

HONORING THE LIFE OF LOUIS  
ANTONELLI

(Mr. ROSE of New York asked and was given permission to address the House for 1 minute.)

Mr. ROSE of New York. Mr. Speaker, I rise today to honor the life and service of Mr. Louis Antonelli, an amazing husband, father, grandfather, and someone who served his community and his church with love and with compassion.

Louis loved to serve, and he took pride in his work as a member of the New York City FOP and in his service on the board of the South Beach Civic Association.

And although he was no stranger to tragedy with the loss of his beloved son, he never lost his joy or his passion for others. He loved to entertain guests, and when they would come and visit, you would never find him without a smile, a piece of candy, or some kind words to share.

He will be missed, but he will never be forgotten. My heart goes out to Angela, his adoring wife of over 60 years, his two daughters, and his five grandchildren. Mr. Antonelli, we will never forget your memory.

REMEMBERING DR. SAM E.  
SCOLARO

(Mr. SPANO asked and was given permission to address the House for 1 minute and to revise and extend his remarks.)

Mr. SPANO. Mr. Speaker, today I rise to highlight in memoriam the legacy of Dr. Sam Scolaro, a respected pillar in Florida 15th District's medical community, and a devoted husband and loving father who kept his promise to God to serve his patients until the day that he died, a promise fulfilled when COVID-19 took his life in August.

Dr. Scolaro graduated from Jefferson High School in 1963, earned his undergraduate degree from USF in 1967 and, after earning his medical degree, started his medical practice in 1972 in Brandon-Valrico.

For 48 years, he served in many community roles while caring for patients, including as president of both the Brandon Chamber of Commerce and the Missing Children's Help Center, and as a Brandon Hospital founding member. His mark on our community will not be forgotten.

Dr. Scolaro extended his passion for medicine and helping others by mentoring generations of medical students.

To his beloved wife of 53 years, Janie, and his two daughters, Stephanie and Jennifer, our district and community mourn the loss of Sam. May his memory and sacrifice be a reminder of his love for family and community. Our thoughts and prayers are with you.

RECOGNIZING USDA FOREST  
SERVICE OFFICIAL CHARLES  
MORTON

(Mr. LAMALFA asked and was given permission to address the House for 1

minute and to revise and extend his remarks.)

Mr. LAMALFA. Mr. Speaker, it is with deep regret that I rise today to recognize the lost life of USDA Forest Service official Charles Morton who died while fighting the El Dorado fire in the San Bernardino National Forest last Thursday in southern California.

Charlie began his career as a corpsman with the California Conservation Corps at the Butte Fire Center in Magalia, California, up in my area, where the Camp fire was known to have raged through there in 2018. No doubt some of the work that he and his colleagues did in the area of Magalia then saved a portion of Magalia in what they did.

During the 2006 fire season, he worked with Firestorm Wildland Fire Suppression in Chico, California. His 14-year forest service culminated as a Big Bear, California, Interagency Hot Shot Squad Boss in San Bernardino National Forest.

Charlie's untimely passing is a risk that is, unfortunately, part of what our valiant firefighters and forest service workers deal with on the front lines every day. I pray that his family will find peace.

I also pray for the firefighters across the West right now risking it all to save our public lands, property, families, and wildlife from wildfire season.

□ 1115

REINSTATE REGIONAL AIRPORTS  
TO BOOST LOCAL ECONOMIES

(Mr. THOMPSON of Pennsylvania asked and was given permission to address the House for 1 minute and to revise and extend his remarks.)

Mr. THOMPSON of Pennsylvania. Mr. Speaker, I rise today to express my support of the Restoring Essential Service to Small Airports Act, a bill introduced by Congressman TRONE, which I am proud to cosponsor.

This bipartisan bill would reinstate several regional airports back into the Essential Air Service program, which provides rural and underserved communities access to the national air transportation system.

The States that will benefit include my home State of Pennsylvania, as well as Kansas, New York, South Dakota, Maryland, and Wyoming.

Many rural communities in these States were struggling prior to COVID-19, and it is important that access to affordable commercial flights to in-demand locations continue.

Without this lifeline, commercial service will cease to exist, presenting a new set of challenges when it comes to economic development and the long-term growth and sustainability of these communities.

As a result of the reinstatement of these airports into the EAS program, a long-overdue boost to local economies will occur.

COMMUNICATION FROM THE  
CLERK OF THE HOUSE

The SPEAKER pro tempore laid before the House the following communication from the Clerk of the House of Representatives:

OFFICE OF THE CLERK,  
HOUSE OF REPRESENTATIVES,  
Washington, DC, September 24, 2020.

Hon. NANCY PELOSI,  
*The Speaker, House of Representatives,*  
Washington, DC.

DEAR MADAM SPEAKER: Pursuant to the permission granted in Clause 2(h) of Rule II of the Rules of the U.S. House of Representatives, the Clerk received the following message from the Secretary of the Senate on September 24, 2020, at 10:39 a.m.:

That the Senate agreed to S. Con. Res. 46.

With best wishes, I am,

Sincerely,

ROBERT F. REEVES,  
*Deputy Clerk.*

EXPANDING ACCESS TO SUSTAIN-  
ABLE ENERGY ACT OF 2019

The SPEAKER pro tempore. Pursuant to clause 1(c) of rule XIX, further consideration of the bill (H.R. 4447) to establish an energy storage and microgrid grant and technical assistance program, will now resume.

The Clerk read the title of the bill.

The SPEAKER pro tempore. Each further amendment printed in part B of House Report 116-528 not earlier considered as part of amendments en bloc pursuant to section 3 of House Resolution 1129, shall be considered only in the order printed in the report, may be offered only by a Member designated in the report, shall be considered as read, shall be debatable for the time specified in the report equally divided and controlled by the proponent and an opponent, may be withdrawn by the proponent at any time before the question is put thereon, shall not be subject to amendment, and shall not be subject to a demand for division of the question.

It shall be in order at any time for the chair of the Committee on Energy and Commerce or his designee to offer amendments en bloc consisting of further amendments printed in part B of House Report 116-528, not earlier disposed of. Amendments en bloc shall be considered as read, shall be debatable for 20 minutes equally divided and controlled by the chair and ranking minority member of the Committee on Energy and Commerce or their respective designees, shall not be subject to amendment, and shall not be subject to a demand for division of the question.

AMENDMENTS EN BLOC NO. 1 OFFERED BY MS.  
STEVENS OF MICHIGAN

Ms. STEVENS. Mr. Speaker, as the designee of Mr. PALLONE, pursuant to House Resolution 1129, I offer amendments en bloc.

The SPEAKER pro tempore. The Clerk will designate the amendments en bloc.

Amendments en bloc No. 1 consisting of amendment Nos. 1, 14, 15, 18, 23, 24, 26, 29, 39, 40, 41, 42, 47, 49, 50, 54, 64, 69, 72, 77, 78, 79, 80, 81, 94, and 98, printed in

part B of House Report 116-528, offered by Ms. STEVENS of Michigan:

AMENDMENT NO. 1 OFFERED BY MRS. AXNE OF IOWA

Page 328, line 2, strike “industrial applications” and insert “industrial applications, including at biofuel facilities”.

AMENDMENT NO. 14 OFFERED BY MS. CASTOR OF FLORIDA

Page 9, after the item relating to section 12606, insert the following:

Sec. 12607. Study on equitable distribution of benefits of clean energy.

At the end of subtitle F of Title XII, insert the following:

**SEC. 12607. DEPARTMENT OF ENERGY RESEARCH MISSION ON CLIMATE CHANGE AND EMISSIONS REDUCTION.**

(a) GOALS.—Section 902 of the Energy Policy Act of 2005 (42 U.S.C. 16181) is amended—

(1) in paragraph (4), by striking “and” at the end; and

(2) by striking paragraph (5) and inserting the following:

“(5) decreasing the environmental impact of energy-related activities, including by deeply reducing emissions; and

“(6) improving energy-sector resilience to climate change.”.

(b) EMISSIONS DEFINED FOR GOALS.—Section 902 of the Energy Policy Act of 2005 (42 U.S.C. 16181) is amended by adding at the end the following:

“(e) EMISSIONS DEFINED.—In this section, the term ‘emissions’ means greenhouse gas emissions or other pollutants.”.

(c) EMISSIONS REDUCTION.—Section 911 of the Energy Policy Act of 2005 (42 U.S.C. 16191) is amended—

(1) in the heading by inserting “AND EMISSIONS REDUCTIONS” after “ENERGY EFFICIENCY”;

(2) in subsection (a)—

(A) in paragraph (1)—

(i) by inserting “and emissions reductions” after “energy efficiency”; and

(ii) in subparagraph (A), by inserting “, and reducing emissions from,” after “efficiency of”; and

(B) in paragraph (2)—

(i) by amending the matter preceding subparagraph (A)(i) to read as follows:

“(A) advanced, cost-effective technologies to improve the energy efficiency and environmental performance of, and reduce emissions from, vehicles, including—”;

(ii) by amending subparagraph (B) to read as follows:

“(B) cost-effective technologies for new construction and retrofit, to improve the energy efficiency and environmental performance of, and reduce emissions from buildings, using a whole-buildings approach, including onsite clean energy generation and beneficial electrification;”;

(iii) by amending subparagraph (C) to read as follows:

“(C) advanced technologies to improve the energy efficiency, environmental performance, and process efficiency of, and reduce emissions from industry, especially energy-intensive and waste-intensive industries;”;

(3) by adding at the end the following:

“(f) EMISSIONS DEFINED.—In this section, the term ‘emissions’ means greenhouse gas emissions or other pollutants.”.

AMENDMENT NO. 15 OFFERED BY MS. CASTOR OF FLORIDA

Page 9, after the item relating to section 12606, insert the following:

Sec. 12607. Study on equitable distribution of benefits of clean energy.

At the end of subtitle F of Title XII, insert the following:

**SEC. 12607. STUDY ON EQUITABLE DISTRIBUTION OF BENEFITS OF CLEAN ENERGY.**

(a) FRONTLINE COMMUNITY.—In this section, the term “frontline community” means a community with significant representation of communities of color, low-income communities, or Tribal and indigenous communities, that experiences, or is at risk of experiencing, higher or more adverse human health or environmental effects.

(b) STUDY.—Not later than 1 year after the date of the enactment of this Act, the Secretary of Energy shall enter into an agreement with the National Academies of Science, Engineering, and Medicine to undertake a study on technical and non-technical barriers to and solutions for ensuring equitable distribution of the benefits associated with clean energy in frontline communities across all sectors of the economy, and in particular the role of the Department of Energy in assessing and mitigating such barriers. The study shall—

(1) assess the state of research on the equitable distribution of the benefits of clean energy including workforce development and job creation;

(2) assess the progress in implementing programs and policies that result in increased adoption of clean energy technologies in frontline communities;

(3) identify barriers as well as potential incentives and mechanisms to achieving the equitable distribution of the benefits associated with clean energy in frontline communities, including through the consideration of social, behavioral, regulatory, policy, market, and technology aspects, and considerations of the characteristics of individual communities, such as geographical location, average income, and racial-ethnic composition; and

(4) recommend research areas for the Department of Energy to make progress towards ensuring equitable distribution of the benefits associated with clean energy in frontline communities.

AMENDMENT NO. 18 OFFERED BY MR. COX OF CALIFORNIA

Page 229, after line 7, insert the following (and redesignate paragraph (22) as paragraph (23)):

(22) Durable, low-cost solar-powered sensors, equipment, and machinery for off-grid use, with special consideration for agricultural applications, such as solar powered smart agricultural monitoring and irrigation systems

AMENDMENT NO. 23 OFFERED BY MR. DOGGETT OF TEXAS

Page 383, after line 7, insert the following:  
**SEC. 3115. NATIONAL ACADEMY OF SCIENCES STUDY ON CARBON CAPTURE TECHNOLOGY.**

(a) IN GENERAL.—The Secretary of Energy shall enter into an agreement with the National Academy of Sciences, Engineering, and Medicine to conduct a study evaluating the efficacy of carbon capture and storage technology by industry in reducing emissions and the cost-effectiveness of such technologies. Such study shall include a description of the following:

(1) Analysis of the effectiveness of emissions reductions and cost through implementation of carbon capture as compared to transitioning to other low-emissions technologies.

(2) Differences in performance of various carbon capture technologies and storage methods, including the net amount of carbon dioxide that can be permanently sequestered, the cost (in terms of dollar per ton captured/sequestered) of each technology, and the potential to increase the net amount of carbon dioxide captured/sequestered and lower operational costs.

(3) Barriers, in terms of cost, infrastructure, geology, aquifers, and markets, to ensuring permanent carbon storage including both point of source capture and removal from the atmosphere of captured carbon dioxide.

(4) Analysis of the lifecycle emissions associated with carbon capture technologies, including construction and operation of the carbon capture technology, as well as transport, processing, and injection of carbon dioxide, including the permanence of carbon storage and sequestration, and strategies to reduce those emissions. This should include the amount of carbon dioxide emitted from a facility outfitted with carbon capture technology that is permanently sequestered compared to the amount of carbon dioxide emitted by the carbon capture process itself.

(5) Evaluation of the impact of carbon capture technologies on air pollution, including particulate emissions and ozone precursors, with specific analysis on the impacts on communities historically overburdened with pollution, including rural communities.

(b) REPORT.—The agreement under subsection (a) shall specify that, not later than 1 year after the date of enactment of this Act, the National Academy of Sciences shall submit to Congress a report containing the results and findings of study authorized under this section.

Page 5, in the table of contents, after the matter related to section 3114, insert the following:

Sec. 3115. National Academy of Sciences study on carbon capture technology.

AMENDMENT NO. 24 OFFERED BY MS. ESCOBAR OF TEXAS

Page 223, lines 18 through 21, strike paragraph (2) and insert the following:

(2) The term “institution of higher education”—

(A) has the meaning given such term in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001); and

(B) includes a minority-serving institution.

(3) The term “minority-serving institution” has the meaning given the term “eligible institution” in section 371(a) of the Higher Education Act of 1965 (20 U.S.C. 1067q(a)).

Page 223, line 22, redesignate paragraph (3) as paragraph (4).

Page 224, lines 1 and 4, redesignate paragraphs (4) and (5) as paragraphs (5) and (6).

Page 225, after line 20, insert the following:

(4) SPECIAL CONSIDERATION.—With respect to applications under paragraph (3), the Secretary shall give special consideration to applications from minority-serving institutions or a multi-institutional consortium which includes a minority-serving institution.

AMENDMENT NO. 26 OFFERED BY MR. GARAMENDI OF CALIFORNIA

At the end of subtitle C of title XII, add the following:

**SEC. \_\_\_\_ . EXTENSION OF AUTHORITY FOR NON-OIL AND GAS OPERATIONS ON THE OUTER CONTINENTAL SHELF.**

Section 4(a)(1) of the Outer Continental Shelf Lands Act (43 U.S.C. 1333(a)(1)) is amended to read as follows:

“(1) JURISDICTION OF THE UNITED STATES ON THE OUTER CONTINENTAL SHELF.—

“(A) IN GENERAL.—The Constitution and laws and civil and political jurisdiction of the United States are extended, to the same extent as if the outer Continental Shelf were an area of exclusive Federal jurisdiction located within a State, to—

“(i) the subsoil and seabed of the outer Continental Shelf;

“(ii) all artificial islands on the outer Continental Shelf;

“(iii) all installations and other devices permanently or temporarily attached to the

seabed, which may be erected thereon for the purpose of exploring for, developing, or producing resources therefrom or producing or supporting the production of energy from sources other than oil and gas; and

“(iv) any such installation or other device (other than a ship or vessel) for the purpose of transporting such resources or transmitting energy.

“(B) LEASES ISSUED EXCLUSIVELY UNDER THIS ACT.—Mineral or energy leases on the outer Continental Shelf shall be maintained or issued only under the provisions of this Act.”.

AMENDMENT NO. 29 OFFERED BY MR. GRAVES OF LOUISIANA

Page 707, line 3, after “cost-competitive” insert “, including in developing economies”.

AMENDMENT NO. 39 OFFERED BY MR. LAMB OF PENNSYLVANIA

Page 432, after line 15, insert the following:

**Subtitle C—FUSION ENERGY RESEARCH**  
**SEC. 4301. FUSION ENERGY RESEARCH.**

(a) PROGRAM.—Section 307 of the Department of Energy Research and Innovation Act (42 U.S.C. 18645) is amended—

(1) by redesignating subsections (a) through (g) as subsections (b) through (h), respectively;

(2) by inserting before subsection (b), as so redesignated, the following:

“(a) PROGRAM.—As part of the activities authorized under section 209 of the Department of Energy Organization Act (42 U.S.C. 7139) and section 972 of the Energy Policy Act of 2005 (42 U.S.C. 16312), the Director shall carry out a fusion energy sciences research and enabling technology development program to effectively address the scientific and engineering challenges to building a cost competitive fusion power plant and to establish a competitive fusion power industry in the United States. As part of this program, the Director shall carry out research activities to expand the fundamental understandings of plasmas and matter at very high temperatures and densities for fusion applications and for other plasma science applications.”;

(3) by amending subsection (d) to read as follows:

“(d) INERTIAL FUSION RESEARCH AND DEVELOPMENT.—

“(1) IN GENERAL.—The Director shall carry out a program of research and technology development in inertial fusion for energy applications, including ion beam, laser, and pulsed power fusion systems.

“(2) ACTIVITIES.—As part of the program described in paragraph (1), the Director shall support activities at and partnerships with universities and the National Laboratories to—

“(A) develop novel target designs;

“(B) support modeling of various inertial fusion energy concepts and systems;

“(C) develop diagnostic tools; and

“(D) improve inertial fusion energy driver technologies.

“(3) AUTHORIZATION OF APPROPRIATIONS.—Out of funds authorized to be appropriated under subsection (o), there are authorized to be appropriated to the Secretary to carry out the activities described in subsection (d)—

“(A) \$25,000,000 for fiscal year 2021;

“(B) \$26,250,000 for fiscal year 2022;

“(C) \$27,563,000 for fiscal year 2023;

“(D) \$28,941,000 for fiscal year 2024; and

“(E) \$30,377,000 for fiscal year 2025.”;

(4) by amending subsection (e) to read as follows:

“(e) ALTERNATIVE AND ENABLING CONCEPTS.—

“(1) IN GENERAL.—The Director shall support research and development activities and

facility operations at institutions of higher education, National Laboratories, and private facilities in the United States for a portfolio of alternative and enabling fusion energy concepts that may provide solutions to significant challenges to the establishment of a commercial magnetic fusion power plant, prioritized based on the ability of the United States to play a leadership role in the international fusion research community.

“(2) ACTIVITIES.—Fusion energy concepts and activities explored under paragraph (1) may include—

“(A) alternative fusion energy concepts, including—

“(i) advanced stellarator concepts;

“(ii) non-tokamak confinement configurations operating at low magnetic fields;

“(iii) magnetized target fusion energy concepts; or

“(iv) other promising fusion energy concepts identified by the Director;

“(B) enabling fusion technology development activities, including—

“(i) high magnetic field approaches facilitated by high temperature superconductors;

“(ii) liquid metals to address issues associated with fusion plasma interactions with the inner wall of the enclosing device; and

“(iii) advanced blankets for heat management and fuel breeding; and

“(C) advanced scientific computing activities.

“(3) INNOVATION NETWORK FOR FUSION ENERGY.—

“(A) IN GENERAL.—The Secretary, acting through the Office of Science, shall support a program to provide fusion energy researchers with access to scientific and technical resources and expertise at facilities supported by the Department, including such facilities at National Laboratories and universities, to advance innovative fusion energy technologies toward commercial application.

“(B) AWARDS.—Financial assistance under the program established in subsection (a) may be in the form of grants, vouchers, equipment loans, or contracts to private entities.

“(3) AUTHORIZATION OF APPROPRIATIONS.—Out of funds authorized to be appropriated under subsection (o), there are authorized to be appropriated to the Secretary to carry out the activities described in subsection (e)—

“(A) \$100,000,000 for fiscal year 2021;

“(B) \$105,000,000 for fiscal year 2022;

“(C) \$110,250,000 for fiscal year 2023;

“(D) \$115,763,000 for fiscal year 2024; and

“(E) \$121,551,000 for fiscal year 2025.”; and

(5) by adding at the end the following:

“(1) MILESTONE-BASED DEVELOPMENT PROGRAM.—

“(1) IN GENERAL.—Using the authority of the Secretary under section 646(g) of the Department of Energy Organization Act (42 U.S.C. 7256(g)), notwithstanding paragraph (10) of such section, the Secretary shall establish, within 3 months of enactment of this Act, a milestone-based fusion energy development program that requires projects to meet particular technical milestones before a participant is awarded funds by the Department.

“(2) PURPOSE.—The purpose of the program established by paragraph (1) shall be to support the development of a U.S.-based fusion power industry through the research and development of technologies that will enable the construction of new full-scale fusion systems capable of demonstrating significant improvements in the performance of such systems, as defined by the Secretary, within 10 years of the enactment of this Act.

“(3) ELIGIBILITY.—Any entity is eligible to participate in the program provided that the Under Secretary has deemed it as having the necessary resources and expertise.

“(4) REQUIREMENTS.—In carrying out the milestone-based program under paragraph (1), the Secretary shall, for each relevant project—

“(A) request proposals from eligible entities, as determined by the Secretary, that include proposed technical milestones, including estimated project timelines and total costs;

“(B) set milestones based on a rigorous technical review process;

“(C) award funding of a predetermined amount to projects that successfully meet proposed milestones under paragraph (1), or for expenses deemed reimbursable by the Secretary, in accordance with terms negotiated for an individual award; and

“(D) communicate regularly with selected eligible entities and, if the Secretary deems appropriate, exercise small amounts of flexibility for technical milestones as projects mature.

“(5) AWARDS.—For the program established under paragraph (1)—

“(A) an award recipient shall be responsible for all costs until milestones are achieved, or reimbursable expenses are reviewed and verified by the Department; and

“(B) should an awardee not meet the milestones described in paragraph (4), the Secretary may end the partnership with an award recipient and use the remaining funds in the ended agreement for new or existing projects carried out under this section.

“(6) APPLICATIONS.—Any project proposal submitted to the program under paragraph (1) shall be evaluated based upon its scientific, technical, and business merits through a peer-review process, which shall include reviewers with appropriate expertise from the private sector, the investment community, and experts in the science and engineering of fusion and plasma physics.

“(7) PROJECT MANAGEMENT.—In carrying out projects under this program and assessing the completion of their milestones in accordance with paragraph (4), the Secretary shall consult with experts that represent diverse perspectives and professional experiences, including those from the private sector, to ensure a complete and thorough review.

“(8) PROGRAMMATIC REVIEW.—Not later than 4 years after the Secretary has established 3 milestones under this program, the Secretary shall enter into a contractual arrangement with the National Academy of Sciences to review and provide a report describing the findings of this review to the House Committee on Science, Space, and Technology and the Senate Committee on Energy and Natural Resources on the program established under this paragraph (1) that assesses—

“(A) the benefits and drawbacks of a milestone-based fusion program as compared to traditional program structure funding models at the Department;

“(B) lessons-learned from program operations; and

“(C) any other matters the Secretary determines regarding the program.

“(9) ANNUAL REPORT.—As part of the annual budget request submitted for each fiscal year, the Secretary shall provide the House Committee on Science, Space, and Technology and the Senate Committee on Energy and Natural Resources a report describing partnerships supported by the program established under paragraph (1) during the previous fiscal year.

“(10) AUTHORIZATIONS FOR APPROPRIATIONS.—Out of funds authorized to be appropriated under subsection (o), there are authorized to be appropriated to the Secretary to carry out the activities described in subsection (i), to remain available until expended—

- “(A) \$45,000,000 for fiscal year 2021;  
 “(B) \$110,000,000 for fiscal year 2022;  
 “(C) \$140,000,000 for fiscal year 2023;  
 “(D) \$110,000,000 for fiscal year 2024; and  
 “(E) \$45,000,000 for fiscal year 2025.

“(j) **FUSION REACTOR SYSTEM DESIGN.**—The Director shall support research and development activities to design future fusion reactor systems and examine and address the technical drivers for the cost of these systems.

“(k) **GENERAL PLASMA SCIENCE AND APPLICATIONS.**—The Director shall support research in general plasma science and high energy density physics that advance the understanding of the scientific community of fundamental properties and complex behavior of matter to control and manipulate plasmas for a broad range of applications, including support for research relevant to advancements in chip manufacturing and microelectronics.

“(l) **SENSE OF CONGRESS.**—It is the sense of Congress that the United States should support a robust, diverse program in addition to providing sufficient support to, at a minimum, meet its commitments to ITER and maintain the schedule of the project as determined by the Secretary in coordination with the ITER Organization at the time of the enactment of this Act. It is further the sense of Congress that developing the scientific basis for fusion, providing research results key to the success of ITER, and training the next generation of fusion scientists are of critical importance to the United States and should in no way be diminished by participation of the United States in the ITER project.

“(m) **INTERNATIONAL COLLABORATION.**—The Director shall—

“(1) as practicable and in coordination with other appropriate Federal agencies as necessary, ensure the access of United States researchers to the most advanced fusion research facilities and research capabilities in the world, including ITER;

“(2) to the maximum extent practicable, continue to leverage United States participation ITER, and prioritize expanding international partnerships and investments in current and future fusion research facilities within the United States; and

“(3) to the maximum extent practicable, prioritize engagement in collaborative efforts in support of future international facilities that would provide access to the most advanced fusion research facilities in the world to United States researchers.

“(n) **FISSION AND FUSION RESEARCH COORDINATION REPORT.**—

“(1) **IN GENERAL.**—Not later than 6 months after the date of enactment of this Act, the Secretary shall transmit to Congress a report addressing opportunities for coordinating fusion energy research and development activities between the Office of Nuclear Energy and the Office of Science.

“(2) **COMPONENTS.**—The report shall assess opportunities for collaboration on research and development of—

- “(A) liquid metals to address issues associated with fusion plasma interactions with the inner wall of the encasing device and other components within the reactor;  
 “(B) immersion blankets for heat management and fuel breeding;  
 “(C) technologies and methods for instrumentation and control;  
 “(D) computational methods and codes for system operation and maintenance;  
 “(E) codes and standard development;  
 “(F) radioactive waste handling;  
 “(G) radiological safety;  
 “(H) potential for non-electricity generation applications; and  
 “(I) any other overlapping priority as identified by the Director of the Office of Science

or the Assistant Secretary of Energy for Nuclear Energy.

“(3) **IMPLEMENTATION.**—The Secretary shall implement the recommendations made by the report directed in this section upon transmission of the report to Congress.

“(o) **AUTHORIZATION OF APPROPRIATIONS.**—There are authorized to be appropriated to the Secretary to carry out the activities described in this section—

- “(1) \$976,000,000 for fiscal year 2021;  
 “(2) \$1,033,000,000 for fiscal year 2022;  
 “(3) \$1,104,000,000 for fiscal year 2023;  
 “(4) \$1,181,000,000 for fiscal year 2024; and  
 “(5) \$1,264,000,000 for fiscal year 2025.”

(b) **ITER.**—Section 972(c) of the Energy Policy Act of 2005 (42 U.S.C. 16312) is amended to read as follows:

“(c) **UNITED STATES PARTICIPATION IN ITER.**—

“(1) **IN GENERAL.**—There is authorized United States participation in the construction and operations of the ITER project, as agreed to under the April 25, 2007 ‘Agreement on the Establishment of the ITER International Fusion Energy Organization for the Joint Implementation of the ITER Project’. The Director shall coordinate and carry out the responsibilities of the United States with respect to this Agreement.

“(2) **REPORT.**—Not later than 1 year after the date of enactment of this Act, the Secretary shall submit to Congress a report providing an assessment of the most recent schedule for ITER that has been approved by the ITER Council.

“(3) **AUTHORIZATION OF APPROPRIATIONS.**—Out of funds authorized to be appropriated under section 307(o) of the Department of Energy Research and Innovation Act (42 U.S.C. 18645), there shall be made available to the Secretary to carry out the construction of ITER—

- “(A) \$374,000,000 for fiscal year 2021; and  
 “(B) \$300,000,000 for each of fiscal years 2022 through 2025.”

Page 5, in the table of contents, after the matter related to subtitle B of title IV, insert the following:

Subtitle C—FUSION ENERGY RESEARCH

Sec. 4301. Fusion energy research

AMENDMENT NO. 40 OFFERED BY MR. LAMB OF PENNSYLVANIA

Page 426, add after line 14 the following (and redesignate subsequent subsections accordingly):

“(d) **MILESTONE-BASED DEMONSTRATION PROJECTS.**—The Secretary may carry out demonstration projects under subsection (c) as a milestone-based demonstration project under section 8304 of the Clean Economy Jobs and Innovation Act.”

AMENDMENT NO. 41 OFFERED BY MR. LAMB OF PENNSYLVANIA

Page 4, after the item relating to section 2562, insert the following:

Sec. 2563. Produced water research and development program.

Sec. 2564. Produced water demonstration program.

Page 299, after line 8, insert the following:  
**SEC. 2563. PRODUCED WATER RESEARCH AND DEVELOPMENT PROGRAM.**

(a) **ESTABLISHMENT.**—As soon as possible after the date of enactment of this Act, the Secretary of Energy shall establish a research and development program on produced water to develop—

- (1) new technologies and practices to reduce the environmental impact; and  
 (2) opportunities for reprocessing of produced water at natural gas or oil development sites.

