENT CEN- |
| | |
| 14 | TERS. |
| 14 15 | TERS. "(a) DEFINITIONS.—In this section: |
| | |
| 15 | "(a) Definitions.—In this section: |
| 15 16 17 | "(a) Definitions.—In this section: "(1) Covered Project.—The term 'covered |
| 15 16 | "(a) Definitions.—In this section: "(1) Covered project.—The term 'covered project' means a project— |
| 15 16 17 18 | "(a) Definitions.—In this section: "(1) Covered project.—The term 'covered project' means a project— "(A) that has been recommended in an en- |
| 15 16 17 18 | "(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) |
| 15 16 17 18 19 20 | "(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 |
| 15 16 17 18 19 20 21 | "(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 |
| 15 16 17 18 19 20 21 | "(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— |
| 15 16 17 18 19 20 21 22 23 | "(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— |

| 1 | "(B) any utility operating under a utility |
|----|---|
| 2 | energy service project. |
| 3 | "(4) Industrial research and assessment |
| 4 | CENTER.—The term 'industrial research and assess- |
| 5 | ment center' means— |
| 6 | "(A) an institution of higher education- |
| 7 | based industrial research and assessment center |
| 8 | that is funded by the Secretary under sub- |
| 9 | section (b); and |
| 10 | "(B) an industrial research and assess- |
| 11 | ment center at a trade school, community col- |
| 12 | lege, or union training program that is funded |
| 13 | by the Secretary under subsection (f). |
| 14 | "(5) Program.—The term 'Program' means |
| 15 | the program for implementation grants established |
| 16 | under subsection (i)(1). |
| 17 | "(6) Small- or medium-sized manufac- |
| 18 | TURER.—The term 'small- or medium-sized manu- |
| 19 | facturer' means a manufacturing firm— |
| 20 | "(A) the gross annual sales of which are |
| 21 | less than \$100,000,000; |
| 22 | "(B) that has fewer than 500 employees at |
| 23 | the plant site of the manufacturing firm; and |
| 24 | "(C) the annual energy bills of which total |
| 25 | more than $$100,000$ but less than $$2,500,000$. |

| 1 | "(b) Institution of Higher Education-based |
|----|--|
| 2 | INDUSTRIAL RESEARCH AND ASSESSMENT CENTERS.— |
| 3 | "(1) In general.—The Secretary shall provide |
| 4 | funding to institution of higher education-based in- |
| 5 | dustrial research and assessment centers. |
| 6 | "(2) Purpose.—The purpose of each institu- |
| 7 | tion of higher education-based industrial research |
| 8 | and assessment center shall be— |
| 9 | "(A) to provide in-depth assessments of |
| 10 | small- and medium-sized manufacturer plant |
| 11 | sites to evaluate the facilities, services, and |
| 12 | manufacturing operations of the plant sites; |
| 13 | "(B) to identify opportunities for opti- |
| 14 | mizing energy efficiency and environmental per- |
| 15 | formance, including implementation of— |
| 16 | "(i) smart manufacturing; |
| 17 | "(ii) energy management systems; |
| 18 | "(iii) sustainable manufacturing; |
| 19 | "(iv) information technology advance- |
| 20 | ments for supply chain analysis, logistics, |
| 21 | system monitoring, industrial and manu- |
| 22 | facturing processes, and other purposes; |
| 23 | and |
| 24 | "(v) waste management systems; |

| 1 | "(C) to promote applications of emerging |
|----|---|
| 2 | concepts and technologies in small- and me- |
| 3 | dium-sized manufacturers (including water and |
| 4 | wastewater treatment facilities and federally |
| 5 | owned manufacturing facilities); |
| 6 | "(D) to promote research and development |
| 7 | for the use of alternative energy sources to sup- |
| 8 | ply heat, power, and new feedstocks for energy- |
| 9 | intensive industries; |
| 10 | "(E) to coordinate with appropriate Fed- |
| 11 | eral and State research offices; |
| 12 | "(F) to provide a clearinghouse for indus- |
| 13 | trial process and energy efficiency technical as- |
| 14 | sistance resources; and |
| 15 | "(G) to coordinate with State-accredited |
| 16 | technical training centers and community col- |
| 17 | leges, while ensuring appropriate services to all |
| 18 | regions of the United States. |
| 19 | "(c) Coordination.—To increase the value and ca- |
| 20 | pabilities of the industrial research and assessment cen- |
| 21 | ters, the centers shall— |
| 22 | "(1) coordinate with Manufacturing Extension |
| 23 | Partnership Centers of the National Institute of |
| 24 | Standards and Technology; |

| 1 | "(2) coordinate with the Federal Energy Man |
|----|--|
| 2 | agement Program and the Building Technologies Of |
| 3 | fice of the Department of Energy to provide building |
| 4 | assessment services to manufacturers; |
| 5 | "(3) increase partnerships with the Nationa |
| 6 | Laboratories of the Department of Energy to lever |
| 7 | age the expertise, technologies, and research and de |
| 8 | velopment capabilities of the National Laboratories |
| 9 | for national industrial and manufacturing needs; |
| 10 | "(4) increase partnerships with energy service |
| 11 | providers and technology providers to leverage pri |
| 12 | vate sector expertise and accelerate deployment of |
| 13 | new and existing technologies and processes for en |
| 14 | ergy efficiency, power factor, and load management |
| 15 | "(5) identify opportunities for reducing green |
| 16 | house gas emissions and other air emissions; and |
| 17 | "(6) promote sustainable manufacturing prac |
| 18 | tices for small- and medium-sized manufacturers. |
| 19 | "(d) Outreach.—The Secretary shall provide fund |
| 20 | ing for— |
| 21 | "(1) outreach activities by the industrial re |
| 22 | search and assessment centers to inform small- and |
| 23 | medium-sized manufacturers of the information |
| 24 | technologies, and services available; and |

| 1 | "(2) coordination activities by each industrial |
|----|---|
| 2 | research and assessment center to leverage efforts |
| 3 | with— |
| 4 | "(A) Federal, State, and Tribal efforts; |
| 5 | "(B) the efforts of utilities and energy |
| 6 | service providers; |
| 7 | "(C) the efforts of regional energy effi- |
| 8 | ciency organizations; and |
| 9 | "(D) the efforts of other industrial re- |
| 10 | search and assessment centers. |
| 11 | "(e) Centers of Excellence.— |
| 12 | "(1) Establishment.—The Secretary shall es- |
| 13 | tablish a Center of Excellence at not more than 5 |
| 14 | of the highest-performing industrial research and as- |
| 15 | sessment centers, as determined by the Secretary. |
| 16 | "(2) Duties.—A Center of Excellence shall co- |
| 17 | ordinate with and advise the industrial research and |
| 18 | assessment centers located in the region of the Cen- |
| 19 | ter of Excellence, including— |
| 20 | "(A) by mentoring new directors and staff |
| 21 | of the industrial research and assessment cen- |
| 22 | ters with respect to— |
| 23 | "(i) the availability of resources; and |
| 24 | "(ii) best practices for carrying out |
| 25 | assessments, including through the partici- |

| 1 | pation of the staff of the Center of Excel- |
|----|---|
| 2 | lence in assessments carried out by new in- |
| 3 | dustrial research and assessment centers; |
| 4 | "(B) by providing training to staff and |
| 5 | students at the industrial research and assess- |
| 6 | ment centers on new technologies, practices, |
| 7 | and tools to expand the scope and impact of the |
| 8 | assessments carried out by the centers; |
| 9 | "(C) by assisting the industrial research |
| 10 | and assessment centers with specialized tech- |
| 11 | nical opportunities, including by providing a |
| 12 | clearinghouse of available expertise and tools to |
| 13 | assist the centers and clients of the centers in |
| 14 | assessing and implementing those opportunities; |
| 15 | "(D) by identifying and coordinating with |
| 16 | regional, State, local, Tribal, and utility energy |
| 17 | efficiency programs for the purpose of facili- |
| 18 | tating efforts by industrial research and assess- |
| 19 | ment centers to connect industrial facilities re- |
| 20 | ceiving assessments from those centers with re- |
| 21 | gional, State, local, and utility energy efficiency |
| 22 | programs that could aid the industrial facilities |
| 23 | in implementing any recommendations resulting |
| 24 | from the assessments; |

| 1 | "(E) by facilitating coordination between |
|---|---|
| 2 | the industrial research and assessment centers |
| 3 | and other Federal programs described in para- |
| 4 | graphs (1) through (3) of subsection (c); and |
| 5 | "(F) by coordinating the outreach activi- |
| 6 | ties of the industrial research and assessment |
| 7 | centers under subsection (d)(1). |
| 8 | "(3) Funding.—For each fiscal year, out of |
| 9 | any amounts made available to carry out this section |
| 10 | under subsection (j), the Secretary shall use not less |
| 11 | than \$500,000 to support each Center of Excellence. |
| 12 | "(f) Expansion of Industrial Research and As- |
| | |
| 13 | SESSMENT CENTERS.— |
| 13 14 | SESSMENT CENTERS.— "(1) IN GENERAL.—The Secretary shall provide |
| | |
| 14 | "(1) IN GENERAL.—The Secretary shall provide |
| 14 15 | "(1) IN GENERAL.—The Secretary shall provide funding to establish additional industrial research |
| 141516 | "(1) IN GENERAL.—The Secretary shall provide funding to establish additional industrial research and assessment centers at trade schools, community |
| 14151617 | "(1) In general.—The Secretary shall provide funding to establish additional industrial research and assessment centers at trade schools, community colleges, and union training programs. |
| 14 15 16 17 18 | "(1) In general.—The Secretary shall provide funding to establish additional industrial research and assessment centers at trade schools, community colleges, and union training programs. "(2) Purpose.— |
| 14 15 16 17 18 19 | "(1) In general.—The Secretary shall provide funding to establish additional industrial research and assessment centers at trade schools, community colleges, and union training programs. "(2) Purpose.— "(A) In general.—Subject to subpara- |
| 14 15 16 17 18 19 20 | "(1) IN GENERAL.—The Secretary shall provide funding to establish additional industrial research and 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, |
| 14 15 16 17 18 19 20 21 | "(1) In general.—The Secretary shall provide funding to establish additional industrial research and 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 |

| 1 | funded by the Secretary under subsection |
|----|---|
| 2 | (b)(1). |
| 3 | "(B) Consideration of capabilities.— |
| 4 | In evaluating or establishing the purpose of an |
| 5 | industrial research and assessment center es- |
| 6 | tablished under paragraph (1), the Secretary |
| 7 | shall take into consideration the varying capa- |
| 8 | bilities of trade schools, community colleges, |
| 9 | and union training programs. |
| 10 | "(g) Workforce Training.— |
| 11 | "(1) Internships.—The Secretary shall pay |
| 12 | the Federal share of associated internship programs |
| 13 | under which students work with or for industries, |
| 14 | manufacturers, and energy service providers to im- |
| 15 | plement the recommendations of industrial research |
| 16 | and assessment centers. |
| 17 | "(2) Apprenticeships.—The Secretary shall |
| 18 | pay the Federal share of associated apprenticeship |
| 19 | programs under which— |
| 20 | "(A) students work with or for industries, |
| 21 | manufacturers, and energy service providers to |
| 22 | implement the recommendations of industrial |
| 23 | research and assessment centers; and |
| 24 | "(B) employees of facilities that have re- |
| 25 | ceived an assessment from an industrial re- |

| 1 | search and assessment center work with or for |
|----|---|
| 2 | an industrial research and assessment center to |
| 3 | gain knowledge on engineering practices and |
| 4 | processes to improve productivity and energy |
| 5 | savings. |
| 6 | "(3) Federal share.—The Federal share of |
| 7 | the cost of carrying out internship programs de- |
| 8 | scribed in paragraph (1) and apprenticeship pro- |
| 9 | grams described in paragraph (2) shall be 50 per- |
| 10 | cent. |
| 11 | "(h) SMALL BUSINESS LOANS.—The Administrator |
| 12 | of the Small Business Administration shall, to the max- |
| 13 | imum extent practicable, expedite consideration of applica- |
| 14 | tions from eligible small business concerns for loans under |
| 15 | the Small Business Act (15 U.S.C. 631 et seq.) to imple- |
| 16 | ment recommendations developed by the industrial re- |
| 17 | search and assessment centers. |
| 18 | "(i) Implementation Grants.— |
| 19 | "(1) In general.—The Secretary shall estab- |
| 20 | lish a program under which the Secretary shall pro- |
| 21 | vide grants to eligible entities to implement covered |
| 22 | projects. |
| 23 | "(2) APPLICATION.—An eligible entity seeking |
| 24 | a grant under the Program shall submit to the Sec- |
| 25 | retary an application at such time, in such manner, |

| 1 | and containing such information as the Secretary |
|----|--|
| 2 | may require, including a demonstration of need for |
| 3 | financial assistance to implement the proposed cov- |
| 4 | ered project. |
| 5 | "(3) Priority.—In awarding grants under the |
| 6 | Program, the Secretary shall give priority to eligible |
| 7 | entities that— |
| 8 | "(A) have had an energy assessment com- |
| 9 | pleted by an industrial research and assessment |
| 10 | center; and |
| 11 | "(B) propose to carry out a covered project |
| 12 | with a greater potential for— |
| 13 | "(i) energy efficiency gains; or |
| 14 | "(ii) greenhouse gas emissions reduc- |
| 15 | tions. |
| 16 | "(4) Grant amount.— |
| 17 | "(A) MAXIMUM AMOUNT.—The amount of |
| 18 | a grant provided to an eligible entity under the |
| 19 | Program shall not exceed \$300,000. |
| 20 | "(B) Federal share.—A grant awarded |
| 21 | under the Program for a covered project shall |
| 22 | be in an amount that is not more than 50 per- |
| 23 | cent of the cost of the covered project. |
| 24 | "(C) Supplement.—A grant received by |
| 25 | an eligible entity under the Program shall sup- |

25 portunities for—

| 1 | plement, not supplant, any private or State |
|----|--|
| 2 | funds available to the eligible entity to carry |
| 3 | out the covered project. |
| 4 | "(j) Appropriations.—In addition to amounts other |
| 5 | erwise made available, there is appropriated to the Sec |
| 6 | retary, out of any amounts in the Treasury not otherwise |
| 7 | appropriated, for each of fiscal years 2022 through |
| 8 | 2026— |
| 9 | "(1) \$30,000,000 to carry out subsections (a) |
| 10 | through (h); and |
| 11 | "(2) \$80,000,000 to carry out subsection (i)." |
| 12 | (c) Clerical Amendment.—The table of contents |
| 13 | of the Energy Independence and Security Act of 2007 (42 |
| 14 | U.S.C. prec. 17001) is amended by adding at the end of |
| 15 | the items relating to subtitle D of title IV the following |
| | "Sec. 457. Industrial research and assessment centers.". |
| 16 | SEC. 5202. SUSTAINABLE MANUFACTURING INITIATIVE. |
| 17 | (a) In General.—Part E of title III of the Energy |
| 18 | Policy and Conservation Act (42 U.S.C. 6341 et seq.) is |
| 19 | amended by adding at the end the following: |
| 20 | "SEC. 376. SUSTAINABLE MANUFACTURING INITIATIVE. |
| 21 | "(a) In General.—As part of the Office of Energy |
| 22 | Efficiency and Renewable Energy of the Department of |
| 23 | Energy, the Secretary, on the request of a manufacturer |
| 24 | shall carry out onsite technical assessments to identify op- |

| 1 | "(1) maximizing the energy efficiency of indus- |
|----|---|
| 2 | trial processes and cross-cutting systems; |
| 3 | "(2) preventing pollution and minimizing waste; |
| 4 | "(3) improving efficient use of water in manu- |
| 5 | facturing processes; |
| 6 | "(4) conserving natural resources; and |
| 7 | "(5) achieving such other goals as the Secretary |
| 8 | determines to be appropriate. |
| 9 | "(b) Coordination.—To implement any rec- |
| 10 | ommendations resulting from an onsite technical assess- |
| 11 | ment carried out under subsection (a) and to accelerate |
| 12 | the adoption of new and existing technologies and proc- |
| 13 | esses that improve energy efficiency, the Secretary shall |
| 14 | coordinate with— |
| 15 | "(1) the Advanced Manufacturing Office of the |
| 16 | Department of Energy; |
| 17 | "(2) the Building Technologies Office of the |
| 18 | Department of Energy; |
| 19 | "(3) the Federal Energy Management Program |
| 20 | of the Department of Energy; and |
| 21 | "(4) the private sector and other appropriate |
| 22 | agencies, including the National Institute of Stand- |
| 23 | ards and Technology. |
| 24 | "(c) Research and Development Program for |
| 25 | SUSTAINABLE MANUFACTURING AND INDUSTRIAL TECH- |

- 1 NOLOGIES AND PROCESSES.—As part of the industrial ef-
- 2 ficiency programs of the Department of Energy, the Sec-
- 3 retary shall carry out a joint industry-government partner-
- 4 ship program to research, develop, and demonstrate new
- 5 sustainable manufacturing and industrial technologies and
- 6 processes that maximize the energy efficiency of industrial
- 7 plants, reduce pollution, and conserve natural resources.".
- 8 (b) CLERICAL AMENDMENT.—The table of contents
- 9 of the Energy Policy and Conservation Act (42 U.S.C.
- 10 prec. 6201) is amended by adding at the end of the items
- 11 relating to part E of title III the following:

"Sec. 376. Sustainable manufacturing initiative.".