(b) **PRIORITIZATION.**—The Secretary shall give priority to projects that develop and bring to market—

- (1) effective systems for on-site management or repurposing of produced water; and  
 (2) new technologies or approaches to reduce the environmental impact of produced water on local water sources and the environment.

(c) **CONDUCT OF PROGRAM.**—In carrying out the program described in subsection (a), the Secretary shall carry out science-based research and development activities to pursue—

(1) improved efficiency, technologies, and techniques for produced water recycling stations; and

(2) B. alternative approaches to treating, reusing, storing, or decontaminating produced water.

(d) **AUTHORIZATION OF APPROPRIATIONS.**—There are authorized to be appropriated for purposes of this section \$10,000,000 for each of fiscal years 2020 through 2025.

**SEC. 2564. PRODUCED WATER DEMONSTRATION PROGRAM.**

(a) **ESTABLISHMENT.**—The Secretary of Energy shall establish a demonstration program for on-site treatment of produced water.

(b) **REQUIREMENTS.**—In developing the demonstration program under this section, the Secretary shall consult with the heads of other relevant Federal departments and agencies, including the Department of the Interior and the Environmental Protection Agency.

(c) **PRIORITIZATION.**—In carrying out this section, the Secretary should prioritize—

(1) first-of-a-kind or new approaches to treating produced water stationed on site; and

(2) technologies that can be used at natural gas or oil development sites to reduce other environmental harm either through emissions or other environmental impact.

(d) **AUTHORIZATION OF APPROPRIATIONS.**—There are authorized to be appropriated for purposes of this section \$10,000,000 for each of fiscal years 2020 through 2025.

AMENDMENT NO. 42 OFFERED BY MR. LARSEN OF WASHINGTON

At the end of subtitle F of title XII, add the following:

**SEC. 2. STUDY ON CERTAIN CLIMATE CHANGE MITIGATION EFFORTS.**

(a) **IN GENERAL.**—Not later than 90 days after the date of enactment of this Act, the Secretary of Transportation shall seek to enter into an agreement with the National Academies of Sciences, Engineering, and Medicine (referred to in this section as the “National Academies”) to conduct a study on climate change mitigation efforts with respect to the civil aviation and aerospace industries.

(b) **STUDY CONTENTS.**—In conducting the study under subsection (a), the National Academies shall—

(1) identify climate change mitigation efforts, including efforts relating to emerging technologies, in the civil aviation and aerospace industries;

(2) develop and apply an appropriate indicator for assessing the effectiveness of such efforts;

(3) identify gaps in such efforts;

(4) identify barriers preventing expansion of such efforts; and

(5) develop recommendations with respect to such efforts.

(c) **REPORTS.**—

(1) **FINDINGS OF STUDY.**—Not later than 1 year after the date on which the Secretary enters into an agreement for a study pursuant to subsection (a), the Secretary shall submit to the appropriate congressional committees the findings of the study.

(2) **ASSESSMENT.**—Not later than 180 days after the date on which the Secretary submits the findings pursuant to paragraph (1),

the Secretary, acting through the Administrator of the Federal Aviation Administration, shall submit to the appropriate congressional committees a report that contains an assessment of the findings.

(d) **AUTHORIZATION OF APPROPRIATIONS.**—There is authorized to be appropriated to the Secretary to carry out this section \$1,500,000.

(e) **DEFINITIONS.**—In this section:

(1) **APPROPRIATE CONGRESSIONAL COMMITTEES.**—The term “appropriate congressional committees” means the Committee on Transportation and Infrastructure of the House of Representatives, the Committee on Commerce, Science, and Transportation of the Senate, and other congressional committees determined appropriate by the Secretary.

(2) **CLIMATE CHANGE MITIGATION EFFORTS.**—The term “climate change mitigation efforts” means efforts, including the use of technologies, materials, processes, or practices, that contribute to the reduction of greenhouse gas emissions.

AMENDMENT NO. 47 OFFERED BY MR. LIPINSKI OF ILLINOIS

Page 9, after the item relating to item section 12606, add the following:

Sec. 12607. Low-Dose-Radiation Research

At the end of subtitle F of title XII, add the following:

**SEC. 12607. LOW-DOSE-RADIATION RESEARCH.**

Section 306(c) of the Department of Energy Research and Innovation Act (42 U.S.C. 18644(c)) is amended to read as follows:

“(c) **LOW-DOSE-RADIATION RESEARCH PROGRAM.**—

“(1) **IN GENERAL.**—The Secretary shall carry out a research program on low-dose and low dose-rate radiation to—

“(A) enhance the scientific understanding of, and reduce uncertainties associated with, the effects of exposure to low-dose and low dose-rate radiation; and

“(B) inform improved risk-assessment and risk-management methods with respect to such radiation.

“(2) **PROGRAM COMPONENTS.**—In carrying out the program required under paragraph (1), the Secretary shall—

“(A) support and carry out the directives under section 106 of the American Innovation and Competitiveness Act (42 U.S.C. 6601 note), with respect to low dose and low-dose rate radiation research, in coordination with the Physical Science Subcommittee of the National Science and Technology Council;

“(B) identify and, to the extent possible, quantify, potential monetary and health-related impacts to Federal agencies, the general public, industry, research communities, and other users of information produced by such research program;

“(C) leverage the collective body of knowledge from prior and existing low-dose and low dose-rate radiation research;

“(D) engage with other Federal agencies, research communities, and potential users of information produced under this section, including institutions performing or utilizing radiation research, medical physics, radiology, health physics, and emergency response measures; and

“(E) support education and outreach activities to disseminate information and promote public understanding of low-dose radiation, with a focus on non-emergency situations such as medical physics, space exploration, and naturally occurring radiation.

“(3) **RESEARCH PLAN.**—

“(A) **NATIONAL ACADEMY OF SCIENCES.**—Not later than 90 days after the date of enactment of this Act, the Secretary shall enter into an agreement with the National Academy of Sciences to develop a long-term strategic and prioritized research agenda for the program described in paragraph (2);

“(B) **CONGRESS.**—Not later than 18 months after the date of enactment of this Act, the Secretary shall submit the research plan developed under subparagraph (A) to the Committee on Science, Space, and Technology of the House of Representatives and the Committee on Energy and Natural Resources of the Senate.

“(4) **PROGRAM EVALUATION.**—

“(A) **INDEPENDENT EXTERNAL ENTITY.**—Not later than 3 years after the date of enactment of this Act, and every 2 years thereafter, the Secretary shall enter into agreements with an independent external entity to perform a program evaluation.

“(B) **CONGRESS.**—The Secretary shall submit the program evaluations performed under subparagraph (A) to the Committee on Science, Space, and Technology of the House of Representatives and the Committee on Energy and Natural Resources of the Senate.

“(5) **DEFINITIONS.**—In this subsection:

“(A) **LOW-DOSE RADIATION.**—The term ‘low-dose radiation’ means a radiation dose of less than 100 millisieverts.

“(B) **LOW DOSE-RATE RADIATION.**—The term ‘low dose-rate radiation’ means a radiation dose rate of less than 5 millisieverts per hour.

“(6) **RULE OF CONSTRUCTION.**—Nothing in this subsection shall be construed to subject any research carried out by the Secretary for the program under this subsection to any limitations described in section 977(e) of the Energy Policy Act of 2005 (42 U.S.C. 16317(e)).

“(7) **FUNDING.**—There are authorized to be appropriated to the Secretary to carry out the program under this subsection—

“(A) \$20,000,000 for fiscal year 2021;

“(B) \$30,000,000 for fiscal year 2022;

“(C) \$40,000,000 for fiscal year 2023; and

“(D) \$50,000,000 for fiscal year 2024.”.

AMENDMENT NO. 49 OFFERED BY MR. LOWENTHAL OF CALIFORNIA

Page 894, after line 15, add the following:

**SEC. 12607. ONLINE PUBLICATION OF GREENHOUSE GAS EMISSIONS.**

(a) **IN GENERAL.**—The Secretary of the Interior shall make freely available on a public website, with respect to the previous year—

(1) information that describes for each fossil fuel operation that is subject to the mineral leasing laws or title III or V of the Federal Land Policy and Management Act of 1976 (30 U.S.C. 1761 et seq.), regardless of size, including production, storage, gathering, processing, transportation, and handling operations—

(A) the aggregate amount of each fossil fuel, by type and by State, produced on Federal leases; and

(B) for gas reported, the portion and source of such amount that was released or disposed of by each of venting, flaring, and fugitive release; and

(2) information that describes the amount and sources of energy, in delivered megawatt hours, produced from operating solar, wind, and geothermal projects on public lands under lease for the production of renewable energy.

(b) **FORMAT.**—Information made available under this section shall be presented in a format that—

(1) translates such amounts and portions into emissions of metric tons of greenhouse gases expressed in carbon dioxide equivalent using both the 20-year and 100-year Global Warming Potential-weighted emission values;

(2) for energy produced from solar, wind, and geothermal projects, includes an estimate of the net emissions that would result from production of the same amount of energy from new fossil fuel-fired facilities; and

(3) can be downloaded in a machine readable format.

(c) **DATA PUBLICATION FREQUENCY.**—The data made available under this section shall be updated at least annually.

AMENDMENT NO. 50 OFFERED BY MR. LUCAS OF OKLAHOMA

At the end of subtitle F of title XII, add the following:

**SEC. 126 . SENSE OF CONGRESS.**

It is the sense of Congress that in order to reduce emissions and meet 100 percent of the power demand in the United States through clean, renewable, or zero emission energy sources while maintaining United States leadership in science and technology, the Secretary of Energy must prioritize funding for critical fundamental research infrastructure and for basic research and development activities carried out through the Office of Science.

AMENDMENT NO. 54 OFFERED BY MS. MUCARSEL-POWELL OF FLORIDA

Page 475, after line 13, insert the following:

“(g) **UNDERGROUND TRANSMISSION AND DISTRIBUTION LINES.**—In carrying out the program under subsection (a), the Secretary shall support research and development on underground transmission and distribution lines. This shall include research on—

“(1) methods for lowering the costs of underground transmission and distribution lines, including through novel installation techniques and materials considerations;

“(2) techniques to improve the lifespan of underground transmission and distribution lines;

“(3) wireless sensors to improve safety of underground transmission and distribution lines and to predict, identify, detect, and transmit information about degradation and faults; and

“(4) methods for improving the resilience and reliability of underground transmission and distribution lines, including by mitigating the impact of flooding, storm surge, and seasonal climate cycles on degradation of and damage to underground transmission and distribution lines.”.

Page 475, line 14, strike “(g)” and insert “(h)”.

Page 476, line 1, strike “(h)” and insert “(i)”.

Page 476, line 4, strike “(i)” and insert “(j)”.

AMENDMENT NO. 64 OFFERED BY MR. PERLMUTTER OF COLORADO

Page 188, beginning on line 11, strike “direct use for heating or cooling” and insert “consumption”.

Page 188, beginning on line 15, strike “grid-enabled water heaters” and insert “grid-enabled water heaters, building heaters or coolers, electric vehicles, mini-pumped hydroelectric facilities, electrolysis processes that make hydrogen for transportation or industrial needs, or any other load shaping mechanism that includes energy storage”.

Page 467, beginning on line 17, strike “direct use for heating or cooling” and insert “consumption”.

Page 467, beginning on line 21, strike “grid-enabled water heaters” and insert “grid-enabled water heaters, building heaters or coolers, electric vehicles, mini-pumped hydroelectric facilities, electrolysis processes that make hydrogen for transportation or industrial needs, or any other load shaping mechanism that includes energy storage”.

AMENDMENT NO. 69 OFFERED BY MS. PINGREE OF MAINE

Page 243, lines 17 through 22, amend paragraph (3) to read as follows:

(3) To reduce the cost and risk of siting, permitting, construction, operation, maintenance, and decommissioning of wind energy systems, including strategies and technologies to reduce environmental and community impacts, including research and development that reduces impacts on existing

ocean uses and increases coordination between offshore wind and existing users, including the commercial fishing industry, improve grid integration, and reduce regulatory barriers.

AMENDMENT NO. 72 OFFERED BY MR. QUIGLEY OF ILLINOIS

Page 894, after line 15, insert the following:  
**SEC. 12607. USE OF BIRD-SAFE FEATURES, PRACTICES, AND STRATEGIES IN PUBLIC BUILDINGS.**

(a) IN GENERAL.—Chapter 33 of title 40, United States Code, is amended by adding at the end the following:

**“§ 3319. Use of bird-safe features, practices, and strategies in public buildings**

“(a) CONSTRUCTION, ALTERATION, AND ACQUISITION OF PUBLIC BUILDINGS.—The Administrator of General Services shall incorporate, to the extent practicable, features, practices, and strategies to reduce bird fatality resulting from collisions with public buildings for each public building—

“(1) constructed;

“(2) acquired; or

“(3) of which more than 50 percent of the facade is substantially altered (in the opinion of the Commissioner of Public Buildings).

“(b) DESIGN GUIDE.—The Administrator shall develop a design guide to carry out subsection (a) that includes the following:

“(1) Features for reducing bird fatality resulting from collisions with public buildings throughout all construction phases, taking into account the number of each such bird fatality that occurs at different types of public buildings.

“(2) Methods and strategies for reducing bird fatality resulting from collisions with public buildings during the operation and maintenance of such buildings, including installing interior, exterior, and site lighting.

“(3) Best practices for reducing bird fatality resulting from collisions with public buildings, including—

“(A) a description of the reasons for adopting such practices; and

“(B) an explanation for the omission of a best practice identified pursuant to subsection (c).

“(c) IDENTIFYING BEST PRACTICES.—To carry out subsection (b)(3), the Administrator may identify best practices for reducing bird fatality resulting from collisions with public buildings, including best practices recommended by—

“(1) Federal agencies with expertise in bird conservation;

“(2) nongovernmental organizations with expertise in bird conservation; and

“(3) representatives of green building certification systems.

“(d) DISSEMINATION OF DESIGN GUIDE.—The Administrator shall disseminate the design guide developed pursuant to subsection (b) to all Federal agencies, subagencies, and departments with independent leasing authority from the Administrator.

“(e) UPDATE TO DESIGN GUIDE.—The Administrator shall, on a regular basis, update the design guide developed pursuant to subsection (b) with respect to the priorities of the Administrator for reducing bird fatality resulting from collisions with public buildings.

“(f) EXEMPT BUILDINGS.—This section shall not apply to—

“(1) any building or site listed, or eligible for listing, on the National Register of Historic Places;

“(2) the White House and the grounds of the White House;

“(3) the Supreme Court building and the grounds of the Supreme Court; or

“(4) the United States Capitol and any building on the grounds of the Capitol.

“(g) CERTIFICATION.—Not later than October 1 of each fiscal year, the Administrator, acting through the Commissioner, shall certify to Congress that the Administrator uses the design guide developed pursuant to subsection (b) for each public building described in subsection (a).

“(h) REPORT.—Not later than October 1 of each fiscal year, the Administrator shall submit to Congress a report that includes—

“(1) the certification under subsection (g); and

“(2) to the extent practicable, the number of each such bird fatality that occurred as a result of a collision with the public buildings occupied by the respective head of each Federal agency.”.

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of chapter 33 of title 40, United States Code, is amended by adding at the end the following new item:

“3319. Use of bird-safe features, practices, and strategies in public buildings.”.

AMENDMENT NO. 77 OFFERED BY MR. SCHWEIKERT OF ARIZONA

At the end of subtitle A of title III, add the following:

**SEC. 3115. STUDY ON BLUE HYDROGEN TECHNOLOGY.**

(a) STUDY.—The Secretary of Energy shall conduct a study to examine opportunities for research and development in integrating blue hydrogen technology in the industrial power sector and how that could enhance the deployment and adoption of carbon capture and storage.

(b) REPORT.—Not later than 1 year after the date of enactment of this Act, the Secretary of Energy shall submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Science, Space, and Technology of the House of Representatives a report that describes the results of the study under subsection (a).

AMENDMENT NO. 78 OFFERED BY MR. SCOTT OF VIRGINIA

Page 247, line 23, redesignate paragraph (11) as paragraph (12).

Page 247, line 23, insert the following:

(11) Modeling and simulation tools to more efficiently design, site, permit, manufacture, construct, operate, maintain, and decommission wind energy systems.

AMENDMENT NO. 79 OFFERED BY MR. SCOTT OF VIRGINIA

Page 242, after line 13, insert the following:

(2) The term “energy critical material” means any of a class of non-fuel materials that have a high risk of a supply disruption and are critical to one or more existing or new, energy-related technologies such that a substantial supply disruption of such material would significantly inhibit large-scale deployment of technologies that produce, transmit, store, or conserve energy.

Page 242, lines 14, 18, and 21, redesignate paragraphs (2), (3), and (4), as paragraphs (3), (4), and (5), respectively.

Page 246, line 7, strike the semicolon at the end

\* Page 246, line 8, strike the period at the end and insert “; and”.

Page 246, after line 8, insert the following:  
(H) materials and designs that reduce the need for and use of energy critical materials.

Page 247, line 4, subparagraph (4) is amended to read as follows:

(4) Recycling and reuse of wind energy components, with special consideration for the recovery and reuse of energy critical materials, in coordination with the program under Title X of the Clean Economy Jobs and Innovation Act.

AMENDMENT NO. 80 OFFERED BY MR. SHERRILL OF NEW JERSEY

Page 252, line 3, insert “(including for air traffic control, air defense, and weather detection)” after “radar systems”.

AMENDMENT NO. 81 OFFERED BY MS. STEVENS OF MICHIGAN

Page 593, after line 17, insert the following:

**Subtitle G—Research and Development**

**SEC. 6701. DEFINITIONS.**

In this subtitle:

(1) ALTERNATIVE FUEL.—The term “alternative fuel” means a fuel that is sustainably produced and, or, that results in a significant reduction in carbon dioxide (CO<sub>2</sub>) emissions, or other particulate or toxic emissions, over the lifecycle of such fuel.

(2) DEPARTMENT.—The term “Department” means the Department of Energy.

(3) SECRETARY.—The term “Secretary” means the Secretary of Energy.

**SEC. 6702. VEHICLE RESEARCH AND DEVELOPMENT.**

(a) IN GENERAL.—The Secretary shall conduct a program of research, development, and demonstration activities on more efficient and sustainable materials, technologies, and processes with the potential to substantially reduce or eliminate petroleum from the manufacture, use, and the emissions of the passenger and commercial vehicles with lower cost of vehicle manufacturing and ownership, including activities in the areas of—

(1) electrification of vehicle systems; including compact and efficient electric drivetrain systems;

(2) power electronics, electric machines, and electric machine drive systems, including—

(A) electronic motors, including advanced inverters and motors that can be used for passenger vehicles and commercial vehicles;

(B) magnetic materials, including permanent magnets with reduced or no critical materials;

(C) improving partial load efficiency;

(D) design of power electronics and electric motor technologies that enable efficient recycling of critical materials; and

(E) other technically feasible areas for power electronics and electric machine advances.

(3) vehicle batteries and relevant systems, including—

(A) advanced batteries systems, ultracapacitors, and other competitive energy storage devices;

(B) the development of common interconnection protocols, specifications, and architecture for both transportation and stationary battery applications;

(C) improving energy density and capacity, recharging robustness, extreme fast charging and wireless charging capabilities, and efficiencies to lower cost;

(D) thermal management of battery systems;

(E) improving efficient use, substitution, and recycling of potentially critical materials in vehicles, including rare earth elements and precious metals, at risk of supply disruption; and

(F) advanced battery protection systems for safe handling of high voltage power;

(4) vehicle, component, and subsystem manufacturing technologies and processes;

(5) vehicle systems and components, including—

(A) engine efficiency and combustion optimization;

(B) waste heat recovery;

(C) transmission and drivetrains;

(D) advanced boosting systems;

(E) idle reduction systems and components;



(F) innovative propulsion systems; and  
 (G) vehicle fuel cells and relevant systems;  
 (6) hybrid and alternative fuel vehicles, including—

(A) vehicle fuel cells and relevant systems, including power electronics systems to regulate the fuel cell voltages;

(B) synthetic fuels from recycled CO<sub>2</sub> and net-zero carbon liquid fuels; and

(C) advanced biofuel technologies;

(7) aftertreatment technologies, aerodynamics, rolling resistance (including tires and wheel assemblies), accessory power loads of vehicles and associated equipment, friction and wear reduction, and lubricants for hybrid and electric vehicles;

(8) vehicle weight reduction, including—

(A) more sustainable and cost-effective lightweighting materials; and

(B) the development of higher efficiency manufacturing processes to make sustainable lightweight materials and fabricate, assemble, and use dissimilar materials, including—

(i) lightweighted systems which combine several existing vehicle components; and

(ii) voluntary, consensus-based standards for strategic lightweight materials;

(9) improved vehicle recycling methods to increase the recycled material content of feedstocks used in raw material manufacturing;

(10) vehicle propulsion systems, including—

(A) engine and component durability;

(B) engine down speeding;

(C) engine compatibility with and optimization for a variety of transportation fuels, including biofuels, synthetic fuels, and other liquid and gaseous fuels;

(D) advanced internal combustion engines;

(E) transmission gear and engine operation matching; and

(F) advanced transmission technologies;

(11) predictive engineering, modeling, and simulation of components, vehicle and transportation systems;

(12) leveraging automation in both vehicle and infrastructure systems;

(13) infrastructure, including—

(A) refueling and charging infrastructure for alternative fueled and electric drive or plug-in electric hybrid vehicles, including the unique challenges facing rural areas;

(B) extreme fast wired and wireless charging systems;

(C) integration, bidirectional capability, and operational optimization of vehicle electrification for light, medium, and heavy duty with the charging infrastructure and the grid; and

(D) sensing, communications, and actuation technologies for vehicle, electric grid, and infrastructure, including—

(i) communication and connectivity among vehicles, infrastructure, and the electrical grid; and

(ii) vehicle-to-vehicle, vehicle-to-pedestrian, vehicle-to-cloud, and vehicle-to-infrastructure technologies;

(14) retrofitting advanced vehicle technologies to existing vehicles;

(15) transportation system analysis to further understand the energy implications and opportunities of advanced mobility solutions, including—

(A) advanced vehicle technologies, including automation;

(B) new mobility business models, real time information, transit, and micro mobility choices;

(C) consumer travel decisions and e-commerce engagement, including travel behavior and potential strategies for reducing vehicle miles traveled to reduce emissions;

(D) goods movement and delivery interactions, including with car transport;

(E) infrastructure advancements and linkage with vehicle-to-everything,

(F) quantification of technology, policy, and investment decisions on mobility, access, equity, and the environment; and

(G) overall system optimization;

(16) aligned industry standards for strategic lightweight materials;

(17) energy efficient advanced computing systems, technology, and networking for vehicular on-board, off-board, and edge computing applications;

(18) identifying strategies to mitigate the long-term ramification of vehicle and mobility technology research, development, and demonstration stemming from events such as economic downturns; and

(19) other innovative technologies research and development as determined by the Secretary.

(b) SECURITY OF ON-ROAD TRANSPORTATION.—

(1) IN GENERAL.—The Secretary, in coordination with other relevant Federal agencies, shall establish a research and development program focused on the cyber and physical security of interconnections between vehicles, charging equipment, buildings, and the grid for plug-in electric vehicles, connected vehicles, and autonomous vehicles, including the security impacts, efficiency, and safety of plug-in electric vehicles using alternating current charging, high-power direct current fast charging, and extreme fast charging, defined as charge rates of 350kW and above.

(2) ASSESSMENT.—The Secretary shall develop an assessment of emergent cybersecurity threats and vulnerabilities to the United States on-road transportation system and connected infrastructure with 5- to 10-year impact by identifying areas of research where Federal cross-agency research coordination and cooperation will help address such threats and vulnerabilities.

(3) REPORT.—Not later than 180 days after the date of enactment of this Act, the Secretary shall submit to the Committee on Science, Space, and Technology of the House of Representatives, and the Committee on Energy and Natural Resources of the Senate a report summarizing the current research and challenges associated with cyber-physical protection and resiliency of electric and connected and automated vehicle technologies.

(c) VEHICLE ENERGY STORAGE SYSTEM SAFETY.—

(1) IN GENERAL.—The Secretary shall support a program of research, development, and demonstration of vehicle energy storage safety and reliability.

(2) ACTIVITIES.—In carrying out this section, the Secretary shall support activities to—

(A) research the mechanisms that lead to vehicle energy storage system safety and reliability incidents;

(B) develop new materials to improve overall vehicle energy storage system safety and abuse tolerance;

(C) perform abuse testing;

(D) advance testing techniques;

(E) demonstrate detailed failure analyses;

(F) develop strategies to mitigate vehicle energy storage cell and system failures; and

(G) development of crush-induced battery safety protocols and standards to improve robustness.

(d) VEHICLE TECHNOLOGIES ADVISORY COMMITTEE.—

(1) IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Secretary shall establish the Advanced Vehicle Technologies Advisory Committee (in this section referred to as the “advisory committee”) to advise the Secretary on vehicle technology and mobility system research advancements. The advisory com-

mittee shall be composed of not fewer than 15 members, including representatives of research and academic institutions, environmental organizations, industry, and non-governmental entities, who are qualified to provide advice on the research, development, and demonstration activities under this Act (in this section referred to as the DOE Vehicle Program).

(2) ASSESSMENT.—The advisory committee shall assess—

(A) the current state of United States competitiveness in advancing vehicle technologies and mobility systems, including—

(i) the scope and scale of United States investments in sustainable transportation research, development, demonstration, and

(ii) research, development, and demonstration activities to lower vehicle and fuel lifecycle emissions;

(B) progress made in implementing the DOE Vehicle Program, including progress of research activities to lower vehicle emissions, considering emissions at each stage of the vehicle and fuel lifecycle;

(C) the need to revise the DOE Vehicle Program;

(D) the balance of activities and funding across the DOE Vehicle Program;

(E) the management, coordination, implementation, and activities of the DOE Vehicle Program;

(F) whether environmental, safety, security, and other appropriate societal issues are adequately addressed by the DOE Vehicle Technologies Program; and

(G) other relevant topics as decided by the Secretary.

(3) REPORTS.—Not later than 2 years after the date of enactment of this Act, and not less frequently than once every 3 years thereafter, the advisory committee shall submit to the Secretary, the Committee on Science, Space, and Technology of the House of Representatives a report on—

(A) the findings of the advisory committee’s assessment under paragraph (1); and

(B) the advisory committee’s recommendations for ways to improve the DOE Vehicle Program.

(4) APPLICATION OF FEDERAL ADVISORY COMMITTEE ACT.—Section 14 of the Federal Advisory Committee Act (5 U.S.C. App.) shall not apply to the Advisory Committee.

(e) INTERAGENCY AND INTRAAGENCY COORDINATION.—To the maximum extent practicable, the Secretary shall coordinate research, development, and demonstration activities among—

(1) relevant programs within the Department, including—

(A) the Office of Energy Efficiency and Renewable Energy;

(B) the Office of Science;

(C) the Office of Electricity;

(D) the Office of Fossil Energy;

(E) the Office of Cybersecurity, Energy Security, and Emergency Response;

(F) the Advanced Research Projects Agency—Energy; and

(G) other offices as determined by the Secretary; and

(2) relevant technology research and development programs within other Federal agencies, including—

(A) the Department of Transportation;

(B) National Institute of Standards & Technology;

(C) National Science Foundation; and

(D) other Federal agencies as determined by the Secretary.

(f) INTERGOVERNMENTAL COORDINATION.—The Secretary shall seek opportunities to leverage resources and support initiatives of Federal, State, and local governments in developing and promoting advanced vehicle technologies, manufacturing, and infrastructure.

(g) SECONDARY USE APPLICATIONS OF VEHICLE BATTERIES.—

(1) IN GENERAL.—The Secretary shall carry out a research, development, and demonstration program that—

(A) builds on any work carried out under section 915 of the Energy Policy Act of 2005 (42 U.S.C. 16195);

(B) identifies possible uses of a vehicle battery after the useful life of the battery in a vehicle has been exhausted;

(C) conducts long-term testing to verify performance and degradation predictions and lifetime valuations for secondary uses;

(D) evaluates innovative approaches to recycling materials from plug-in electric drive vehicles and the batteries used in plug-in electric drive vehicles;

(E) assesses the potential for markets for uses described in subparagraph (B) to develop; and

(F) identifies any barriers to the development of those markets;

(G) identifies the potential uses of a vehicle battery—

(i) with the most promise for market development; and

(ii) for which market development would be aided by a demonstration project.

(2) REPORT.—Not later than 18 months after the date of enactment of this Act, the Secretary shall submit to the appropriate committees of Congress an initial report on the findings of the program described in paragraph (1), including recommendations for stationary energy storage and other potential applications for batteries used in plug-in electric drive vehicles.

(3) SECONDARY USE DEMONSTRATION.—

(A) IN GENERAL.—Based on the results of the program described in paragraph (1), the Secretary shall develop guidelines for projects that demonstrate the secondary uses and innovative recycling of vehicle batteries.

(B) PUBLICATION OF GUIDELINES.—Not later than 18 months after the date of enactment of this Act, the Secretary shall—

(i) publish the guidelines described in subparagraph (A); and

(ii) solicit applications for funding for demonstration projects.

(5) PILOT DEMONSTRATION PROGRAM.—Not later than 2 years after the date of enactment of this Act, the Secretary shall select proposals for Federal financial assistance under this subsection, based on an assessment of which proposals are mostly likely to contribute to the development of a secondary market for vehicle batteries.

(h) STUDY TO EXAMINE BATTERY SCIENCE AND TECHNOLOGY PATHWAYS.—

(1) IN GENERAL.—The Secretary shall enter into an agreement with the National Academies of Sciences, Engineering, and Medicine under which the National Academies agree to conduct a study on battery technologies to advance research toward a resilient and low-carbon transportation system and electric grid. Such study shall—

(A) identify promising battery technologies;

(B) recommend research priorities to support the development of sustainable battery value chains, including analyzing human rights, environmental impacts, and recycling and reuse infrastructure;

(C) examine market, policy, and technology barriers to their development; and

(D) recommend strategic research priorities on technology pathways to develop affordable, sustainable, safe, efficient, and long-lasting batteries to meet future transportation and energy storage demands.

(2) REPORT.—The agreement entered into under subsection (a) shall include a requirement that the National Academies, not later than 24 months after the date of enactment

of this Act, submit to the House Committee on Science, Space and Technology, and the Senate Committee on Energy and Natural Resources a report on the results of the study conducted pursuant to such subsection.

**SEC. 6703. RESEARCH AND DEVELOPMENT PROGRAM FOR ADVANCED VEHICLE MANUFACTURING TECHNOLOGIES.**

The Secretary shall carry out a research, development, and demonstration program of advanced vehicle manufacturing technologies and practices, including innovative, efficient, and sustainable processes—

(1) to increase the production rate and decrease the cost of advanced battery and fuel cell manufacturing, including synthesis of precursor materials for electrodes;

(2) to develop technologies enabling flexible manufacturing facilities that can accommodate different battery chemistries and configurations;

(3) to reduce or repurpose waste streams, reduce emissions, and energy intensity of vehicle, engine, advanced battery, and component manufacturing processes;

(4) to recycle and remanufacture used batteries and other vehicle components for reuse in vehicles or other applications;

(5) to develop manufacturing and additive manufacturing processes to fabricate, assemble, and produce cost-effective lightweight materials with enhanced functionality such as advanced aluminum, steel, and other metal alloys, advanced polymers, polymeric composites, and carbon fiber for use in vehicles and related tooling;

(6) to leverage the use of machine learning toward manufacturing and additive manufacturing optimization;

(7) to design and manufacture purpose-built hydrogen fuel cell vehicles, hydrogen fueling infrastructure, and components;

(8) to improve the lifetime and reduce the lifecycle impacts of advanced batteries; and

(9) to reuse valuable components and materials such as permanent magnets and other electric drive components for advanced vehicles.

**SEC. 6704. AUTHORIZATION OF APPROPRIATIONS.**

There are authorized to be appropriated to the Secretary for research, development, and demonstration, of alternative fuels, vehicle propulsion systems, vehicle components, and other related technologies in the United States, including activities authorized under this subtitle—

(1) for fiscal year 2021, \$396,000,000;

(2) for fiscal year 2022, \$415,800,000;

(3) for fiscal year 2023, \$436,590,000;

(4) for fiscal year 2024, \$458,419,500; and

(5) for fiscal year 2025, \$481,340,475.

AMENDMENT NO. 94 OFFERED BY MS. DEGETTE OF COLORADO

At the end of subtitle F of title XII, add the following:

**SEC. —. GAS WASTE REDUCTION AND ENHANCEMENT OF GAS MEASURING AND REPORTING.**

(a) IN GENERAL.—Title I of the Federal Oil and Gas Royalty Management Act of 1982 (30 U.S.C. 1711 et seq.) is amended by adding at the end the following:

**“SEC. 118. GAS WASTE REDUCTION AND ENHANCEMENT OF GAS MEASURING AND REPORTING.**

“(a) REGULATIONS FOR PREVENTING AND REDUCING WASTE OF GAS VIA VENTING, FLARING, AND FUGITIVE RELEASES.—

“(1) REQUIREMENT TO ISSUE REGULATIONS.—Not later than 2 years after the date of enactment of this section, the Secretary shall issue regulations pursuant to the Secretary’s authority under the Mineral Leasing Act, the Federal Land Policy and Management Act of 1976, the Indian Mineral Leasing Act of 1938, and other statutes authorizing the

Secretary to regulate oil and gas activities on Federal land and Indian lands, that establish requirements for reducing and preventing the waste of gas, including by venting, flaring, and fugitive releases, from covered operations.

“(2) CONTENT OF REGULATIONS.—The regulations shall, with respect to covered operations—

“(A) require that, beginning not later than 3 years after the date of enactment of this section, each operator captures at least 85 percent of all gas produced in each year from each onshore well that is subject to a mineral leasing law;

“(B) require that, beginning not later than 5 years after the date of enactment of this section, each operator captures at least 99 percent of all gas produced in each year from each onshore well that is subject to a mineral leasing law;

“(C) require flaring of gas, rather than venting, in all instances in which gas is not captured;

“(D) require that every application for a permit to drill a production well—

“(i) demonstrate sufficient infrastructure and capacity is in place to capture the expected quantity of produced gas from the well; and

“(ii) be published with an opportunity for a public comment period of at least 30 days;

“(E) beginning not later than 2 years after the date of enactment of this section, prohibit all new and refractured production wells from flaring;

“(F) require the operator of any covered operation that routinely flares gas before the effective date of a regulation prohibiting flaring issued pursuant to subparagraph (E) to submit a gas capture plan to the Secretary not later than 180 days before such effective date that ensures that such operator will meet the requirements described in subparagraphs (A) and (B);

“(G) set performance standards for newly installed equipment based on modern equipment that minimize gas loss from—

“(i) storage tanks;

“(ii) dehydrators;

“(iii) compressors;

“(iv) open-ended valves or lines;

“(v) pumps; and

“(vi) such other equipment as the Secretary determines appropriate to reduce and prevent gas release;

“(H) require that operators replace existing equipment within one year of the publication date of performance standards established under subsection (G);

“(I) require the replacement of all high-bleed gas-actuated pneumatic devices with low-bleed or no-bleed devices not later than 180 days after the date of issuance of the regulation enacted under subparagraph (A);

“(J) set performance standards based on modern procedures and equipment that minimize gas loss from—

“(i) downhole maintenance;

“(ii) liquids unloading;

“(iii) well completion; and

“(iv) such other procedures as the Secretary determines appropriate to reduce and prevent gas release;

“(K) require all operators to have leak detection programs with regularly scheduled inspections that assess the entire covered operation using an infrared camera or other equipment with methods that provide overall at least equivalent sensitivity and effectiveness in detecting leaks on a timely basis;

“(L) require any leaks found to be repaired promptly, and in any case not later than 4 weeks after the discovery of the leak, except where exceptional circumstances warrant an extension of not more than 8 additional weeks; and

“(M) require recordkeeping for—



“(i) equipment maintenance;  
 “(ii) leak detection and repair;  
 “(iii) venting events;  
 “(iv) flaring events; and  
 “(v) such other operations as the Secretary determines appropriate to reduce and prevent gas release.

“(b) GAS MEASURING, REPORTING, AND TRANSPARENCY REQUIREMENTS.—

“(1) IN GENERAL.—The Secretary shall, not later than one year after the date of enactment of this section, issue regulations requiring each operator to measure and report, with respect to all gas subject to the mineral leasing laws, all such gas produced, consumed on site, or lost through venting, flaring, or fugitive releases.

“(2) MEASURING AND REPORTING REQUIREMENTS.—To account for all gas referred to in paragraph (1), the Secretary shall issue regulations requiring each operator to—

“(A) measure all production and disposition of gas with such accuracy that fugitive gas releases can be calculated;

“(B) install metering devices to measure all flared gas; and

“(C) report to the Secretary the volumes of gas measured under the requirements described in subparagraph (A), including—

“(i) all new measured values for production and disposition, including vented and flared volumes; and

“(ii) values for fugitive releases based on guidelines for their calculation established by the Secretary in such regulations.

“(3) TRANSPARENCY.—The Secretary shall make all new data produced under the requirements established by the Secretary under this subsection, including calculated fugitive releases and volumes of gas lost to venting and flaring, publicly available through the internet—

“(A) without a fee or other access charge;

“(B) in a searchable, sortable, and downloadable manner, to the extent technically possible; and

“(C) as soon as technically practicable after the report by the operator is filed.

“(c) APPLICATION.—Except as otherwise specified in this section, the requirements established by the Secretary under this section shall apply to—

“(1) the construction and operation of any covered operation initiated, including the re-fracturing of existing wells, on or after the date of the issuance of regulations under this section; and

“(2) after the end of the 1-year period beginning on the date of the issuance of such regulations, any covered operation initiated before the date of the issuance of such regulations.

“(d) ENFORCEMENT MECHANISMS.—

“(1) IN GENERAL.—The Secretary shall include in the regulations issued under this section consistent enforcement mechanisms for covered operations that are not in compliance with the requirements established by the regulations.

“(2) REQUIREMENTS.—The Secretary shall include in the enforcement mechanisms described in paragraph (1)—

“(A) civil penalties for unauthorized venting and flaring, which shall—

“(i) apply in lieu of the penalties and related provisions under section 109; and

“(ii) include production restrictions and civil monetary penalties equivalent to 3 times the market value of the vented or flared gas; and

“(B) civil penalties that apply to non-compliance with other new or existing procedures, which shall—

“(i) apply in addition to or in lieu of the penalties and related provisions under section 109;

“(ii) include production restrictions or monetary penalties, or both; and

“(iii) in the case of monetary penalties, be proportional to market conditions.

“(e) DEFINITIONS.—In this section:

“(1) CAPTURE.—The term ‘capture’ means the physical containment of natural gas for transportation to market or productive use of natural gas, and includes reinjection and royalty-free on-site uses.

“(2) COVERED OPERATIONS.—The term ‘covered operations’ means all oil and gas operations that are subject to mineral leasing law or title V of the Federal Land Policy and Management Act of 1976 (30 U.S.C. 1761 et seq.), regardless of size, including production, storage, gathering, processing, and handling operations.

“(3) FLARE AND FLARING.—The terms ‘flare’ and ‘flaring’ mean the intentional and controlled burning of gas that occurs in the course of oil and gas operations to limit release of gas to the atmosphere.

“(4) FUGITIVE RELEASE.—The term ‘fugitive release’ means the unintentional and uncontrolled release of gas into the atmosphere in the course of oil and gas operations.

“(5) GAS CAPTURE PLAN.—The term ‘gas capture plan’ means a plan that includes specific goals, including equipment and timelines, for capturing, gathering, and processing gas produced under an oil or gas lease.

“(6) GAS RELEASE.—The term ‘gas release’ includes all gas that is discharged to the atmosphere via venting or fugitive release.

“(7) VENT AND VENTING.—The terms ‘vent’ and ‘venting’ mean the intentional and controlled release of gas into the atmosphere in the course of oil and gas operations.”

(b) CLERICAL AMENDMENT.—The table of contents in section 1 of such Act is amended by inserting after the item relating to section 117 the following:

“Sec. 118. Gas waste reduction and enhancement of gas measuring and reporting.”

(c) UPDATES.—The Secretary of the Interior shall update the regulations required by the amendments made by this section when the Secretary determines appropriate, but no less frequently than once every ten years, to reflect new information regarding gas waste, the impacts of that waste, and the availability of technologies and performance measures to reduce gas waste.

(d) APPLICATION OF PRIOR RULE.—The final rule entitled “Waste Prevention, Production Subject to Royalties, and Resource Conservation”, as published in the Federal Register November 18, 2016 (81 Fed. Reg. 83008), is hereby reinstated, and each of its provisions shall apply unless and until the effective date of a subsequent final rule promulgated under the amendment made by subsection (a), or promulgated under another applicable authority, that replaces or repeals such provision.

(e) ASSESSMENT OF VENTING, FLARING, AND FUGITIVE RELEASES.—Not later than 180 days after the end of the 1-year period beginning on the date the Secretary of the Interior first receives data submitted under the requirements established under subsection (b) of section 118 of the Federal Oil and Gas Royalty Management Act of 1982, as amended by this section, the Secretary shall—

(1) submit a report to Congress describing—

(A) the volume of fugitive releases, and gas consumed or lost by venting and flaring, from covered operations (as those terms are used in such section); and

(B) additional regulations the Secretary considers would help further curtail venting, flaring, and fugitive releases, or the rational basis for not issuing such additional regulations if the Secretary considers additional regulations would not be appropriate to further curtail venting, flaring, and fugitive releases; and

(2) issue regulations described in the report required by paragraph (1)(B) not later than 1 year after the date of the submission of the report.

AMENDMENT NO. 98 OFFERED BY MR. LUJÁN OF NEW MEXICO

Add at the end of title VIII the following:

**Subtitle D—Increasing and Mobilizing Partnerships to Achieve Commercialization of Technologies for Energy**

**SEC. 8401. SHORT TITLE.**

This subtitle may be cited as the “Increasing and Mobilizing Partnerships to Achieve Commercialization of Technologies for Energy Act” or the “IMPACT for Energy Act”.

**SEC. 8402. DEFINITIONS.**

In this subtitle:

(1) BOARD.—The term “Board” means the Board of Directors described in section 8403(b)(1).

(2) DEPARTMENT.—The term “Department” means the Department of Energy.

(3) EXECUTIVE DIRECTOR.—The term “Executive Director” means the Executive Director described in section 8403(e)(1).

(4) FOUNDATION.—The term “Foundation” means the Energy Technology Commercialization Foundation established under section 8403(a).

(5) NATIONAL LABORATORY.—The term “National Laboratory” has the meaning given the term in section 2 of the Energy Policy Act of 2005 (42 U.S.C. 15801).

(6) SECRETARY.—The term “Secretary” means the Secretary of Energy.

**SEC. 8403. ENERGY TECHNOLOGY COMMERCIALIZATION FOUNDATION.**

(a) ESTABLISHMENT.—

(1) IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Secretary shall establish a nonprofit corporation to be known as the “Energy Technology Commercialization Foundation”.

(2) MISSION.—The mission of the Foundation shall be—

(A) to support the mission of the Department; and

(B) to advance collaboration with energy researchers, institutions of higher education, industry, and nonprofit and philanthropic organizations to accelerate the commercialization of energy technologies.

(3) LIMITATION.—The Foundation shall not be an agency or instrumentality of the Federal Government.

(4) TAX-EXEMPT STATUS.—The Board shall take all necessary and appropriate steps to ensure that the Foundation receives a determination from the Internal Revenue Service that it is an organization that is described in section 501(c) of the Internal Revenue Code of 1986, and exempt from taxation under section 501(a) of such Code.

(5) COLLABORATION WITH EXISTING ORGANIZATIONS.—The Secretary may collaborate with 1 or more organizations to establish the Foundation and carry out the activities of the Foundation.

(b) BOARD OF DIRECTORS.—

(1) ESTABLISHMENT.—The Foundation shall be governed by a Board of Directors.

(2) COMPOSITION.—

(A) IN GENERAL.—The Board shall be composed of the members described in subparagraph (B).

(B) BOARD MEMBERS.—

(i) INITIAL MEMBERS.—The Secretary shall—

(I) enter into a contract with the National Academies of Sciences, Engineering, and Medicine to develop a list of individuals to serve as members of the Board who are well-qualified and will meet the requirements of clauses (i) and (iii); and

(II) appoint the initial members of the Board, in consultation with the National

Academies of Sciences, Engineering, and Medicine, with the requirements of clauses (ii) and (iii).

(ii) REPRESENTATION.—The members of the Board shall reflect a broad cross-section of stakeholders from academia, industry, non-profit organizations, State or local governments, the investment community, the philanthropic community, and management and operating contractors of the National Laboratories.

(iii) EXPERIENCE.—The Secretary shall ensure that a majority of the members of the Board—

(I)(aa) has experience in the energy sector; (bb) has research experience in the energy field; or

(cc) has experience in technology commercialization or foundation operations; and (II) to the extent practicable, represents diverse regions and energy sectors.

(3) CHAIR AND VICE CHAIR.—

(A) IN GENERAL.—The Board shall designate from among the members of the Board—

(i) an individual to serve as Chair of the Board; and

(ii) an individual to serve as Vice Chair of the Board.

(B) TERMS.—The term of service of the Chair and Vice Chair of the Board shall end on the earlier of—

(i) the date that is 3 years after the date on which the Chair or Vice Chair of the Board, as applicable, is designated for the position; and

(ii) the last day of the term of service of the member, as determined under paragraph (4)(A), who is designated to be Chair or Vice Chair of the Board, as applicable.

(C) REPRESENTATION.—The Chair and Vice Chair of the Board—

(i) shall not be representatives of the same area or entity, as applicable, under paragraph (2)(B)(ii); and

(ii) shall not be representatives of any area or entity, as applicable, represented by the immediately preceding Chair and Vice Chair of the Board.

(4) TERMS AND VACANCIES.—

(A) TERMS.—

(i) IN GENERAL.—Except as provided in clause (ii), the term of service of each member of the Board shall be 5 years.

(ii) INITIAL MEMBERS.—Of the initial members of the Board appointed under paragraph (2)(B)(i), half of the members shall serve for 4 years and half of the members shall serve for 5 years, as determined by the Chair of the Board.

(B) VACANCIES.—Any vacancy in the membership of the Board—

(i) shall be filled in accordance with the bylaws of the Foundation by an individual capable of representing the same area or entity, as applicable, as represented by the vacating board member under paragraph (2)(B)(ii);

(ii) shall not affect the power of the remaining members to execute the duties of the Board; and

(iii) shall be filled by an individual selected by the Board.

(5) MEETINGS; QUORUM.—

(A) INITIAL MEETING.—Not later than 60 days after the Board is established, the Secretary shall convene a meeting of the members of the Board to incorporate the Foundation.

(B) QUORUM.—A majority of the members of the Board shall constitute a quorum for purposes of conducting the business of the Board.

(6) DUTIES.—The Board shall—

(A) establish bylaws for the Foundation in accordance with paragraph (7);

(B) provide overall direction for the activities of the Foundation and establish priority activities;

(C) carry out any other necessary activities of the Foundation;

(D) evaluate the performance of the Executive Director; and

(E) actively solicit and accept funds, gifts, grants, devises, or bequests of real or personal property to the Foundation, including from private entities.

(7) BYLAWS.—

(A) IN GENERAL.—The bylaws established under paragraph (6)(A) may include—

(i) policies for the selection of Board members, officers, employees, agents, and contractors of the Foundation;

(ii) policies, including ethical standards, for—

(I) the acceptance, solicitation, and disposition of donations and grants to the Foundation, including appropriate limits on the ability of donors to designate, by stipulation or restriction, the use or recipient of donated funds; and

(II) the disposition of assets of the Foundation;

(iii) policies that subject all employees, fellows, trainees, and other agents of the Foundation (including members of the Board) to conflict of interest standards; and (iv) the specific duties of the Executive Director.

(B) REQUIREMENTS.—The Board shall ensure that the bylaws of the Foundation and the activities carried out under those bylaws shall not—

(i) reflect unfavorably on the ability of the Foundation to carry out activities in a fair and objective manner; or

(ii) compromise, or appear to compromise, the integrity of any governmental agency or program, or any officer or employee employed by, or involved in, a governmental agency or program.

(8) COMPENSATION.—

(A) IN GENERAL.—No member of the Board shall receive compensation for serving on the Board.

(B) CERTAIN EXPENSES.—In accordance with the bylaws of the Foundation, members of the Board may be reimbursed for travel expenses, including per diem in lieu of subsistence, and other necessary expenses incurred in carrying out the duties of the Board.

(C) PURPOSE.—The purpose of the Foundation is to increase private and philanthropic sector investments that support efforts to create, develop, and commercialize innovative technologies that address crosscutting national energy challenges by methods that include—

(1) fostering collaboration and partnerships with researchers from the Federal Government, State governments, institutions of higher education, federally funded research and development centers, industry, and non-profit organizations for the research, development, or commercialization of transformative energy and associated technologies;

(2)(A) strengthening regional economic development through scientific and energy innovation; and

(B) disseminating lessons learned from that development to foster the creation and growth of new regional energy innovation clusters;

(3) promoting new product development that supports job creation;

(4) administering prize competitions to accelerate private sector competition and investment; and

(5) supporting programs that advance technologies from the prototype stage to a commercial stage.

(d) ACTIVITIES.—

(1) STUDIES, COMPETITIONS, AND PROJECTS.—The Foundation may conduct and support studies, competitions, projects, and other ac-

tivities that further the purpose of the Foundation described in subsection (c).

(2) FELLOWSHIPS AND GRANTS.—

(A) IN GENERAL.—The Foundation may award fellowships and grants for activities relating to research, development, demonstration, maturation, or commercialization of energy and other Department-supported technologies.

(B) FORM OF AWARD.—A fellowship or grant under subparagraph (A) may consist of a stipend, health insurance benefits, funds for travel, and funds for other appropriate expenses.

(C) SELECTION.—In selecting a recipient for a fellowship or grant under subparagraph (A), the Foundation—

(i) shall make the selection based on the technical and commercialization merits of the proposed project of the potential recipient; and

(ii) may consult with a potential recipient regarding the ability of the potential recipient to carry out various projects that would further the purpose of the Foundation described in subsection (c).

(D) NATIONAL LABORATORIES.—A National Laboratory that applies for or accepts a grant under subparagraph (A) shall not be considered to be engaging in a competitive process.

(3) ACCESSING FACILITIES AND EXPERTISE.—The Foundation may work with the Department—

(A) to leverage the capabilities and facilities of National Laboratories to commercialize technology; and

(B) to assist with resources, including through the development of internet websites that provide information on the capabilities and facilities of each National Laboratory relating to the commercialization of technology.

(4) TRAINING AND EDUCATION.—The Foundation may support programs that provide commercialization training to researchers, scientists, and other relevant personnel at National Laboratories and institutions of higher education to help commercialize federally funded technology.

(5) MATURATION FUNDING.—The Foundation shall support programs that provide maturation funding to researchers to advance the technology of those researchers for the purpose of moving products from a prototype stage to a commercial stage.

(6) STAKEHOLDER ENGAGEMENT.—The Foundation shall convene, and may consult with, representatives from the Department, institutions of higher education, National Laboratories, the private sector, and commercialization organizations to develop programs for the purpose of the Foundation described in subsection (c) and to advance the activities of the Foundation.

(7) INDIVIDUAL LABORATORY FOUNDATIONS PROGRAM.—

(A) DEFINITION OF INDIVIDUAL LABORATORY FOUNDATION.—In this paragraph, the term “Individual Laboratory Foundation” means a Laboratory Foundation established by a National Laboratory.

(B) SUPPORT.—The Foundation shall provide support to and collaborate with Individual Laboratory Foundations.

(C) GUIDELINES AND TEMPLATES.—For the purpose of providing support under subparagraph (B), the Secretary shall establish suggested guidelines and templates for Individual Laboratory Foundations, including—

(i) a standard adaptable organizational design for the responsible management of an Individual Laboratory Foundation;

(ii) standard and legally tenable bylaws and money-handling procedures for Individual Laboratory Foundations; and

(iii) a standard training curriculum to orient and expand the operating expertise of

personnel employed by an Individual Laboratory Foundation.

(D) AFFILIATIONS.—Nothing in this paragraph requires—

(i) an existing Individual Laboratory Foundation to modify current practices or affiliate with the Foundation; or

(ii) an Individual Laboratory Foundation to be bound by charter or corporate bylaws as permanently affiliated with the Foundation.

(8) SUPPLEMENTAL PROGRAMS.—The Foundation may carry out supplemental programs—

(A) to conduct and support forums, meetings, conferences, courses, and training workshops consistent with the purpose of the Foundation described in subsection (c);

(B) to support and encourage the understanding and development of—

(i) data that promotes the translation of technologies from the research stage, through the development and maturation stage, and ending in the market stage; and

(ii) policies that make regulation more effective and efficient by leveraging the technology translation data described in clause (i) for the regulation of relevant technology sectors;

(C) for writing, editing, printing, publishing, and vending books and other materials relating to research carried out under the Foundation and the Department; and

(D) to conduct other activities to carry out and support the purpose of the Foundation described in subsection (c).

(9) EVALUATIONS.—The Foundation shall support the development of an evaluation methodology, to be used as part of any program supported by the Foundation, that shall—

(A) consist of qualitative and quantitative metrics; and

(B) include periodic third party evaluation of those programs and other activities of the Foundation.

(10) COMMUNICATIONS.—The Foundation shall develop an expertise in communications to promote the work of grant and fellowship recipients under paragraph (2), the commercialization successes of the Foundation, opportunities for partnership with the Foundation, and other activities.

(e) ADMINISTRATION.—

(1) EXECUTIVE DIRECTOR.—The Board shall hire an Executive Director of the Foundation, who shall serve at the pleasure of the Board.

(2) ADMINISTRATIVE CONTROL.—No member of the Board, officer or employee of the Foundation or of any program established by the Foundation, or participant in a program established by the Foundation, shall exercise administrative control over any Federal employee.

(3) STRATEGIC PLAN.—Not later than 1 year after the date of enactment of this Act, the Foundation shall submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Science, Space, and Technology of the House of Representatives a strategic plan that contains—

(A) a plan for the Foundation to become financially self-sustaining in fiscal year 2022 and thereafter (except for the amounts provided each fiscal year under subsection (1)(1)(C));

(B) a forecast of major crosscutting energy challenge opportunities, including short- and long-term objectives, identified by the Board, with input from communities representing the entities and areas, as applicable, described in subsection (b)(2)(B)(ii);

(C) a description of the efforts that the Foundation will take to be transparent in the processes of the Foundation, including processes relating to—

(i) grant awards, including selection, review, and notification;

(ii) communication of past, current, and future research priorities; and

(iii) solicitation of and response to public input on the opportunities identified under subparagraph (B); and

(D) a description of the financial goals and benchmarks of the Foundation for the following 10 years.

(4) ANNUAL REPORT.—Not later than 1 year after the date on which the Foundation is established, and every 2 years thereafter, the Foundation shall submit to the Committee on Energy and Natural Resources of the Senate, the Committee on Science, Space, and Technology of the House of Representatives, and the Secretary a report that, for the year covered by the report—

(A) describes the activities of the Foundation and the progress of the Foundation in furthering the purpose of the Foundation described in subsection (c);

(B) provides a specific accounting of the source and use of all funds made available to the Foundation to carry out those activities;

(C) describes how the results of the activities of the Foundation could be incorporated into the procurement processes of the General Services Administration; and

(D) includes a summary of each evaluation conducted using the evaluation methodology described in subsection (d)(9).

(5) EVALUATION BY COMPTROLLER GENERAL.—Not later than 5 years after the date on which the Foundation is established, the Comptroller General of the United States shall submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Science, Space, and Technology of the House of Representatives—

(A) an evaluation of—

(i) the extent to which the Foundation is achieving the mission of the Foundation; and

(ii) the operation of the Foundation; and

(B) any recommendations on how the Foundation may be improved.

(6) AUDITS.—The Foundation shall—

(A) provide for annual audits of the financial condition of the Foundation; and

(B) make the audits, and all other records, documents, and papers of the Foundation, available to the Secretary and the Comptroller General of the United States for examination or audit.

(7) SEPARATE FUND ACCOUNTS.—The Board shall ensure that any funds received under subsection (1)(1) are held in a separate account from any other funds received by the Foundation.

(8) INTEGRITY.—

(A) IN GENERAL.—To ensure integrity in the operations of the Foundation, the Board shall develop and enforce procedures relating to standards of conduct, financial disclosure statements, conflicts of interest (including recusal and waiver rules), audits, and any other matters determined appropriate by the Board.

(B) FINANCIAL CONFLICTS OF INTEREST.—Any individual who is an officer, employee, or member of the Board is prohibited from any participation in deliberations by the Foundation of a matter that would directly or predictably affect any financial interest of—

(i) the individual;

(ii) a relative (as defined in section 109 of the Ethics in Government Act of 1978 (5 U.S.C. App.)) of that individual; or

(iii) a business organization or other entity in which the individual has an interest, including an organization or other entity with which the individual is negotiating employment.

(9) INTELLECTUAL PROPERTY.—The Board shall adopt written standards to govern the ownership and licensing of any intellectual

property rights developed by the Foundation or derived from the collaborative efforts of the Foundation.

(10) LIABILITY.—The United States shall not be liable for any debts, defaults, acts, or omissions of the Foundation nor shall the full faith and credit of the United States extend to any obligations of the Foundation.

(11) NONAPPLICABILITY OF FACAA.—The Federal Advisory Committee Act (5 U.S.C. App.) shall not apply to the Foundation.

(f) DEPARTMENT COLLABORATION.—

(1) NATIONAL LABORATORIES.—The Secretary shall collaborate with the Foundation to develop a process to ensure collaboration and coordination between the Department, the Foundation, and National Laboratories—

(A) to streamline contracting processes between National Laboratories and the Foundation, including by—

(i) streamlining the ability of the Foundation to transfer equipment and funds to National Laboratories;

(ii) standardizing contract mechanisms to be used by the Foundation; and

(iii) streamlining the ability of the Foundation to fund endowed positions at National Laboratories;

(B) to allow a National Laboratory or site of a National Laboratory—

(i) to accept and perform work for the Foundation, consistent with provided resources, notwithstanding any other provision of law governing the administration, mission, use, or operations of the National Laboratory or site, as applicable; and

(ii) to perform that work on a basis equal to other missions at the National Laboratory; and

(C) to permit the director of any National Laboratory or site of a National Laboratory to enter into a cooperative research and development agreement or negotiate a licensing agreement with the Foundation pursuant to section 12 of the Stevenson-Wylder Technology Innovation Act of 1980 (15 U.S.C. 3710a).

(2) DEPARTMENT LIAISONS.—The Secretary shall appoint liaisons from across the Department to collaborate and coordinate with the Foundation.