12 PART II—SMART MANUFACTURING

13 SEC. 5211. DEFINITIONS.

- In this part:
- 15 (1) Energy management system.—The term
- 16 "energy management system" means a business
- management process based on standards of the
- 18 American National Standards Institute that enables
- an organization to follow a systematic approach in
- achieving continual improvement of energy perform-
- ance, including energy efficiency, security, use, and
- consumption.
- 23 (2) Industrial assessment center.—The
- term "industrial assessment center" means a center
- located at an institution of higher education that—

| 1 | (A) receives funding from the Department; |
|----|---|
| 2 | (B) provides an in-depth assessment of |
| 3 | small- and medium-size manufacturer plant |
| 4 | sites to evaluate the facilities, services, and |
| 5 | manufacturing operations of the plant site; and |
| 6 | (C) identifies opportunities for potential |
| 7 | savings for small- and medium-size manufac- |
| 8 | turer plant sites from energy efficiency improve- |
| 9 | ments, waste minimization, pollution preven- |
| 10 | tion, and productivity improvement. |
| 11 | (3) Information and communication tech- |
| 12 | NOLOGY.—The term "information and communica- |
| 13 | tion technology" means any electronic system or |
| 14 | equipment (including the content contained in the |
| 15 | system or equipment) used to create, convert, com- |
| 16 | municate, or duplicate data or information, including |
| 17 | computer hardware, firmware, software, communica- |
| 18 | tion protocols, networks, and data interfaces. |
| 19 | (4) Institution of higher education.—The |
| 20 | term "institution of higher education" has the |
| 21 | meaning given the term in section 101(a) of the |
| 22 | Higher Education Act of 1965 (20 U.S.C. 1001(a)). |
| 23 | (5) North American industry classifica- |
| 24 | TION SYSTEM.—The term "North American Indus- |
| 25 | try Classification System" means the standard used |

| 1 | by Federal statistical agencies in classifying business |
|----|---|
| 2 | establishments for the purpose of collecting, ana- |
| 3 | lyzing, and publishing statistical data relating to the |
| 4 | business economy of the United States. |
| 5 | (6) Small and medium manufacturers.— |
| 6 | The term "small and medium manufacturers" |
| 7 | means manufacturing firms— |
| 8 | (A) classified in the North American In- |
| 9 | dustry Classification System as any of sectors |
| 10 | 31 through 33; |
| 11 | (B) with gross annual sales of less than |
| 12 | \$100,000,000; |
| 13 | (C) with fewer than 500 employees at the |
| 14 | plant site; and |
| 15 | (D) with annual energy bills totaling more |
| 16 | than $$100,000$ and less than $$2,500,000$. |
| 17 | (7) SMART MANUFACTURING.—The term |
| 18 | "smart manufacturing" means advanced tech- |
| 19 | nologies in information, automation, monitoring, |
| 20 | computation, sensing, modeling, artificial intel- |
| 21 | ligence, analytics, and networking that— |
| 22 | (A) digitally— |
| 23 | (i) simulate manufacturing production |
| 24 | lines; |

operations; and

work.

(F) digitally connect the supply chain net-

19

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| 1 | SEC. 5212. LEVERAGING EXISTING AGENCY PROGRAMS TO |
|----|--|
| 2 | ASSIST SMALL AND MEDIUM MANUFACTUR- |
| 3 | ERS. |
| 4 | (a) Expansion of Technical Assistance Pro- |
| 5 | GRAMS.—The Secretary shall expand the scope of tech- |
| 6 | nologies covered by the industrial assessment centers of |
| 7 | the Department— |
| 8 | (1) to include smart manufacturing technologies |
| 9 | and practices; and |
| 10 | (2) to equip the directors of the industrial as- |
| 11 | sessment centers with the training and tools nec- |
| 12 | essary to provide technical assistance in smart man- |
| 13 | ufacturing technologies and practices, including en- |
| 14 | ergy management systems, to manufacturers. |
| 15 | (b) Funding.—The Secretary shall use unobligated |
| 16 | funds of the Department to carry out this section. |
| 17 | SEC. 5213. LEVERAGING SMART MANUFACTURING INFRA- |
| 18 | STRUCTURE AT NATIONAL LABORATORIES. |
| 19 | (a) Study.— |
| 20 | (1) In General.—Not later than 180 days |
| 21 | after the date of enactment of this Act, the Sec- |
| 22 | retary shall conduct a study on how the Department |
| 23 | can increase access to existing high-performance |
| 24 | computing resources in the National Laboratories, |
| 25 | particularly for small and medium manufacturers. |

| 1 | (2) Inclusions.—In identifying ways to in- |
|----|---|
| 2 | crease access to National Laboratories under para- |
| 3 | graph (1), the Secretary shall— |
| 4 | (A) focus on increasing access to the com- |
| 5 | puting facilities of the National Laboratories; |
| 6 | and |
| 7 | (B) ensure that— |
| 8 | (i) the information from the manufac- |
| 9 | turer is protected; and |
| 10 | (ii) the security of the National Lab- |
| 11 | oratory facility is maintained. |
| 12 | (3) Report.—Not later than 1 year after the |
| 13 | date of enactment of this Act, the Secretary shall |
| 14 | submit to Congress a report describing the results of |
| 15 | the study. |
| 16 | (b) Actions for Increased Access.—The Sec- |
| 17 | retary shall facilitate access to the National Laboratories |
| 18 | studied under subsection (a) for small and medium manu- |
| 19 | facturers so that small and medium manufacturers can |
| 20 | fully use the high-performance computing resources of the |
| 21 | National Laboratories to enhance the manufacturing com- |
| 22 | petitiveness of the United States. |
| 23 | SEC. 5214. STATE MANUFACTURING LEADERSHIP. |
| 24 | (a) Financial Assistance Authorized.—The |
| 25 | Secretary may provide financial assistance on a competi- |

| be used as models for supporting the implementation of |
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| |
| smart manufacturing technologies. |
| (b) Applications.— |
| (1) In general.—To be eligible to receive fi- |
| nancial assistance under this section, a State shall |
| submit to the Secretary an application at such time, |
| in such manner, and containing such information as |
| the Secretary may require. |
| (2) Criteria.—The Secretary shall evaluate an |
| application for financial assistance under this section |
| on the basis of merit using criteria identified by the |
| Secretary, including— |
| (A) technical merit, innovation, and im- |
| pact; |
| (B) research approach, workplan, and |
| deliverables; |
| (C) academic and private sector partners; |
| and |
| (D) alternate sources of funding. |
| (c) Requirements.— |
| (1) TERM.—The term of an award of financial |
| assistance under this section shall not exceed 3 |
| years. |
| |

| 1 | (2) Maximum amount.—The amount of an |
|----|--|
| 2 | award of financial assistance under this section shall |
| 3 | be not more than \$2,000,000. |
| 4 | (3) MATCHING REQUIREMENT.—Each State |
| 5 | that receives financial assistance under this section |
| 6 | shall contribute matching funds in an amount equal |
| 7 | to not less than 30 percent of the amount of the fi- |
| 8 | nancial assistance. |
| 9 | (d) Use of Funds.— |
| 10 | (1) In general.—A State may use financial |
| 11 | assistance provided under this section— |
| 12 | (A) to facilitate access to high-performance |
| 13 | computing resources for small and medium |
| 14 | manufacturers; and |
| 15 | (B) to provide assistance to small and me- |
| 16 | dium manufacturers to implement smart manu- |
| 17 | facturing technologies and practices. |
| 18 | (e) Evaluation.—The Secretary shall conduct semi- |
| 19 | annual evaluations of each award of financial assistance |
| 20 | under this section— |
| 21 | (1) to determine the impact and effectiveness of |
| 22 | programs funded with the financial assistance; and |
| 23 | (2) to provide guidance to States on ways to |
| 24 | better execute the program of the State. |

| 1 | (f) AUTHORIZATION.—There is authorized to be ap- |
|----|--|
| 2 | propriated to the Secretary to carry out this section |
| 3 | \$10,000,000 for each of fiscal years [2022 through |
| 4 | 2026]. |
| 5 | SEC. 5215. REPORT. |
| 6 | The Secretary annually shall submit to Congress and |
| 7 | make publicly available a report on the progress made in |
| 8 | advancing smart manufacturing in the United States. |
| 9 | Subtitle D—Schools and Nonprofits |
| 10 | SEC. 5301. GRANTS FOR ENERGY EFFICIENCY IMPROVE- |
| 11 | MENTS AND RENEWABLE ENERGY IMPROVE- |
| 12 | MENTS AT PUBLIC SCHOOL FACILITIES. |
| 13 | (a) Definitions.—In this section: |
| 14 | (1) ELIGIBLE ENTITY.—The term "eligible enti- |
| 15 | ty" means a consortium of— |
| 16 | (A) 1 local educational agency; and |
| 17 | (B) 1 or more— |
| 18 | (i) schools; |
| 19 | (ii) nonprofit organizations; |
| 20 | (iii) for-profit organizations; or |
| 21 | (iv) community partners that have the |
| 22 | knowledge and capacity to partner and as- |
| 23 | sist with energy improvements. |
| 24 | (2) Energy improvement.—The term "en- |
| 25 | erey improvement" means— |

| 1 | (A) any improvement, repair, or renovation |
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| 2 | to a school that results in a direct reduction in |
| 3 | school energy costs, including improvements to |
| 4 | the envelope, air conditioning system, ventila- |
| 5 | tion system, heating system, domestic hot water |
| 6 | heating system, compressed air system, dis- |
| 7 | tribution system, lighting system, power system, |
| 8 | and controls of a building; |
| 9 | (B) any improvement, repair, or renovation |
| 10 | to, or installation in, a school that leads to an |
| 11 | improvement in teacher and student health, in- |
| 12 | cluding indoor air quality, daylighting, ventila- |
| 13 | tion, electrical lighting, windows, roofing (in- |
| 14 | cluding green roofs), outdoor gardens, and |
| 15 | acoustics; |
| 16 | (C) any improvement, repair, or renovation |
| 17 | to a school involving the installation of renew- |
| 18 | able energy technologies (such as wind power, |
| 19 | photovoltaics, solar thermal systems, geo- |
| 20 | thermal energy, hydrogen-fueled systems, bio- |
| 21 | mass-based systems, biofuels, anaerobic digest- |
| 22 | ers, and hydropower); |
| 23 | (D) the installation of zero-emissions vehi- |
| 24 | cle infrastructure on school grounds for— |

| 1 | (i) exclusive use of school buses |
|----|---|
| 2 | school fleets, or students; or |
| 3 | (ii) the general public; and |
| 4 | (E) the purchase or lease of zero-emissions |
| 5 | vehicles to be used by a school, including school |
| 6 | buses, fleet vehicles, and other operational vehi- |
| 7 | cles. |
| 8 | (3) High school.—The term "high school" |
| 9 | has the meaning given the term in section 8101 of |
| 10 | the Elementary and Secondary Education Act of |
| 11 | 1965 (20 U.S.C. 7801). |
| 12 | (4) Local Educational agency.—The term |
| 13 | "local educational agency" has the meaning given |
| 14 | the term in section 8101 of the Elementary and Sec- |
| 15 | ondary Education Act of 1965 (20 U.S.C. 7801). |
| 16 | (5) Partnering local educational agen- |
| 17 | CY.—The term "partnering local educational agen- |
| 18 | cy", with respect to an eligible entity, means the |
| 19 | local educational agency participating in the consor- |
| 20 | tium of the eligible entity. |
| 21 | (6) Zero-emissions vehicle infrastruc- |
| 22 | TURE.—The term "zero-emissions vehicle infrastruc- |
| 23 | ture" means infrastructure used to charge or fuel— |
| | |

| 1 | (A) a zero-emission vehicle (as defined in |
|----|---|
| 2 | section 88.102–94 of title 40, Code of Federal |
| 3 | Regulations (or successor regulation)); or |
| 4 | (B) a vehicle that produces zero exhaust |
| 5 | emissions of any criteria pollutant (or precursor |
| 6 | pollutant) or greenhouse gas under any possible |
| 7 | operational mode or condition. |
| 8 | (b) Grants.—The Secretary shall award competitive |
| 9 | grants to eligible entities to make energy improvements |
| 10 | in accordance with this section. |
| 11 | (c) Applications.— |
| 12 | (1) In general.—An eligible entity desiring a |
| 13 | grant under this section shall submit to the Sec- |
| 14 | retary an application at such time, in such manner, |
| 15 | and containing such information as the Secretary |
| 16 | may require. |
| 17 | (2) Contents.—The application submitted |
| 18 | under paragraph (1) shall include each of the fol- |
| 19 | lowing: |
| 20 | (A) A needs assessment of the current con- |
| 21 | dition of the school and school facilities that |
| 22 | will receive the energy improvements. |
| 23 | (B) A draft work plan of the intended |
| 24 | achievements of the eligible entity at the school. |

| 1 | (C) A description of the energy improve- |
|----|---|
| 2 | ments that the eligible entity will carry out at |
| 3 | the school. |
| 4 | (D) A description of the capacity of the eli- |
| 5 | gible entity to provide services and comprehen- |
| 6 | sive support to make the energy improvements |
| 7 | referred to in subparagraph (C). |
| 8 | (E) An assessment of the expected needs |
| 9 | of the eligible entity for operation and mainte- |
| 10 | nance training funds, and a plan for use of |
| 11 | those funds, if applicable. |
| 12 | (F) An assessment of the expected energy |
| 13 | efficiency and safety benefits of the energy im- |
| 14 | provements. |
| 15 | (G) A cost estimate of the proposed energy |
| 16 | improvements. |
| 17 | (H) An identification of other resources |
| 18 | that are available to carry out the activities for |
| 19 | which grant funds are requested under this sec- |
| 20 | tion, including the availability of utility pro- |
| 21 | grams and public benefit funds. |
| 22 | (d) Priority.— |
| 23 | (1) In general.—In awarding grants under |
| 24 | this section, the Secretary shall give priority to an |
| 25 | eligible entity— |

| 1 | (A) that has renovation, repair, and im- |
|----|---|
| 2 | provement funding needs; and |
| 3 | (B)(i) that, as determined by the Sec- |
| 4 | retary, serves a high percentage of students, in- |
| 5 | cluding students in a high school in accordance |
| 6 | with paragraph (2), who are eligible for a free |
| 7 | or reduced price lunch under the Richard B. |
| 8 | Russell National School Lunch Act (42 U.S.C. |
| 9 | 1751 et seq.); or |
| 10 | (ii) the partnering local educational agency |
| 11 | of which is designated with a school district lo- |
| 12 | cale code of 41, 42, or 43, as determined by the |
| 13 | National Center for Education Statistics in con- |
| 14 | sultation with the Bureau of the Census. |
| 15 | (2) High school students.—In the case of |
| 16 | students in a high school, the percentage of students |
| 17 | eligible for a free or reduced price lunch described |
| 18 | in paragraph (1)(B)(i) shall be calculated using data |
| 19 | from the schools that feed into the high school. |
| 20 | (e) Competitive Criteria.—The competitive cri- |
| 21 | teria used by the Secretary to award grants under this |
| 22 | section shall include the following: |
| 23 | (1) The extent of the disparity between the fis- |
| 24 | cal capacity of the eligible entity to carry out energy |
| 25 | improvements at school facilities and the needs of |

| 1 | the partnering local educational agency for those en- |
|----|--|
| 2 | ergy improvements, including consideration of— |
| 3 | (A) the current and historic ability of the |
| 4 | partnering local educational agency to raise |
| 5 | funds for construction, renovation, moderniza- |
| 6 | tion, and major repair projects for schools; |
| 7 | (B) the ability of the partnering local edu- |
| 8 | cational agency to issue bonds or receive other |
| 9 | funds to support the current infrastructure |
| 10 | needs of the partnering local educational agency |
| 11 | for schools; and |
| 12 | (C) the bond rating of the partnering local |
| 13 | educational agency. |
| 14 | (2) The likelihood that the partnering local edu- |
| 15 | cational agency or eligible entity will maintain, in |
| 16 | good condition, any school and school facility that is |
| 17 | the subject of improvements. |
| 18 | (3) The potential energy efficiency and safety |
| 19 | benefits from the proposed energy improvements. |
| 20 | (f) USE OF GRANT AMOUNTS.— |
| 21 | (1) In general.—Except as provided in this |
| 22 | subsection, an eligible entity receiving a grant under |
| 23 | this section shall use the grant amounts only to |
| 24 | make the energy improvements described in the ap- |
| | |