(3) ADMINISTRATION.—The Secretary shall leverage appropriate arrangements, contracts, and directives to carry out the process developed under paragraph (1).

(g) NATIONAL SECURITY.—Nothing in this section exempts the Foundation from any national security policy of the Department.

(h) SUPPORT SERVICES.—The Secretary shall provide facilities, utilities, and support services to the Foundation if it is determined by the Secretary to be advantageous to the research programs of the Department.

(i) PREEMPTION OF AUTHORITY.—This section shall not preempt any authority or responsibility of the Secretary under any other provision of law.

(j) AUTHORIZATION OF APPROPRIATIONS.—

(1) IN GENERAL.—There are authorized to be appropriated—

(A) to the Secretary, not less than \$1,500,000 for fiscal year 2021 to establish the Foundation;

(B) to the Foundation, not less than \$30,000,000 for fiscal year 2021 to carry out the activities of the Foundation; and

(C) to the Foundation, not less than \$3,000,000 for fiscal year 2022, and each fiscal year thereafter, for administrative and operational costs.

(2) COST SHARE.—Funds made available under paragraph (1)(B) shall be required to be cost-shared by a partner of the Foundation other than the Department.

The SPEAKER pro tempore. Pursuant to House Resolution 1129, the gentlewoman from Michigan (Ms. STEVENS) and the gentleman from Oklahoma (Mr. LUCAS) each will control 10 minutes.

The Chair recognizes the gentlewoman from Michigan.

Ms. STEVENS. Mr. Speaker, I yield myself 1 minute.

I rise today to urge my colleagues to support my amendment to increase vehicle technology R&D as we consider this significant investment in a clean energy future for battery technology, cybersecurity, the connected car, our sustainability future, and countless jobs.

Michigan has been a global leader in vehicle technology since we created the industry over a century ago. Our autoworkers are the best in the world. Our manufacturers are the best in the world. But we need to make sure that we continue to have a level playing field to compete.

The U.S. must continue to lead by making the investments just as other nations are doing. Now is not the time to cede our leadership. Now is the time to claim it.

Advances in electrification and connectivity will make vehicles safer, more efficient, and more affordable for consumers and their families. We owe it to our American workers to make sure that this next generation of vehicles is made right here in the United States of America.

Mr. Speaker, I reserve the balance of my time.

Mr. LUCAS. Mr. Speaker, I yield myself such time as I may consume.

I rise in opposition to this bloc of amendments and to express my profound disappointment with this process.

As I said yesterday, climate change is a generational challenge, one where our work today will have an impact for decades to come. I believe our work on something of this importance deserves thoughtful consideration, careful analysis, and substantial debate. After all, what is at stake here is no small matter.

The policy decisions we make on this issue will not only impact our greenhouse gas emissions; they will also have a direct effect on what Americans pay to cool and heat their homes. They will determine whether we hamstring our energy sectors or give them a global advantage.

Congress has an established process to make smart policy decisions on important issues like this. We consider issues in hearings, debate and vote in committees, and then bring legislation to the House floor.

That is not what happened here. Instead of following regular order on individual policy proposals, we were given 1 week to review 900 pages of legislation.

In an effort to have a voice in this process, Members offered 176 amendments to this bill. Only 99 were made in order.

And now, Mr. Speaker, we don't even have the chance to debate and vote on those amendments individually. Instead, we are expected to vote to pass or reject 26 amendments en bloc right now. With only one exception, this is how we will vote on all 99 amendments made in order.

That is a problem because it forces us either to vote in favor of policies we don't support or to vote against the ones we do. That is where I find myself right now.

Not surprisingly, I strongly support my own amendment in this bloc. It expresses the sense of Congress that in order to reduce emissions, the Secretary of Energy must prioritize funding for fundamental research infrastructure and for basic research and development activities carried out through the Office of Science.

Office of Science programs have long served as the cornerstone of U.S. energy innovation. Our clean energy future will be built on next-generation technology areas like grid-scale energy storage, advanced grid security, and integrated carbon management strategies. These technologies are dependent on Federal support for basic research programs and infrastructure.

The Office of Science at DOE is behind some of the most groundbreaking scientific discoveries and technology developments in recent history. Without the innovation that has come from DOE basic research, we wouldn't have successfully reduced emissions through clean, affordable natural gas.

That is why a clean energy legislative package that fails to include comprehensive Office of Science provisions is not a serious proposal even if it is 900 pages long.

I would urge my colleagues to remember that Americans need affordable and reliable energy, and that has to be a central goal in our policy to address climate change.

We can reduce emissions, keep energy prices competitive, and ensure that the U.S. remains a world leader in science and energy technology by committing to prioritize basic research and critical infrastructure supported by the Office of Science.

I believe my amendment would improve H.R. 4447 by establishing that Congress is fundamentally committed to research and development of breakthrough clean energy technologies. Unfortunately, I can't support my amendment because it has been lumped in with so many others that actually worsen the underlying legislation by increasing our support of well-funded applied research programs that are duplicating the work that private industry can and should be doing on its own.

But that is what happens when you force through a massive, partisan messaging bill instead of allowing for individual policy consideration. This shows a lack of good faith from the House Democrats and is no way to pass legislation for the public good.

I urge my colleagues to oppose this bloc, and I reserve the balance of my time.

Ms. STEVENS. Mr. Speaker, surely, when we pass this legislation, we will be sending a host of new directives over to the Secretary of Energy to continue to win and advance our future.

Mr. Speaker, I yield 2 minutes to the gentleman from Pennsylvania (Mr. LAMB).

Mr. LAMB. Mr. Speaker, if I would have come before this House in 2005 and said to my colleagues, "I have a policy proposal. It will create hundreds of thousands of jobs in parts of the country that have lost them. It will help free us from wars in the Middle East. It will save middle-class families hundreds if not thousands of dollars a year on their energy bills. And the best part is, it will allow us to reduce carbon emissions for the first time in the history of the United States," that would sound like a Democratic policy—more jobs, less war, lower bills, less carbon.

That policy was the shale revolution, and it was, in truth, a partnership between government research and entrepreneurs in Pennsylvania and Texas and other places that figured out new techniques to get natural gas out of the ground.

Some have opposed the continuation of natural gas drilling simply because it is a fossil fuel, and I ask them: Who gets credit for the reduced carbon emissions over the last 15 years? Natural gas has made a bigger difference than anything. But we still have a duty to continue trying to improve that process.

A lot of people don't realize that the National Energy Technology Laboratory, NETL, that exists in western Pennsylvania, has never given up on trying to clean up these processes. They have made great gains, particularly in the area of produced water and taking the water that is used to get the gas out of the ground and removing the contaminants so that the water can be recycled and used over and over again. We have already seen that in the short life of shale drilling in western Pennsylvania. The NETL has improved recycling of water immensely.

My amendment would give additional money to the Secretary of Energy to double down on this research and, most importantly, establish a demonstration project for the first time ever to better recycle and dispose of this water right onsite, eliminating the loud and noisy trucks that drive through people's neighborhoods and the risk of contaminating our water table.

This has been a tremendous technology for western Pennsylvania and the United States, and we can continue making it better.

Mr. LUCAS. Mr. Speaker, I yield 3 minutes to the gentleman from Louisiana (Mr. GRAVES).

Mr. GRAVES of Louisiana. Mr. Speaker, I thank the gentleman from Oklahoma for yielding.

Mr. Speaker, let's look at this process. Here we have a bill that was a bipartisan bill, H.R. 4447, that passed out

of the committee on a bipartisan vote, and it was eight pages. It was eight pages.

Today, this bill is nearly 900 pages. Miraculously, from committee to the floor, it just exploded and became nearly 900 pages of text. This bill is now scored to cost the American taxpayers \$135 billion.

This is an issue that we agree that we need to be discussing. We need to be discussing America's energy future. We need to be discussing the fact that Saudi Arabia, Russia, China, and other countries are trying to decimate the American energy industry. They are trying to force our dependence upon them.

Unfortunately, while there are some good components of this bill, much of it plays into the hands of those very countries by forcing the use or pushing the use of technologies by manipulating markets, by distorting costs, that forces us to play into the hands of those countries and become subject or dependent upon them for different resources.

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Mr. Speaker, the United States, as I have heard people talk about emissions, we are the leader in the world in terms of reducing emissions. The United States has reduced emissions more than every other country.

People talk about emissions reduction. Under President Obama, there was the Clean Power Plan. We have actually hit the Clean Power Plan target established by President Obama, but we have done it 10 years early.

We haven't done it by distorting markets. We haven't done it by forcing the use of technologies. We have done it by letting the market do what it does, by letting innovators innovate, like they do.

So to my friends on the other side of the aisle, I will say it again: We absolutely would love to engage with you on America's energy future, on how we ensure the use of clean energy technologies moving forward, but also on building upon the success of the United States and how we are the global leader in reducing emissions.

We don't have to have a Democrat bill. We have got all these amendments. They have been thrown together en bloc, where maybe we have a great amendment, but it is paired together with nine others that are awful. This distorts the process, and it really makes us unable to even represent our constituents at home.

So I want to urge: Let's sit down and engage in this bill in a bipartisan way. Let's not take a bill that was 8 pages and add over 800 pages to it in the dark of night. Let's have a transparent process. Let's let us vote on amendments that make sense, that ensure America's energy future is based upon our resources, not those of Russia, not those of China, as this bill does.

This is a fatally flawed process. It is not in the interests of America. It is

not in the interests of our children's and our grandchildren's future, and it ignores the fact that America is the leading reducer in emissions.

Ms. STEVENS. Mr. Speaker, I remain somewhat baffled and surprised by the remarks of my colleague, particularly as, just in the last decade, China has spent nearly \$60 billion to create a thriving electric vehicle industry, and that is, in part, what we are committing to do here today.

Mr. Speaker, I yield 2 minutes to the gentleman from New Mexico (Mr. LUJÁN).

Mr. LUJÁN. Mr. Speaker, I include in the RECORD the CBO score on this legislation.

CBO'S ESTIMATE OF THE STATUTORY PAY-AS-YOU-GO EFFECTS OF RULES COMMITTEE PRINT 116-63, H.R. 4447, THE CLEAN ECONOMY JOBS AND INNOVATION ACT, INCLUDING MANAGER'S AMENDMENT (PALLONE 170), AS REPORTED BY THE COMMITTEE ON RULES ON SEPTEMBER 21, 2020

The Statutory Pay-As-You-Go Act of 2010 establishes budget-reporting and enforcement procedures for legislation affecting direct spending or revenues. The net changes in outlays and revenues that are subject to those procedures are shown here.

H.R. 4447 would modify existing laws and policies governing the energy sector. CBO estimates that the provisions noted below would have an insignificant effect on net direct spending, revenues, and the deficit over the 2020–2030 period.

Subtitle C of Title I would require federal agencies and data centers to implement strategies to acquire, use, and maintain information technologies expected to increase energy efficiency. Those provisions could affect direct spending if agencies procure energy-efficient technologies using longterm contracts known as energy savings performance contracts.

Subtitle F of Title II would allow operators with certain federal leases to noncompetitively acquire the rights to coproduce geothermal resources under that lease and to noncompetitively lease land adjoining that lease. CBO expects that few leases would be affected by this provision.

Subtitle C of Title IV would reduce revenues by extending quotas for imports of uranium from Russia until 2040, which under current law are set to expire in 2020.

Title XI would allow aggrieved persons to sue entities, such as local governments, for discrimination that occurs in the context of implementing environmental projects or regulations promulgated by federal agencies. CBO expects that provision would increase the number of suits filed in federal court. Those changes would increase both revenues (from court filing fees) and spending of those fees.

H.R. 4447 also would authorize the appropriation of more than \$125 billion over the 2021–2025 period for various programs related to clean energy. Any spending would be subject to the availability of appropriations for those programs.

H.R. 4447 contains intergovernmental and private-sector mandates as defined in the Unfunded Mandates Reform Act (UMRA). CBO estimates that the costs of mandates on private entities would exceed the private-sector threshold established in UMRA, and the costs of mandates on state, local, and tribal governments would fall below the threshold for intergovernmental mandates (those thresholds are \$168 million and \$84 million in 2020, respectively, adjusted annually for inflation).

Mr. LUJÁN. Mr. Speaker, I would also be happy to share this with my colleague and my friend from Louisiana. The CBO score on this is zero. So I will make sure I hand this over to him, as well, to take a look.

Mr. Speaker, at home in New Mexico, we are very proud of our national labs, three national labs, two at the Department of Energy. New Mexico has seen the value that the United States Department of Energy brings to the fight against COVID-19.

Through our national labs, the Department has provided support to the National Institutes of Health and other government agencies, leveraged its scientific resources, but did a lot of work to improve the epidemiological models and much more.

The Department of Energy has another important role to play by helping to restart America's innovation economy, creating jobs, and moving us toward economic recovery.

My amendment with Representatives WILSON, TORRES SMALL, and CASTEN, and based on the IMPACT for Energy Act, would help the Department achieve these goals by establishing the Department of Energy-affiliated non-profit foundation to raise private-sector funds and leverage expertise that supports the research, development, and commercial application of technologies that address our Nation's energy challenges and combat climate change.

This model works. The National Institutes of Health, CDC, and USDA foundations have already demonstrated that they can raise billions of private-sector dollars to support research and innovation. And innovation, in turn, drives economic growth.

To enhance these efforts as part of the clean energy economy, we have the Clean Economy Jobs and Innovation Act.

We will also be advancing my legislation to improve innovators' access to national lab facilities and to develop the next generation of tech leaders through partnership between national labs and institutions of higher education.

Mr. Speaker, I urge my colleagues to support this en bloc amendment and the underlying bill.

Mr. LUCAS. Mr. Speaker, I reserve the balance of my time.

Ms. STEVENS. Mr. Speaker, I yield 1 minute to the gentleman from Texas (Mr. DOGGETT).

Mr. DOGGETT. Mr. Speaker, even during these challenging times, most Americans recognize that when they get home, they find a habitable place and the lights come on with the flip of a switch. But preserving future American energy independence and energy efficiency is a greater challenge.

The climate crisis that we confront today is not just about endangered polar bears and Antarctic ice sheets that are melting and will submerge our coastal areas; it is here and now with our erratic weather, with our soaring

temperatures, and with blazing wildfires across the country. Energy-efficient technology shouldn't be the "alternative," it should be the regular standard.

Now, while my home State of Texas is the national leader in greenhouse gas pollution and in climate deniers, it is also the home to really significant growth in wind power, the leading State in the country, and a growing source of solar power.

Investments in clean energy protect taxpayer investments and promote public health and safety. These investments ensure America is leading on the road to clean energy, not being run over by it.

The SPEAKER pro tempore. The time of the gentleman has expired.

Ms. STEVENS. Mr. Speaker, I yield an additional 1 minute to the gentleman.

Mr. DOGGETT. Mr. Speaker, as Congress considers new investments in research and development, let's direct our efforts where we can achieve the greatest savings and the greatest efficiency.

While carbon capture and storage, the process of capturing carbon dioxide formed in power generation and some industrial processes, has potential, many substantial questions remain about its cost-effectiveness compared to other low-emission technologies, particularly since hundreds of millions of dollars in current tax subsidies are directed, often improperly, to those promoting fossil fuels.

Accordingly, the amendment I have offered that is included in this en bloc amendment gets the facts for taxpayers by asking the National Academy of Sciences to evaluate the efficacy of carbon capture technology and evaluate industries regarding its potential.

Enough of the fossilized thinking about fossil fuels. Let's explore all available tools and technologies, while ensuring that taxpayer dollars are utilized to achieve maximum savings, because energy savings could mean the difference between the Earth's saving and its destruction.

Mr. Speaker, I urge adoption of the amendment.

Mr. LUCAS. Mr. Speaker, I would note to my colleague that I have no additional speakers, and I am prepared to close whenever she has concluded with her speakers.

Ms. STEVENS. Mr. Speaker, I have no additional speakers. I am prepared to close.

Mr. LUCAS. Mr. Speaker, I yield myself as much time as I may consume.

As the Chamber of Commerce noted in a letter to Congress, there is a growing consensus that the research, development, and commercialization of new technologies is an important factor that will determine how quickly and at what cost greenhouse gas emissions will be reduced. The Chamber has recently taken issue with this package because of the inclusion of a number of

provisions that diverge from its core focus area, threatening to undermine the otherwise favorable bill.

I am sorry to say it again, but too many provisions of this bill have undermined areas where we could have found bipartisan consensus. The same is true of the bloc of amendments. I, therefore, must urge my colleagues to oppose this bloc.

Mr. Speaker, I yield back the balance of my time.

Ms. STEVENS. Mr. Speaker, I yield myself as much time as I may consume.

Mr. Speaker, I recognize the bipartisan nature of the original bill that passed through the House Science, Space, and Technology Committee with the leadership of our great chairwoman, EDDIE BERNICE JOHNSON, and our ranking member, Mr. LUCAS.

I also recognize today that we are taking a vote for our future. We are taking a vote for our innovation agenda. We are talking about the research and development efforts of this Nation. We are talking about a clean economy.

Today, as we engaged in debate, we got a glimpse of where this vote might come down.

Mr. Speaker, let it be reminded to all that this House majority is the majority that is working for the people and their future and their jobs, for a clean economy. We are taking the necessary steps to get it done.

So, Mr. Speaker, I urge my colleagues on both sides of the aisle to remember and to be reminded about where it will come down today with this vote. I urge them to vote "yes." I urge them to vote for our future. I urge them to vote for our innovation capabilities from the United States of America.

Mr. Speaker, I yield back the balance of my time.

Mrs. TRAHAN. Mr. Speaker, I rise to offer my strong support for the amendment offered by the gentleman from Pennsylvania, Mr. LAMB.

The world desperately needs a new source of energy that has zero-carbon emissions. Such a technological breakthrough is absolutely vital to combating climate change and meeting our growing energy demands.

One such promising technology is fusion energy.

When commercialized, fusion will accelerate the transformation of America's energy system, providing the foundation for our zero-carbon energy economy of the future.

My colleague's amendment, which I'm pleased to co-sponsor, would provide the basis for the United States to maximize its resources, both public and private, to demonstrate and commercialize fusion energy.

His amendment would support public-private partnerships to make fusion energy a reality by building full-scale demonstration facilities—and creating new companies and more jobs here at home.

This is a race against time—not only to prevent the worst catastrophes that we're beginning to see due to climate change, but also ensuring adequate funds so that the United States is the global leader in fusion.

As Professor Dennis Whyte of MIT wrote last year in *The Washington Post*, "This is a critical moment for such funding decisions. Other governments are investing billions in fusion."

The pending amendment's milestone-based funding program will support the development of a U.S.-based fusion power industry by providing funds to stimulate R&D and eventual commercialization of this new energy source.

Each private sector participant will need to meet milestones agreed-upon in partnership with the Department of Energy in order to receive the public funds.

Federal assistance would be made only upon completion of agreed-upon milestones.

I urge support for the amendment as well as the underlying bill.

Mr. GARAMENDI. Mr. Speaker, I rise in support of my amendment to the "Clean Economy Jobs and Innovation Act", H.R. 4447.

I thank my colleague from California, Congressman LOWENTHAL—the chairman of the Natural Resources Subcommittee on Energy and Mineral Resources—for his support as the amendment's cosponsor.

I also want to commend Congressman PALLONE—the chairman of the Energy and Commerce Committee—for his leadership with the omnibus clean energy bill before the House today.

The Outer Continental Shelf Lands Act subjects offshore mineral or energy development to U.S. jurisdiction, including the Constitution and applicable federal laws.

Specifically, this 1953 law applies the civil and political jurisdiction of the United States to installations on the Outer Continental Shelf in the United States' Exclusive Economic Zone (EEZ) at sea.

Under the Outer Continental Shelf Lands Act, the U.S. Department of the Interior—acting through the Bureau of Ocean Energy Management—conducts lease sales for offshore development of mineral and energy resources, including wind lease sales.

The Energy Policy Act of 2005 established the Secretary of the Interior's exclusive offshore wind leasing and permitting authority under the Outer Continental Shelf Lands Act.

Our amendment simply clarifies that lease sales for energy development on the Outer Continental Shelf from non-minerals—sources other than oil and natural gas such as wind, hydrokinetic, or ocean thermal energy conversion—are indeed subject to U.S. jurisdiction, including federal laws affording labor and environmental protections.

Congress clearly intended U.S. law to apply to any form of exploration, development, production, transportation, and transmission of energy resources under the Outer Continental Shelf Lands Act.

Again, all our amendment does is clarify that all forms of offshore energy development are indeed subject to the same U.S. laws that currently apply to the offshore oil and gas industry.

In the 112th Congress, the House of Representatives passed our amendment language, nearly verbatim, by voice vote as the "POWER Act" (H.R. 2360).

According to an April 2018 study by the Lawrence Berkeley National Laboratory, offshore wind along the Eastern Seaboard of the United States has the potential to eclipse all current land-based wind development.

Demand for offshore wind projects in federal waters is strong, as the Bureau of Ocean Energy Management sets record lease sales in



the Atlantic, to the benefit of American taxpayers.

In short order, we may see similar demand for federal lease sales for offshore wind elsewhere in the country, including off the West Coast or the U.S. territories.

Offshore wind development will play a central part in our nation's transition to a clean energy economy powered by renewables.

As we welcome this burgeoning industry, Congress must act decisively to clarify that any offshore wind development on the Outer Continental Shelf—including exploration, production, transportation, and transmission—is indeed subject to the same federal laws that already apply to offshore oil and gas development or underwater mining.

This is the clear and obvious intent of Congress, and my amendment simply updates the underlying federal law to reflect this reality.

As the former Deputy Secretary of the Interior during the Clinton Administration, I am a long-time proponent of all forms of renewable energy to help meet the global challenge of man-made climate change, including offshore wind development.

I urge my colleagues to support this critical amendment, simply updating the Outer Continental Shelf Lands Act to reflect clear Congressional intent and provide legal certainty for offshore wind projects to proceed in accordance with federal law.

Lastly, adopting our amendment to the "Clean Economy Jobs and Innovation Act" (H.R. 4447) will set the House on strong footing for any Energy Bill conference next Congress, with the Murkowski-Manchin bill expected to be passed by the Senate.

I hope this amendment will pass by voice vote as it did on December 7, 2011, during the 112th Congress.

Mr. SCOTT of Virginia. Mr. Speaker, I rise today in support of two amendments to H.R. 4447, the Clean Energy Jobs and Innovation Act. I am honored to represent Virginia's 3rd Congressional District, which is on the front lines of sea-level rise. Recognizing the urgent action needed to mitigate the worst of the climate crisis, I am pleased that this bill includes support for climate-informed building codes to improve energy efficiency as well as resilience, issues on which Norfolk, Virginia is leading the way. My district is also home to the Port of Virginia and other facilities—as well as workers—that played a critical role in installing the first offshore wind turbines in federal waters this summer. On and offshore, wind energy presents an incredible opportunity to generate clean, renewable energy, and to create good, green, family-sustaining jobs in Hampton Roads and across the country.

I was pleased to submit an amendment encouraging the use of modeling and simulation technologies in wind energy, along with Representative STEPHANIE MURPHY. As co-chairs of the Congressional Modeling and Simulation Caucus, we submitted this amendment to support the development and deployment of modeling and simulation tools to aid in rapidly transitioning our economy away from fossil fuels. Modeling and simulation have been very thoughtfully incorporated into many aspects of this bill—ensuring technologies are effectively deployed, risks to our electric grid are understood, and community resilience is enhanced. Modeling and simulation technologies also have incredible potential to contribute to every step of wind energy generation: the design

and siting of turbines, wind power forecasting, construction of turbines, and even projecting the need for turbine maintenance and repair. I urge my colleagues to support this amendment to increase our understanding of each of these areas.

I also rise in support of my amendment which would support research into rethinking, reducing, and reusing critical materials in wind energy. The widespread deployment of current wind energy technology requires aluminum and rare-earth elements. The increasing demand for these elements and issues within their supply chains is a concern for all of us concerned about the environment, human rights, and our clean energy future to action. For years, the Department of Energy has acknowledged that "supply challenges" for certain rare earth metals could negatively affect clean energy technology development. The United States is currently largely dependent on other nations, especially China, for rare earth minerals. These minerals may not be quite as finite as their name implies; however, they are generally difficult to mine and require extensive processing. In some places, the industry lacks protections for workers and the environment, jeopardizing communities' drinking water and soil. We can alleviate these concerns by investing in research to rethink turbine design, reduce the use of such materials, and reuse products which are no longer needed.

Wind energy prices have fallen significantly in the past decade. The leveled cost, which does not account for federal tax credits, decreased from about \$90 per megawatt-hour to \$30 per megawatt-hour last year. This is an exciting and encouraging trend for consumers, our climate, and communities, like Hampton Roads, that are both threatened by climate change and poised to create good green wind energy jobs. This amendment would facilitate research on the reuse of such materials and the design of turbines that require less of these materials, ensuring that this trend towards more affordable wind energy continues. In addition to creating jobs here in the United States, supporting the future of wind energy ensures that Americans will have increasing access to energy that is clean, renewable, reliable, and affordable.

I urge my colleagues to support these amendments.

The SPEAKER pro tempore. Pursuant to House Resolution 1129, the previous question is ordered on the amendments en bloc offered by the gentlewoman from Michigan (Ms. STEVENS).

The question is on the amendments en bloc.

The question was taken; and the Speaker pro tempore announced that the ayes appeared to have it.

Ms. STEVENS. Mr. Speaker, on that I demand the yeas and nays.

The SPEAKER pro tempore. Pursuant to section 3 of House Resolution 965, the yeas and nays are ordered.

Pursuant to clause 8 of rule XX, further proceedings on this question are postponed.

AMENDMENTS EN BLOC NO. 2 OFFERED BY MS. DEGETTE OF COLORADO

Ms. DEGETTE. Mr. Speaker, I have amendments en bloc at the desk.

The SPEAKER pro tempore. The Clerk will designate the amendments en bloc.

Amendments en bloc No. 2 consisting of amendment Nos. 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 16, 17, 19, 20, 21, 22, 25, 27, 31, 35, 36, 37, 38, 43, 44, 45, 48, 52, 55, 56, 58, 59, 60, 61, 65, 66, 67, 70, 71, 73, 74, 75, 83, 84, 85, 86, 87, 88, 89, 90, 93, 95, 96, and 97, printed in part B of House Report 116-528, offered by Ms. DEGETTE of Colorado:

AMENDMENT NO. 2 OFFERED BY MS. BARRAGAN OF CALIFORNIA

At the end of title III, add the following:

**Subtitle D—Climate Smart Ports**

**SEC. 3401. CLIMATE SMART PORTS GRANT PROGRAM.**

(a) ESTABLISHMENT.—Not later than 6 months after the date of enactment of this section, the Administrator shall establish a program to award grants to eligible entities to purchase, and as applicable install, zero emissions port equipment and technology.

(b) USE OF GRANTS.—

(1) IN GENERAL.—An eligible entity may use a grant awarded under this section to purchase, and as applicable install, zero emissions port equipment and technology.

(2) PROHIBITED USE.—

(A) IN GENERAL.—An eligible entity may not use a grant awarded under this section to purchase or install fully automated cargo handling equipment or terminal infrastructure that is designed for fully automated cargo handling equipment.

(B) HUMAN-OPERATED ZERO EMISSIONS PORT EQUIPMENT AND TECHNOLOGY.—Nothing in subparagraph (A) prohibits an eligible entity from using a grant awarded under this section to purchase human-operated zero emissions port equipment and technology or infrastructure that supports such human-operated zero emissions port equipment and technology.

(3) COST SHARE.—

(A) IN GENERAL.—Except as provided in subparagraph (B), an eligible entity may not use a grant awarded under this section to cover more than 70 percent of the cost of purchasing, and as applicable installing, zero emissions port equipment and technology.

(B) CERTAIN GRANTS.—With respect to a grant in an amount equal to or greater than \$3,000,000, an eligible entity may use such grant to cover not more than 85 percent of the cost of purchasing and installing zero emissions port equipment and technology if such eligible entity certifies to the Administrator that—

(i) such grant will be used, at least in part, to employ laborers or mechanics to install zero emissions port equipment and technology; and

(ii) such eligible entity is a party to a project labor agreement or requires that each subgrantee of such eligible entity, and any subgrantee thereof at any tier, that performs such installation participate in a project labor agreement.

(4) PROJECT LABOR.—An eligible entity that uses a grant awarded under this section to install zero emissions port equipment and technology shall ensure, to the greatest extent practicable, that any subgrantee of such eligible entity, and any subgrantee thereof at any tier, that carries out such installation employs laborers or mechanics for such installation that—

(A) are domiciled not further than 50 miles from such installation;

(B) are members of the Armed Forces serving on active duty, separated from active duty, or retired from active duty;

(C) have been incarcerated or served time in a juvenile detention facility; or

(D) have a disability.

(c) WAGES.—

(1) IN GENERAL.—All laborers and mechanics employed by a subgrantee of an eligible entity, and any subgrantee thereof at any tier, to perform construction, alteration, installation, or repair work that is assisted, in whole or in part, by a grant awarded under this section shall be paid wages at rates not less than those prevailing on similar construction, alteration, installation, or repair work in the locality as determined by the Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40, United States Code.

(2) LABOR STANDARDS.—With respect to the labor standards in this subsection, the Secretary of Labor shall have the authority and functions set forth in Reorganization Plan Numbered 14 of 1950 (64 Stat. 1267; 5 U.S.C. App.) and section 3145 of title 40, United States Code.