- plication submitted by the eligible entity under subsection (c).
 - (2) OPERATION AND MAINTENANCE TRAIN-ING.—An eligible entity receiving a grant under this section may use not more than 5 percent of the grant amounts for operation and maintenance training for energy efficiency and renewable energy improvements, such as maintenance staff and teacher training, education, and preventative maintenance training.
 - (3) Third-party investigation and analysis of the energy improvements carried out by the eligible entity, such as energy audits and existing building commissioning.
 - (4) Continuing Education.—An eligible entity receiving a grant under this section may use not more than 3 percent of the grant amounts to develop a continuing education curriculum relating to energy improvements.
- 23 (g) COMPETITION IN CONTRACTING.—If an eligible 24 entity receiving a grant under this section uses grant 25 funds to carry out repair or renovation through a contract,

| 1 | the eligible entity shall be required to ensure that the con |
|----|--|
| 2 | tract process— |
| 3 | (1) through full and open competition, ensures |
| 4 | the maximum practicable number of qualified bid |
| 5 | ders, including small, minority, and women-owned |
| 6 | businesses; and |
| 7 | (2) gives priority to businesses located in, or re |
| 8 | sources common to, the State or geographical area |
| 9 | in which the repair or renovation under the contract |
| 10 | will be carried out. |
| 11 | (h) Best Practices.—The Secretary shall develop |
| 12 | and publish guidelines and best practices for activities car |
| 13 | ried out under this section. |
| 14 | (i) Report by Eligible Entity.—An eligible entity |
| 15 | receiving a grant under this section shall submit to the |
| 16 | Secretary, at such time as the Secretary may require, a |
| 17 | report describing— |
| 18 | (1) the use of the grant funds for energy im |
| 19 | provements; |
| 20 | (2) the estimated cost savings realized by those |
| 21 | energy improvements; |
| 22 | (3) the results of any third-party investigation |
| 23 | and analysis conducted relating to those energy im |
| 24 | provements; |

| 1 | (4) the use of any utility programs and public |
|----|---|
| 2 | benefit funds; and |
| 3 | (5) the use of performance tracking for energy |
| 4 | improvements, such as— |
| 5 | (A) the Energy Star program established |
| 6 | under section 324A of the Energy Policy and |
| 7 | Conservation Act (42 U.S.C. 6294a); or |
| 8 | (B) the United States Green Building |
| 9 | Council Leadership in Energy and Environ- |
| 10 | mental Design (LEED) green building rating |
| 11 | system for existing buildings. |
| 12 | (j) APPROPRIATIONS.—In addition to amounts other- |
| 13 | wise made available, there is appropriated to the Secretary |
| 14 | to carry out this section, out of any amounts in the Treas- |
| 15 | ury not otherwise appropriated, \$100,000,000 for each of |
| 16 | fiscal years 2022 through 2026. |
| 17 | SEC. 5302. ENERGY EFFICIENCY MATERIALS PILOT PRO- |
| 18 | GRAM. |
| 19 | (a) Definitions.—In this section: |
| 20 | (1) Applicant.—The term "applicant" means |
| 21 | a nonprofit organization that applies for a grant |
| 22 | under this section. |
| 23 | (2) Energy-efficiency material.— |
| 24 | (A) In general.—The term "energy-effi- |
| 25 | ciency material" means a material (including a |

| 1 | product, equipment, or system) the installation |
|----|--|
| 2 | of which results in a reduction in use by a non- |
| 3 | profit organization of energy or fuel. |
| 4 | (B) Inclusions.—The term "energy-effi- |
| 5 | ciency material" includes— |
| 6 | (i) a roof or lighting system or compo- |
| 7 | nent of the system; |
| 8 | (ii) a window; |
| 9 | (iii) a door, including a security door; |
| 10 | (iv) a heating, ventilation, or air con- |
| 11 | ditioning system or component of the sys- |
| 12 | tem (including insulation and wiring and |
| 13 | plumbing improvements needed to serve a |
| 14 | more efficient system); and |
| 15 | (v) a renewable energy generation or |
| 16 | heating system, including a solar, photo- |
| 17 | voltaic, wind, geothermal, or biomass (in- |
| 18 | cluding wood pellet) system or component |
| 19 | of the system. |
| 20 | (3) Nonprofit building.— |
| 21 | (A) In general.—The term "nonprofit |
| 22 | building" means a building operated and owned |
| 23 | by an organization that is described in section |
| 24 | 501(c)(3) of the Internal Revenue Code of 1986 |

| 1 | and exempt from tax under section 501(a) of |
|----|---|
| 2 | such Code. |
| 3 | (B) Inclusions.—The term "nonprofit |
| 4 | building" includes a building described in sub- |
| 5 | paragraph (A) that is— |
| 6 | (i) a hospital; |
| 7 | (ii) a youth center; |
| 8 | (iii) a school; |
| 9 | (iv) a social-welfare program facility; |
| 10 | (v) a faith-based organization; or |
| 11 | (vi) any other nonresidential and non- |
| 12 | commercial structure. |
| 13 | (b) Establishment.—Not later than 1 year after |
| 14 | the date of enactment of this Act, the Secretary shall es- |
| 15 | tablish a pilot program to award grants for the purpose |
| 16 | of providing nonprofit buildings with energy-efficiency ma- |
| 17 | terials. |
| 18 | (c) Grants.— |
| 19 | (1) IN GENERAL.—The Secretary may award |
| 20 | grants under the program established under sub- |
| 21 | section (b). |
| 22 | (2) Application.—The Secretary may award a |
| 23 | grant under paragraph (1) if an applicant submits |
| 24 | to the Secretary an application at such time, in such |

| 1 | form, and containing such information as the Sec- |
|----|---|
| 2 | retary may prescribe. |
| 3 | (3) Criteria for grant.—In determining |
| 4 | whether to award a grant under paragraph (1), the |
| 5 | Secretary shall apply performance-based criteria, |
| 6 | which shall give priority to applicants based on— |
| 7 | (A) the energy savings achieved; |
| 8 | (B) the cost effectiveness of the use of en- |
| 9 | ergy-efficiency materials; |
| 10 | (C) an effective plan for evaluation, meas- |
| 11 | urement, and verification of energy savings; and |
| 12 | (D) the financial need of the applicant. |
| 13 | (4) Limitation on individual grant |
| 14 | AMOUNT.—Each grant awarded under this section |
| 15 | shall not exceed \$200,000. |
| 16 | (d) Appropriations.—In addition to amounts other- |
| 17 | wise made available, there is appropriated to the Secretary |
| 18 | to carry out this section, out of any amounts in the Treas- |
| 19 | ury not otherwise appropriated, \$10,000,000 for each of |
| 20 | fiscal years 2022 through 2026, to remain available until |
| 21 | expended. |
| 22 | Subtitle E—Miscellaneous |
| 23 | SEC. 5401. WEATHERIZATION ASSISTANCE PROGRAM. |
| 24 | In addition to amounts otherwise available, there is |
| 25 | appropriated to the Secretary, out of any amounts in the |

| 1 | Treasury not otherwise appropriated, for the weatheriza- |
|----|--|
| 2 | tion assistance program established under part A of title |
| 3 | IV of the Energy Conservation and Production Act (42 |
| 4 | U.S.C. 6861 et seq.) \$3,500,000,000 for fiscal year 2022, |
| 5 | to remain available until expended. |
| 6 | SEC. 5402. ENERGY EFFICIENCY AND CONSERVATION |
| 7 | BLOCK GRANT PROGRAM. |
| 8 | In addition to amounts otherwise available, there is |
| 9 | appropriated to the Secretary, out of any amounts in the |
| 10 | Treasury not otherwise appropriated, for the Energy Effi- |
| 11 | ciency and Conservation Block Grant Program established |
| 12 | under section 542(a) of the Energy Independence and Se- |
| 13 | eurity Act of 2007 (42 U.S.C. 17152(a)) \$550,000,000 |
| 14 | for fiscal year 2022, to remain available until expended. |
| 15 | SEC. 5403. SURVEY, ANALYSIS, AND REPORT ON EMPLOY- |
| 16 | MENT AND DEMOGRAPHICS IN THE ENERGY, |
| 17 | ENERGY EFFICIENCY, AND MOTOR VEHICLE |
| 18 | SECTORS OF THE UNITED STATES. |
| 19 | (a) Energy Jobs Council.— |
| 20 | (1) Establishment.—The Secretary shall es- |
| 21 | tablish a council, to be known as the "Energy Jobs |
| 22 | Council" (referred to in this section as the "Coun- |
| 23 | cil''). |
| 24 | (2) Membership.—The Council shall be com- |
| 25 | prised of— |

| 1 | (A) to be appointed by the Secretary— |
|----|--|
| 2 | (i) 1 or more representatives of the |
| 3 | Energy Information Administration; and |
| 4 | (ii) 1 or more representatives of a |
| 5 | State energy office that are serving as |
| 6 | members of the State Energy Advisory |
| 7 | Board established by section 365(g) of the |
| 8 | Energy Policy and Conservation Act (42 |
| 9 | U.S.C. 6325(g)); |
| 10 | (B) to be appointed by the Secretary of |
| 11 | Commerce— |
| 12 | (i) 1 or more representatives of the |
| 13 | Department of Commerce; and |
| 14 | (ii) 1 or more representatives of the |
| 15 | Bureau of the Census; |
| 16 | (C) 1 or more representatives of the Bu- |
| 17 | reau of Labor Statistics, to be appointed by the |
| 18 | Secretary of Labor; and |
| 19 | (D) 1 or more representatives of any other |
| 20 | Federal agency the assistance of which is re- |
| 21 | quired to carry out this section, as determined |
| 22 | by the Secretary, to be appointed by the head |
| 23 | of the applicable agency. |
| 24 | (b) Survey and Analysis.— |
| 25 | (1) In General.—The Council shall— |

| 1 | (A) conduct a survey of employers in the |
|----|---|
| 2 | energy, energy efficiency, and motor vehicle sec- |
| 3 | tors of the economy of the United States; and |
| 4 | (B) perform an analysis of the employment |
| 5 | figures and demographics in those sectors, in- |
| 6 | cluding the number of personnel in each sector |
| 7 | who devote a substantial portion of working |
| 8 | hours, as determined by the Secretary, to com- |
| 9 | pliance matters. |
| 10 | (2) Methodology.—In conducting the survey |
| 11 | and analysis under paragraph (1), the Council shall |
| 12 | employ a methodology that— |
| 13 | (A) was approved in 2016 by the Office of |
| 14 | Management and Budget for use in the docu- |
| 15 | ment entitled "OMB Control Number 1910- |
| 16 | 5179''; |
| 17 | (B) uses a representative, stratified sam- |
| 18 | pling of businesses in the United States; and |
| 19 | (C) is designed to elicit a comparable num- |
| 20 | ber of responses from businesses in each State |
| 21 | and with the same North American Industry |
| 22 | Classification System codes as were received for |
| 23 | the 2016 and 2017 reports entitled "U.S. En- |
| 24 | ergy and Employment Report". |
| | |

| 1 | (3) Consultation.—In conducting the survey |
|----|---|
| 2 | and analysis under paragraph (1), the Council shall |
| 3 | consult with key stakeholders, including— |
| 4 | (A) as the Council determines to be appro- |
| 5 | priate, the heads of relevant Federal agencies |
| 6 | and offices, including— |
| 7 | (i) the Secretary of Commerce; |
| 8 | (ii) the Secretary of Transportation; |
| 9 | (iii) the Director of the Bureau of the |
| 10 | Census; |
| 11 | (iv) the Commissioner of the Bureau |
| 12 | of Labor Statistics; and |
| 13 | (v) the Administrator of the Environ- |
| 14 | mental Protection Agency; |
| 15 | (B) States; |
| 16 | (C) the State Energy Advisory Board es- |
| 17 | tablished by section 365(g) of the Energy Pol- |
| 18 | icy and Conservation Act (42 U.S.C. 6325(g)); |
| 19 | and |
| 20 | (D) energy industry trade associations. |
| 21 | (c) Report.— |
| 22 | (1) IN GENERAL.—Not later than 1 year after |
| 23 | the date of enactment of this Act, and annually |
| 24 | thereafter, the Secretary shall— |

| 1 | (A) make publicly available on the website |
|----|--|
| 2 | of the Department a report, to be entitled the |
| 3 | "U.S. Energy and Employment Report", de- |
| 4 | scribing the employment figures and demo- |
| 5 | graphics in the energy, energy efficiency, and |
| 6 | motor vehicle sectors of the United States based |
| 7 | on the survey and analysis conducted under |
| 8 | subsection (b); and |
| 9 | (B) subject to the requirements of sub- |
| 10 | chapter III of chapter 35 of title 44, United |
| 11 | States Code, make the data collected by the |
| 12 | Council publicly available on the website of the |
| 13 | Department. |
| 14 | (2) Contents.— |
| 15 | (A) IN GENERAL.—The report under para- |
| 16 | graph (1) shall include employment figures and |
| 17 | demographic data for— |
| 18 | (i) the energy sector of the economy |
| 19 | of the United States, including— |
| 20 | (I) the electric power generation |
| 21 | and fuels sector; and |
| 22 | (II) the transmission, storage, |
| 23 | and distribution sector; |
| 24 | (ii) the energy efficiency sector of the |
| 25 | economy of the United States; and |

there is appropriated to the Secretary, out of any amounts

in the Treasury not otherwise appropriated, to provide

| 1 | grants authorized under section 546(b) of the National |
|----|--|
| 2 | Energy Conservation Policy Act (42 U.S.C. 8256(b)), |
| 3 | \$250,000,000 for fiscal year 2022, to remain available |
| 4 | until expended. |
| 5 | SEC. 5405. REBATES. |
| 6 | In addition to amounts otherwise made available, |
| 7 | there is appropriated to the Secretary, out of any amounts |
| 8 | in the Treasury not otherwise appropriated, for each of |
| 9 | fiscal years 2022 and 2023— |
| 10 | (1) \$5,000,000 for the extended product system |
| 11 | rebate program authorized under section 1005 of the |
| 12 | Energy Act of 2020 (42 U.S.C. 6311 note; Public |
| 13 | Law 116–260); and |
| 14 | (2) \$5,000,000 for the energy efficient trans- |
| 15 | former rebate program authorized under section |
| 16 | 1006 of the Energy Act of 2020 (42 U.S.C. 6317 |
| 17 | note; Public Law 116–260). |
| 18 | SEC. 5406. MODEL GUIDANCE FOR COMBINED HEAT AND |
| 19 | POWER SYSTEMS AND WASTE HEAT TO |
| 20 | POWER SYSTEMS. |
| 21 | (a) Definitions.—In this section: |
| 22 | (1) Additional services.—The term "addi- |
| 23 | tional services" means the provision of supple- |
| 24 | |

| 1 | nance power, or interruptible power to an electric |
|----|--|
| 2 | consumer by an electric utility. |
| 3 | (2) Waste heat to power system.— |
| 4 | (A) In general.—The term "waste heat |
| 5 | to power system" means a system that gen- |
| 6 | erates electricity through the recovery of waste |
| 7 | energy. |
| 8 | (B) Exclusion.—The term "waste heat |
| 9 | to power system" does not include a system |
| 10 | that generates electricity through the recovery |
| 11 | of a heat resource from a process the primary |
| 12 | purpose of which is the generation of electricity |
| 13 | using a fossil fuel. |
| 14 | (3) Other terms.— |
| 15 | (A) Purpa.—The terms "electric con- |
| 16 | sumer", "electric utility", "interconnection |
| 17 | service", "nonregulated electric utility", and |
| 18 | "State regulatory authority" have the meanings |
| 19 | given those terms in the Public Utility Regu- |
| 20 | latory Policies Act of 1978 (16 U.S.C. 2601 et |
| 21 | seq.), within the meaning of title I of that Act |
| 22 | (16 U.S.C. 2611 et seq.). |
| 23 | (B) EPCA.—The terms "combined heat |
| 24 | and power system" and "waste energy" have |
| 25 | the meanings given those terms in section 371 |

| 1 | of the Energy Policy and Conservation Act (42 |
|----|--|
| 2 | U.S.C. 6341). |
| 3 | (b) Review.— |
| 4 | (1) In general.—Not later than 180 days |
| 5 | after the date of enactment of this Act, the Sec- |
| 6 | retary, in consultation with the Federal Energy Reg- |
| 7 | ulatory Commission and other appropriate entities, |
| 8 | shall review existing rules and procedures relating to |
| 9 | interconnection service and additional services |
| 10 | throughout the United States for electric generation |
| 11 | with nameplate capacity up to 20 megawatts to |
| 12 | identify barriers to the deployment of combined heat |
| 13 | and power systems and waste heat to power systems. |
| 14 | (2) Inclusion.—The review under this sub- |
| 15 | section shall include a review of existing rules and |
| 16 | procedures relating to— |
| 17 | (A) determining and assigning costs of |
| 18 | interconnection service and additional services; |
| 19 | and |
| 20 | (B) ensuring adequate cost recovery by an |
| 21 | electric utility for interconnection service and |
| 22 | additional services. |
| 23 | (e) Model Guidance.— |
| 24 | (1) In General.—Not later than 18 months |
| 25 | after the date of enactment of this Act, the Sec- |

| 1 | retary, in consultation with the Federal Energy Reg- |
|----|---|
| 2 | ulatory Commission and other appropriate entities, |
| 3 | shall issue model guidance for interconnection serv- |
| 4 | ice and additional services for consideration by State |
| 5 | regulatory authorities and nonregulated electric utili- |
| 6 | ties to reduce the barriers identified under sub- |
| 7 | section (b)(1). |
| 8 | (2) CURRENT BEST PRACTICES.—The model |
| 9 | guidance issued under this subsection shall reflect, |
| 10 | to the maximum extent practicable, current best |
| 11 | practices to encourage the deployment of combined |
| 12 | heat and power systems and waste heat to power |
| 13 | systems while ensuring the safety and reliability of |
| 14 | the interconnected units and the distribution and |
| 15 | transmission networks to which the units connect, |
| 16 | including— |
| 17 | (A) relevant current standards developed |
| 18 | by the Institute of Electrical and Electronic En- |
| 19 | gineers; and |
| 20 | (B) model codes and rules adopted by— |
| 21 | (i) States; or |
| 22 | (ii) associations of State regulatory |
| 23 | agencies. |
| | |

| 1 | (3) Factors for consideration.—In estab- |
|----|---|
| 2 | lishing the model guidance under this subsection, the |
| 3 | Secretary shall take into consideration— |
| 4 | (A) the appropriateness of using standards |
| 5 | or procedures for interconnection service that |
| 6 | vary based on unit size, fuel type, or other rel- |
| 7 | evant characteristics; |
| 8 | (B) the appropriateness of establishing |
| 9 | fast-track procedures for interconnection serv- |
| 10 | ice; |
| 11 | (C) the value of consistency with Federal |
| 12 | interconnection rules established by the Federal |
| 13 | Energy Regulatory Commission as of the date |
| 14 | of enactment of this Act; |
| 15 | (D) the best practices used to model out- |
| 16 | age assumptions and contingencies to determine |
| 17 | fees or rates for additional services; |
| 18 | (E) the appropriate duration, magnitude, |
| 19 | or usage of demand charge ratchets; |
| 20 | (F) potential alternative arrangements |
| 21 | with respect to the procurement of additional |
| 22 | services, including— |
| 23 | (i) contracts tailored to individual |
| 24 | electric consumers for additional services; |

| 1 | (ii) procurement of additional services |
|--|---|
| 2 | by an electric utility from a competitive |
| 3 | market; and |
| 4 | (iii) waivers of fees or rates for addi- |
| 5 | tional services for small electric consumers; |
| 6 | and |
| 7 | (G) outcomes such as increased electric re- |
| 8 | liability, fuel diversification, enhanced power |
| 9 | quality, and reduced electric losses that may re- |
| 10 | sult from increased use of combined heat and |
| 11 | power systems and waste heat to power sys- |
| 12 | tems. |
| 13 | TITLE VI—METHANE |
| 14 | REDUCTION INFRASTRUCTURE |
| LŦ | |
| 15 | SEC. 6001. ORPHANED WELL SITE PLUGGING, REMEDI- |
| | |
| 15 | SEC. 6001. ORPHANED WELL SITE PLUGGING, REMEDI- |
| 15 16 17 | SEC. 6001. ORPHANED WELL SITE PLUGGING, REMEDIATION, AND RESTORATION. |
| 15 16 17 | SEC. 6001. ORPHANED WELL SITE PLUGGING, REMEDI- ATION, AND RESTORATION. Section 349 of the Energy Policy Act of 2005 (42) |
| 15 16 17 18 | SEC. 6001. ORPHANED WELL SITE PLUGGING, REMEDI- ATION, AND RESTORATION. Section 349 of the Energy Policy Act of 2005 (42 U.S.C. 15907) is amended to read as follows: |
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| 15 16 17 18 19 20 21 | SEC. 6001. ORPHANED WELL SITE PLUGGING, REMEDIATION, AND RESTORATION. Section 349 of the Energy Policy Act of 2005 (42 U.S.C. 15907) is amended to read as follows: "SEC. 349. ORPHANED WELL SITE PLUGGING, REMEDIATION, AND RESTORATION. "(a) DEFINITIONS.—In this section: "(1) FEDERAL LAND.—The term 'Federal land' |

| 1 | "(B) the Department of the Interior. |
|----|--|
| 2 | "(2) IDLED WELL.—The term 'idled well' |
| 3 | means a well— |
| 4 | "(A) that has been nonoperational for not |
| 5 | fewer than 4 years; and |
| 6 | "(B) for which there is no anticipated ben- |
| 7 | eficial future use. |
| 8 | "(3) Indian Tribe.—The term 'Indian Tribe' |
| 9 | has the meaning given the term in section 4 of the |
| 10 | Indian Self-Determination and Education Assistance |
| 11 | Act (25 U.S.C. 5304). |
| 12 | "(4) OPERATOR.—The term 'operator', with re- |
| 13 | spect to an oil or gas operation, means any entity, |
| 14 | including a lessee or operating rights owner, that |
| 15 | has provided to a relevant authority a written state- |
| 16 | ment that the entity is responsible for the oil or gas |
| 17 | operation, or any portion of the operation. |
| 18 | "(5) ORPHANED WELL.—The term 'orphaned |
| 19 | well'— |
| 20 | "(A) with respect to Federal land or Tribal |
| 21 | land, means a well— |
| 22 | "(i) that is not used for an authorized |
| 23 | purpose, such as production, injection, or |
| 24 | monitoring; and |

| 1 | structure Act, the Secretary shall establish a pro- |
|----|---|
| 2 | gram to plug, remediate, and reclaim orphaned wells |
| 3 | located on Federal land. |
| 4 | "(2) Included activities.—The program |
| 5 | under this subsection shall— |
| 6 | "(A) include a method of— |
| 7 | "(i) identifying, characterizing, and |
| 8 | inventorying orphaned wells and associated |
| 9 | pipelines, facilities, and infrastructure on |
| 10 | Federal land; and |
| 11 | "(ii) ranking those orphaned wells for |
| 12 | priority in plugging, remediation, and rec- |
| 13 | lamation, based on— |
| 14 | "(I) public health and safety; |
| 15 | "(II) potential environmental |
| 16 | harm; and |
| 17 | "(III) other subsurface impacts |
| 18 | or land use priorities; |
| 19 | "(B) distribute funding in accordance with |
| 20 | the priorities established under subparagraph |
| 21 | (A)(ii) for— |
| 22 | "(i) plugging orphaned wells; |
| 23 | "(ii) remediating and reclaiming well |
| 24 | pads and facilities associated with or- |
| 25 | phaned wells; |

| 1 | "(iii) remediating soil and restoring |
|----|---|
| 2 | native species habitat that has been de- |
| 3 | graded due to the presence of orphaned |
| 4 | wells and associated pipelines, facilities, |
| 5 | and infrastructure; and |
| 6 | "(iv) remediating land adjacent to or- |
| 7 | phaned wells and decommissioning or re- |
| 8 | moving associated pipelines, facilities, and |
| 9 | infrastructure; |
| 10 | "(C) provide a public accounting of the |
| 11 | costs of plugging, remediation, and reclamation |
| 12 | for each orphaned well; |
| 13 | "(D) seek to determine the identities of po- |
| 14 | tentially responsible parties associated with the |
| 15 | orphaned well (or a surety or guarantor of such |
| 16 | a party), to the extent such information can be |
| 17 | ascertained, and make efforts to obtain reim- |
| 18 | bursement for expenditures to the extent prac- |
| 19 | ticable; |
| 20 | "(E) measure and track— |
| 21 | "(i) emissions of methane and other |
| 22 | gases associated with orphaned wells; and |
| 23 | "(ii) contamination of groundwater or |
| 24 | surface water associated with orphaned |
| 25 | wells; and |

| 1 | "(F) identify and address any dispropor- |
|----|---|
| 2 | tionate burden of adverse human health or envi- |
| 3 | ronmental effects of orphaned wells on commu- |
| 4 | nities of color, low-income communities, and |
| 5 | Tribal and indigenous communities. |
| 6 | "(3) IDLED WELLS.—The Secretary, acting |
| 7 | through the Director of the Bureau of Land Man- |
| 8 | agement, shall— |
| 9 | "(A) periodically review all idled wells on |
| 10 | Federal land; and |
| 11 | "(B) reduce the inventory of idled wells on |
| 12 | Federal land. |
| 13 | "(4) Cooperation and consultation.—In |
| 14 | carrying out the program under this subsection, the |
| 15 | Secretary shall— |
| 16 | "(A) work cooperatively with— |
| 17 | "(i) the Secretary of Agriculture; |
| 18 | "(ii) affected Indian Tribes; and |
| 19 | "(iii) each State within which Federal |
| 20 | land is located; and |
| 21 | "(B) consult with— |
| 22 | "(i) the Secretary of Energy; and |
| 23 | "(ii) the Interstate Oil and Gas Com- |
| 24 | pact Commission. |
| 25 | "(c) Funding for State Programs.— |

| 1 | "(1) In general.—The Secretary shall provide |
|----|--|
| 2 | to States, in accordance with this subsection— |
| 3 | "(A) initial grants under paragraph (3); |
| 4 | "(B) formula grants under paragraph (4); |
| 5 | and |
| 6 | "(C) performance grants under paragraph |
| 7 | (5). |
| 8 | "(2) Activities.— |
| 9 | "(A) In General.—A State may use |
| 10 | funding provided under this subsection for any |
| 11 | of the following purposes: |
| 12 | "(i) To plug, remediate, and reclaim |
| 13 | orphaned wells located on State-owned or |
| 14 | privately owned land. |
| 15 | "(ii) To identify and characterize un- |
| 16 | documented orphaned wells on State and |
| 17 | private land. |
| 18 | "(iii) To rank orphaned wells based |
| 19 | on factors including— |
| 20 | "(I) public health and safety; |
| 21 | "(II) potential environmental |
| 22 | harm; and |
| 23 | "(III) other land use priorities. |

enous communities.

a request for funding under this clause, in-

cluding—

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| 1 | "(II) does not receive a grant |
| 2 | under clause (i); and |
| 3 | "(III) certifies to the Secretary |
| 4 | that— |
| 5 | "(aa) the State— |
| 6 | "(AA) has in effect a |
| 7 | plugging, remediation, and |
| 8 | reclamation program for or- |
| 9 | phaned wells; or |
| 10 | "(BB) the capacity to |
| 11 | initiate such a program; or |
| 12 | "(bb) the funds provided |
| 13 | under this paragraph will be used |
| 14 | to carry out any administrative |
| 15 | actions necessary to develop an |
| 16 | application for a formula grant |
| 17 | under paragraph (4) or a per- |
| 18 | formance grant under paragraph |
| 19 | (5). |
| 20 | "(B) DISTRIBUTION.—The Secretary shall |
| 21 | distribute funds to a State under this para- |
| 22 | graph by not later than the date that is 30 days |
| 23 | after the date on which the State submits to |
| 24 | the Secretary the certification required under |

| 1 | clause (i)(II) or (ii)(III) of subparagraph (A), |
|----|--|
| 2 | as applicable. |
| 3 | "(C) Deadline for expenditure.—A |
| 4 | State that receives funds under this paragraph |
| 5 | shall reimburse the Secretary in an amount |
| 6 | equal to the amount of the funds that remain |
| 7 | unobligated on the date that is 1 year after the |
| 8 | date of receipt of the funds. |
| 9 | "(D) Report.—Not later than 15 months |
| 10 | after the date on which a State receives funds |
| 11 | under this paragraph, the State shall submit to |
| 12 | the Secretary a report that describes the means |
| 13 | by which the State used the funds in accord- |
| 14 | ance with the certification submitted by the |
| 15 | State under subparagraph (A). |
| 16 | "(4) FORMULA GRANTS.— |
| 17 | "(A) Establishment.— |
| 18 | "(i) In General.—The Secretary |
| 19 | shall establish a formula for the distribu- |
| 20 | tion to each State described in clause (ii) |
| 21 | of funds under this paragraph. |
| 22 | "(ii) Description of states.—A |
| 23 | State referred to in clause (i) is a State |
| 24 | that, by not later than 45 days after the |
| 25 | date of enactment of the Energy Infra- |

of the State to carry out proposed ac-

tivities using the grant;

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| 1 | after the date on which the State submits to |
|----|--|
| 2 | the Secretary a completed application under |
| 3 | subparagraph (B). |
| 4 | "(D) Deadline for expenditure.—A |
| 5 | State that receives funds under this paragraph |
| 6 | shall reimburse the Secretary in an amount |
| 7 | equal to the amount of the funds that remain |
| 8 | unobligated on the date that is 5 years after the |
| 9 | date of receipt of the funds. |
| 10 | "(E) Consultation.—In making a deter- |
| 11 | mination under this paragraph regarding the |
| 12 | eligibility of a State to receive a formula grant, |
| 13 | the Secretary shall consult with— |
| 14 | "(i) the Administrator of the Environ- |
| 15 | mental Protection Agency; |
| 16 | "(ii) the Secretary of Energy; and |
| 17 | "(iii) the Interstate Oil and Gas Com- |
| 18 | pact Commission. |
| 19 | "(5) Performance grants.— |
| 20 | "(A) ESTABLISHMENT.—The Secretary |
| 21 | shall provide to States, in accordance with this |
| 22 | paragraph— |
| 23 | "(i) regulatory improvement grants |
| 24 | under subparagraph (E); and |

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| 1 | "(ii) matching grants under subpara |
|----|---|
| 2 | graph (F). |
| 3 | "(B) APPLICATION.—To be eligible to re |
| 4 | ceive a grant under this paragraph, a State |
| 5 | shall submit to the Secretary an application in |
| 6 | cluding— |
| 7 | "(i) each element described in an ap |
| 8 | plication for a grant under paragraph |
| 9 | (4)(B); |
| 10 | "(ii) activities carried out by the State |
| 11 | to address orphaned wells located in the |
| 12 | State, including— |
| 13 | "(I) increasing State spending or |
| 14 | well plugging, remediation, and rec |
| 15 | lamation; or |
| 16 | "(II) improving regulation of oi |
| 17 | and gas wells; and |
| 18 | "(iii) the means by which the State |
| 19 | will use funds provided under this para |
| 20 | graph— |
| 21 | "(I) to lower unemployment in |
| 22 | the State; and |
| 23 | "(II) to improve economic condi |
| 24 | tions in economically distressed areas |
| 25 | of the State. |

| 1 | "(C) DISTRIBUTION.—The Secretary shall |
|----|--|
| 2 | distribute funds to a State under this para- |
| 3 | graph by not later than the date that is 60 days |
| 4 | after the date on which the State submits to |
| 5 | the Secretary a completed application under |
| 6 | subparagraph (B). |
| 7 | "(D) Consultation.—In making a deter- |
| 8 | mination under this paragraph regarding the |
| 9 | eligibility of a State to receive a grant under |
| 10 | subparagraph (E) or (F), the Secretary shall |
| 11 | consult with— |
| 12 | "(i) the Administrator of the Environ- |
| 13 | mental Protection Agency; |
| 14 | "(ii) the Secretary of Energy; and |
| 15 | "(iii) the Interstate Oil and Gas Com- |
| 16 | pact Commission. |
| 17 | "(E) REGULATORY IMPROVEMENT |
| 18 | GRANTS.— |
| 19 | "(i) In general.—Beginning on the |
| 20 | date that is 180 days after the date on |
| 21 | which an initial grant is provided to a |
| 22 | State under paragraph (3), the Secretary |
| 23 | shall provide to the State a regulatory im- |
| 24 | provement grant under this subparagraph, |
| 25 | if the State meets, during the 10-year pe- |

| 1 | riod ending on the date on which the State |
|----|--|
| 2 | submits to the Secretary an application |
| 3 | under subparagraph (B), 1 of the following |
| 4 | criteria: |
| 5 | "(I) The State has strengthened |
| 6 | plugging standards and procedures |
| 7 | designed to ensure that wells located |
| 8 | in the State are plugged in an effec- |
| 9 | tive manner that protects ground- |
| 10 | water and other natural resources |
| 11 | public health and safety, and the envi- |
| 12 | ronment. |
| 13 | "(II) The State has made im- |
| 14 | provements to State programs de- |
| 15 | signed to reduce future orphaned well |
| 16 | burdens, such as financial assurance |
| 17 | reform, alternative funding mecha- |
| 18 | nisms for orphaned well programs, |
| 19 | and reforms to programs relating to |
| 20 | well transfer or temporary abandon- |
| 21 | ment. |
| 22 | "(ii) Limitations.— |
| 23 | "(I) Number.—The Secretary |
| 24 | may issue to a State under this sub- |
| 25 | paragraph not more than 1 grant for |

"(ii) Limitations.—

cal year for administrative costs under

subparagraph (A)(vi).