(d) APPLICATION.—

(1) IN GENERAL.—To be eligible to be awarded a grant under this section, an eligible entity shall submit to the Administrator an application at such time, in such manner, and containing such information as the Administrator may require.

(2) PRIORITY.—The Administrator shall prioritize awarding grants under this section to eligible entities based on the following:

(A) The degree to which the proposed use of the grant will—

- (i) reduce greenhouse gas emissions;
- (ii) reduce emissions of any criteria pollutant and precursor thereof;
- (iii) reduce hazardous air pollutant emissions; and
- (iv) reduce public health disparities in communities that receive a disproportionate quantity of air pollution from a port.

(B) The amount of matching, non-Federal funds expected to be used by an applicant to purchase, and as applicable install, zero emissions port equipment and technology.

(C) Whether the applicant will use such grant to purchase, and as applicable install, zero emissions port equipment and technology that is produced in the United States.

(D) As applicable, whether the applicant will meet the utilization requirements for registered apprentices established by the Secretary of Labor or a State Apprenticeship Agency.

(E) As applicable, whether the applicant will recruit and retain skilled workers through a State-approved joint labor management apprenticeship program.

(e) OUTREACH.—

(1) IN GENERAL.—Not later than 90 days after funds are made available to carry out this section, the Administrator shall develop and carry out an educational outreach program to promote and explain the grant program established under subsection (a) to prospective grant recipients.

(2) PROGRAM COMPONENTS.—In carrying out the outreach program developed under paragraph (1), the Administrator shall—

(A) inform prospective grant recipients how to apply for a grant awarded under this section;

(B) describe to prospective grant recipients the benefits of available zero emissions port equipment and technology;

(C) explain to prospective grant recipients the benefits of participating in the grant program established under this section; and

(D) facilitate the sharing of best practices and lessons learned between grant recipients and prospective grant recipients with respect to how to apply for and use grants awarded under this section.

(f) REPORTS.—

(1) REPORT TO ADMINISTRATOR.—Not later than 90 days after the date on which an eligible entity uses a grant awarded under this

section, such eligible entity shall submit to the Administrator a report containing such information as the Administrator shall require.

(2) ANNUAL REPORT TO CONGRESS.—Not later than January 31, 2021, and annually thereafter, the Administrator shall submit to Congress and make available on the website of the Environmental Protection Agency a report that includes, with respect to each grant awarded under this section during the preceding calendar year—

(A) the name and location of the eligible entity that was awarded such grant;

(B) the amount of such grant that the eligible entity was awarded;

(C) the name and location of the port where the zero emissions port equipment and technology that was purchased, and as applicable installed, with such grant is used;

(D) an estimate of the impact of such zero emissions port equipment and technology on reducing—

- (i) greenhouse gas emissions;
- (ii) emissions of criteria pollutants and precursors thereof;
- (iii) hazardous air pollutant emissions; and
- (iv) public health disparities; and
- (E) any other information the Administrator determines necessary to understand the impact of grants awarded under this section.

(g) AUTHORIZATION OF APPROPRIATIONS.—

(1) IN GENERAL.—There is authorized to be appropriated to carry out this section \$1,000,000,000 for each of fiscal years 2021 through 2030.

(2) NONATTAINMENT AREAS.—To the extent practicable, at least 25 percent of amounts made available to carry out this section in each fiscal year shall be used to award grants to eligible entities to provide zero emissions port equipment and technology to ports that are in nonattainment areas.

(h) DEFINITIONS.—In this section:

(1) ACTIVE DUTY.—The term “active duty” has the meaning given such term in section 101 of title 10, United States Code.

(2) ADMINISTRATOR.—The term “Administrator” means the Administrator of the Environmental Protection Agency.

(3) ALTERNATIVE EMISSIONS CONTROL TECHNOLOGY.—The term “alternative emissions control technology” means a technology, technique, or measure that—

(A) captures the emissions of nitrogen oxide, particulate matter, reactive organic compounds, and greenhouse gases from the auxiliary engine and auxiliary boiler of an ocean-going vessel at berth;

(B) is verified or approved by a State or Federal air quality regulatory agency;

(C) the use of which achieves at least the equivalent reduction of emissions as the use of shore power for an ocean-going vessel at berth;

(D) the use of which results in reducing emissions of the auxiliary engine of an ocean-going vessel at berth to a rate of less than—

- (i) 2.8 g/kW-hr for nitrogen oxide;
- (ii) 0.03 g/kW-hr for particulate matter 2.5; and
- (iii) 0.1 g/kW-hr for reactive organic compounds; and

(E) reduces the emissions of the auxiliary engine and boiler of an ocean-going vessel at berth by at least 80 percent of the default emissions rate, which is 13.8 g.

(4) CRITERIA POLLUTANT.—The term “criteria pollutant” means each of the following:

- (A) Ground-level ozone.
- (B) Particulate matter.
- (C) Carbon monoxide.
- (D) Lead.
- (E) Sulfur dioxide.
- (F) Nitrogen dioxide.

(5) DISTRIBUTED ENERGY RESOURCE.—

(A) IN GENERAL.—The term “distributed energy resource” means an energy resource that—

- (i) is located on or near a customer site;
- (ii) is operated on the customer side of the electric meter; and
- (iii) is interconnected with the electric grid.

(B) INCLUSIONS.—The term “distributed energy resource” includes—

- (i) clean electric generation;
- (ii) customer electric efficiency measures;
- (iii) electric demand flexibility; and
- (iv) energy storage.

(6) ELIGIBLE ENTITY.—The term “eligible entity” means—

- (A) a port authority;
- (B) a State, regional, local, or Tribal agency that has jurisdiction over a port authority or a port;
- (C) an air pollution control district or air quality management district; or

(D) a private or nonprofit entity, applying for a grant awarded under this section in collaboration with another entity described in subparagraphs (A) through (C), that owns or uses cargo or transportation equipment at a port.

(7) ENERGY STORAGE SYSTEM.—The term “energy storage system” means a system, equipment, facility, or technology that—

(A) is capable of absorbing energy, storing energy for a period of time, and dispatching the stored energy; and

(B) uses a mechanical, electrical, chemical, electrochemical, or thermal process to store energy that—

- (i) was generated at an earlier time for use at a later time; or
- (ii) was generated from a mechanical process, and would otherwise be wasted, for delivery at a later time.

(8) FULLY AUTOMATED CARGO HANDLING EQUIPMENT.—The term “fully automated cargo handling equipment” means cargo handling equipment that—

(A) is remotely operated or remotely monitored; and

(B) with respect to the use of such equipment, does not require the exercise of human intervention or control.

(9) NONATTAINMENT AREA.—The term “nonattainment area” has the meaning given such term in section 171 of the Clean Air Act (42 U.S.C. 7501).

(10) PORT.—The term “port” includes a maritime port and an inland port.

(11) PORT AUTHORITY.—The term “port authority” means a governmental or quasi-governmental authority formed by a legislative body to operate a port.

(12) PROJECT LABOR AGREEMENT.—The term “project labor agreement” means a pre-hire collective bargaining agreement with one or more labor organization that establishes the terms and conditions of employment for a specific construction project and is described in section 8(f) of the National Labor Relations Act (29 U.S.C. 158(f)).

(13) REGISTERED APPRENTICE.—The term “registered apprentice” means a person who is participating in a registered apprenticeship program.

(14) REGISTERED APPRENTICESHIP PROGRAM.—The term “registered apprenticeship program” means a program registered pursuant to the Act of August 16, 1937 (commonly known as the “National Apprenticeship Act”; 50 Stat. 664, chapter 663; 29 U.S.C. 50 et seq.).

(15) SHORE POWER.—The term “shore power” means the provision of shoreside electrical power to a ship at berth that has shut down main and auxiliary engines.

(16) STATE APPRENTICESHIP AGENCY.—The term “State Apprenticeship Agency” has the meaning given such term in section 29.2 of

title 29, Code of Federal Regulations (as in effect on January 1, 2020).

(17) ZERO EMISSIONS PORT EQUIPMENT AND TECHNOLOGY.—

(A) IN GENERAL.—The term “zero emissions port equipment and technology” means equipment and technology, including the equipment and technology described in subparagraph (B), that—

(i) is used at a port; and  
(ii) (I) produces zero exhaust emissions of—  
(aa) any criteria pollutant and precursor thereof; and

(bb) any greenhouse gas, other than water vapor; or

(II) captures 100 percent of the exhaust emissions produced by an ocean-going vessel at berth.

(B) EQUIPMENT AND TECHNOLOGY DESCRIBED.—The equipment and technology described in this subparagraph is the following:

(i) Any equipment that handles cargo.  
(ii) A drayage truck that transports cargo.  
(iii) A train that transports cargo.  
(iv) Port harbor craft.  
(v) A distributed energy resource.  
(vi) An energy storage system.  
(vii) Electrical charging infrastructure.  
(viii) Shore power or an alternative emissions control technology.  
(ix) An electric transport refrigeration unit.

AMENDMENT NO. 3 OFFERED BY MS. BARRAGÁN OF CALIFORNIA

Page 784, line 22, strike “\$10,000,000” and insert “\$50,000,000”.

AMENDMENT NO. 4 OFFERED BY MS. BARRAGÁN OF CALIFORNIA

Page 131, line 12, strike “\$310,000,000” and insert “\$410,000,000”.

Page 131, line 13, strike “\$330,000,000” and insert “\$430,000,000”.

Page 131, line 14, strike “\$350,000,000” and insert “\$450,000,000”.

Page 131, line 15, strike “\$350,000,000” and insert “\$450,000,000”.

Page 131, line 16, strike “\$350,000,000” and insert “\$450,000,000”.

AMENDMENT NO. 5 OFFERED BY MS. BARRAGÁN OF CALIFORNIA

Page 745, after line 15, insert the following:

(29) CLIMATE JUSTICE.—The term “climate justice” means the fair treatment and meaningful involvement of all individuals, regardless of race, color, culture, national origin, educational level, or income, with respect to the development, implementation, and enforcement of policies and projects that address climate change, a recognition of the historical responsibilities for climate change, and a commitment that the people and communities least responsible for climate change, and most vulnerable to the impacts of climate change, do not suffer disproportionately as a result of historical injustice and disinvestment.

(30) NATURAL INFRASTRUCTURE.—The term “natural infrastructure” means infrastructure that uses, restores, or emulates natural ecological processes and—

(A) is created through the action of natural physical, geological, biological, and chemical processes over time;

(B) is created by human design, engineering, and construction to emulate or act in concert with natural processes; or

(C) involves the use of plants, soils, and other natural features, including through the creation, restoration, or preservation of vegetated areas using materials appropriate to the region to manage stormwater and runoff, to attenuate flooding and storm surges, and for other related purposes.

Page 812, after line 17, insert the following:

**SEC. 11017. CLIMATE JUSTICE GRANT PROGRAM.**

(a) ESTABLISHMENT.—The Administrator shall establish a program under which the

Administrator shall provide grants to eligible entities to assist the eligible entities in—

(1) building capacity to address issues relating to climate justice; and

(2) carrying out any activity described in subsection (d).

(b) ELIGIBILITY.—To be eligible to receive a grant under subsection (a), an eligible entity shall be a tribal government, local government, or nonprofit, community-based organization.

(c) APPLICATION.—To be eligible to receive a grant under subsection (a), an eligible entity shall submit to the Administrator an application at such time, in such manner, and containing such information as the Administrator may require, including—

(1) an outline describing the means by which the project proposed by the eligible entity will—

(A) with respect to climate justice issues at the local level, increase the understanding of the environmental justice community at which the eligible entity will conduct the project;

(B) improve the ability of the environmental justice community to address each issue described in subparagraph (A);

(C) facilitate collaboration and cooperation among various stakeholders (including members of the environmental justice community); and

(D) support the ability of the environmental justice community to proactively plan and implement climate justice initiatives,

(2) a proposed budget for each activity of the project that is the subject of the application;

(3) a list of proposed outcomes with respect to the proposed project;

(4) a description of the ways by which the eligible entity may leverage the funds of the eligible entity, or the funds made available through a grant under this subsection, to develop a project that is capable of being sustained beyond the period of the grant; and

(5) a description of the ways by which the eligible entity is linked to, and representative of, the environmental justice community at which the eligible entity will conduct the project.

(d) USE OF FUNDS.—An eligible entity may only use a grant under this subsection to carry out culturally and linguistically appropriate projects and activities that are driven by the needs, opportunities, and priorities of the environmental justice community at which the eligible entity proposes to conduct the project or activity to address climate justice concerns of the environmental justice community, including activities—

(1) to create or develop collaborative partnerships;

(2) to educate and provide outreach services to the environmental justice community on climate justice;

(3) to identify and implement projects to address climate justice concerns, including community solar and wind energy projects, energy efficiency, home and building electrification, home and building weatherization, energy storage, solar and wind energy supported microgrids, battery electric vehicles, electric vehicle charging infrastructure, natural infrastructure, and climate resilient infrastructure.

(e) LIMITATIONS ON AMOUNT.—The amount of a grant under this section may not exceed \$2,000,000 for any grant recipient.

(f) REPORT.—

(1) IN GENERAL.—Not later than 1 year after the date of enactment of this Act, and annually thereafter, the Administrator shall submit to the Committees on Energy and Commerce and Natural Resources of the House of Representatives and the Committees on En-

vironment and Public Works and Energy and Natural Resources of the Senate a report describing the ways by which the grant program under this subsection has helped eligible entities address issues relating to energy and climate justice.

(2) PUBLIC AVAILABILITY.—The Administrator shall make each report required under paragraph (1) available to the public (including by posting a copy of the report on the website of the Environmental Protection Agency).

(g) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this subsection \$1,000,000,000 for each of fiscal years 2021 through 2025. The Administrator may not use more than 2 percent of the amount appropriated for each fiscal year for administrative expenses, including outreach and technical assistance to eligible entities.

AMENDMENT NO. 6 OFFERED BY MS. BARRAGÁN OF CALIFORNIA

Page 222, line 14, strike “\$200,000,000” and insert “\$250,000,000”.

AMENDMENT NO. 7 OFFERED BY MS. BLUNT ROCHESTER OF DELAWARE

Add at the end of title XII the following:

**Subtitle G—Open Back Better  
SEC. 12701. FACILITIES ENERGY RESILIENCY.**

(a) DEFINITIONS.—In this section:

(1) COVERED PROJECT.—The term “covered project” means a building project at an eligible facility that—

(A) increases—  
(i) resiliency, including—  
(I) public health and safety;  
(II) power outages;  
(III) natural disasters;  
(IV) indoor air quality; and  
(V) any modifications necessitated by the COVID-19 pandemic;  
(ii) energy efficiency; and  
(iii) renewable energy; and  
(iv) grid integration; and  
(B) may have combined heat and power and energy storage as project components.

(2) EARLY CHILDHOOD EDUCATION PROGRAM.—The term “early childhood education program” has the meaning given the term in section 103 of the Higher Education Act of 1965 (20 U.S.C. 1003).

(3) ELEMENTARY SCHOOL.—The term “elementary school” has the meaning given the term in section 8101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 7801).

(4) ELIGIBLE FACILITY.—The term “eligible facility” means a public facility, as determined by the Secretary, including—

(A) a public school, including an elementary school and a secondary school;  
(B) a facility used to operate an early childhood education program;  
(C) a local educational agency;  
(D) a medical facility;  
(E) a local or State government building;  
(F) a community facility;  
(G) a public safety facility;  
(H) a day care center;  
(I) an institution of higher education;  
(J) a public library; and  
(K) a wastewater treatment facility.

(5) ENVIRONMENTAL JUSTICE COMMUNITY.—The term “environmental justice community” means a community with significant representation of communities of color, low income communities, or Tribal and indigenous communities, that experiences, or is at risk of experiencing, higher or more adverse human health or environmental effects.

(6) INSTITUTION OF HIGHER EDUCATION.—The term “institution of higher education” has the meaning given the term in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001).

(7) LOCAL EDUCATIONAL AGENCY.—The term “local educational agency” has the meaning given the term in section 8101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 7801).

(8) LOW INCOME.—The term “low income”, with respect to a household, means an annual household income equal to, or less than, the greater of—

(A) 80 percent of the median income of the area in which the household is located, as reported by the Department of Housing and Urban Development; and

(B) 200 percent of the Federal poverty line.

(9) LOW INCOME COMMUNITY.—The term “low income community” means a census block group in which not less than 30 percent of households are low income.

(10) SECONDARY SCHOOL.—The term “secondary school” has the meaning given the term in section 8101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 7801).

(11) SECRETARY.—The term “Secretary” means the Secretary of Energy.

(12) STATE.—The term “State” has the meaning given the term in section 3 of the Energy Policy and Conservation Act (42 U.S.C. 6202).

(13) STATE ENERGY PROGRAM.—The term “State Energy Program” means the State Energy Program established under part D of title III of the Energy Policy and Conservation Act (42 U.S.C. 6321 et seq.).

(14) TRIBAL ORGANIZATION.—

(A) IN GENERAL.—The term “tribal organization” has the meaning given the term in section 3765 of title 38, United States Code.

(B) TECHNICAL AMENDMENT.—Section 3765(4) of title 38, United States Code, is amended by striking “section 4(l) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450b(1))” and inserting “section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5304)”.

(b) STATE PROGRAMS.—

(1) ESTABLISHMENT.—Not later than 60 days after the date of enactment of this Act, the Secretary shall distribute grants to States under the State Energy Program, in accordance with the allocation formula established under that Program, to implement covered projects.

(2) USE OF FUNDS.—

(A) IN GENERAL.—Subject to subparagraph (B), grant funds under paragraph (1) may be used for technical assistance, project facilitation, and administration.

(B) TECHNICAL ASSISTANCE.—A State may use not more than 10 percent of grant funds received under paragraph (1) to provide technical assistance for the development, facilitation, management, oversight, and measurement of results of covered projects implemented using those funds.

(C) ENVIRONMENTAL JUSTICE AND OTHER COMMUNITIES.—To support communities adversely impacted by the COVID-19 pandemic, a State shall use not less than 40 percent of grant funds received under paragraph (1) to implement covered projects in environmental justice communities or low income communities.

(D) PRIVATE FINANCING.—A State receiving a grant under paragraph (1) shall—

(i) to the extent practicable, leverage private financing for cost-effective energy efficiency, renewable energy, resiliency, and other smart-building improvements, such as by entering into an energy service performance contract; but

(ii) maintain the use of grant funds to carry out covered projects with more project resiliency, public health, and capital-intensive efficiency and emission reduction components than are typically available through private energy service performance contracts.

(E) GUIDANCE.—In carrying out a covered project using grant funds received under paragraph (1), a State shall, to the extent practicable, adhere to guidance developed by the Secretary pursuant to the American Recovery and Reinvestment Act of 2009 (Public Law 111-5; 123 Stat. 115) relating to distribution of funds, if that guidance will speed the distribution of funds under this subsection.

(3) NO MATCHING REQUIREMENT.—Notwithstanding any other provision of law, a State receiving a grant under paragraph (1) shall not be required to provide any amount of matching funding.

(4) REPORT.—Not later than 1 year after the date on which grants are distributed under paragraph (1), and each year thereafter until the funds appropriated under paragraph (5) are no longer available, the Secretary shall submit a report on the use of those funds (including in the communities described in paragraph (2)(C)) to—

(A) the Subcommittee on Energy and Water Development of the Committee on Appropriations of the Senate;

(B) the Subcommittee on Energy and Water Development and Related Agencies of the Committee on Appropriations of the House of Representatives;

(C) the Committee on Energy and Natural Resources of the Senate;

(D) the Committee on Energy and Commerce of the House of Representatives; and

(E) the Committee on Education and Labor of the House of Representatives.

(5) FUNDING.—In addition to any amounts made available to the Secretary to carry out the State Energy Program, there is authorized to be appropriated to the Secretary \$18,000,000,000 to carry out this subsection, to remain available until September 30, 2025.

(6) SUPPLEMENT, NOT SUPPLANT.—Funds made available under paragraph (5) shall supplement, not supplant, any other funds made available to States for the State Energy Program or the weatherization assistance program established under part A of title IV of the Energy Conservation and Production Act (42 U.S.C. 6861 et seq.).

(c) FEDERAL ENERGY MANAGEMENT PROGRAM.—

(1) IN GENERAL.—Not later than 60 days after the date of enactment of this Act, the Secretary shall use the funds appropriated under paragraph (4) to provide grants under the AFFECT program under the Federal Energy Management Program of the Department of Energy to implement covered projects.

(2) PRIVATE FINANCING.—A recipient of a grant under paragraph (1) shall—

(A) to the extent practicable, leverage private financing for cost-effective energy efficiency, renewable energy, resiliency, and other smart-building improvements, such as by entering into an energy service performance contract; but

(B) maintain the use of grant funds to carry out covered projects with more project resiliency, public health, and capital-intensive efficiency and emission reduction components than are typically available through private energy service performance contracts.

(3) REPORT.—Not later than 1 year after the date on which grants are distributed under paragraph (1), and each year thereafter until the funds appropriated under paragraph (4) are no longer available, the Secretary shall submit a report on the use of those funds to—

(A) the Subcommittee on Energy and Water Development of the Committee on Appropriations of the Senate;

(B) the Subcommittee on Energy and Water Development and Related Agencies of the Committee on Appropriations of the House of Representatives;

(C) the Committee on Energy and Natural Resources of the Senate;

(D) the Committee on Energy and Commerce of the House of Representatives; and

(E) the Committee on Education and Labor of the House of Representatives.

(4) FUNDING.—In addition to any amounts made available to the Secretary to carry out the AFFECT program described in paragraph (1), there is authorized to be appropriated to the Secretary \$500,000,000 to carry out this subsection, to remain available until September 30, 2025.

(d) TRIBAL ORGANIZATIONS.—

(1) IN GENERAL.—Not later than 60 days after the date of enactment of this Act, the Secretary, acting through the head of the Office of Indian Energy, shall distribute funds made available under paragraph (3) to tribal organizations to implement covered projects.

(2) REPORT.—Not later than 1 year after the date on which funds are distributed under paragraph (1), and each year thereafter until the funds made available under paragraph (3) are no longer available, the Secretary shall submit a report on the use of those funds to—

(A) the Subcommittee on Energy and Water Development of the Committee on Appropriations of the Senate;

(B) the Subcommittee on Energy and Water Development and Related Agencies of the Committee on Appropriations of the House of Representatives;

(C) the Committee on Energy and Natural Resources of the Senate;

(D) the Committee on Energy and Commerce of the House of Representatives; and

(E) the Committee on Education and Labor of the House of Representatives.

(3) FUNDING.—There is authorized to be appropriated to the Secretary \$1,500,000,000 to carry out this subsection, to remain available until September 30, 2025.

(e) USE OF AMERICAN IRON, STEEL, AND MANUFACTURED GOODS.—

(1) IN GENERAL.—Except as provided in paragraph (2), none of the funds made available by or pursuant to this section may be used for a covered project unless all of the iron, steel, and manufactured goods used in the project are produced in the United States.

(2) EXCEPTIONS.—The requirement under paragraph (1) shall be waived by the head of the relevant Federal department or agency in any case or category of cases in which the head of the relevant Federal department or agency determines that—

(A) adhering to that requirement would be inconsistent with the public interest;

(B) the iron, steel, and manufactured goods needed for the project are not produced in the United States—

(i) in sufficient and reasonably available quantities; and

(ii) in a satisfactory quality; or

(C) the inclusion of iron, steel, and relevant manufactured goods produced in the United States would increase the overall cost of the project by more than 25 percent.

(3) WAIVER PUBLICATION.—If the head of a Federal department or agency makes a determination under paragraph (2) to waive the requirement under paragraph (1), the head of the Federal department or agency shall publish in the Federal Register a detailed justification for the waiver.

(4) INTERNATIONAL AGREEMENTS.—This subsection shall be applied in a manner consistent with the obligations of the United States under all applicable international agreements.

(f) WAGE RATE REQUIREMENTS.—

(1) IN GENERAL.—Notwithstanding any other provision of law, all laborers and mechanics employed by contractors and sub-contractors on projects funded directly or assisted in whole or in part by the Federal Government pursuant to this section shall be paid wages at rates not less than those prevailing on projects of a similar character in the locality, as determined by the Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40, United States Code (commonly known as the “Davis-Bacon Act”).

(2) AUTHORITY.—With respect to the labor standards specified in paragraph (1), the Secretary of Labor shall have the authority and functions set forth in Reorganization Plan Numbered 14 of 1950 (64 Stat. 1267; 5 U.S.C. App.) and section 3145 of title 40, United States Code.

#### SEC. 12702. PERSONNEL.

(a) IN GENERAL.—To carry out section 12701, the Secretary of Energy shall hire within the Department of Energy—

(1) not less than 300 full-time employees in the Office of Energy Efficiency and Renewable Energy;

(2) not less than 100 full-time employees, to be distributed among—

- (A) the Office of General Counsel;
  - (B) the Office of Procurement Policy;
  - (C) the Golden Field Office;
  - (D) the National Energy Technology Laboratory; and
  - (E) the Office of the Inspector General; and
- (3) not less than 20 full-time employees in the Office of Indian Energy.

(b) TIMELINE.—Not later than 60 days after the date of enactment of this Act, the Secretary shall—

(1) hire all personnel under subsection (a); or

(2) certify that the Secretary is unable to hire all personnel by the date required under this subsection.

(c) CONTRACT HIRES.—

(1) IN GENERAL.—If the Secretary makes a certification under subsection (b)(2), the Secretary may hire on a contract basis not more than 50 percent of the personnel required to be hired under subsection (a).

(2) DURATION.—An individual hired on a contract basis under paragraph (1) shall have an employment term of not more than 1 year.

(d) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to the Secretary to carry out this section \$84,000,000 for each of fiscal years 2021 through 2031.

(e) REPORT.—Not later than 60 days after the date of enactment of this Act, and annually thereafter for 2 years, the Secretary shall submit a report on progress made in carrying out subsection (a) to—

(1) the Subcommittee on Energy and Water Development of the Committee on Appropriations of the Senate;

(2) the Subcommittee on Energy and Water Development and Related Agencies of the Committee on Appropriations of the House of Representatives;

(3) the Committee on Energy and Natural Resources of the Senate;

(4) the Committee on Energy and Commerce of the House of Representatives; and

(5) the Committee on Education and Labor of the House of Representatives.

AMENDMENT NO. 8 OFFERED BY MR. BROWN OF MARYLAND

Page 2, after the item relating to section 1602, insert the following:

Sec. 1603. Prohibition on category 1 respiratory sensitizers.

At the end of subtitle F of title I, insert the following:

#### SEC. 1603. PROHIBITION ON CATEGORY 1 RESPIRATORY SENSITIZERS.

Thermal insulating materials for building elements including walls, floors, ceilings, attics and roofs insulation, used for “Low Income Home Energy Assistance” and “Weatherization Assistance Program” shall not contain any substance that is a Category 1 respiratory sensitizer as defined in Appendix A to section 1910.1200 of title 29, Code of Federal Regulations, (specifically, Appendix A.4, “Respiratory or Skin Sensitization”), if such substance was intentionally added or is present at greater than 0.1 percent (1000 ppm) by weight in the product.

AMENDMENT NO. 9 OFFERED BY MR. BURGESS OF TEXAS

Add at the end of subtitle F of title XII the following:

#### SEC. 12607. EFFECTIVE DATE.

This Act, and the amendments made by this Act, shall not take effect until the date on which the Secretary of Energy submits to Congress a certification that implementation of this Act, and the amendments made by this Act, will not reduce the energy security or energy independence of the United States.

AMENDMENT NO. 10 OFFERED BY MR. BURGESS OF TEXAS

Add at the end of subtitle F of title XII the following:

#### SEC. 12607. EFFECTIVE DATE.

This Act, and the amendments made by this Act, shall not take effect until the date on which the Secretary of Energy submits to Congress a certification that implementation of this Act, and the amendments made by this Act, will not increase electric rates or gasoline prices outside of normal market factors.

AMENDMENT NO. 11 OFFERED BY MR. BURGESS OF TEXAS

At the end of subtitle F of title XII, add the following:

#### SEC. 12. REPORT ON MINING OF CRITICAL MINERALS USING FORCED LABOR IN FOREIGN COUNTRIES.

Not later than 180 days after the date of the enactment of this Act, the Secretary of the Interior, in consultation with the Commissioner of U.S. Customs and Border Protection and the Secretary of State, shall submit to the Congress a report evaluating the use of child labor, slavery, or human trafficking to mine or otherwise obtain one or more of the minerals listed in the Notice of the Department of the Interior entitled “Final List of Critical Minerals 2018” (83 Fed. Reg. 23295), or in any successor notice updating such Final List, for export to the United States.

AMENDMENT NO. 16 OFFERED BY MS. CLARKE OF NEW YORK

At the end of title VI, add the following:

#### Subtitle G—Clean Refrigerated Vehicles Program

#### SEC. 6701. PILOT PROGRAM FOR THE ELECTRIFICATION OF CERTAIN REFRIGERATED VEHICLES.

(a) ESTABLISHMENT OF PILOT PROGRAM.—The Administrator shall establish and carry out a pilot program to award funds, in the form of grants, rebates, and low-cost revolving loans, as determined appropriate by the Administrator, on a competitive basis, to eligible entities to carry out projects described in subsection (b).

(b) PROJECTS.—An eligible entity receiving an award of funds under subsection (a) may use such funds only for one or more of the following projects:

(1) TRANSPORT REFRIGERATION UNIT REPLACEMENT.—A project to retrofit a heavy-duty vehicle by replacing or retrofitting the

existing diesel-powered transport refrigeration unit in such vehicle with an electric transport refrigeration unit and retiring the replaced unit for scrappage.