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| 1 | "(ii) Exception.—The limitation |
|----|---|
| 2 | under clause (i) shall not apply to any |
| 3 | funds used to carry out an administrative |
| 4 | action necessary for the development of a |
| 5 | Tribal program described in subparagraph |
| 6 | (A)(vi). |
| 7 | "(3) Factors for consideration.—In deter- |
| 8 | mining whether to provide to an Indian Tribe a |
| 9 | grant under this subsection, the Secretary shall take |
| 10 | into consideration— |
| 11 | "(A) the unemployment rate of the Indian |
| 12 | Tribe on the date on which the Indian Tribe |
| 13 | submits an application under paragraph (4); |
| 14 | and |
| 15 | "(B) the estimated number of orphaned |
| 16 | wells on the Tribal land of the Indian Tribe. |
| 17 | "(4) Application.—To be eligible to receive a |
| 18 | grant under this subsection, an Indian Tribe shall |
| 19 | submit to the Secretary an application that in- |
| 20 | cludes— |
| 21 | "(A) a description of— |
| 22 | "(i) the Tribal program for orphaned |
| 23 | well plugging, remediation, and restora- |
| 24 | tion, including legal authorities, processes |
| 25 | used to identify and prioritize orphaned |

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| 1 | wells, procurement mechanisms, and other |
|----|---|
| 2 | program elements demonstrating the readi- |
| 3 | ness of the Indian Tribe to carry out the |
| 4 | proposed activities, or plans to develop |
| 5 | such a program; and |
| 6 | "(ii) the activities to be carried our |
| 7 | with the grant, including an identification |
| 8 | of the estimated health, safety, habitat |
| 9 | and environmental benefits of plugging, re- |
| 10 | mediating, or reclaiming orphaned wells |
| 11 | and remediating or reclaiming adjacent |
| 12 | land; and |
| 13 | "(B) an estimate of— |
| 14 | "(i) the number of orphaned wells |
| 15 | that will be plugged, remediated, or re- |
| 16 | claimed; and |
| 17 | "(ii) the projected cost of— |
| 18 | "(I) plugging, remediating, or re- |
| 19 | claiming orphaned wells; |
| 20 | "(II) remediating or reclaiming |
| 21 | adjacent land; and |
| 22 | "(III) decommissioning or remove |
| 23 | ing associated pipelines, facilities, and |
| 24 | infrastructure. |

| 1 | "(5) DISTRIBUTION.—The Secretary shall dis- |
|----|---|
| 2 | tribute funds to an Indian Tribe under this sub- |
| 3 | section by not later than the date that is 60 days |
| 4 | after the date on which the Indian Tribe submits to |
| 5 | the Secretary a completed application under para- |
| 6 | graph (4). |
| 7 | "(6) Deadline for expenditure.—An In- |
| 8 | dian Tribe that receives funds under this subsection |
| 9 | shall reimburse the Secretary in an amount equal to |
| 10 | the amount of the funds that remain unobligated on |
| 11 | the date that is 5 years after the date of receipt of |
| 12 | the funds. |
| 13 | "(7) Delegation to secretary.— |
| 14 | "(A) IN GENERAL.—An Indian Tribe on |
| 15 | the Tribal land of which is located an orphaned |
| 16 | well may submit to the Secretary a request for |
| 17 | the Secretary to administer and carry out plug- |
| 18 | ging, remediation, and reclamation activities re- |
| 19 | lating to the orphaned well on behalf of the In- |
| 20 | dian Tribe. |
| 21 | "(B) Treatment.—For the purposes of |
| 22 | subsection (b), an orphaned well with respect to |
| 23 | which an Indian Tribe of jurisdiction has sub- |
| 24 | mitted to the Secretary a request under sub- |
| 25 | paragraph (A) shall be considered to be located |

| 1 | on Federal land administered by a land man- |
|----|--|
| 2 | agement agency within the Department of the |
| 3 | Interior. |
| 4 | "(e) Technical Assistance.—The Secretary of |
| 5 | Energy, in cooperation with the Secretary and the Inter- |
| 6 | state Oil and Gas Compact Commission, shall provide |
| 7 | technical assistance to the Federal land management |
| 8 | agencies and oil and gas producing States and Indian |
| 9 | Tribes to support practical and economical remedies for |
| 10 | environmental problems caused by orphaned wells on Fed- |
| 11 | eral land, Tribal land, and State and private land, includ- |
| 12 | ing the sharing of best practices in the management of |
| 13 | oil and gas well inventories to ensure the availability of |
| 14 | funds to plug, remediate, and restore oil and gas well sites |
| 15 | on cessation of operation. |
| 16 | "(f) Report to Congress.—Not later than 1 year |
| 17 | after the date of enactment of the Energy Infrastructure |
| 18 | Act, and not less frequently than annually thereafter, the |
| 19 | Secretary shall submit to the Committees on Appropria- |
| 20 | tions and Energy and Natural Resources of the Senate |
| 21 | and the Committees on Appropriations and Natural Re- |
| 22 | sources of the House of Representatives a report describ- |
| 23 | ing the program established and grants awarded under |
| 24 | this section, including— |

| 1 | "(1) an updated inventory of wells located on |
|----|--|
| 2 | Federal land, Tribal land, and State and private |
| 3 | land that are— |
| 4 | "(A) orphaned wells; or |
| 5 | "(B) at risk of becoming orphaned wells; |
| 6 | "(2) an estimate of the quantities of— |
| 7 | "(A) methane and other gasses emitted |
| 8 | from orphaned wells; and |
| 9 | "(B) emissions reduced as a result of plug- |
| 10 | ging, remediating, and reclaiming orphaned |
| 11 | wells; |
| 12 | "(3) the number of jobs created and saved |
| 13 | through the plugging, remediation, and reclamation |
| 14 | of orphaned wells; and |
| 15 | "(4) the acreage of habitat restored using |
| 16 | grants awarded to plug, remediate, and reclaim or- |
| 17 | phaned wells and to remediate or reclaim adjacent |
| 18 | land, together with a description of the purposes for |
| 19 | which that land is likely to be used in the future. |
| 20 | "(g) Effect of Section.— |
| 21 | "(1) NO EXPANSION OF LIABILITY.—Nothing in |
| 22 | this section establishes or expands the responsibility |
| 23 | or liability of any entity with respect to— |
| 24 | "(A) plugging any well; or |

| 1 | "(B) remediating or reclaiming any well |
|----|---|
| 2 | site. |
| 3 | "(2) Tribal land.—Nothing in this section— |
| 4 | "(A) relieves the Secretary of any obliga- |
| 5 | tion under section 3 of the Act of May 11, 1938 |
| 6 | (25 U.S.C. 396c; 52 Stat. 348, chapter 198), to |
| 7 | plug, remediate, or reclaim an orphaned well lo- |
| 8 | cated on Tribal land; or |
| 9 | "(B) absolves the United States from a re- |
| 10 | sponsibility to plug, remediate, or reclaim an |
| 11 | orphaned well located on Tribal land or any |
| 12 | other responsibility to an Indian Tribe, includ- |
| 13 | ing any responsibility that derives from— |
| 14 | "(i) the trust relationship between the |
| 15 | United States and Indian Tribes; |
| 16 | "(ii) any treaty, law, or Executive |
| 17 | order; or |
| 18 | "(iii) any agreement between the |
| 19 | United States and an Indian Tribe. |
| 20 | "(3) Owner or operator not absolved.— |
| 21 | Nothing in this section absolves the owner or oper- |
| 22 | ator of an oil or gas well of any potential liability |
| 23 | for— |
| 24 | "(A) reimbursement of any plugging or |
| 25 | reclamation costs associated with the well; or |

| 1 | "(B) any adverse effect of the well on the |
|----|---|
| 2 | environment. |
| 3 | "(h) Funding.— |
| 4 | "(1) Appropriations.—Out of any amounts in |
| 5 | the Treasury not otherwise appropriated, the Sec- |
| 6 | retary of the Treasury shall transfer the following |
| 7 | amounts, to remain available until September 30, |
| 8 | 2030: |
| 9 | "(A) To the Secretary— |
| 10 | "(i) \$250,000,000 to carry out the |
| 11 | program under subsection (b); |
| 12 | "(ii) \$775,000,000 to provide grants |
| 13 | under subsection (c)(3); |
| 14 | "(iii) \$2,000,000,000 to provide |
| 15 | grants under subsection $(c)(4)$; |
| 16 | "(iv) \$1,500,000,000 to provide |
| 17 | grants under subsection $(c)(5)$; and |
| 18 | "(v) \$150,000,000 to carry out the |
| 19 | program under subsection (d). |
| 20 | "(B) To the Secretary of Energy, |
| 21 | \$30,000,000 to conduct research and develop- |
| 22 | ment activities in cooperation with the Inter- |
| 23 | state Oil and Gas Compact Commission to as- |
| 24 | sist the Federal land management agencies, |
| 25 | States, and Indian Tribes in— |

| 1 | "(i) identifying and characterizing un- |
|---|--|
| 2 | documented orphaned wells; and |
| 3 | "(ii) mitigating the environmental |
| 4 | risks of undocumented orphaned wells. |
| 5 | "(C) To the Interstate Oil and Gas Com- |
| 6 | pact Commission, \$2,000,000 to carry out this |
| 7 | section. |
| 8 | "(2) Receipt and acceptance.—The Sec- |
| 9 | retary, the Secretary of Energy, and the Interstate |
| 10 | Oil and Gas Compact Commission shall be entitled |
| 11 | to receive, shall accept, and shall use to carry out |
| 12 | this section the funds transferred under subpara- |
| 13 | graphs (A), (B), and (C), respectively, of paragraph |
| 14 | (1), without further appropriation.". |
| | |
| 15 | SEC. 6002. NEPA REVIEW OF CERTAIN PIPELINE PLACE- |
| 15 16 | SEC. 6002. NEPA REVIEW OF CERTAIN PIPELINE PLACE- MENT ACTIVITIES. |
| | |
| 16 17 | MENT ACTIVITIES. |
| 16 17 | MENT ACTIVITIES. Section 390 of the Energy Policy Act of 2005 (42) |
| 16 17 18 | MENT ACTIVITIES. Section 390 of the Energy Policy Act of 2005 (42 U.S.C. 15942) is amended— |
| 16 17 18 19 | MENT ACTIVITIES. Section 390 of the Energy Policy Act of 2005 (42 U.S.C. 15942) is amended— (1) in subsection (b)(4), by striking "pipeline in |
| 16 17 18 19 20 | MENT ACTIVITIES. Section 390 of the Energy Policy Act of 2005 (42 U.S.C. 15942) is amended— (1) in subsection (b)(4), by striking "pipeline in an approved" and inserting "pipeline, or a field or |
| 116 117 118 119 220 221 | MENT ACTIVITIES. Section 390 of the Energy Policy Act of 2005 (42 U.S.C. 15942) is amended— (1) in subsection (b)(4), by striking "pipeline in an approved" and inserting "pipeline, or a field or a field compression or pumping unit associated with |
| 116 117 118 119 220 221 222 | MENT ACTIVITIES. Section 390 of the Energy Policy Act of 2005 (42 U.S.C. 15942) is amended— (1) in subsection (b)(4), by striking "pipeline in an approved" and inserting "pipeline, or a field or a field compression or pumping unit associated with a pipeline, in any existing disturbed area so long as |

| 1 | (2) by adding at the end the following: |
|----|--|
| 2 | "(c) Effect.—The presumption under subsection |
| 3 | (a) shall be considered to be rebutted if the Secretary of |
| 4 | the Interior or the Secretary of Agriculture, as applicable, |
| 5 | determines that extraordinary circumstances preclude the |
| 6 | use of such a categorical exclusion.". |
| 7 | TITLE VII—ABANDONED MINE |
| 8 | LAND RECLAMATION |
| 9 | SEC. 7001. ABANDONED MINE RECLAMATION FUND DIRECT |
| 10 | APPROPRIATIONS. |
| 11 | (a) In General.—In addition to amounts otherwise |
| 12 | made available, there is appropriated, for deposit into the |
| 13 | Abandoned Mine Reclamation Fund established by section |
| 14 | 401(a) of the Surface Mining Control and Reclamation |
| 15 | Act of 1977 (30 U.S.C. 1231(a)), out of any amounts in |
| 16 | the Treasury not otherwise appropriated |
| 17 | \$11,293,000,000 for fiscal year 2021, to remain available |
| 18 | until expended. |
| 19 | (b) Use of Funds.— |
| 20 | (1) In general.—Subject to subsection (f) |
| 21 | amounts appropriated under subsection (a) shall be |
| 22 | used to provide grants, as expeditiously as prac- |
| 23 | ticable but by not later than September 30, 2036, to |
| 24 | States and Indian Tribes described in paragraph (2) |
| 25 | for abandoned mine land and water reclamation |

| 1 | projects under the Surface Mining Control and Rec- |
|----|--|
| 2 | lamation Act of 1977 (30 U.S.C. 1201 et seq.). |
| 3 | (2) ELIGIBLE GRANT RECIPIENTS.—Grants |
| 4 | may be made under paragraph (1) to— |
| 5 | (A) States and Indian Tribes that have a |
| 6 | State or Tribal program approved under section |
| 7 | 405 of the Surface Mining Control and Rec- |
| 8 | lamation Act of 1977 (30 U.S.C. 1235); and |
| 9 | (B) States and Indian Tribes that are re- |
| 10 | ferred to in section $402(g)(8)(B)$ of that Act |
| 11 | (30 U.S.C. 1232(g)(8)(B)). |
| 12 | (e) Allocation.—Grant amounts under subsection |
| 13 | (b)(1) shall be allocated based on the proportion of |
| 14 | unreclaimed eligible land and water the State or Indian |
| 15 | Tribe has in the inventory maintained under section |
| 16 | 403(c) of the Surface Mining Control and Reclamation |
| 17 | Act of 1977 (30 U.S.C. 1233(c)). |
| 18 | (d) Total Amount of Grant.—The total amount |
| 19 | of grant funding provided under subsection $(b)(1)$ to an |
| 20 | eligible Indian Tribe shall be not less than \$20,000,000, |
| 21 | to the extent that the amount needed for reclamation |
| 22 | projects described in this paragraph on the land of the |
| 23 | Indian Tribe is not less than \$20,000,000. |
| 24 | (e) Priority.—In addition to the priorities described |
| 25 | in section 403(a) of the Surface Mining Control and Rec- |

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- 1 lamation Act of 1977 (30 U.S.C. 1233(a)), in providing
- 2 grants under this section, priority may also be given to
- 3 reclamation projects described in subsection (b)(1) that
- 4 provide employment for former coal mine workers.
- 5 (f) Reservation.—Of the funds made available by
- 6 subsection (a), \$50,000,000 shall be made available to the
- 7 Secretary of the Interior to provide States and Indian
- 8 Tribes with the financial and technical assistance nec-
- 9 essary for the purpose of making amendments to the in-
- 10 ventory maintained under section 403(c) of the Surface
- 11 Mining Control and Reclamation Act of 1977 (30 U.S.C.
- 12 1233(c)).
- 13 TITLE VIII—NATURAL RE-
- 14 **SOURCES-RELATED INFRA-**
- 15 STRUCTURE, WILDFIRE MAN-
- 16 AGEMENT, AND ECOSYSTEM
- 17 **RESTORATION**
- 18 SEC. 8001. FOREST SERVICE LEGACY ROAD AND TRAIL RE-
- 19 **MEDIATION PROGRAM.**
- 20 Public Law 88–657 (16 U.S.C. 532 et seq.) (com-
- 21 monly known as the "Forest Roads and Trails Act") is
- 22 amended by adding at the end the following:

| 1 | "SEC. 8. FOREST SERVICE LEGACY ROAD AND TRAIL REME- |
|----|--|
| 2 | DIATION PROGRAM. |
| 3 | "(a) Establishment.—The Secretary shall estab- |
| 4 | lish the Forest Service Legacy Road and Trail Remedi- |
| 5 | ation Program (referred to in this section as the 'Pro- |
| 6 | gram'). |
| 7 | "(b) Activities.—In carrying out the Program, the |
| 8 | Secretary shall, taking into account foreseeable changes |
| 9 | in weather and hydrology— |
| 10 | "(1) restore passages for fish and other aquation |
| 11 | species by removing, repairing, or replacing unnatu- |
| 12 | ral barriers from those passages; |
| 13 | "(2) decommission unauthorized user-created |
| 14 | roads and trails that are not a National Forest Sys- |
| 15 | tem road or a National Forest System trail; |
| 16 | "(3) prepare National Forest System roads for |
| 17 | long-term storage, in accordance with subsections |
| 18 | (c)(1) and (d), in a manner that— |
| 19 | "(A) prevents motor vehicle use; |
| 20 | "(B) prevents the roads from damaging |
| 21 | adjacent resources, including aquatic and wild- |
| 22 | life resources; |
| 23 | "(C) reduces or eliminates the need for |
| 24 | road maintenance; and |
| 25 | "(D) preserves the roads for future use; |

| 1 | "(4) decommission National Forest System |
|----|---|
| 2 | roads and trails in accordance with subsections |
| 3 | (c)(1) and (d); |
| 4 | "(5) relocate National Forest System roads and |
| 5 | trails to increase storm resilience; and |
| 6 | "(6) convert National Forest System roads to |
| 7 | National Forest System trails. |
| 8 | "(e) Project Selection.— |
| 9 | "(1) Project eligibility.— |
| 10 | "(A) IN GENERAL.—The Secretary may |
| 11 | only fund under the Program a project de- |
| 12 | scribed in paragraph (3) or (4) of subsection |
| 13 | (b) if the Secretary previously and separately— |
| 14 | "(i) solicited public comment for |
| 15 | changing the management status of the |
| 16 | applicable National Forest System road or |
| 17 | trail— |
| 18 | "(I) to close the road or trail to |
| 19 | access; and |
| 20 | "(II) to minimize impacts to nat- |
| 21 | ural resources; and |
| 22 | "(ii) changed the management status |
| 23 | as described in clause (i). |
| 24 | "(B) Requirement.—Each project car- |
| 25 | ried out under the Program shall be on a Na- |

| 1 | tional Forest System road or trail, except with |
|----|---|
| 2 | respect to— |
| 3 | "(i) a project described in subsection |
| 4 | (b)(2); or |
| 5 | "(ii) a project carried out on a water- |
| 6 | shed for which the Secretary has entered |
| 7 | into a cooperative agreement under section |
| 8 | 323 of the Department of the Interior and |
| 9 | Related Agencies Appropriations Act, 1999 |
| 10 | (16 U.S.C. 1011a). |
| 11 | "(2) Annual selection of projects for |
| 12 | FUNDING.—The Secretary shall— |
| 13 | "(A) establish a process for annually se- |
| 14 | lecting projects for funding under the Program, |
| 15 | consistent with the requirements of this section; |
| 16 | "(B) solicit and consider public input re- |
| 17 | gionally in the ranking of projects for funding |
| 18 | under the Program; |
| 19 | "(C) give priority for funding under the |
| 20 | Program to projects that would— |
| 21 | "(i) protect or improve water quality |
| 22 | in public drinking water source areas; |
| 23 | "(ii) restore the habitat of a threat- |
| 24 | ened, endangered, or sensitive fish or wild- |
| 25 | life species; or |

| 1 | "(iii) maintain future access to the |
|----|---|
| 2 | adjacent area for the public, contractors, |
| 3 | permittees, or firefighters; and |
| 4 | "(D) publish on the website of the Forest |
| 5 | Service— |
| 6 | "(i) the selection process established |
| 7 | under subparagraph (A); and |
| 8 | "(ii) a list that includes a description |
| 9 | and the proposed outcome of each project |
| 10 | funded under the Program in each fiscal |
| 11 | year. |
| 12 | "(d) Implementation.—In implementing the Pro- |
| 13 | gram, the Secretary shall ensure that the system of roads |
| 14 | and trails on the applicable unit of the National Forest |
| 15 | System— |
| 16 | "(1) is adequate to meet any increasing de- |
| 17 | mands for timber, recreation, and other uses; |
| 18 | "(2) provides for intensive use, protection, de- |
| 19 | velopment, and management of the land under prin- |
| 20 | ciples of multiple use and sustained yield of products |
| 21 | and services; |
| 22 | "(3) does not damage, degrade, or impair adja- |
| 23 | cent resources, including aquatic and wildlife re- |
| 24 | sources, to the extent practicable; and |
| 25 | "(4) reflects long-term funding expectations. |

| 1 | "(e) Authorization of Appropriations.—There |
|----|--|
| 2 | is authorized to be appropriated to carry out this section |
| 3 | \$100,000,000 for each fiscal year. |
| 4 | "(f) Appropriations.—In addition to amounts oth- |
| 5 | erwise made available, there is appropriated to the Sec- |
| 6 | retary to carry out this section, out of any amounts in |
| 7 | the Treasury not otherwise appropriated, \$50,000,000 for |
| 8 | each of fiscal years 2022 through 2026.". |
| 9 | SEC. 8002. STUDY AND REPORT ON FEASIBILITY OF RE- |
| 10 | VEGETATING RECLAIMED MINE SITES. |
| 11 | (a) In General.—Not later than 1 year after the |
| 12 | date of enactment of this Act, the Secretary of the Inte- |
| 13 | rior, acting through the Director of the Office of Surface |
| 14 | Mining Reclamation and Enforcement, shall conduct, and |
| 15 | submit to Congress a report describing the results of, a |
| 16 | study on the feasibility of revegetating reclaimed mined |
| 17 | sites. |
| 18 | (b) Inclusions.—The report submitted under sub- |
| 19 | section (a) shall include— |
| 20 | (1) recommendations for how a program could |
| 21 | be implemented through the Office of Surface Min- |
| 22 | ing Reclamation and Enforcement to revegetate re- |
| 23 | claimed mined sites; |

| 1 | (2) identifications of reclaimed mine sites that |
|----|---|
| 2 | would be suitable for inclusion in such a program, |
| 3 | including sites on land that— |
| 4 | (A) is subject to title IV of the Surface |
| 5 | Mining Control and Reclamation Act of 1977 |
| 6 | (30 U.S.C. 1231 et seq.); and |
| 7 | (B) is not subject to that title; |
| 8 | (3) a description of any barriers to implementa- |
| 9 | tion of such a program, including whether the pro- |
| 10 | gram would potentially interfere with the authorities |
| 11 | contained in, or the implementation of, the Surface |
| 12 | Mining Control and Reclamation Act of 1977 (30 |
| 13 | U.S.C. 1201 et seq.), including the Abandoned Mine |
| 14 | Reclamation Fund created by section 401 of that |
| 15 | Act (30 U.S.C. 1231) and State reclamation pro- |
| 16 | grams under section 405 of that Act (30 U.S.C. |
| 17 | 1235); and |
| 18 | (4) a description of the potential for job cre- |
| 19 | ation and workforce needs if such a program was |
| 20 | implemented. |
| 21 | SEC. 8003. WILDFIRE RISK REDUCTION. |
| 22 | (a) Appropriations.—In addition to amounts other- |
| 23 | wise made available, there is appropriated to the Secretary |
| 24 | of the Interior and the Secretary of Agriculture, acting |
| 25 | through the Chief of the Forest Service, for the activities |

| 1 | described in subsection (c), out of any amounts in the |
|---------------------------------|---|
| 2 | Treasury not otherwise appropriated, \$3,500,000,000. |
| 3 | (b) Treatment.—Of the 46,820,000 acres of Fed- |
| 4 | eral land or land held in trust for an Indian Tribe that |
| 5 | have been identified as having a very high wildfire hazard |
| 6 | potential, the Secretary of the Interior and the Secretary |
| 7 | of Agriculture, acting through the Chief of the Forest |
| 8 | Service, shall, by not later than September 30, 2027, con- |
| 9 | duct restoration treatments and change the Fire Regime |
| 10 | Condition Class of 10,000,000 acres that are located in— |
| 11 | (1) the wildland-urban interface; or |
| 12 | (2) a public drinking water source area. |
| 13 | (c) ACTIVITIES.—The amounts made available under |
| 14 | subsection (a) shall be expended in the following amounts |
| 15 | and for the following activities: |
| 16 | (1) \$100,000,000 \$ |
| | (1) \$100,000,000 for entering into an agree- |
| 17 | ment with the Director of the National Weather |
| 1718 | |
| | ment with the Director of the National Weather |
| 18 | ment with the Director of the National Weather Service to establish and operate a program that |
| 18 19 | ment with the Director of the National Weather Service to establish and operate a program that makes use of the Geostationary Operational Envi- |
| 18 19 20 | ment with the Director of the National Weather Service to establish and operate a program that makes use of the Geostationary Operational Envi- ronmental Satellite Program to rapidly detect and |
| 18 19 20 21 | ment with the Director of the National Weather Service to establish and operate a program that makes use of the Geostationary Operational Envi- ronmental Satellite Program to rapidly detect and report wildfire starts in all areas in which the Sec- |

| 1 | (A) the Secretary of the Interior may ex- |
|----|--|
| 2 | pend \$50,000,000; and |
| 3 | (B) the Secretary of Agriculture may ex- |
| 4 | pend \$50,000,000. |
| 5 | (2) \$600,000,000 for the salaries and expenses |
| 6 | of Federal wildland firefighters in accordance with |
| 7 | subsection (d), of which— |
| 8 | (A) the Secretary of the Interior may ex- |
| 9 | pend \$120,000,000; and |
| 10 | (B) the Secretary of Agriculture may ex- |
| 11 | pend \$480,000,000. |
| 12 | (3) \$20,000,000 for the Secretary of the Inte- |
| 13 | rior to acquire technology and infrastructure for |
| 14 | each Type I and Type II incident management team |
| 15 | to maintain interoperability with respect to the radio |
| 16 | frequencies used by any responding agency. |
| 17 | (4) \$30,000,000 for the Secretary of Agri- |
| 18 | culture to provide financial assistance to States and |
| 19 | units of local government to establish and operate |
| 20 | Reverse-911 telecommunication systems. |
| 21 | (5) \$100,000,000 for the Secretary of the Inte- |
| 22 | rior to establish and implement a pilot program to |
| 23 | provide to local governments financial assistance for |
| 24 | the acquisition of slip-on tanker units to establish |
| | |

| 1 | fleets of vehicles that can be quickly converted to be |
|----|--|
| 2 | operated as fire engines. |
| 3 | (6) \$2,000,000 for the Secretary of Agriculture |
| 4 | to develop and publish, not later than 180 days after |
| 5 | the date of enactment of this Act, and every 5 years |
| 6 | thereafter, a map depicting at-risk communities (as |
| 7 | defined in section 101 of the Healthy Forests Res- |
| 8 | toration Act of 2003 (16 U.S.C. 6511)), including |
| 9 | Tribal at-risk communities. |
| 10 | (7) \$100,000,000 for pre-planning fire response |
| 11 | workshops that develop Potential Operational Delin- |
| 12 | eations and select potential control locations, of |
| 13 | which— |
| 14 | (A) the Secretary of the Interior may ex- |
| 15 | pend \$50,000,000; and |
| 16 | (B) the Secretary of Agriculture may ex- |
| 17 | pend \$50,000,000. |
| 18 | (8) \$20,000,000 for the Secretary of Agri- |
| 19 | culture to enter into an agreement with a Southwest |
| 20 | Ecological Restoration Institute established under |
| 21 | the Southwest Forest Health and Wildfire Preven- |
| 22 | tion Act of 2004 (16 U.S.C. 6701 et seq.)— |
| 23 | (A) to map each hazardous fuel reduction |
| 24 | or wildfire prevention treatment undertaken by |

| 1 | the Secretary of the Interior or the Secretary of |
|----|---|
| 2 | Agriculture; |
| 3 | (B) to map each wildfire that occurs in the |
| 4 | United States; and |
| 5 | (C) to publish a report every 5 years show- |
| 6 | ing the extent to which treatments described in |
| 7 | subparagraph (A) and previous wildfires affect |
| 8 | the boundaries of wildfires, categorized by— |
| 9 | (i) Federal land management agency |
| 10 | (ii) region of the United States; and |
| 11 | (iii) treatment method. |
| 12 | (9) \$20,000,000 for research conducted under |
| 13 | the Joint Fire Science Program, of which— |
| 14 | (A) the Secretary of the Interior may ex- |
| 15 | pend \$10,000,000; and |
| 16 | (B) the Secretary of Agriculture may ex- |
| 17 | pend \$10,000,000. |
| 18 | (10) \$100,000,000 for the Secretary of Agri- |
| 19 | culture to implement the Collaborative Forest Land- |
| 20 | scape Restoration Program established under section |
| 21 | 4003 of the Omnibus Public Land Management Act |
| 22 | of 2009 (16 U.S.C. 7303) in accordance with sub- |
| 23 | section (e). |
| 24 | (11) \$500,000,000 for conducting mechanical |
| 25 | thinning and timber harvesting in an ecologically ap- |

| 1 | propriate manner that focuses, to the extent prac- |
|----|---|
| 2 | ticable, on small-diameter trees, of which— |
| 3 | (A) the Secretary of the Interior may ex- |
| 4 | pend \$100,000,000; and |
| 5 | (B) the Secretary of Agriculture may ex- |
| 6 | pend \$400,000,000. |
| 7 | (12) \$500,000,000 for the Secretary of Agri- |
| 8 | culture to award community wildfire defense grants |
| 9 | to at-risk communities in accordance with subsection |
| 10 | (f). |
| 11 | (13) \$500,000,000 for implementing prescribed |
| 12 | fires and related activities, of which— |
| 13 | (A) the Secretary of the Interior may ex- |
| 14 | pend \$250,000,000; and |
| 15 | (B) the Secretary of Agriculture may ex- |
| 16 | pend \$250,000,000. |
| 17 | (14) \$500,000,000 for developing or improving |
| 18 | potential control locations, in accordance with para- |
| 19 | graph (7), including installing fuelbreaks, with a |
| 20 | focus on shaded fuelbreaks when ecologically appro- |
| 21 | priate, of which— |
| 22 | (A) the Secretary of the Interior may ex- |
| 23 | pend \$250,000,000; and |
| 24 | (B) the Secretary of Agriculture may ex- |
| 25 | pend \$250,000,000. |

| 1 | (15) \$200,000,000 for contracting or employing |
|----|--|
| 2 | crews of laborers to modify and remove flammable |
| 3 | vegetation on Federal land and use the resulting |
| 4 | materials, to the extent practicable, to produce |
| 5 | biochar, including through the use of the Civilian |
| 6 | Climate Corps established pursuant to Executive |
| 7 | Order 14008 (86 Fed. Reg. 7619 (February 1, |
| 8 | 2021); relating to tackling the climate crisis at home |
| 9 | and abroad), of which— |
| 10 | (A) the Secretary of the Interior may ex- |
| 11 | pend \$100,000,000; and |
| 12 | (B) the Secretary of Agriculture may ex- |
| 13 | pend \$100,000,000. |
| 14 | (16) \$200,000,000 for post-fire restoration ac- |
| 15 | tivities that are implemented not later than 3 years |
| 16 | after the date that a wildland fire is contained, of |
| 17 | which— |
| 18 | (A) the Secretary of the Interior may ex- |
| 19 | pend \$100,000,000; and |
| 20 | (B) the Secretary of Agriculture may ex- |
| 21 | pend \$100,000,000. |
| 22 | (17) \$8,000,000 for the Secretary of Agri- |
| 23 | culture— |
| 24 | (A) to provide feedstock to firewood banks; |
| 25 | and |