(2) SHORE POWER INFRASTRUCTURE.—A project to purchase and install shore power infrastructure or other equipment that enables transport refrigeration units to connect to electric power and operate without using diesel fuel.

(c) MAXIMUM AMOUNTS.—The amount of an award of funds under subsection (a) shall not exceed—

(1) for the costs of a project described in subsection (b)(1), 75 percent of such costs; and

(2) for the costs of a project described in subsection (b)(2), 55 percent of such costs.

(d) APPLICATIONS.—To be eligible to receive an award of funds under subsection (a), an eligible entity shall submit to the Administrator—

(1) a description of the air quality in the area served by the eligible entity, including a description of how the air quality is affected by diesel emissions from heavy-duty vehicles;

(2) a description of the project proposed by the eligible entity, including—

(A) any technology to be used or funded by the eligible entity; and

(B) a description of the heavy-duty vehicle or vehicles of the eligible entity, that will be retrofitted, if any, including—

- (i) the number of such vehicles;
- (ii) the uses of such vehicles;
- (iii) the locations where such vehicles dock for the purpose of loading or unloading; and
- (iv) the routes driven by such vehicles, including the times at which such vehicles are driven;

(3) an estimate of the cost of the proposed project;

(4) a description of the age and expected lifetime control of the equipment used or funded by the eligible entity; and

(5) provisions for the monitoring and verification of the project including to verify scrappage of replaced units.

(e) PRIORITY.—In awarding funds under subsection (a), the Administrator shall give priority to proposed projects that, as determined by the Administrator—

(1) maximize public health benefits;

(2) are the most cost-effective; and

(3) will serve the communities that are most polluted by diesel motor emissions, including communities that the Administrator identifies as being in either nonattainment or maintenance of the national ambient air quality standards for a criteria pollutant, particularly for—

- (A) ozone; and
- (B) particulate matter.

(f) DATA RELEASE.—Not later than 120 days after the date on which an award of funds is made under this section, the Administrator shall publish on the website of the Environmental Protection Agency, on a downloadable electronic database, information with respect to such award of funds, including—

(1) the name and location of the recipient;

(2) the total amount of funds awarded;

(3) the intended use or uses of the awarded funds;

(4) the date on which the award of funds was approved;

(5) where applicable, an estimate of any air pollution or greenhouse gas emissions avoided as a result of the project funded by the award; and

(6) any other data the Administrator determines to be necessary for an evaluation of the use and effect of awarded funds provided under this section.

(g) REPORTS TO CONGRESS.—

(1) ANNUAL REPORT TO CONGRESS.—Not later than 1 year after the date of the establishment of the pilot program under this section, and annually thereafter until amounts made available to carry out this section are expended, the Administrator shall submit to Congress and make available to the public a report that describes, with respect to the applicable year—

(A) the number of applications for awards of funds received under such program;

(B) all awards of funds made under such program, including a summary of the data described in subsection (f);

(C) the estimated reduction of annual emissions of air pollutants regulated under section 109 of the Clean Air Act (42 U.S.C. 7409), and the estimated reduction of greenhouse gas emissions, associated with the awards of funds made under such program;

(D) the number of awards of funds made under such program for projects in communities described in subsection (e)(3); and

(E) any other data the Administrator determines to be necessary to describe the implementation, outcomes, or effectiveness of such program.

(2) FINAL REPORT.—Not later than 1 year after amounts made available to carry out this section are expended, or 5 years after the pilot program is established, whichever comes first, the Administrator shall submit to Congress and make available to the public a report that describes—

(A) all of the information collected for the annual reports under paragraph (1);

(B) any benefits to the environment or human health that could result from the widespread application of electric transport refrigeration units for short-haul transportation and delivery of perishable goods or other goods requiring climate-controlled conditions, including in low-income communities and communities of color;

(C) any challenges or benefits that recipients of awards of funds under such program reported with respect to the integration or use of electric transport refrigeration units and associated technologies;

(D) an assessment of the national market potential for electric transport refrigeration units;

(E) an assessment of challenges and opportunities for widespread deployment of electric transport refrigeration units, including in urban areas; and

(F) recommendations for how future Federal, State, and local programs can best support the adoption and widespread deployment of electric transport refrigeration units.

(h) DEFINITIONS.—In this section:

(1) ADMINISTRATOR.—The term “Administrator” means the Administrator of the Environmental Protection Agency.

(2) DIESEL-POWERED TRANSPORT REFRIGERATION UNIT.—The term “diesel-powered transport refrigeration unit” means a transport refrigeration unit that is powered by an independent diesel internal combustion engine.

(3) ELECTRIC TRANSPORT REFRIGERATION UNIT.—The term “electric transport refrigeration unit” means a transport refrigeration unit in which the refrigeration or climate-control system is driven by an electric motor when connected to shore power infrastructure or other equipment that enables transport refrigeration units to connect to electric power, including all-electric transport refrigeration units, hybrid electric transport refrigeration units, and standby electric transport refrigeration units.

(4) ELIGIBLE ENTITY.—The term “eligible entity” means—

(A) a regional, State, local, or Tribal agency, or port authority, with jurisdiction over transportation or air quality;

(B) a nonprofit organization or institution that—

(i) represents or provides pollution reduction or educational services to persons or organizations that own or operate heavy-duty vehicles or fleets of heavy-duty vehicles; or

(ii) has, as its principal purpose, the promotion of air quality;

(C) an individual or entity that is the owner of record of a heavy-duty vehicle or a fleet of heavy-duty vehicles that operates for the transportation and delivery of perishable goods or other goods requiring climate-controlled conditions;

(D) an individual or entity that is the owner of record of a facility that operates as a warehouse or storage facility for perishable goods or other goods requiring climate-controlled conditions; or

(E) a hospital or public health institution that utilizes refrigeration for storage of perishable goods or other goods requiring climate-controlled conditions.

(5) HEAVY-DUTY VEHICLE.—The term “heavy-duty vehicle” means—

(A) a commercial truck or van—

(i) used for the primary purpose of transporting perishable goods or other goods requiring climate-controlled conditions; and

(ii) with a gross vehicle weight rating greater than 6,000 pounds; or

(B) an insulated cargo trailer used in transporting perishable goods or other goods requiring climate-controlled conditions when mounted on a semitrailer.

(6) SHORE POWER INFRASTRUCTURE.—The term “shore power infrastructure” means electrical infrastructure that provides power to the electric transport refrigeration unit of a heavy-duty vehicle when such vehicle is stationary on a property where such vehicle is parked or loaded, including a food distribution center or other location where heavy-duty vehicles congregate.

(7) TRANSPORT REFRIGERATION UNIT.—The term “transport refrigeration unit” means a climate-control system installed on a heavy-duty vehicle for the purpose of maintaining the quality of perishable goods or other goods requiring climate-controlled conditions.

(i) AUTHORIZATION OF APPROPRIATIONS.—

(1) IN GENERAL.—There is authorized to be appropriated to carry out this section \$10,000,000, to remain available until expended.

(2) ADMINISTRATIVE EXPENSES.—The Administrator may use not more than 1 percent of amounts made available pursuant to paragraph (1) for administrative expenses to carry out this section.

AMENDMENT NO 17 OFFERED BY MR. CLEAVER OF MISSOURI

At the end of subtitle F of title XII, add the following:

**SEC. 12607. TREE PLANTING GRANT PROGRAM.**

(a) DEFINITIONS.—In this section:

(1) ELIGIBLE COST.—The term “eligible cost” means, with respect to a project—

(A) the cost of implementing the project, including—

(i) planning and designing the planting activity;

(ii) purchasing trees; and

(iii) preparing the site and conducting planting, including the labor and cost associated with the use of machinery;

(B) the cost of maintaining and monitoring planted trees for a period of up to 3 years to ensure successful establishment of the trees;

(C) the cost of training activities associated with the project; and

(D) any other relevant cost, as determined by the Secretary.

(2) ELIGIBLE ENTITY.—The term “eligible entity” means—

(A) a State agency;

(B) a local governmental entity;

(C) an Indian Tribe;

(D) a nonprofit organization; and

(E) a retail power provider.

(3) ENERGY BURDEN.—The term “energy burden” means the percentage of household income spent on home energy bills.

(4) INDIAN TRIBE.—The term “Indian Tribe” has the meaning given the term “Indian tribe” in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5304).

(5) LOCAL GOVERNMENTAL ENTITY.—The term “local governmental entity” means any municipal government or county government with jurisdiction over local land use decisions.

(6) NONPROFIT ORGANIZATION.—The term “nonprofit organization” means an organization that—

(A) is described in section 170(h)(3) of the Internal Revenue Code of 1986; and

(B) operates in accordance with 1 or more of the purposes described in section 170(h)(4)(A) of that Code.

(7) PROGRAM.—The term “Program” means the grant program established under subsection (b)(1).

(8) PROJECT.—The term “project” means a tree planting project carried out by an eligible entity using grant funds awarded under the Program.

(9) RETAIL POWER PROVIDER.—The term “retail power provider” means any entity authorized under applicable State or Federal law to generate, distribute, or provide retail electricity, natural gas, or fuel oil service.

(10) SECRETARY.—The term “Secretary” means the Secretary of Energy.

(b) ESTABLISHMENT.—

(1) IN GENERAL.—The Secretary, in coordination with the Secretary of Agriculture, acting through the Chief of the Forest Service, shall establish a program under which the Secretary shall award grants to eligible entities to conduct tree planting projects in accordance with this section.

(2) TREE PLANTING.—Subject to the availability of appropriations, in carrying out the Program, the Secretary shall, to the maximum extent practicable, award sufficient grants each year to plant not less than 300,000 trees each year.

(c) APPLICATIONS.—

(1) IN GENERAL.—An eligible entity that seeks to receive a grant under the Program shall submit an application to the Secretary at such time, in such form, and containing such information as the Secretary may require, including the information described in paragraph (2).

(2) CONTENTS.—An application submitted under paragraph (1) shall include—

(A) a description of how the project will reduce residential energy consumption;

(B) an estimate of the expected reduction in residential energy consumption;

(C) a description of the total eligible costs of the project and sources of funding for the project;

(D) a description of the anticipated community and stakeholder engagement in the project;

(E) a description of the tree species to be planted and how that species is suitable for the local environmental conditions and climate; and

(F) any other relevant information required by the Secretary.

(d) PRIORITY.—In awarding grants under the Program, the Secretary shall give priority to projects that—

(1) provide the largest potential reduction in residential energy consumption for households with a high energy burden;

(2) are located in a neighborhood with lower tree canopy cover and higher maximum daytime summer temperatures;



(3) are located in a neighborhood with high amounts of senior citizens or children;

(4) will collaboratively engage neighbors and community members that will be closely affected by the tree planting; and

(5) will employ a substantial percentage of the workforce locally, with a focus on engaging unemployed and underemployed persons.

(e) COSTS.—

(1) FEDERAL SHARE.—The Secretary shall award a grant to an eligible entity under the Program in an amount equal to not more than 75 percent of the eligible costs of the project, as determined by the Secretary.

(2) MATCHING REQUIREMENT.—As a condition of receiving a grant under the Program, an eligible entity shall provide, in cash or through in-kind contributions from non-Federal sources, matching funds in an amount equal to not less than 25 percent of the eligible costs of the project, as determined by the Secretary.

(f) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated to carry out the Program \$50,000,000 for each of fiscal years 2021 through 2025.

AMENDMENT NO. 19 OFFERED BY MS. DEGETTE  
OF COLORADO

Add at the end of title XI the following:

**SEC. 11017. ENVIRONMENTAL JUSTICE FOR COMMUNITIES OVERBURDENED BY ENVIRONMENTAL VIOLATIONS.**

(a) IDENTIFICATION OF COMMUNITIES.—Not later than 180 days after the date of enactment of this section, the Administrator shall, in consultation with the Advisory Council and co-regulators in State and local agencies, identify at least 100 communities—

(1) that are environmental justice communities; and

(2) in which there have been over the previous 5 years a number of violations of environmental law that the Administrator determines to be greater than the national average of such violations.

(b) ANALYSIS AND RECOMMENDATIONS.—Not later than 1 year after the enactment of this section, with respect to each community identified under subsection (a), and in consultation with the Advisory Council, the Administrator shall—

(1) undertake an analysis of the conditions which have led to the number of violations identified under subsection (a)(1), including through community-based science implemented through engagement with the residents of each such community;

(2) identify the root cause of the number of violations described under subsection (a)(1); and

(3) recommend measures that the Administrator shall take, in coordination with co-regulators in State and local agencies, to reduce the number of violations of environmental law to a number that the Administrator determines to be significantly below the national average.

(c) IMPLEMENTATION.—Not later than 2 years after the date of enactment of this section, the Administrator shall complete the implementation of the measures identified under subsection (b)(3).

AMENDMENT NO. 20 OFFERED BY MR. DELGADO  
OF NEW YORK

At the end of part 2 of subtitle A of title XII, add the following:

(h) MONITORING.—The Secretary of Labor, in consultation with the Secretary of Energy, shall collect data to monitor current and future trends and shortages within the clean energy technology industry, which includes skilled technical personnel, electric power engineers, transmission engineers, and other occupations or fields of work under—

- (1) the agriculture and forestry industry;
- (2) the electric utility industry;
- (3) the manufacturing industry;

(4) the wholesale trade industry;

(5) the professional and business services industry; and

(6) the manufacturing and operation and maintenance industries for component parts of clean energy technologies.

(i) REPORT ON CURRENT TRENDS AND SHORTAGES.—Not later than 120 days after the date of enactment of this Act, and on a quarterly basis thereafter, the Secretary shall submit to Congress, based on the data collected under subsection (h), a report on—

(1) trends and shortages as of the date of such report, and recommendations to prepare the workforce to address such trends and shortages to meet the demands of a clean energy economy; and

(2) other recommendations the Secretary determines appropriate.

(j) REPORT ON FUTURE TRENDS AND SHORTAGES.—Not later than 1 year after the date of enactment of this Act, the Secretary shall submit to Congress, based on the data collected under subsection (h), a report on—

(1) trends and shortages projected in the next 10 years, and recommendations to address such trends and shortages to prepare the workforce to meet the demands of a clean energy economy; and

(2) other recommendations the Secretary determines appropriate.

AMENDMENT NO. 21 OFFERED BY MR.  
DESAULNIER OF CALIFORNIA

Page 830, after line 5, insert the following:

**SEC. 12114. RENEWABLE ENERGY TRANSITION GRANT PROGRAM.**

(a) IN GENERAL.—The Secretary of Energy, in coordination with the Secretary of Labor, shall establish a grant program for local governments for the purpose of developing a plan to transition workers from employment in fossil fuel industries to employment in sustainable industries.

(b) ELIGIBILITY.—The Secretary of Energy may award grants under subsection (a) to local governments—

(1) that establish industry or sector partnerships (as defined in section 3 of the Workforce Innovation and Opportunity Act (29 U.S.C. 3102));

(2) that are in localities that the Secretary of Energy determines to have a percentage of traditional energy sector jobs that is average or above average relative to the United States.

(c) DETERMINATION OF PERCENTAGE OF TRADITIONAL ENERGY SECTOR JOBS.—In making the determination under subsection (b)(2), the Secretary of Energy shall take into consideration information from the report entitled “U.S. Energy and Employment Report” issued by the Secretary in January, 2017.

(d) USE OF FUNDS.—Funds under subsection (a) may be used for the following purposes:

(1) To develop a transition plan described in subsection (a).

(2) To develop an apprenticeship program to train individuals employed in fossil fuel industries and individuals who are new to the workforce for jobs in sustainable industries.

(e) TRANSITION PLAN REQUIREMENTS.—A transition plan funded under subsection (a) shall include a plan for unemployment insurance, job transition training, and community services for the communities affected by the transition.

(f) AUTHORIZATION.—There are authorized to be appropriated such sums as necessary to carry out this section.

On page 9, after the matter relating to section 12113, insert the following:

**Sec. 12114. Renewable energy transition grant program**

AMENDMENT NO. 22 OFFERED BY MRS. DINGELL  
OF MICHIGAN

At the end of subtitle H of title I, add the following:

**SEC. 1806. WATER HEATERS.**

(a) DEFINITION OF WATER HEATER.—Section 321 of the Energy Policy and Conservation Act (42 U.S.C. 6291) is amended by striking paragraph (27) and inserting the following:

“(27) WATER HEATER.—

“(A) IN GENERAL.—The term ‘water heater’ means a product that utilizes oil, gas, or electricity to heat potable water for use outside the heater on demand, including—

“(i) storage type units that heat and store water at a thermostatically controlled temperature, including—

“(I) gas storage water heaters with an input of 75,000 Btu per hour or less, including heat pump type units that meet the current and voltage limits under clause (iii);

“(II) oil storage water heaters with an input of 105,000 Btu per hour or less; and

“(III) electric storage water heaters with an input of 12 kilowatts or less, including heat pump type units that meet the current and voltage limits under clause (iii);

“(ii)(I) instantaneous type units that heat water but contain not more than 1 gallon of water per 4,000 Btu per hour of input; and

“(II) in the case of—

“(aa) gas instantaneous water heaters, have an input of 200,000 Btu per hour or less and are designed and marketed to provide outlet hot water at a thermostatically controlled temperature of less than 180 degrees Fahrenheit;

“(bb) oil instantaneous water heaters, have an input of 210,000 Btu per hour or less; and

“(cc) electric instantaneous water heaters, have an input of 12 kilowatts or less;

“(iii) heat pump type units (including add-on heat pumps, integrated heat pumps with storage, split-system heat pumps that consist of a separate heat pump and storage tank that are designed and marketed to operate together, and all ancillary equipment, such as fans, storage tanks, pumps, electric resistance heating elements, or controls necessary for the device to perform its function) that—

“(I) have a maximum current rating of 24 amperes at a voltage not greater than 250 volts; and

“(II) are designed to transfer thermal energy from 1 temperature level to a different temperature level for the purpose of heating water;

“(iv) solar thermal-assisted electric storage units; and

“(v) solar thermal-assisted fossil fuel storage units.

“(B) EXCLUSIONS.—Unless otherwise determined by the Secretary under section 325(e)(7)(B), the term ‘water heater’ does not include—

“(i) electric storage type units described in subparagraph (A)(i)(III) that—

“(I) are designed and marketed exclusively for commercial building applications; and

“(II)(aa) are designed, constructed, inspected, tested, and stamped in accordance with Section IV, Part HLW, or Section X of the Boiler and Pressure Vessel Code promulgated by the American Society of Mechanical Engineers;

“(bb) exclusively use 3-phase electricity, are designed and marketed to provide outlet hot water at a thermostatically controlled temperature of 180 degrees Fahrenheit or greater, and operate only at rated voltages of not less than 208 volts; or

“(cc) exclusively use single-phase electricity, are designed and marketed to provide outlet hot water at a thermostatically controlled temperature of 180 degrees Fahrenheit or greater, and operate only at a rated voltage of 277 volts; or

“(ii) gas storage type units described in subparagraph (A)(i)(I) that—

“(I) are designed and marketed exclusively for commercial building applications; and

“(II) are designed, constructed, inspected, tested, and stamped in accordance with Section IV, Part HLW, of the Boiler and Pressure Vessel Code promulgated by the American Society of Mechanical Engineers.

“(C) MULTI-INPUT ELECTRIC STORAGE WATER HEATER.—The term ‘multi-input electric storage water heater’ means a product that—

“(i) is not a heat pump type unit described in subparagraph (A)(iii); and

“(ii) is designed, marketed, or shipped from the manufacturer with a capability of operating or being configured to operate at inputs greater than, equal to, or below 12 kilowatts.

“(D) SOLAR THERMAL-ASSISTED ELECTRIC STORAGE UNIT.—The term ‘solar thermal-assisted electric storage unit’ means a unit that—

“(i) has an input of 12 kilowatts or less;

“(ii) has at least 2 dedicated ports in addition to the ports used for introduction and delivery of potable water for the supply and return of water or a heat transfer fluid heated externally by solar panels;

“(iii) does not have electric resistance heating elements located in the lower half of the storage tank;

“(iv) has the temperature sensing device that controls the auxiliary electric heat source located in the upper half of the storage tank; and

“(v) has a ratio of less than 0.70 for the proportion that the certified first hour rating bears to the nominal volume of the storage tank.”.

(b) STANDARDS FOR WATER HEATERS.—Section 325(e) of the Energy Policy and Conservation Act (42 U.S.C. 6295(e)) is amended by adding at the end the following:

“(7) EXEMPTED WATER HEATERS.—

“(A) DEFINITION OF EXEMPTED WATER HEATER.—In this paragraph, the term ‘exempted water heater’ means a water heater described in section 321(27)(B).

“(B) MONITORING OF SHIPMENTS.—

“(i) SUBMISSION OF DATA.—Not later than 90 days after the date of enactment of this paragraph, and not later than May 1 of each year thereafter, the Secretary shall require each manufacturer of water heaters to report to the Secretary the quantity of exempted water heaters, in each category of exempted water heaters, that the manufacturer shipped in the preceding calendar year.

“(ii) CONFIDENTIALITY REQUIREMENTS.—The Secretary shall treat shipment data reported by manufacturers under clause (i) as confidential business information subject to appropriate confidentiality data safeguards.

“(iii) PUBLICATION.—

“(I) BASELINE SHIPMENT DATA.—Not later than 120 days after the date of enactment of this paragraph, the Secretary shall publish an analysis of the data collected under clause (i) for public comment, subject to applicable confidentiality safeguards, which shall serve as the baseline data for the analysis described in subclause (II)(bb).

“(II) PERCENTAGE GROWTH FROM BASELINE.—Not later than June 1 of each year after the year in which the Secretary publishes data under subclause (I), the Secretary shall publish—

“(aa) an analysis of the data collected under clause (i) for public comment, subject to applicable confidentiality safeguards;

“(bb) the percentage growth in the number of shipments within each category of exempted water heater relative to the baseline data described in subclause (I); and

“(cc) the determination of the Secretary as to whether the number of shipments for any category of exempted water heater have increased by more than 25 percent compared to the baseline data for that category.

“(C) INCLUSION OF EXEMPTED WATER HEATERS.—

“(i) IN GENERAL.—The Secretary shall, by regulation, revise the definition of water heater under section 321(27) to include an exempted water heater under subparagraph (A) of that section if the Secretary makes an affirmative determination under subparagraph (B)(ii)(II)(cc) for that category of exempted water heater.

“(ii) ENERGY CONSERVATION STANDARDS.—Any category of exempted water heater included in the definition of water heater under clause (i) shall be required to meet the energy conservation standards applicable to an electric or gas storage type water heater under this part.

“(iii) EFFECTIVE DATE.—For any category of exempted water heater, the Secretary shall carry out clause (i), and require compliance under clause (ii), not later than 1 year after the date on which the Secretary makes the affirmative determination described in clause (i) for that category.

“(8) STANDARDS FOR MULTI-INPUT ELECTRIC STORAGE WATER HEATERS.—A multi-input electric storage water heater shall be subject to the test procedures, energy conservation standards, labeling (if applicable), and certification requirements—

“(A) for electric storage water heaters under this part; and

“(B) for storage water heaters under part C.

“(9) TECHNOLOGY-NEUTRAL ELECTRIC STORAGE WATER HEATER STANDARDS.—Notwithstanding any other provision of this Act, the Secretary may not create separate product classes for heat pump water heaters and other electric storage water heaters.”.

(c) DEFINITION OF COMMERCIAL WATER HEATER.—Section 340 of the Energy Policy and Conservation Act (42 U.S.C. 6311) is amended by striking paragraph (12) and inserting the following:

“(12)(A) STORAGE WATER HEATER.—

“(i) IN GENERAL.—The term ‘storage water heater’ means a water heater that—

“(I) heats and stores water within an appliance at a thermostatically controlled temperature for delivery on demand; and

“(II) is not a water heater described in section 321(27)(A).

“(ii) EXCLUSION.—The term ‘storage water heater’ does not include a unit with an input rating of 4,000 Btu per hour or more per gallon of stored water.

“(B) INSTANTANEOUS WATER HEATER.—The term ‘instantaneous water heater’ means a water heater that—

“(i) has an input rating of at least 4,000 Btu per hour per gallon of stored water; and

“(ii) is not a water heater described in section 321(27)(A).

“(C) UNFIRED HOT WATER STORAGE TANK.—The term ‘unfired hot water storage tank’ means a tank used to store water that is heated externally.”.

(d) LABELING REQUIREMENTS.—Section 344 of the Energy Policy and Conservation Act (42 U.S.C. 6315) is amended by adding at the end the following:

“(1) LABELS FOR CERTAIN COMMERCIAL WATER HEATERS.—

“(1) IN GENERAL.—Notwithstanding any other provision of this section, water heaters described in section 321(27)(B) shall be required to bear a permanent label, applied at the point of manufacture, that, subject to paragraph (3), satisfies the requirements described in paragraph (2).

“(2) REQUIREMENTS.—A label required under paragraph (1) shall—

“(A) be made of material not adversely affected by water;

“(B) be attached by means of nonwater-soluble adhesive; and

“(C) bear the following notice printed in 16.5 point Arial Narrow Bold font: ‘IMPORTANT INFORMATION: Exclusively intended

for commercial installations. This model is not certified by the U.S. Department of Energy as a residential water heater. This model does not have a certified First Hour or UEF rating.’.

“(3) REVISION UPON PETITION.—On receipt of a petition by an interested party, the Secretary may conduct a rulemaking to revise the scope and requirements of the label required under paragraph (1).”.

(e) EFFECTIVE DATE.—This section and the amendments made by this section shall take effect 180 days after the date of enactment of this Act.

AMENDMENT NO. 25 OFFERED BY MS.

FINKENAUER OF IOWA

Page 9, after the item relating to section 12606, insert the following:

Sec. 12607. Labor Standards.

At the end of subtitle F, insert the following:

**SEC. 12607 LABOR STANDARDS.**

(a) IN GENERAL.—Notwithstanding any other provision of law, for fiscal year 2021 and each fiscal year thereafter, any construction or maintenance projects, including installation or removal of applicable infrastructure, assisted in whole or in part by funds appropriated under sections 1203, 1221, 1802, 1803, 1804, 1805, 2122, 2401, 2502, 2503, 2504, 2505, 2522, 2523, 2524, 2525, 2542, 2543, 2544, 2545, 2547, 2552, 2553, 2561, 3102, 3103, 3104, 3105, 3106, 3107, 3109, 3110, 3111, 3112, 3201, 4101, 4202, 5101, 5301, 5302, 5321, 5322, 5323, 5324, 5341, 5342, 6201, 6301, 6502, 6512, 7001, 8101, 8102, 8206, 8304, 9105, 9302, 9304, 10121, and 12401 of this Act and including 42 U.S.C. 17011 and 42 U.S.C. 16061, without regard to the form or type of Federal assistance provided under such section or part, shall comply with labor standards under this section. Compliance with labor standards under this section shall also apply to entities that are awarded permits, leases or enter into agreements with the Federal Government under subtitle F of Title II of this Act.

(b) CERTIFICATION OF QUALIFIED ENTITIES.—

(1) IN GENERAL.—The Secretary of Labor shall establish a process for certifying entities that submit an application under paragraph (2) as qualified entities with respect to construction and maintenance projects funded in part or whole under sections 1203, 1221, 1802, 1803, 1804, 1805, 2122, 2401, 2502, 2503, 2504, 2505, 2522, 2523, 2524, 2525, 2542, 2543, 2544, 2545, 2547, 2552, 2553, 2561, 3102, 3103, 3104, 3105, 3106, 3107, 3109, 3110, 3111, 3112, 3201, 4101, 4202, 5101, 5301, 5302, 5321, 5322, 5323, 5324, 5341, 5342, 6201, 6301, 6502, 6512, 7001, 8101, 8102, 8206, 8304, 9105, 9302, 9304, 10121, and 12401 of this Act and including 42 U.S.C. 17011 and 42 U.S.C. 16061.

(2) APPLICATION PROCESS.—An entity seeking certification as a qualified entity under this section shall submit an application to the Secretary of Labor at such time, in such manner, and containing such information as the Secretary may reasonably require, including information to demonstrate compliance with the requirements under subsection (c).

(3) REQUESTS FOR ADDITIONAL INFORMATION.—Not later than 1 year after receiving an application from an entity under paragraph (2)—

(A) the Secretary of Labor may request additional information from the entity in order to determine whether the entity is in compliance with the requirements under subsection (c); and

(B) the entity shall provide such additional information within 30 days of the Secretary of Labor's request under subparagraph (A).

(4) DETERMINATION DEADLINE.—The Secretary of Labor shall make a determination on whether to certify an entity under this section not later than—

(A) in a case in which the Secretary requests additional information described in

paragraph (3), 1 year after the Secretary receives such additional information from the entity, or

(B) in a case that is not described in paragraph (3)(A), 1 year after the date on which the entity submits the application under paragraph (2).

(5) **PRECERTIFICATION REMEDIES.**—The Secretary shall consider any corrective actions taken by an entity seeking certification under this subsection to remedy an administrative merits determination, arbitral award or decision, or civil judgment identified under subsection (c)(3) and shall impose as a condition of certification any additional remedies necessary to avoid further or repeated violations.

(c) **LABOR STANDARDS REQUIREMENTS.**—The Secretary of Labor shall require an entity, as a condition of certification under this section, to satisfy each of the following requirements:

(1) The entity shall ensure that all laborers and mechanics employed by contractors and subcontractors in the performance of any construction or maintenance project shall be paid wages at rates not less than those prevailing on projects of a similar character in the locality as determined by the Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40, United States Code (commonly known as the “Davis-Bacon Act”).