| 1 | (B) to provide financial assistance for the |
|----|---|
| 2 | operation of firewood banks. |
| 3 | (d) WILDLAND FIREFIGHTERS.— |
| 4 | (1) In general.—Using the amounts made |
| 5 | available under subsection (c)(2), not later than 180 |
| 6 | days after the date of enactment of this Act, the |
| 7 | Secretary of the Interior and the Secretary of Agri- |
| 8 | culture shall coordinate with the Director of the Of- |
| 9 | fice of Personnel Management to develop a distinct |
| 10 | "wildland fire manager" occupational series. |
| 11 | (2) Hazardous duty differential not af- |
| 12 | FECTED.—Section 5545(d)(1) of title 5, United |
| 13 | States Code, is amended by striking "except" and all |
| 14 | that follows through "and" at the end and inserting |
| 15 | the following: "except— |
| 16 | "(A) an employee in an occupational series |
| 17 | covering positions for which the primary duties |
| 18 | involve the prevention, control, suppression, or |
| 19 | management of wildland fires, as determined by |
| 20 | the Office; and |
| 21 | "(B) in such other circumstances as the |
| 22 | Office may by regulation prescribe; and". |
| 23 | (3) Current employees.—Any individual em- |
| 24 | ployed as a wildland firefighter on the date on which |

| 1 | the occupational series established under paragraph |
|----|---|
| 2 | (1) takes effect may elect— |
| 3 | (A) to remain in the occupational series in |
| 4 | which the individual is employed; or |
| 5 | (B) to be included in the "wildland fire |
| 6 | manager" occupational series established under |
| 7 | that paragraph. |
| 8 | (4) Permanent employees; increase in |
| 9 | SALARY.—Beginning October 1, 2021, the Secretary |
| 10 | of the Interior and the Secretary of Agriculture |
| 11 | shall— |
| 12 | (A) seek to convert not fewer than 1,000 |
| 13 | seasonal wildland firefighters to wildland fire |
| 14 | managers that— |
| 15 | (i) are full-time, permanent, year- |
| 16 | round Federal employees; and |
| 17 | (ii) reduce hazardous fuels on Federal |
| 18 | land not fewer than 800 hours per year; |
| 19 | and |
| 20 | (B) increase the base salary of a Federal |
| 21 | wildland firefighter or wildland fire manager by |
| 22 | an amount that is commensurate with an in- |
| 23 | crease of \$20,000 per year, if— |

| 1 | (i) the hourly pay of the Federal em- |
|----|---|
| 2 | ployee is lower than the minimum wage of |
| 3 | the applicable State; or |
| 4 | (ii) the position is located in a loca- |
| 5 | tion where it is difficult to recruit or to re- |
| 6 | tain a wildland firefighter or wildland fire |
| 7 | manager. |
| 8 | (e) Collaborative Forest Landscape Restora- |
| 9 | TION PROGRAM.—Using the amounts made available |
| 10 | under subsection (c)(10), not later than 180 days after |
| 11 | the date of enactment of this Act, the Secretary of Agri- |
| 12 | culture shall— |
| 13 | (1) solicit new project proposals under the Col- |
| 14 | laborative Forest Landscape Restoration Program |
| 15 | established under section 4003 of the Omnibus Pub- |
| 16 | lic Land Management Act of 2009 (16 U.S.C. 7303) |
| 17 | (referred to in this subsection as the "Program"); |
| 18 | (2) discontinue the funding of any proposal se- |
| 19 | lected for funding under the Program prior to Sep- |
| 20 | tember 30, 2018; |
| 21 | (3) select project proposals for funding under |
| 22 | the Program in a manner that— |
| 23 | (A) gives priority to a project proposal |
| 24 | that— |

| 1 | (i) will treat the most acres described |
|----|--|
| 2 | in subsection (b); and |
| 3 | (ii) contains the lowest cost per acre |
| 4 | to be treated; |
| 5 | (B) gives priority to a project proposal |
| 6 | that is proposed by a collaborative that has suc- |
| 7 | cessfully accomplished treatments, as proposed |
| 8 | in an earlier proposal funded under the Pro- |
| 9 | gram; and |
| 10 | (C) discontinues funding for a project that |
| 11 | fails to achieve the results included in a project |
| 12 | proposal submitted under paragraph (1) for |
| 13 | more than 2 consecutive years; and |
| 14 | (4) allow funding to be used to cover necessary |
| 15 | planning costs for projects included in project pro- |
| 16 | posals selected for funding under the Program. |
| 17 | (f) Community Wildfire Defense Grant Pro- |
| 18 | GRAM.— |
| 19 | (1) Establishment.—Using the amounts |
| 20 | made available under subsection (c)(12), not later |
| 21 | than 180 days after the date of enactment of this |
| 22 | Act, the Secretary of Agriculture shall establish a |
| 23 | program, which shall be separate from the program |
| 24 | established under section 203 of the Robert T. Staf- |
| 25 | ford Disaster Relief and Emergency Assistance Act |

| 1 | (42 U.S.C. 5133), under which the Secretary of Ag- |
|----|---|
| 2 | riculture shall award grants to at-risk communities, |
| 3 | including Indian Tribes— |
| 4 | (A) to develop or revise a community wild- |
| 5 | fire protection plan; and |
| 6 | (B) to carry out projects described in a |
| 7 | community wildfire protection plan that is not |
| 8 | more than 10 years old. |
| 9 | (2) Priority.—In awarding grants under the |
| 10 | program described in paragraph (1), the Secretary |
| 11 | of Agriculture shall give priority to an at-risk com- |
| 12 | munity that is— |
| 13 | (A) in an area identified by the Secretary |
| 14 | of Agriculture as having high or very high wild- |
| 15 | fire hazard potential; |
| 16 | (B) a low-income community; or |
| 17 | (C) a community impacted by a severe dis- |
| 18 | aster. |
| 19 | (3) Community wildfire defense |
| 20 | GRANTS.— |
| 21 | (A) Grant amounts.—A grant— |
| 22 | (i) awarded under paragraph (1)(A) |
| 23 | shall be for not more than \$250,000; and |
| 24 | (ii) awarded under paragraph (1)(B) |
| 25 | shall be for not more than \$10,000,000. |

| 1 | (B) Cost-sharing requirement.—The |
|----|--|
| 2 | non-Federal share of the cost (including the ad- |
| 3 | ministrative cost) of carrying out a project |
| 4 | using funds from a grant awarded under the |
| 5 | program described in paragraph (1) shall be— |
| 6 | (i) not less than 10 percent for a |
| 7 | grant awarded under paragraph (1)(A); |
| 8 | and |
| 9 | (ii) not less than 25 percent for a |
| 10 | grant awarded under paragraph (1)(B). |
| 11 | (g) Funding Limitations.—Section 10 of the Coop- |
| 12 | erative Forestry Assistance Act of 1978 (16 U.S.C. 2106) |
| 13 | is amended— |
| 14 | (1) in subsection (b)(3), by striking "rural |
| 15 | areas." and all that follows through the end of the |
| 16 | paragraph and inserting "any city, town, or unincor- |
| 17 | porated area that has a population of not more than |
| 18 | 10,000 inhabitants; and"; |
| 19 | (2) by redesignating subsections (c) through (g) |
| 20 | as subsections (d) thorough (h), respectively; and |
| 21 | (3) by inserting after subsection (b) the fol- |
| 22 | lowing: |
| 23 | "(c) Eligibility.— |
| 24 | "(1) In general.—Notwithstanding the re- |
| 25 | quirements of section 2A, to be eligible for financial, |

| 1 | technical, or related assistance under any of para- |
|----|--|
| 2 | graphs (2) through (4) of subsection (b), a State |
| 3 | shall seek to improve the submission by the State of |
| 4 | fire data and information to the National Fire Inci- |
| 5 | dent Reporting System pursuant to section 9 of the |
| 6 | Federal Fire Prevention and Control Act of 1974 |
| 7 | (15 U.S.C. 2208). |
| 8 | "(2) Roofing requirements.—Notwith- |
| 9 | standing the requirements of section 2A, the Sec- |
| 10 | retary, a State Forester, or an equivalent State offi- |
| 11 | cial shall not disburse funds from the National Fire |
| 12 | Capacity account or the Rural Fire Capacity account |
| 13 | to an area or volunteer fire department that is lo- |
| 14 | cated in a county or community that has not adopt- |
| 15 | ed an ordinance or regulation that requires the con- |
| 16 | struction of new roofs on buildings to adhere to |
| 17 | standards that are similar to, or more stringent |
| 18 | than— |
| 19 | "(A) the roof construction standards estab- |
| 20 | lished by the National Fire Protection Associa- |
| 21 | tion; or |
| 22 | "(B) an applicable model building code es- |
| 23 | tablished by the International Code Council. |
| 24 | "(3) Assistance for rural communities.— |

| 1 | "(A) In GENERAL.—The Secretary, a |
|----|---|
| 2 | State Forester, or an equivalent State official |
| 3 | shall only use funds in the Rural Fire Capacity |
| 4 | account to assist in providing apparatus to |
| 5 | rural communities with populations of not more |
| 6 | than 10,000 inhabitants. |
| 7 | "(B) Funding.—The Secretary may im- |
| 8 | plement this paragraph through the use of |
| 9 | funds from the Rural Fire Capacity account.". |
| 10 | (h) Expiration of Funding.—Any funding made |
| 11 | available under this section that is not obligated by the |
| 12 | Secretary of the Interior or the Secretary of Agriculture |
| 13 | on the date that is 5 years after the date of enactment |
| 14 | of this Act shall be returned to the general fund of the |
| 15 | Treasury. |
| 16 | SEC. 8004. ECOSYSTEM RESTORATION. |
| 17 | (a) Appropriations.—In addition to amounts other- |
| 18 | wise made available, there is appropriated to the Secretary |
| 19 | of the Interior and the Secretary of Agriculture, acting |
| 20 | through the Chief of the Forest Service, for the activities |
| 21 | described in subsection (b), out of any amounts in the |
| 22 | Treasury not otherwise appropriated, \$2,000,000,000. |
| 23 | (b) ACTIVITIES.—The amounts made available under |
| 24 | subsection (a) shall be expended in the following amounts |
| 25 | and for the following activities: |

| 1 | (1) \$200,000,000 for entering into contracts, |
|----|---|
| 2 | including stewardship contracts or agreements, each |
| 3 | of which is to restore the ecological health on not |
| 4 | fewer than 25,000 acres of Federal land, of which— |
| 5 | (A) the Secretary of the Interior may ex- |
| 6 | pend \$100,000,000; and |
| 7 | (B) the Secretary of Agriculture may ex- |
| 8 | pend \$100,000,000. |
| 9 | (2) \$200,000,000 to provide to States for im- |
| 10 | plementing restoration projects on Federal land pur- |
| 11 | suant to good neighbor agreements entered into |
| 12 | under section 8206 of the Agricultural Act of 2014 |
| 13 | (16 U.S.C. 2113a), of which— |
| 14 | (A) the Secretary of the Interior may ex- |
| 15 | pend \$100,000,000; and |
| 16 | (B) the Secretary of Agriculture may ex- |
| 17 | pend \$100,000,000. |
| 18 | (3) \$500,000,000 for the Secretary of Agri- |
| 19 | culture to provide financial assistance to facilities |
| 20 | that purchase and process byproducts from eco- |
| 21 | system restoration projects in accordance with sub- |
| 22 | section (e). |
| 23 | (4) \$400,000,000 for the Secretary of the Inte- |
| 24 | rior to provide to States for implementing voluntary |
| 25 | ecosystem restoration projects, including stream res- |

| 1 | toration projects and pinyon-juniper removal |
|----|--|
| 2 | projects, on private or public land, using a distribu- |
| 3 | tion formula to be determined by the Secretary of |
| 4 | the Interior, in consultation with the Secretary of |
| 5 | Agriculture, that requires matching funding from a |
| 6 | State to be eligible to receive funding under this |
| 7 | paragraph. |
| 8 | (5) \$100,000,000 for the Secretary of Agri- |
| 9 | culture to award grants to States to establish rental |
| 10 | programs for portable skidder bridges to minimize |
| 11 | stream bed disturbance on non-Federal land and |
| 12 | Federal land. |
| 13 | (6) \$200,000,000 for invasive species detection, |
| 14 | prevention, and eradication, including conducting re- |
| 15 | search and providing resources to facilitate detection |
| 16 | of invasive species at points of entry and awarding |
| 17 | grants for eradication of invasive species on non- |
| 18 | Federal land and on Federal land, of which— |
| 19 | (A) the Secretary of the Interior may ex- |
| 20 | pend \$100,000,000; and |
| 21 | (B) the Secretary of Agriculture may ex- |
| 22 | pend \$100,000,000. |
| 23 | (7) \$100,000,000 to restore, prepare, or adapt |
| 24 | recreation sites on Federal land that have experi- |
| 25 | enced or may likely experience visitation and use be- |

| 1 | yond the current carrying capacity of the sites, of |
|----|--|
| 2 | which— |
| 3 | (A) the Secretary of the Interior may ex- |
| 4 | pend \$50,000,000; and |
| 5 | (B) the Secretary of Agriculture may ex- |
| 6 | pend \$50,000,000. |
| 7 | (8) \$200,000,000 to restore native vegetation |
| 8 | and mitigate environmental hazards on mined land |
| 9 | on Federal and non-Federal land, of which— |
| 10 | (A) the Secretary of the Interior may ex- |
| 11 | pend \$100,000,000; and |
| 12 | (B) the Secretary of Agriculture may ex- |
| 13 | pend \$100,000,000. |
| 14 | (9) \$100,000,000 for the Secretary of Agri- |
| 15 | culture, in coordination with the Secretary of the In- |
| 16 | terior, to establish a collaborative-based, landscape- |
| 17 | scale restoration program to restore water quality or |
| 18 | fish passage on Federal land in accordance with sub- |
| 19 | section (d). |
| 20 | (c) SAWMILL INFRASTRUCTURE.—The Secretary of |
| 21 | Agriculture, in coordination with the Secretary of the Inte- |
| 22 | rior, shall— |
| 23 | (1) develop a ranking system that categorizes |
| 24 | units of Federal land as being— |

| 1 | (A) very low priority for ecological restora- |
|----|--|
| 2 | tion involving vegetation removal; |
| 3 | (B) low priority for ecological restoration |
| 4 | involving vegetation removal; |
| 5 | (C) medium priority for ecological restora- |
| 6 | tion involving vegetation removal; |
| 7 | (D) high priority for ecological restoration |
| 8 | involving vegetation removal; or |
| 9 | (E) very high priority for ecological res- |
| 10 | toration involving vegetation removal; |
| 11 | (2) determine, for a unit identified under para- |
| 12 | graph (1) as being high or very high priority for eco- |
| 13 | logical restoration involving vegetation removal, if— |
| 14 | (A) a sawmill or other wood-processing fa- |
| 15 | cility exists in close proximity to the unit; and |
| 16 | (B) the presence of a sawmill or other |
| 17 | wood-processing facility would substantially de- |
| 18 | crease or does substantially decrease the cost of |
| 19 | conducting ecological restoration projects in |
| 20 | volving vegetation removal; |
| 21 | (3) in accordance with any conditions the Sec- |
| 22 | retary of Agriculture determines to be necessary |
| 23 | provide financial assistance, including a low-interest |
| 24 | loan or a loan guarantee, to an entity seeking to es- |
| 25 | tablish or improve a sawmill or other wood-proc- |

| 1 | essing facility in close proximity to a unit of Federal |
|----|---|
| 2 | land that has been identified under paragraph (1) as |
| 3 | high or very high priority for ecological restoration, |
| 4 | if the presence of a sawmill or other wood-processing |
| 5 | facility would substantially decrease or does substan- |
| 6 | tially decrease the cost of conducting ecological res- |
| 7 | toration projects involving vegetation removal on the |
| 8 | unit of Federal land, as determined under paragraph |
| 9 | (2)(B); and |
| 10 | (4) to the extent practicable, when allocating |
| 11 | funding to units of Federal land for ecological res- |
| 12 | toration projects involving vegetation removal, give |
| 13 | priority to a unit of Federal land that— |
| 14 | (A) has been identified under paragraph |
| 15 | (1) as being high or very high priority for eco- |
| 16 | logical restoration involving vegetation removal; |
| 17 | and |
| 18 | (B) has a sawmill or other wood-processing |
| 19 | facility— |
| 20 | (i) that, as determined under para- |
| 21 | graph (2)— |
| 22 | (I) exists in close proximity to |
| 23 | the unit; and |
| 24 | (II) does substantially decrease |
| 25 | the cost of conducting ecological res- |