(2) In the case of any construction or maintenance project, the cost of which exceeds \$25,000,000, the entity shall be a party to, or require contractors and subcontractors in the performance of such construction or maintenance project to consent to, a covered project labor agreement.

(3) The entity, and all contractors and subcontractors in performance of any construction or maintenance project, shall represent in the application submitted under subsection (b)(2) (and periodically thereafter during the performance of the construction or maintenance project as the Secretary of Labor may require) whether there has been any administrative merits determination, arbitral award or decision, or civil judgment, as defined in guidance issued by the Secretary of Labor, rendered against the entity in the preceding 3 years (or, in the case of disclosures after the initial disclosure, during such period as the Secretary of Labor may provide) for violations of—

(A) the Fair Labor Standards Act of 1938 (29 U.S.C. 201 et seq.);

(B) the Occupational Safety and Health Act of 1970 (29 U.S.C. 651 et seq.);

(C) the Migrant and Seasonal Agricultural Worker Protection Act (29 U.S.C. 1801 et seq.);

(D) the National Labor Relations Act (29 U.S.C. 151 et seq.);

(E) subchapter IV of chapter 31 of title 40, United States Code (commonly known as the “Davis-Bacon Act”);

(F) chapter 67 of title 41, United States Code (commonly known as the “Service Contract Act”);

(G) Executive Order 11246, as amended (relating to equal employment opportunity);

(H) section 503 of the Rehabilitation Act of 1973 (29 U.S.C. 793);

(I) section 4212 of title 38, United States Code;

(J) the Family and Medical Leave Act of 1993 (29 U.S.C. 2601 et seq.);

(K) title VII of the Civil Rights Act of 1964 (42 U.S.C. 2000e et seq.);

(L) the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.);

(M) the Age Discrimination in Employment Act of 1967 (29 U.S.C. 621 et seq.);

(N) Executive Order 13658, dated February 2014, (entitled “Establishing a Minimum Wage for Contractors”); or

(O) equivalent State laws, as defined in guidance issued by the Secretary of Labor.

(4) The entity, and all contractors and subcontractors in the performance of construction or maintenance project, shall not require arbitration for any dispute involving an employee described in paragraph (5) engaged in a service for the entity or any contractor and subcontractor, or enter into any agreement with such employee requiring arbitration of any such dispute, unless such employee is covered by a collective bargaining agreement that provides otherwise.

(5) For purposes of compliance with the National Labor Relations Act (29 U.S.C. 151 et seq.), the Fair Labor Standards Act of 1938 (29 U.S.C. 201 et seq.), and the requirements under this section, the entity, and all contractors and subcontractors in the performance of any construction or maintenance project, shall consider an individual performing any service in such performance as an employee (and not an independent contractor) of the entity, contractor, or subcontractor, respectively, unless—

(A) the individual is free from control and direction in connection with the performance of the service, both under the contract for the performance of the service and in fact;

(B) the service is performed outside the usual course of the business of the entity, contractor, or subcontractor, respectively; and

(C) the individual is customarily engaged in an independently established trade, occupation, profession, or business of the same nature as that involved in such service.

(6) The entity shall prohibit all contractors and subcontractors in the performance of any construction or maintenance project from hiring employees through a temporary staffing agency unless the relevant State workforce agency certifies that temporary employees are necessary to address an acute, short-term labor demand.

(7) The entity shall require all contractors, subcontractors, successors in interest of the entity, and other entities that may acquire the entity, in the performance or acquisition of any construction or maintenance project, to have and abide by an explicit neutrality policy on any issue involving the exercise by employees of the entity as described in paragraph (5), and of all contractors and subcontractors in the performance of any construction or maintenance project, of the right to organize and bargain collectively through representatives of their own choosing.

(8) The entity shall require all contractors and subcontractors to participate in a registered apprenticeship program for each skilled craft employed on any construction or maintenance project.

(9) The entity, and all contractors and subcontractors in the performance of any construction or maintenance project, shall not request or otherwise consider the criminal history of an applicant for employment before extending a conditional offer to the applicant, unless—

(A) a background check is otherwise required by law;

(B) the position is for a Federal law enforcement officer (as defined in section 115(c)(1) of title 18, United States Code) position; or

(C) the Secretary of Labor, after consultation with the Secretary of Energy, certifies that precluding criminal history prior to the conditional offer would pose a threat to national security.

(d) **DAVIS-BACON ACT.**—The Secretary of Labor shall have, with respect to the labor standards described in subsection (d)(1), the authority and functions set forth in Reorganization Plan Numbered 14 of 1950 (64 Stat.

1267; 5 U.S.C. App.) and section 3145 of title 40, United States Code.

(e) **PERIOD OF VALIDITY FOR CERTIFICATIONS.**—A certification made under this section shall be in effect for a period of 5 years. An entity may reapply to the Secretary of Labor for an additional certification under this section in accordance with the application process under subsection (b)(2).

(f) **REVOCACTION OF QUALIFIED ENTITY STATUS.**—The Secretary of Labor may revoke the certification of an entity under this section as a qualified entity at any time in which the Secretary reasonably determines the entity is no longer in compliance with the requirements of subsection (c).

(g) **CERTIFICATION MAY COVER MORE THAN 1 SUBSTANTIALLY SIMILAR PROJECT.**—The Secretary of Labor may make certifications under this section which apply with respect to more than 1 project if the projects to which such certification apply are substantially similar projects which meet the requirements of this section. Such projects shall be treated as a specific construction or maintenance project for purposes of subsection (h)(2).

(h) **DEFINITIONS.**—In this section:

(1) **COVERED PROJECT LABOR AGREEMENT.**—The term “covered project labor agreement” means a project labor agreement that—

(A) binds all contractors and subcontractors on the construction project through the inclusion of appropriate specifications in all relevant solicitation provisions and contract documents;

(B) allows all contractors and subcontractors to compete for contracts and subcontracts without regard to whether they are otherwise a party to a collective bargaining agreement;

(C) contains guarantees against strikes, lockouts, and other similar job disruptions;

(D) sets forth effective, prompt, and mutually binding procedures for resolving labor disputes arising during the covered project labor agreement; and

(E) provides other mechanisms for labor-management cooperation on matters of mutual interest and concern, including productivity, quality of work, safety, and health.

(2) **PROJECT LABOR AGREEMENT.**—The term “project labor agreement” means a pre-hire collective bargaining agreement with one or more labor organizations that establishes the terms and conditions of employment for a specific construction project and is described in section 8(f) of the National Labor Relations Act (29 U.S.C. 158(f)).

(3) **QUALIFIED ENTITY.**—The term “qualified entity” means an applicant for certification under subsection (b) that the Secretary of Labor certifies as a qualified entity in accordance with subsection (b).

(i) **AUTHORIZATION OF APPROPRIATIONS.**—There is authorized to be appropriated to carry out this such sums as necessary for fiscal year 2020 and each fiscal year thereafter.

AMENDMENT NO. 27 OFFERED BY MR. GOLDEN OF MAINE

Page 202, line 24, strike “; and” and insert a semicolon.

Page 203, line 2, strike the semicolon and insert “; and”.

Page 203, after line 2, insert the following: (iv) biomass systems with an efficiency of 60 percent or greater;

Page 203, line 8, strike “; or” and insert a semicolon.

Page 203, line 11, strike the period at the end and insert “; or”.

Page 203, after line 11, insert the following: (F) to provide thermal energy to meet heating and cooling loads and for industrial processes.

Page 716, line 21, insert “, including the potential use of biomass CHP systems” before the semicolon.

Page 717, line 1, insert “biomass CHP,” after “technologies.”

Page 717, line 6, insert “and communities” after “organizations”.

Page 717, line 10, insert “, communities,” after “companies”.

Page 821, line 15, insert “biomass,” after “wind.”

Page 824, line 23, insert “biomass,” after “hydropower.”

AMENDMENT NO. 31 OFFERED BY MS. HAALAND OF NEW MEXICO

Page 391, line 10, strike “or”.

Page 391, line 12, strike “entities;” and insert “entities; or”.

Page 391, after line 12 insert:

(E) that does not require extraction of uranium or development of uranium from lands managed by the Federal Government, cause harm to the natural or cultural resources of Tribal communities or sovereign Native Nations, or result in degraded ground or surface water quality on publicly managed or privately owned lands;

AMENDMENT NO. 35 OFFERED BY MRS. HAYES OF CONNECTICUT

Page 536, lines 1 through 15, amend subsection (e) to read as follows:

(e) AUTHORIZATION OF APPROPRIATIONS.—Subsection (f), as redesignated, of section 741 of the Energy Policy Act of 2005 (42 U.S.C. 16091) is amended to read as follows:

“(f) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to the Administrator to carry out this section, to remain available until expended, \$130,000,000 for each of fiscal years 2021 through 2025, of which—

“(1) not less than \$100,000,000 for each such fiscal year shall be used for awards under this section to eligible recipients proposing to replace school buses with zero-emission school buses; and

“(2) not less than \$52,000,000 for each such fiscal year shall be used for awards under this section to eligible recipients proposing to replace or retrofit school buses to serve a community of color, indigenous community, low-income community, or any community located in an air quality area designated pursuant to section 107 of the Clean Air Act (42 U.S.C. 7407) as nonattainment.”

AMENDMENT NO. 36 OFFERED BY MRS. HAYES OF CONNECTICUT

Page 9, after the item relating to section 12606, insert the following:

Sec. 12607. Affirming Protections for Children and Workers.

At the end of subtitle F of Title XII, add the following:

**SEC. 12607. AFFIRMING PROTECTIONS FOR CHILDREN AND WORKERS.**

Nothing in this Act shall be construed to affect the safety and wellbeing of children in the carrying out of projects, programs, and other applicable items in this Act nor to undermine or affect the enforcement of laws relating to protections against child labor and forced labor, including—

(1) the Fair Labor Standards Act of 1938 (29 U.S.C. 201 et seq.);

(2) title 29, subtitle B, chapter V, Subchapter A, Part 570, the Child Labor Regulations, Orders, and Statements of Interpretation;

(3) article 3 of the International Labor Organization Convention concerning the prohibition and immediate action for the elimination of the worst forms of child labor (December 2, 2000), or in violation of human rights;

(4) number 182 of the International Labor Organization Convention, entitled “Worst Forms of Child Labour Convention” (1999);

(5) number 105 of the International Labor Organization Convention, entitled “Abolition of Forced Labour Convention” (1957);

(6) applicable trade laws, including trade preference programs, trade agreements and Section 307 of the Tariff Act of 1930; and

(7) Executive Order 13126, dated June 12, 1999, (entitled “Prohibition of Acquisition of Products Produced by Forced or Indentured Child Labor”).

AMENDMENT NO. 37 OFFERED BY MR. HUFFMAN OF CALIFORNIA

At the end of subtitle B of title II, add the following:

**SEC. 2208. KLAMATH HYDROELECTRIC SETTLEMENT AGREEMENT TRIBAL FAIRNESS.**

(a) DEFINITIONS.—In this section:

(1) FACILITY.—The term “facility” means 1 or more of the following hydropower facilities (including appurtenant works licensed to PacifiCorp) within the jurisdictional boundary of the Klamath Hydroelectric Project, FERC Project No. 2082 (as applicable):

- (A) Iron Gate Dam.
- (B) Copco No. 1 Dam.
- (C) Copco No. 2 Dam.
- (D) J.C. Boyle Dam.

(2) COMMISSION.—The term “Commission” means the Federal Energy Regulatory Commission.

(3) HARMED INDIAN TRIBES.—The term “harmed Indian Tribes” means—

(A) the Klamath Tribes; and

(B) such other Indian Tribes that are located downstream of the Klamath Hydroelectric Project.

(4) INDIAN TRIBE.—The term “Indian Tribe” has the meaning given the term “Indian tribe” in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5304).

(5) LICENSEE.—The term “licensee” means the owner and licensee of the facility (as of the date of enactment of this Act).

(b) IN GENERAL.—In light of the specific facts and circumstances of the Klamath Hydroelectric Settlement Agreement that anticipated dam removal to commence in 2020, and to mitigate the historic and ongoing damages caused by the facility to aquatic and Tribal trust resources, the Commission shall not issue any annual license for the facility under section 15(a)(1) of the Federal Power Act (16 U.S.C. 808(a)(1)) unless the Commission has provided harmed Indian Tribes and the States of California and Oregon the opportunity to recommend terms and conditions under section 4(e), section 10, and section 18 of the Federal Power Act (16 U.S.C. 797(e), 803, and 811), including any conditions providing for fishways or fish recovery.

(c) STUDIES.—Upon approval of an annual license pursuant to subsection (b), the Commission shall require the licensee to provide to the Commission the following:

(1) A study describing the impacts of the facility during the previous year on instream flows, water use, water temperature, and water quality.

(2) A study describing the impacts of the facility during the previous year on fish and wildlife resources, including river fisheries, reservoir fisheries, anadromous fish, and any marine species listed as a threatened species or endangered species under the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.) including Southern Resident killer whales (*Orcinus orca*).

(3) A study describing the impacts of the facility during the previous year on sediment transport.

(4) A study forecasting the impacts of climate change to power generation at the facility.

(5) A certification from the California Department of Water Resources, Division of Safety of Dams, following one or more com-

prehensive studies of the stability and safety of the facility that are funded by the licensee, that each element of the facility meets all current Federal and State seismic, stability, and safety standards and that there will be no significant risk of dam failure during the term of the license.

(6) A report, to be made publicly available by the Commission, on the financial status of the facility, including—

(A) an analysis comparing the cost of power generated at the facility to revenue attributable to the facility during the preceding year;

(B) a projection of the cost of power generated at the facility and the revenue attributable to the facility during the 5-year period beginning on the date of the license;

(C) an explanation of whether the financial terms of the Klamath Hydroelectric Settlement Agreement, as amended, have been met; and

(D) a detailed description of the annual costs associated with the facility that are passed through to the ratepayers of the licensee.

(d) EXCEPTION.—The requirements of this section shall not apply to any entity filing a surrender application as specified in the Commission’s order relating to the facility dated July 16, 2020 (172 FERC 61,062).

(e) LEGAL CLAIMS.—Nothing in this section shall be construed to adversely affect any legal claims of harmed Indian Tribes, including claims for violations of any Executive Order pertaining to one or more Indian Tribes, any treaty between the United States and one or more Indian Tribes, or for damages caused by the facility under the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.) or the Marine Mammal Protection Act of 1972 (16 U.S.C. 1361 et seq.). Such claims shall not be limited by any statute of limitations.

AMENDMENT NO. 38 OFFERED BY MS. KUSTER OF NEW HAMPSHIRE

Page 823, line 21, strike “\$20,000,000” and insert “\$40,000,000”.

AMENDMENT NO. 43 OFFERED BY MRS. LEE OF NEVADA

Amend subtitle C of title II to read as follows:

**Subtitle C—Distributed Renewable Energy**

**SEC. 2301. DEFINITIONS.**

In this subtitle:

(1) AUTHORITY HAVING JURISDICTION.—The term “authority having jurisdiction” means any State, county, local, or Tribal office or official with jurisdiction—

(A) to issue permits;

(B) to conduct inspections to enforce the requirements of a relevant code or standard; or

(C) to approve the installation of, or the equipment and materials used in the installation of, qualifying distributed energy systems.

(2) DISTRIBUTED ENERGY SYSTEM INSTALLER.—The term “distributed energy system installer” means an entity or individual—

(A) with knowledge and skills relating to—

(i) the construction and operation of the equipment used in qualifying distributed energy systems; and

(ii) the installation of qualifying distributed energy systems; and

(B) that has employed safety training to recognize and avoid the hazards involved in constructing, operating, and installing qualifying distributed energy systems.

(3) QUALIFYING DISTRIBUTED ENERGY SYSTEM.—The term “qualifying distributed energy system” means any equipment or materials installed in, on, or near a residential, commercial, or industrial building to support onsite or local energy use, including—

(A) to generate electricity from distributed renewable energy sources, including from—

- (i) solar photovoltaic modules or similar solar energy technologies;
- (ii) wind power systems; and
- (iii) hydrogen electrolysis and fuel cell systems;

(B) to store and discharge electricity from batteries with a capacity of at least 2 kilowatt hours;

(C) to charge a plug-in electric drive vehicle at a power rate of at least 2 kilowatts;

(D) to refuel a fuel cell electric vehicle; or

(E) to generate electricity from fuel cell systems with a capacity of at least 2 kilowatt hours.

(4) SECRETARY.—The term “Secretary” means the Secretary of Energy.

**SEC. 2302. ESTABLISHMENT OF PROGRAM TO FACILITATE VOLUNTARY STREAMLINED PROCESS FOR LOCAL PERMITTING OF QUALIFYING DISTRIBUTED ENERGY SYSTEMS.**

(a) IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Secretary, in consultation with trade associations and other entities representing distributed energy system installers and organizations representing State, local, and Tribal governments engaged in permitting, shall establish and carry out a program to establish a voluntary streamlined permitting process for local permitting and inspection of qualifying distributed energy systems, in concert with relevant national consensus-based codes and specifications and standards referenced therein.

(b) ACTIVITIES OF THE PROGRAM.—In carrying out the program established under subsection (a), the Secretary shall—

(1) facilitate the development and maintenance of a streamlined permitting process that includes a national online permitting platform for expediting, standardizing, and streamlining permitting, that authorities having jurisdiction may use to receive, review, and approve permit applications relating to qualifying distributed energy systems;

(2) establish a model expedited permit-to-build protocol for qualifying distributed energy systems;

(3) provide technical assistance to authorities having jurisdiction on using and adopting—

(A) the streamlined permitting process described in paragraph (1); and

(B) the model expedited permit-to-build protocol described in paragraph (2);

(4) develop and maintain a voluntary national inspection protocol integrated with the national online permitting system described in paragraphs (1) and (2) and related tools to expedite, standardize, and streamline the inspection of qualifying distributed energy systems, including—

(A) by investigating the potential for using remote inspections; and

(B) by investigating the potential for sample-based inspection for distributed energy system installers with a demonstrated track record of high-quality work; and

(5) take any other action to expedite, standardize, streamline, or improve the process for permitting, inspecting, or interconnecting qualifying distributed energy systems.

(c) SUPPORT SERVICES.—The Secretary shall—

(1) provide technical assistance to authorities having jurisdiction, any administrator of a national online permitting platform, government software providers, and any other entity determined appropriate by the Secretary in carrying out the activities described in subsection (b); and

(2) provide such financial assistance as the Secretary determines appropriate from any funds appropriated to carry out this subtitle.

**SEC. 2303. DISTRIBUTED ENERGY OPPORTUNITY COMMUNITIES.**

(a) IN GENERAL.—The Secretary shall recognize and certify certain communities as “Distributed Energy Opportunity Communities”.

(b) QUALIFICATIONS.—The Secretary may certify a State, local community, or Tribe as a “Distributed Energy Opportunity Community” if that State, local community, or Tribe has adopted and implemented the model expedited permit-to-build protocol established under the program established under section 2302.

(c) PROCESS.—The Secretary may confer a certification under subsection (a) through existing programs of the Department of Energy.

(d) GRANTS.—The Secretary may award competitive grants, using funds appropriated to the Secretary to carry out this subtitle, to encourage communities to adopt the model expedited permit-to-build protocol and the standardized inspection process established under the program established under section 2302.

**SEC. 2304. AUTHORIZATION OF APPROPRIATIONS.**

There is authorized to be appropriated to the Secretary to carry out this subtitle \$20,000,000 for each of fiscal years 2021 through 2025.

**AMENDMENT NO. 44 OFFERED BY MR. LEVIN OF MICHIGAN**

Page 543, line 5, strike “or” at the end.

Page 543, after line 5, insert the following:

(B) a community in which climate change, pollution, or environmental destruction have exacerbated systemic racial, regional, social, environmental, and economic injustices by disproportionately affecting indigenous peoples, communities of color, migrant communities, deindustrialized communities, depopulated rural communities, the poor, low-income workers, women, the elderly, the unhoused, people with disabilities, or youth; or

Page 543, line 6, strike “(B)” and insert “(C)”.

Page 544, line 17, strike “equipment.” and insert “equipment, including accessibility in compliance with the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.).”.

Page 546, line 14, strike “and” at the end.

Page 546, after line 14, insert the following:

(v) an identification of any existing electric vehicle supply equipment that—

(I) is available to the public for a minimum of 12 hours per day; and

(II) is not further than 50 miles from the global positioning system location identified under clause (iii); and

Page 546, line 15, strike “(v)” and insert “(vi)”.

Page 561, beginning on line 6, strike “electric vehicles nationwide;” and insert “electric vehicles nationwide, taking into consideration range anxiety and the location of charging infrastructure to ensure an electric vehicle can travel throughout the United States without losing a charge;”.

Page 567, line 23, strike “including commercial vehicles; and” and insert “including commercial vehicles, to an extent that such electric vehicles can travel throughout the State without running out of a charge; and”.

Page 567, line 24, strike “electric grid” and insert “electric grid, including through the use of renewable energy sources to power the electric grid.”.

**AMENDMENT NO. 45 OFFERED BY MR. LEVIN OF MICHIGAN**

Page 830, after line 5, insert the following:

**PART 3—MEASURING GREEN COLLAR JOB DEVELOPMENT**

**SEC. 12121. MEASURING GREEN JOBS.**

(a) IN GENERAL.—The Secretary of Labor, in consultation with the Secretary of En-

ergy, and acting through the Bureau of Labor Statistics, where appropriate, shall collect and analyze labor market data to track workforce trends resulting from renewable energy and energy efficiency technology initiatives carried out under this section. Activities carried out under this section shall include the following:

(1) Tracking and documentation of academic and occupational competencies as well as future skill needs with respect to renewable energy and energy efficiency technology.

(2) Tracking and documentation of occupational information and workforce training data with respect to renewable energy and energy efficiency technology.

(3) Collaborating with State agencies, workforce investments boards, industry, organized labor, and community and nonprofit organizations to disseminate information on successful innovations for labor market services and worker training with respect to renewable energy and energy efficiency technology.

(4) Serving as a clearinghouse for best practices in workforce development, job placement and collaborative training partnerships.

(5) Encouraging the establishment of workforce training initiatives with respect to renewable energy and energy efficiency technologies.

(6) Linking research and development in renewable energy and energy efficiency technology with the development of standards and curricula for current and future jobs.

(7) Assessing new employment and work practices including career ladder and upgrade training as well as high performance work systems.

(8) Providing technical assistance and capacity building to national and State energy partnerships, including industry and labor representatives.

(b) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated to carry out this section \$10,000,000 for each fiscal year 2021 through 2025.

Page 9, after the matter relating to section 12113, insert the following

**PART 3—MEASURING GREEN COLLAR JOB DEVELOPMENT**

Sec. 12121. Measuring green jobs

**AMENDMENT NO. 48 OFFERED BY MR. LOEBACK OF IOWA**

Add at the end of part 3 of subtitle A of title I the following:

**SEC. 1122. GRANTS FOR ENERGY EFFICIENCY IMPROVEMENTS AND RENEWABLE ENERGY IMPROVEMENTS AT PUBLIC SCHOOL FACILITIES.**

(a) DEFINITIONS.—In this section:

(1) ELIGIBLE ENTITY.—The term “eligible entity” means a consortium of—

(A) one local educational agency; and

(B) one or more—

(i) schools;

(ii) nonprofit organizations;

(iii) for-profit organizations; or

(iv) community partners that have the knowledge and capacity to partner and assist with energy improvements.

(2) ENERGY IMPROVEMENTS.—The term “energy improvements” means—

(A) any improvement, repair, or renovation, to a school that will result in a direct reduction in school energy costs including but not limited to improvements to building envelope, air conditioning, ventilation, heating system, domestic hot water heating, compressed air systems, distribution systems, lighting, power systems and controls;

(B) any improvement, repair, renovation, or installation that leads to an improvement in teacher and student health including but not limited to indoor air quality,

daylighting, ventilation, electrical lighting, and acoustics; and

(C) the installation of renewable energy technologies (such as wind power, photovoltaics, solar thermal systems, geothermal energy, hydrogen-fueled systems, biomass-based systems, biofuels, anaerobic digesters, and hydropower) involved in the improvement, repair, or renovation to a school.

(b) AUTHORITY.—From amounts made available for grants under this section, the Secretary of Energy shall provide competitive grants to eligible entities to make energy improvements authorized by this section.

(c) PRIORITY.—In making grants under this section, the Secretary shall give priority to eligible entities that have renovation, repair, and improvement funding needs and are—

(1) a high-need local educational agency, as defined in section 2102 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 6602); or

(2) a local educational agency designated with a metrocentric locale code of 41, 42, or 43, as determined by the National Center for Education Statistics (NCES), in conjunction with the Bureau of the Census, using the NCES system for classifying local educational agencies.

(d) COMPETITIVE CRITERIA.—The competitive criteria used by the Secretary shall include the following:

(1) The fiscal capacity of the eligible entity to meet the needs for improvements of school facilities without assistance under this section, including the ability of the eligible entity to raise funds through the use of local bonding capacity and otherwise.

(2) The likelihood that the local educational agency or eligible entity will maintain, in good condition, any facility whose improvement is assisted.

(3) The potential energy efficiency and safety benefits from the proposed energy improvements.

(e) APPLICATIONS.—To be eligible to receive a grant under this section, an applicant must submit to the Secretary an application that includes each of the following:

(1) A needs assessment of the current condition of the school and facilities that are to receive the energy improvements.

(2) A draft work plan of what the applicant hopes to achieve at the school and a description of the energy improvements to be carried out.

(3) A description of the applicant's capacity to provide services and comprehensive support to make the energy improvements.

(4) An assessment of the applicant's expected needs for operation and maintenance training funds, and a plan for use of those funds, if any.

(5) An assessment of the expected energy efficiency and safety benefits of the energy improvements.

(6) A cost estimate of the proposed energy improvements.

(7) An identification of other resources that are available to carry out the activities for which funds are requested under this section, including the availability of utility programs and public benefit funds.

(f) USE OF GRANT AMOUNTS.—

(1) IN GENERAL.—The recipient of a grant under this section shall use the grant amounts only to make the energy improvements contemplated in the application, subject to the other provisions of this subsection.

(2) OPERATION AND MAINTENANCE TRAINING.—The recipient may use up to 5 percent 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) AUDIT.—The recipient may use funds for a third-party investigation and analysis for energy improvements (such as energy audits and existing building commissioning).

(4) CONTINUING EDUCATION.—The recipient may use up to 1 percent of the grant amounts to develop a continuing education curriculum relating to energy improvements.

(g) CONTRACTING REQUIREMENTS.—

(1) DAVIS-BACON.—Any laborer or mechanic employed by any contractor or subcontractor in the performance of work on any energy improvements funded by a grant under this section shall be paid wages at rates not less than those prevailing on similar construction in the locality as determined by the Secretary of Labor under subchapter IV of chapter 31 of title 40, United States Code (commonly referred to as the Davis-Bacon Act).

(2) COMPETITION.—Each applicant that receives funds shall ensure that, if the applicant carries out repair or renovation through a contract, any such contract process—

(A) ensures the maximum number of qualified bidders, including small, minority, and women-owned businesses, through full and open competition; and

(B) gives priority to businesses located in, or resources common to, the State or the geographical area in which the project is carried out.

(h) REPORTING.—Each recipient of a grant under this section shall submit to the Secretary, at such time as the Secretary may require, a report describing the use of such funds for energy improvements, the estimated cost savings realized by those energy improvements, the results of any audit, the use of any utility programs and public benefit funds and the use of performance tracking for energy improvements (such as the Department of Energy: Energy Star program or LEED for Existing Buildings).

(i) BEST PRACTICES.—The Secretary shall develop and publish guidelines and best practices for activities carried out under this section.

(j) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section \$100,000,000 for each of fiscal years 2021 through 2025.

AMENDMENT NO. 52 OFFERED BY MR. LUJÁN OF NEW MEXICO

After section 2401 insert the following:

**SEC. 2402. ESTABLISHMENT OF COMMUNITY SOLAR PROGRAMS.**

(a) IN GENERAL.—Section 111(d) of the Public Utility Regulatory Policies Act of 1978 (16 U.S.C. 2621(d)) is amended by adding at the end the following:

“(21) COMMUNITY SOLAR PROGRAMS.—Each electric utility shall offer a community solar program that provides all ratepayers, including low-income ratepayers, equitable and demonstrable access to such community solar program. For the purposes of this paragraph, the term ‘community solar program’ means a service provided to any electric consumer that the electric utility serves through which the value of electricity generated by a community solar facility may be used to offset charges billed to the electric consumer by the electric utility. A ‘community solar facility’ is—

“(A) a solar photovoltaic system that allocates electricity to multiple electric consumers of an electric utility;

“(B) connected to a local distribution of the electric utility;

“(C) located either on or off the property of the electric consumers; and

“(D) may be owned by an electric utility, an electric consumer, or a third party.”.

(b) COMPLIANCE.—

(1) TIME LIMITATIONS.—Section 112(b) of the Public Utility Regulatory Policies Act of 1978 (16 U.S.C. 2622(b)) is amended by adding at the end the following:

“(8)(A) Not later than 1 year after the date of enactment of this paragraph, each State regulatory authority (with respect to each electric utility for which the State has rate-making authority) and each nonregulated electric utility shall commence consideration under section 111, or set a hearing date for consideration, with respect to the standard established by paragraph (21) of section 111(d).