| 1 | toration projects involving vegetation |
|----|---|
| 2 | removal on the unit; or |
| 3 | (ii) that has received financial assist- |
| 4 | ance under paragraph (3). |
| 5 | (d) Collaborative-based, Aquatic-focused, |
| 6 | Landscape-scale Restoration Program.—Using the |
| 7 | amounts made available under subsection (b)(9), not later |
| 8 | than 180 days after the date of enactment of this Act, |
| 9 | the Secretary of Agriculture shall— |
| 10 | (1) solicit collaboratively developed proposals |
| 11 | that— |
| 12 | (A) are for 5-year projects to restore fish |
| 13 | passage or water quality on Federal land, in- |
| 14 | cluding land held in trust for an Indian Tribe; |
| 15 | (B) contain proposed accomplishments and |
| 16 | proposed non-Federal funding; and |
| 17 | (C) request not more than $$5,000,000$ in |
| 18 | funding made available under subsection (b)(9); |
| 19 | and |
| 20 | (2) select project proposals for funding in a |
| 21 | manner that— |
| 22 | (A) gives priority to a project proposal that |
| 23 | would result in the most miles of streams being |
| 24 | restored for the lowest amount of Federal fund- |
| 25 | ing; and |

| 1 | (B) discontinues funding for a project that |
|----|---|
| 2 | fails to achieve the results included in a pro- |
| 3 | posal submitted under paragraph (1) for more |
| 4 | than 2 consecutive years. |
| 5 | (e) Report.—The Secretary of Agriculture shall |
| 6 | publish a list of— |
| 7 | (1) all of the priority watersheds on National |
| 8 | Forest System land; |
| 9 | (2) the condition of each priority watershed or |
| 10 | the date of enactment of this Act; and |
| 11 | (3) the condition of each priority watershed or |
| 12 | the date that is 5 years after the date of enactment |
| 13 | of this Act. |
| 14 | (f) Expiration of Funding.—Any funding made |
| 15 | available under this section that is not obligated by the |
| 16 | Secretary of the Interior or the Secretary of Agriculture |
| 17 | on the date that is 5 years after the date of enactment |
| 18 | of this Act shall be returned to the general fund of the |
| 19 | Treasury. |
| 20 | TITLE IX—WESTERN WATER |
| 21 | INFRASTRUCTURE |
| 22 | SEC. 9001. WESTERN WATER INFRASTRUCTURE. |
| 23 | (a) Definitions.—In this section: |
| 24 | (1) ELIGIBLE PROGRAM OR PROJECT.—The |
| 25 | term "eligible program or project" means— |

| 1 | (A) a water storage project authorized by |
|----|--|
| 2 | an Act of Congress; |
| 3 | (B) a regional rural water project author- |
| 4 | ized by an Act of Congress; |
| 5 | (C) a WaterSMART drought resiliency |
| 6 | project, water or energy efficiency grant, or co- |
| 7 | operative watershed management grant; |
| 8 | (D) a water recycling and reuse project au- |
| 9 | thorized under the Reclamation Wastewater |
| 10 | and Groundwater Study and Facilities Act (43 |
| 11 | U.S.C. 390h et seq.); and |
| 12 | (E) a water desalination project. |
| 13 | (2) Secretary.—The term "Secretary" means |
| 14 | the Secretary of the Interior. |
| 15 | (b) APPROPRIATION.—In addition to amounts other- |
| 16 | wise made available, there is appropriated to the Sec- |
| 17 | retary, out of any amounts in the Treasury not otherwise |
| 18 | appropriated, \$5,000,000,000 for each of fiscal years |
| 19 | 2022 through 2026, to be allocated among eligible pro- |
| 20 | grams and projects, as determined by the Secretary, con- |
| 21 | sistent with the cost share and authorization requirements |
| 22 | of the applicable eligible program or project. |

| 1 | TITLE | X—EN | ERGY | ACT | \mathbf{OF} | 2020 |
|---|-------|------|-------------|------------|---------------|-------------|
| | | | | | | |

| 1 | TITLE X—ENERGY ACT OF 2020 |
|----|--|
| 2 | FUNDING |
| 3 | SEC. 10001. ENERGY STORAGE DEMONSTRATION |
| 4 | PROJECTS. |
| 5 | (a) Energy Storage Demonstration Projects; |
| 6 | PILOT GRANT PROGRAM.—In addition to amounts other- |
| 7 | wise made available, there is appropriated to the Secretary |
| 8 | to carry out activities under section 3201(c) of the Energy |
| 9 | Act of 2020 (42 U.S.C. 17232(c)), out of any amounts |
| 10 | in the Treasury not otherwise appropriated, $\$71,000,000$ |
| 11 | for each of fiscal years 2021 through 2025. |
| 12 | (b) Long-duration Demonstration Initiative |
| 13 | AND JOINT PROGRAM.—In addition to amounts otherwise |
| 14 | made available, there is appropriated to the Secretary to |
| 15 | carry out activities under section 3201(d) of the Energy |
| 16 | Act of 2020 (42 U.S.C. 17232(d)), out of any amounts |
| 17 | in the Treasury not otherwise appropriated, \$30,000,000 |
| 18 | for each of fiscal years 2021 through 2025. |
| 19 | SEC. 10002. ADVANCED REACTOR DEMONSTRATION PRO- |
| 20 | GRAM. |
| 21 | In addition to amounts otherwise made available, |
| 22 | there are appropriated to the Secretary to carry out activi- |
| 23 | ties under section 959A of the Energy Policy Act of 2005 |
| 24 | (42 U.S.C. 16279a), out of any amounts in the Treasury |
| 25 | not otherwise appropriated— |

| 1 | (1) \$155,000,000 for fiscal year 2021; |
|----|--|
| 2 | (2) \$405,000,000 for fiscal year 2022; |
| 3 | (3) \$420,000,000 for fiscal year 2023; |
| 4 | (4) \$455,000,000 for fiscal year 2024; and |
| 5 | (5) \$455,000,000 for fiscal year 2025. |
| 6 | SEC. 10003. MINERAL SECURITY PROJECTS. |
| 7 | (a) National Geological and Geophysical |
| 8 | Data Preservation Program.—In addition to amounts |
| 9 | otherwise made available, there is appropriated to the Sec |
| 10 | retary of the Interior to carry out activities under section |
| 11 | 351 of the Energy Policy Act of 2005 (42 U.S.C. 15908) |
| 12 | out of any amounts in the Treasury not otherwise appro- |
| 13 | priated— |
| 14 | (1) \$3,668,000 for fiscal year 2021; and |
| 15 | (2) \$5,000,000 for each of fiscal years 2022 |
| 16 | through 2025. |
| 17 | (b) Rare Earth Mineral Security.—In addition |
| 18 | to amounts otherwise made available, there is appro- |
| 19 | priated to the Secretary to carry out activities under sec |
| 20 | tion 7001(a) of the Energy Act of 2020 (42 U.S.C |
| 21 | 13344(a)), out of any amounts in the Treasury not other |
| 22 | wise appropriated, \$23,000,000 for each of fiscal years |
| 23 | 2021 through 2025. |
| 24 | (c) Critical Material Innovation, Efficiency |
| 25 | AND ALTERNATIVES.—In addition to amounts otherwise |

| 1 | made available, there is appropriated to the Secretary to |
|----|--|
| 2 | carry out activities under section 7002(g) of the Energy |
| 3 | Act of 2020 (30 U.S.C. 1606(g)), out of any amounts in |
| 4 | the Treasury not otherwise appropriated— |
| 5 | (1) \$125,000,000 for fiscal year 2021; |
| 6 | (2) \$105,000,000 for fiscal year 2022; |
| 7 | (3) \$100,000,000 for fiscal year 2023; and |
| 8 | (4) \$135,000,000 for each of fiscal years 2024 |
| 9 | and 2025. |
| 10 | (d) Critical Material Supply Chain Research |
| 11 | Facility.—In addition to amounts otherwise made avail- |
| 12 | able, there is appropriated to the Secretary to carry out |
| 13 | activities under section 7002(h) of the Energy Act of 2020 |
| 14 | (30 U.S.C. 1606(h)), out of any amounts in the Treasury |
| 15 | not otherwise appropriated— |
| 16 | (1) \$10,000,000 for fiscal year 2021; |
| 17 | (2) \$30,000,000 for fiscal year 2022; and |
| 18 | (3) \$35,000,000 for fiscal year 2023. |
| 19 | SEC. 10004. CARBON CAPTURE DEMONSTRATION AND |
| 20 | PILOT PROGRAMS. |
| 21 | (a) Carbon Capture Large-scale Pilot |
| 22 | Projects.—In addition to amounts otherwise made avail- |
| 23 | able, there are appropriated to the Secretary to carry out |
| 24 | activities under section 962(b)(2)(B) of the Energy Policy |

| 1 | Act of 2005 (42 U.S.C. 16292(b)(2)(B)), out of any |
|----|---|
| 2 | amounts in the Treasury not otherwise appropriated— |
| 3 | (1) \$162,000,000 for fiscal year 2021; |
| 4 | (2) \$225,000,000 for fiscal year 2022; |
| 5 | (3) \$200,000,000 for fiscal year 2023; |
| 6 | (4) \$200,000,000 for fiscal year 2024; and |
| 7 | (5) \$150,000,000 for fiscal year 2025. |
| 8 | (b) Carbon Capture Demonstration Projects |
| 9 | Program.—In addition to amounts otherwise made avail- |
| 10 | able, there are appropriated to the Secretary to carry out |
| 11 | activities under section 962(b)(2)(C) of the Energy Policy |
| 12 | Act of 2005 (42 U.S.C. 16292(b)(2)(C)), out of any |
| 13 | amounts in the Treasury not otherwise appropriated— |
| 14 | (1) \$437,000,000 for fiscal year 2021; |
| 15 | (2) \$500,000,000 for each of fiscal years 2022 |
| 16 | through 2024; and |
| 17 | (3) \$600,000,000 for fiscal year 2025. |
| 18 | SEC. 10005. DIRECT AIR CAPTURE TECHNOLOGIES PRIZE |
| 19 | COMPETITIONS. |
| 20 | (a) Precommercial.—In addition to amounts other- |
| 21 | wise made available, there is appropriated to the Secretary |
| 22 | to carry out activities under section 969D(e)(2)(A) of the |
| 23 | Energy Policy Act of 2005 (42 U.S.C. 16298d(e)(2)(A)) |
| 24 | out of any amounts in the Treasury not otherwise appro- |
| 25 | priated, \$15,000,000 for fiscal year 2021 |

| | 11 <i>J</i> |
|----|--|
| 1 | (b) Commercial.—In addition to amounts otherwise |
| 2 | made available, there is appropriated to the Secretary to |
| 3 | carry out activities under section 969D(e)(2)(B) of the |
| 4 | Energy Policy Act of 2005 (42 U.S.C. 16298d(e)(2)(B)), |
| 5 | out of any amounts in the Treasury not otherwise appro- |
| 6 | priated, \$100,000,000 for fiscal year 2021. |
| 7 | SEC. 10006. WATER POWER PROJECTS. |
| 8 | (a) Hydropower and Marine Energy.—In addi- |
| 9 | tion to amounts otherwise made available, there are appro- |
| 10 | priated to the Secretary, out of any amounts in the Treas- |
| 11 | ury not otherwise appropriated— |
| 12 | (1) to carry out activities under section 634 of |
| 13 | the Energy Independence and Security Act of 2007 |
| 14 | (42 U.S.C. 17213), \$36,000,000 for the period of |
| 15 | fiscal years 2021 through 2025; and |
| 16 | (2) to carry out activities under section 635 of |
| 17 | the Energy Independence and Security Act of 2007 |
| 18 | (42 U.S.C. 17214), \$70,400,000 for the period of |
| 19 | fiscal years 2021 through 2025. |
| 20 | (b) National Marine Energy Centers.—In addi- |
| 21 | tion to amounts otherwise made available, there is appro- |

22 priated to the Secretary to carry out activities under sec-

23 tion 636 of the Energy Independence and Security Act

24 of 2007 (42 U.S.C. 17215), out of any amounts in the

- 1 Treasury not otherwise appropriated, \$10,000,000 for
- 2 each of fiscal years 2022 through 2025.
- 3 (c) Hydroelectric Incentives.—In addition to
- 4 amounts otherwise made available, there is appropriated
- 5 to the Secretary to carry out activities under sections 242
- 6 and 243 of the Energy Policy Act of 2005 (42 U.S.C.
- 7 15881, 15882), out of any amounts in the Treasury not
- 8 otherwise appropriated, \$100,000,000 for the period of
- 9 fiscal years 2021 through 2025.

10 SEC. 10007. RENEWABLE ENERGY PROJECTS.

- 11 (a) Geothermal Energy.—In addition to amounts
- 12 otherwise made available, there is appropriated to the Sec-
- 13 retary to carry out activities under section 615 of the En-
- 14 ergy Independence and Security Act of 2007 (42 U.S.C.
- 15 17194), out of any amounts in the Treasury not otherwise
- 16 appropriated, \$84,000,000 for the period of fiscal years
- 17 2022 through 2025.
- 18 (b) Wind Energy.—In addition to amounts other-
- 19 wise made available, there are appropriated to the Sec-
- 20 retary, out of any amounts in the Treasury not otherwise
- 21 appropriated—
- 22 (1) to carry out activities under section
- 23 3003(b)(2) of the Energy Act of 2020 (42 U.S.C.
- 24 16237(b)(2)), \$60,000,000 for the period of fiscal
- 25 years 2022 through 2025; and

| 1 | (2) to carry out activities under section |
|----|--|
| 2 | 3003(b)(4) of the Energy Act of 2020 (42 U.S.C. |
| 3 | 16237(b)(4)), \$40,000,000 for the period of fiscal |
| 4 | years 2022 through 2025. |
| 5 | (c) Solar Energy.—In addition to amounts other- |
| 6 | wise made available, there are appropriated to the Sec- |
| 7 | retary, out of any amounts in the Treasury not otherwise |
| 8 | appropriated— |
| 9 | (1) to carry out activities under section |
| 10 | 3004(b)(2) of the Energy Act of 2020 (42 U.S.C. |
| 11 | 16238(b)(2), $$40,000,000$ for the period of fiscal |
| 12 | years 2022 through 2025; |
| 13 | (2) to carry out activities under section |
| 14 | 3004(b)(3) of the Energy Act of 2020 (42 U.S.C. |
| 15 | 16238(b)(3)), \$20,000,000 for the period of fiscal |
| 16 | years 2022 through 2025; and |
| 17 | (3) to carry out activities under section |
| 18 | 3004(b)(4) of the Energy Act of 2020 (42 U.S.C. |
| 19 | 16238(b)(4)), \$20,000,000 for the period of fiscal |
| 20 | years 2022 through 2025. |
| 21 | SEC. 10008. INDUSTRIAL EMISSIONS DEMONSTRATION |
| 22 | PROJECTS. |
| 23 | In addition to amounts otherwise made available, |
| 24 | there are appropriated to the Secretary to carry out activi- |
| 25 | ties under section 454(d)(3) of the Energy Independence |

| 1 | and Security Act of 2007 (42 U.S.C. 17113(d)(3)), out |
|----|---|
| 2 | of any amounts in the Treasury not otherwise appro- |
| 3 | priated— |
| 4 | (1) \$20,000,000 for fiscal year 2022; |
| 5 | (2) \$30,000,000 for fiscal year 2023; and |
| 6 | (3) \$50,000,000 for each of fiscal years 2024 |
| 7 | and 2025. |
| 8 | SEC. 10009. AVAILABILITY OF AMOUNTS. |
| 9 | Amounts made available by this title for fiscal year |
| 10 | 2021 shall remain available until expended. |
| 11 | TITLE XI—WAGE RATE |
| 12 | REQUIREMENTS |
| 13 | SEC. 11001. WAGE RATE REQUIREMENTS. |
| 14 | (a) Davis-Bacon.—Any laborer or mechanic em- |
| 15 | ployed by any contractor or subcontractor in the perform- |
| 16 | ance of work on a project funded under this Act shall be |
| 17 | paid wages at rates not less than those prevailing on simi- |
| 18 | lar projects in the locality as determined by the Secretary |
| 19 | of Labor under subchapter IV of chapter 31 of title 40, |
| 20 | United States Code (commonly referred to as the "Davis- |
| 21 | Bacon Act"). |
| 22 | (b) AUTHORITY.—With respect to the labor stand- |
| 23 | ards specified in subsection (a), the Secretary of Labor |
| 24 | shall have the authority and functions set forth in Reorga- |
| 25 | nization Plan Numbered 14 of 1950 (64 Stat. 1267; 5 |

- 1 U.S.C. App.) and section 3145 of title 40, United States
- 2 Code.