“(B) Not later than 2 years after the date of enactment of this paragraph, each State regulatory authority (with respect to each electric utility for which the State has rate-making authority), and each nonregulated electric utility shall complete the consideration and make the determination under section 111 with respect to the standard established by paragraph (21) of section 111(d).”.

(2) FAILURE TO COMPLY.—

(A) IN GENERAL.—Section 112(c) of the Public Utility Regulatory Policies Act of 1978 (16 U.S.C. 2622(c)) is amended—

(i) by striking “such paragraph (14)” and all that follows through “paragraphs (16)” and inserting “such paragraph (14). In the case of the standard established by paragraph (15) of section 111(d), the reference contained in this subsection to the date of enactment of this Act shall be deemed to be a reference to the date of enactment of that paragraph (15). In the case of the standards established by paragraphs (16)”; and

(ii) by adding at the end the following: “In the case of the standard established by paragraph (21) of section 111(d), the reference contained in this subsection to the date of enactment of this Act shall be deemed to be a reference to the date of enactment of that paragraph (21).”.

(B) TECHNICAL CORRECTION.—

(i) IN GENERAL.—Section 1254(b) of the Energy Policy Act of 2005 (Public Law 109-58; 119 Stat. 971) is amended—

(I) by striking paragraph (2); and

(II) by redesignating paragraph (3) as paragraph (2).

(ii) TREATMENT.—The amendment made by paragraph (2) of section 1254(b) of the Energy Policy Act of 2005 (Public Law 109-58; 119 Stat. 971) (as in effect on the day before the date of enactment of this Act) is void, and section 112(d) of the Public Utility Regulatory Policies Act of 1978 (16 U.S.C. 2622(d)) shall be in effect as if those amendments had not been enacted.

(3) PRIOR STATE ACTIONS.—

(A) IN GENERAL.—Section 112 of the Public Utility Regulatory Policies Act of 1978 (16 U.S.C. 2622) is amended by adding at the end the following:

“(h) PRIOR STATE ACTIONS.—Subsections (b) and (c) shall not apply to the standard established by paragraph (21) of section 111(d) in the case of any electric utility in a State if, before the date of enactment of this subsection—

“(1) the State has implemented for the electric utility the standard (or a comparable standard);

“(2) the State regulatory authority for the State or the relevant nonregulated electric utility has conducted a proceeding to consider implementation of the standard (or a comparable standard) for the electric utility; or

“(3) the State legislature has voted on the implementation of the standard (or a comparable standard) for the electric utility.”.

(B) CROSS-REFERENCE.—Section 124 of the Public Utility Regulatory Policies Act of



1978 (16 U.S.C. 2634) is amended by adding at the end the following: "In the case of the standard established by paragraph (21) of section 111(d), the reference contained in this subsection to the date of enactment of this Act shall be deemed to be a reference to the date of enactment of that paragraph (21)."

Page 562, line 3, strike "(21)" and insert "(22)".

Page 563, line 18, strike "(8)" and insert "(9)".

Page 563, line 25, strike "(21)" and insert "(22)".

Page 564, line 8, strike "(21)" and insert "(22)".

Page 564, line 14, strike "(21)" and insert "(22)".

Page 564, line 22, strike "(h)" and insert "(i)".

Page 564, line 24, strike "(21)" and insert "(22)".

Page 565, line 20, strike "(21)" and insert "(22)".

Page 565, line 24, strike "(21)" and insert "(22)".

AMENDMENT NO. 55 OFFERED BY MR. NORCROSS OF NEW JERSEY

At the end of subtitle H of title I, add the following:

**SEC. 1806. REBATE PROGRAM FOR ENERGY EFFICIENT ELECTROTECHNOLOGIES.**

(a) DEFINITIONS.—In this section:

(1) ENERGY EFFICIENT ELECTROTECHNOLOGY.—The term "energy efficient electrotechnology" means—

(A) any electric technology that, when used instead of a fossil fuel-fired technology in an industrial process results in—

(i) energy efficiency, or production efficiency, gains; or

(ii) environmental benefits; or

(B) any electric technology that, when used instead of a fossil fuel-fired technology in an industrial application results in—

(i) improvements in on-site logistics or material handling; and

(ii) energy efficiency gains and environmental benefits.

(2) QUALIFIED ENTITY.—The term "qualified entity" means an industrial or manufacturing facility, commercial building, or a utility or energy service company.

(3) SECRETARY.—The term "Secretary" means the Secretary of Energy.

(b) ESTABLISHMENT.—Not later than 90 days after the date of enactment of this Act, the Secretary shall establish a program to provide rebates in accordance with this section.

(c) REBATES.—The Secretary may provide a rebate under the program established under subsection (b) to the owner or operator of a qualified entity for expenditures made by the owner or operator of the qualified entity for an energy efficient electrotechnology that is used to replace a fossil fuel-fired technology.

(d) REQUIREMENTS.—To be eligible to receive a rebate under this section, the owner or operator of a qualified entity shall submit to the Secretary an application demonstrating—

(1) that the owner or operator of the qualified entity purchased an energy efficient electrotechnology;

(2) the energy efficiency gains, production efficiency gains, and environmental benefits, as applicable, resulting from use of the energy efficient electrotechnology—

(A) as measured by a qualified professional or verified by the energy efficient electrotechnology manufacturer, as applicable; or

(B) as determined by the Secretary;

(3) that the fossil fuel-fired technology replaced by the energy efficient electrotechnology has been permanently decommissioned and scrapped; and

(4) that all laborers and mechanics who were involved in the installation or maintenance, or construction or renovation to support such installation or maintenance, of the energy efficient electrotechnology, or the decommissioning and scrapping of the fossil fuel-fired technology replaced by the energy efficient electrotechnology, and who were employed by the owner or operator of the qualified entity, or contractors or subcontractors at any tier thereof, were paid wages at rates not less than those prevailing on projects of a character similar in the locality as determined by the Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40, United States Code (commonly referred to as the "Davis-Bacon Act").

(e) LIMITATION.—The Secretary may not provide a rebate under the program established under subsection (b) to an owner or operator of a qualified entity for expenditures made by the owner or operator of the qualified entity for an energy efficient electrotechnology that is used to replace a fossil fuel-fired technology if the Secretary determines that such expenditures were necessary for the owner or operator to comply with Federal or State law.

(f) AUTHORIZED AMOUNT OF REBATE.—The amount of a rebate provided under this section shall be not less than 30 percent, and not more than 50 percent, of the overall cost of the energy efficient electrotechnology, including installation costs.

(g) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section \$100,000,000 for each of fiscal years 2021 through 2025.

AMENDMENT NO. 56 OFFERED BY MR. NORCROSS OF NEW JERSEY

Page 36, line 5, strike "and" at the end.

Page 36, strike line 13, and insert "(including multifamily buildings); and".

Page 36, after line 13, insert the following:

"(F) to make an addition or alteration to, or to install, replace, or provide maintenance to, an air filtration and purification system of an HVAC system to meet exigencies related to the airborne epidemic transmissions of SARS-4CoV-2 or coronavirus disease 2019 (COVID-19)."

Page 37, line 1, strike "(e)" and insert "(f)".

Page 36, after line 25, insert the following:

"(e) PREVAILING WAGES.—All laborers and mechanics employed by contractors or subcontractors in the performance of construction, alteration, or repair work assisted, in whole or in part, by a grant under this section shall be paid wages at rates not less than those prevailing on similar construction in the locality as determined by the Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40. With respect to the labor standards in this subsection, the Secretary of Labor shall have the authority and functions set forth in Reorganization Plan Numbered 14 of 1950 (64 Stat. 1267; 5 U.S.C. App.) and section 3145 of title 40."

AMENDMENT NO. 58 OFFERED BY MR. O'HALLERAN OF ARIZONA

Add at the end of subtitle F of title XII the following:

**SEC. 12607. RURAL AND REMOTE COMMUNITIES ELECTRIFICATION GRANTS.**

(a) IN GENERAL.—Section 609 of the Public Utility Regulatory Policies Act (7 U.S.C. 918c) is amended—

(1) in subsection (a)—

(A) in paragraph (1), by striking "or municipality" and inserting ", municipality, or Indian Tribe";

(B) in paragraph (5), by striking "10,000" and inserting "20,000"; and

(C) by adding at the end the following:

"(6) The term 'economically distressed community' means a unit of local government, an Indian Tribe, or a political subdivision thereof, that is significantly impacted by the closure occurring on or after January 1, 2010, of an electric generating station that primarily consumes coal as a fuel source, including by the loss of—

"(A) employment directly from or associated with the electric generating station, including an associated mine;

"(B) tax revenue, lease payments, or royalties directly from or associated with the electric generating station; or

"(C) access to affordable energy.";

(2) in subsection (b), by inserting "or economically distressed communities" after "rural areas" each place it appears; and

(3) in subsection (d)—

(A) by striking "\$20,000,000" and inserting "\$50,000,000"; and

(B) by striking "2006 through 2012" and inserting "2021 through 2025".

AMENDMENT NO. 59 OFFERED BY MR.

O'HALLERAN OF ARIZONA

Add at the end of subtitle F of title XII the following:

**SEC. 12607. COAL COMMUNITY RESOURCE CLEARINGHOUSE.**

(a) ESTABLISHMENT.—Not later than 180 days after the date of enactment of this Act, the Secretary of Energy shall publish, maintain, and make publicly available a clearinghouse, to be known as the "Coal Community Resource Clearinghouse", on the website of the Department of Energy for the purpose of increasing awareness of Federal and State programs, grants, loans, loan guarantees, and other assistance resources the Secretary determines will assist economic development activities in economically distressed communities.

(b) PERIODIC UPDATES.—In carrying out subsection (a), the Secretary shall, not less frequently than once per calendar year, update the Coal Community Resource Clearinghouse to address changes to the needs of economically distressed communities.

(c) ECONOMICALLY DISTRESSED COMMUNITY DEFINED.—The term "economically distressed community" means a unit of local government, an Indian Tribe, or a political subdivision thereof, that is significantly impacted by the closure occurring on or after January 1, 2010, of an electric generating station that primarily consumes coal as a fuel source, including by the loss of—

(1) employment directly from or associated with the electric generating station, including an associated mine;

(2) tax revenue, lease payments, or royalties directly from or associated with the electric generating station; or

(3) access to affordable energy.

AMENDMENT NO. 60 OFFERED BY MS. OMAR OF MINNESOTA

Add at the end of title XII the following:

**Subtitle G—Zeroing Excess, Reducing Organic Waste, and Sustaining Technical Expertise**

**SEC. 12701. GRANT PROGRAM.**

(a) IN GENERAL.—The Administrator shall establish and carry out a program to award grants, on a competitive basis, to eligible entities for projects that are consistent with zero-waste practices.

(b) GRANT USE.—

(1) ORGANICS RECYCLING INFRASTRUCTURE.—An eligible entity receiving a grant under this subtitle may use grant funds to carry out a project relating to organics recycling infrastructure, including facilities, machinery, equipment, and other physical necessities required for organics collection or processing on a city-wide or county-wide scale, provided that—

(A) implementation of such project—

(i) results in increased capacity for residential and commercial source separated organics streams; and

(ii) generates a usable product that has demonstrable environmental benefits when compared to the input materials, such as compost with added nutritional content; and

(B) such project does not include mixed-waste composting.

(2) **ELECTRONIC WASTE REUSE AND RECYCLING.**—An eligible entity receiving a grant under this subtitle may use grant funds to carry out a project relating to electronic waste reuse or recycling, including infrastructure and technology, research and development, and product refurbishment, provided that such project—

(A) does not include an electronic waste “buy-back” program that provides compensation for used electronics where such compensation is applied as a credit toward the purchase of additional electronics; and

(B) is carried out by an organization certified in sustainable electronic waste standards by an organization accredited by the National Accreditation Board of the American National Standards Institute & The American Society of Quality, or another accrediting body as determined appropriate by the Administrator.

(3) **SOURCE REDUCTION.**—An eligible entity receiving a grant under this subtitle may use grant funds to carry out a project relating to source reduction, and such project may include—

(A) educational programming and outreach activities to encourage behavioral changes in consumers that result in source reduction; and

(B) product or manufacturing redesign or redevelopment to reduce byproducts, packaging, and other outputs if—

(i) the applicable manufacturer—

(I) is domestically-owned and operated; and

(II) pays a living wage; and

(ii) the redevelopment or redesign does not result in higher toxicity of the product or byproducts, more complicated recyclability of the product or byproducts, or increased volume of byproducts compared with the original practice.

(4) **MARKET DEVELOPMENT.**—An eligible entity receiving a grant under this subtitle may use grant funds to carry out a project relating to market development with respect to source reduction and waste prevention, including by creating demand for sorted recyclable commodities and refurbished goods and promoting domestically-owned and operated manufacturing for projects relating to source reduction or waste prevention, provided that such project—

(A) targets easily or commonly recycled materials which are disproportionately disposed of in landfills or incinerated;

(B) addresses the reduction of the volume, weight, or toxicity of waste and waste byproducts; and

(C) does not conflict with—

(i) minimum-content laws, such as post-consumer recycled content requirements;

(ii) beverage container deposits;

(iii) programs funded through retail fees for specific products or classes of products that use such fees to collect, treat, or recycle such products; or

(iv) any applicable recycled product procurement laws and expanded sustainable government purchasing requirements, as identified by the Administrator.

#### SEC. 12702. GRANT AWARDS.

(a) **APPLICATION.**—

(1) **CRITERIA FOR ALL APPLICANTS.**—To be eligible to receive a grant under this subtitle, an eligible entity shall submit to the

Administrator an application at such time and in such form as the Administrator requires, demonstrating that the eligible entity—

(A) has set specific source reduction or waste prevention targets;

(B) will carry out such project in communities that are in the 80th percentile or higher for one or more pollutants as noted in the EJSSCREEN tool, or any successor system, of the Environmental Protection Agency; and

(C) will carry out a project that meets the applicable project requirements under section 12701(b).

(2) **ADDITIONAL APPLICATION CRITERIA FOR NONPROFIT ORGANIZATION.**—In the case of an application from an eligible entity that is a nonprofit organization, the application shall include a letter of support for the proposed project—

(A) from—

(i) a local unit of government; or—

(ii) a nonprofit organization that—

(I) has a demonstrated history of undertaking work in the geographic region where the proposed project is to take place; and

(II) is not involved in the project being proposed; and

(B) containing such information as the Administrator may require.

(b) **PRIORITY FACTORS.**—

(1) **IN GENERAL.**—In awarding grants under this subtitle, the Administrator shall give priority to eligible entities that—

(A) have statutorily committed to implementing zero-waste practices;

(B) demonstrate how the project to be carried out with grant funds could lead to the creation of new jobs that pay a living wage, with preference for projects that create jobs for individuals with barriers to employment, as determined by the Administrator;

(C) will use grant funds for source reduction or waste prevention in schools;

(D) will use grant funds to employ adaptive management practices to identify, prevent, or address any negative environmental consequences of the proposed project;

(E) have a demonstrated need for additional investment in infrastructure and projects to achieve source reduction and waste prevention targets set by the local unit of government that is responsible for waste and recycling projects in the geographic area;

(F) will use grant funds to develop innovative or new technologies and strategies for source reduction and waste prevention;

(G) demonstrate how receiving the grant will encourage further investment in source reduction and waste prevention projects; or

(H) will incorporate multi-stakeholder involvement, including nonprofit, commercial, and public sector partners, in carrying out a project using grant funds.

(2) **ZERO-WASTE HIERARCHY.**—In determining priority between multiple eligible entities who qualify for priority under paragraph (1), the Administrator shall grant first priority to an eligible entity that can demonstrate how the zero-waste hierarchy was considered with respect to the project to be carried out with grant funds.

#### SEC. 12703. REPORTING.

An eligible entity receiving a grant under this subtitle shall report to the Administrator, at such time and in such form as the Administrator may require, on the results of the project carried out with grant funds and any relevant data requested by the Administrator to track the effectiveness of the program established under section 12701(a).

#### SEC. 12704. ANNUAL CONFERENCE.

In each of calendar years 2022 through 2027, the Administrator shall convene an annual conference for eligible entities, including eligible entities that have received a grant

under this subtitle, and other stakeholders as identified by the Administrator, to provide an opportunity for such eligible entities and stakeholders to share experience and expertise in implementing zero-waste practices.

#### SEC. 12705. DEFINITIONS.

In this subtitle:

(1) **ADAPTIVE MANAGEMENT PRACTICES.**—The term “adaptive management practices” means, with respect to a project, the integration of project design, management, and monitoring to identify project impacts and outcomes as they arise and adjust behaviors to improve outcomes.

(2) **ADMINISTRATOR.**—The term “Administrator” means the Administrator of the Environmental Protection Agency.

(3) **DOMESTICALLY-OWNED AND OPERATED.**—The term “domestically-owned and operated” means, with respect to a business, a business with—

(A) headquarters located within the United States; and

(B) primary operations carried out in the United States.

(4) **ELIGIBLE ENTITY.**—The term “eligible entity” means—

(A) a single unit of State, local, or Tribal government;

(B) a consortium of multiple units of State, local, or Tribal government;

(C) one or more units of State, local, or Tribal government in coordination with for-profit or nonprofit organizations; or

(D) one or more incorporated nonprofit organizations.

(5) **EMBODIED ENERGY.**—The term “embodied energy” means energy that was used to create a product or material.

(6) **LIVING WAGE.**—The term “living wage” means the minimum income necessary to allow a person working 40 hours per week to afford the cost of housing, food, and other material necessities.

(7) **ORGANICS RECYCLING.**—The term “organics recycling” means the biological processes by which organics streams are converted to compost which is not harmful to humans, plants, or animals.

(8) **RECYCLING.**—The term “recycling”—

(A) means the mechanical processing of material that has reached the end of its current use into material to be used in the production of new products;

(B) does not include incineration or any other energy recovery process; and

(C) does not include depolymerization or a similar process.

(9) **REUSE.**—The term “reuse”—

(A) means—

(i) using a product, packaging, or resource more than once for the same or a new function with little to no processing; or

(ii) repairing a product so it can be used longer, sharing or renting it, or selling or donating it to another party; and

(B) does not include incineration.

(10) **SOURCE REDUCTION.**—The term “source reduction”—

(A) includes—

(i) activities that reduce consumption of products or services that create physical outputs, such as packaging, that is secondary to the intended use of the item being consumed;

(ii) measures or techniques that reduce the amount of waste generated during production processes; and

(iii) the reduction or elimination of the use of materials which are not able to be recycled without degrading the quality of the material; and

(B) does not include incineration.

(11) **SOURCE SEPARATED.**—The term “source separated”—

(A) means the separation of a stream of recyclable materials at the point of waste creation before the materials are collected and centralized; and

(B) does not include technologies that sort mixed municipal solid waste into recyclable and non-recyclable materials.

(12) WASTE PREVENTION.—The term “waste prevention” includes reuse, recycling, and other methods to reduce the amount of materials disposed of in landfills or incinerated.

(13) ZERO-WASTE.—The term “zero-waste” means the conservation of all resources by means of responsible production, consumption, reuse, and recovery of products, packaging, and materials without burning or otherwise destroying embodied energy, with no discharges to land, water, or air that threaten the environment or human health.

(14) ZERO-WASTE PRACTICE.—The term “zero-waste practice” means a practice used to help achieve zero-waste, including source reduction and waste prevention.

**SEC. 12706. AUTHORIZATION OF APPROPRIATIONS.**

There is authorized to be appropriated to the Administrator to carry out this subtitle \$250,000,000 for the period of fiscal years 2021 through 2028.

AMENDMENT NO. 61 OFFERED BY MS. OMAR OF MINNESOTA

Add at the end of subtitle F of title XII the following:

**SEC. 12607. REPORT ON FOSSIL FUEL SUBSIDIES.**

The Secretary of the Treasury, in consultation with other relevant departments and agencies, shall submit to Congress a report that contains—

(1) an identification of any existing fossil fuel production subsidies not eliminated by this Act, or the amendments made by this Act; and

(2) a quantification of the economic costs of such subsidies.

AMENDMENT NO. 65 OFFERED BY MR. PETERS OF CALIFORNIA

At the end of title III, add the following:

**Subtitle D—Interagency Task Force on Short-Lived Climate Pollutant Mitigation**

**SEC. 3401. INTERAGENCY TASK FORCE ON SHORT-LIVED CLIMATE POLLUTANT MITIGATION.**

(a) ESTABLISHMENT.—Not later than 90 days after the date of enactment of this Act, the President shall establish a task force, to be known as the Interagency Task Force on Short-Lived Climate Pollutant Mitigation.

(b) MEMBERSHIP.—The members of the Task Force shall include the head (or a designee thereof) of each of—

- (1) the Department of Agriculture;
- (2) the Department of Commerce;
- (3) the Department of Defense;
- (4) the Department of Energy;
- (5) the Department of Health and Human Services;
- (6) the Department of the Interior;
- (7) the Department of State;
- (8) the Department of Transportation;
- (9) the Environmental Protection Agency;
- (10) the National Oceanic and Atmospheric Administration;
- (11) the Council on Environmental Quality;
- (12) the United States Agency for International Development; and
- (13) any other Federal agency the President determines appropriate.

(c) DUTIES.—The Task Force shall—

(1) review the policy recommendations made by—

- (A) the Intergovernmental Panel on Climate Change;
- (B) the United States Climate Alliance;
- (C) the Interagency Strategy to Reduce Methane Emissions;

(D) the Council on Climate Preparedness and Resilience; and

(E) the Clean Cooking Alliance;

(2) develop an action plan to reduce short-lived climate pollutants that incorporates any appropriate proposals or recommendations made by the entities referred to in paragraph (1) that are relevant to short-lived climate pollutants;

(3) identify any Federal program that is, or could be, relevant to reducing short-lived climate pollutants—

(A) in the United States; or

(B) worldwide;

(4) identify overlapping and duplicative Federal programs addressing short-lived climate pollutants that would benefit from consolidation and streamlining;

(5) identify gaps and serious deficiencies in Federal programs targeted at short-lived climate pollutants, including gaps and deficiencies that can be addressed through a combination of assessment, scientific research, monitoring, and technological development activities, with an emphasis on—

(A) industry standards; and

(B) public-private partnerships;

(6) in developing recommendations, consult with affected stakeholders in private industry; and

(7) not later than 18 months after the date of enactment of this Act, submit to the Committee on Energy and Commerce of the House of Representatives and the Committee on Environment and Public Works of the Senate a report describing the findings and recommendations resulting from the activities described in paragraphs (1) through (6).

AMENDMENT NO. 66 OFFERED BY MR. PETERS OF CALIFORNIA

At the end of title III, add the following:

**Subtitle D—Black Carbon**

**SEC. 3401. REDUCTION OF BLACK CARBON EMISSIONS.**

(a) COMPREHENSIVE PLAN.—

(1) IN GENERAL.—The Administrator of the Environmental Protection Agency (in this section referred to as the “Administrator”), in consultation with the Secretary of Energy, the Secretary of State, the Secretary of Transportation, the Secretary of Commerce, and the Commandant of the Coast Guard, shall develop a comprehensive plan to reduce black carbon emissions from ships based on appropriate emissions data from oceangoing vessels. The plan shall provide for such reduction through—

(A) a clean freight partnership;

(B) limits on black carbon emissions; and

(C) efforts that include protection of access to critical fuel shipments and emergency needs of coastal communities.

(2) ROADMAP.—A principal objective of the plan developed pursuant to paragraph (1) shall be the establishment, in coordination with the Secretary of State, of a roadmap for helping countries to reduce fine-particle (PM<sub>2.5</sub>) and black carbon emissions in the shipping sector through—

(A) the installation of advanced emissions controls;

(B) the reduction of sulfur content in fuels; and

(C) the adoption of black carbon control policies.

(b) BLACK CARBON EMISSIONS REDUCTION GOALS.—The Administrator, in coordination with the Secretary of State, and other relevant Federal agencies, shall—

(1) lead an effort to reduce black carbon through an Arctic-wide aspirational black carbon goal; and

(2) encourage observers of the Arctic Council (including India and China) to adopt mitigation plans consistent with the findings and recommendations of the Arctic Council’s

Framework for Action on Black Carbon and Methane.

(c) CLIMATE AND CLEAN AIR COALITION.—The Administrator, in coordination with the Secretary of State, is encouraged to work with the Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutants to craft specific financing mechanisms for the incremental cost of international black carbon mitigation activities.

(d) BLACK CARBON MITIGATION ACTIVITIES.—

(1) PRIORITIZATION.—The Administrator of the United States Agency for International Development, in cooperation with the Administrator, shall—

(A) encourage black carbon mitigation activities as part of official development assistance and programmatic activities;

(B) give special emphasis to projects that produce substantial environmental, gender, livelihood, and public health benefits, including support for clean-burning cookstoves and fuels; and

(C) work with the Global Alliance for Clean Cookstoves to help developing nations establish thriving markets for clean and efficient cooking solutions.

(2) EMISSIONS REDUCTIONS.—The Secretary of State, in collaboration with the Administrator, the Secretary of Energy, and the Secretary of Transportation, shall provide aid to international efforts to reduce black carbon emissions from diesel trucks and ships, 2-stroke engines, diesel generators, and industrial processes by providing technical assistance—

(A) to help developing nations lower the sulfur content of diesel fuels;

(B) to expand access to diesel particulate filters;

(C) to provide vehicle manufacturers with low- and zero-emission engine designs;

(D) to deploy on-road, off-road, and shore-side infrastructure to support zero-emission engine technologies;

(E) to develop other mitigation activities, including energy efficiency alternatives for generators and industrial processes; and

(F) to reduce ammonia emissions from agriculture.

AMENDMENT NO. 67 OFFERED BY MR. PETERS OF CALIFORNIA

Add after section 12606 the following:

**SEC. 12607. PUBLICATION OF INTERCONNECTIONS SEAMS STUDY.**

Not later than 30 days after the date of the enactment of this Act, the Secretary of Energy shall submit to Congress and make publicly available on the website of the Department a report on the results of the Interconnections Seam Study conducted by the Department.

Page 9, after the matter relating to section 12606, insert the following:

Sec. 12607. Publication of Interconnections Seams Study.

AMENDMENT NO. 70 OFFERED BY MS. PLASKETT OF VIRGIN ISLANDS

At the end of title II, add the following subtitle:

**Subtitle G—Renewable Energy Grant Program**

**SEC. 2701. RENEWABLE ENERGY GRANT PROGRAM.**

(a) ESTABLISHMENT.—Not later than 180 days after the date of enactment of this Act, the Secretary shall establish a renewable energy program (in this section referred to as the “program”) under which the Secretary may award grants to covered entities to facilitate projects, in territories of the United States, described in subsection (c).

(b) APPLICATIONS.—To be eligible for a grant under the program, a covered entity shall submit to the Secretary an application at such time, in such form, and containing

such information as the Secretary may require.

(c) GRANT USES.—

(1) IN GENERAL.—A covered entity receiving a grant under the program may use grant funds for a project, in territories of the United States—

(A) to develop or construct a renewable energy system;

(B) to carry out an activity to increase energy efficiency;

(C) to develop or construct an energy storage system or device for—

(i) a system developed or constructed under subparagraph (A); or

(ii) an activity carried out under subparagraph (B);

(D) to develop or construct—

(i) a smart grid; or

(ii) a microgrid; or

(E) to train residents of territories of the United States to develop, construct, maintain, or operate a renewable energy system.

(2) LIMITATION.—A covered entity receiving a grant under the program may not use grant funds to develop or construct a facility that generates electricity using energy derived from—

(A) fossil fuels; or

(B) nuclear power.

(d) TECHNICAL ASSISTANCE.—The Secretary shall ensure that Department of Energy national laboratories offer to provide technical assistance to each covered entity carrying out a project assisted with a grant under the program.

(e) REPORT.—Not later than two years after the establishment of the program, and on an annual basis thereafter, the Secretary shall submit to Congress a report containing—

(1) an estimate of the amount of funds disbursed under the program;

(2) an estimate of the energy conservation achieved as a result of the program;

(3) a description of challenges encountered in implementing projects described in subsection (c)(1); and

(4) recommendations as to additional legislative measures to increase the use of renewable energy in territories of the United States, as appropriate.

(f) GAO STUDY AND REPORT.—

(1) STUDY AND REPORT.—Not later than 180 days after the date of enactment of this section, the Comptroller General of the United States shall—

(A) conduct a study regarding renewable energy and energy efficiency in territories of the United States; and

(B) submit to Congress a report containing—

(i) the findings of the study; and

(ii) related recommendations.

(2) COMPONENTS.—The study conducted under paragraph (1) shall consider, in relation to territories of the United States, the potential—

(A) to modify existing electric power systems to use renewable energy sources;

(B) to expand the use of microgrids; and

(C) to improve energy resiliency.

(g) DEFINITIONS.—In this section, the following definitions apply:

(1) COVERED ENTITY.—The term “covered entity” means a not-for-profit organization determined eligible by the Secretary for purposes of this section.

(2) DEPARTMENT OF ENERGY NATIONAL LABORATORIES.—The term “Department of Energy national laboratories” has the same meaning as the term “National Laboratory” under section 2 of the Energy Policy Act of 2005 (42 U.S.C. 15801).

(3) MICROGRID.—The term “microgrid” means an electric system—

(A) that serves the local community with a power generation and distribution system; and

(B) that has the ability—

(i) to disconnect from a traditional electric grid; and

(ii) to operate autonomously when disconnected.

(4) RENEWABLE ENERGY; RENEWABLE ENERGY SYSTEM.—The terms “renewable energy” and “renewable energy system” have the meanings given those terms in section 415(c) of the Energy Conservation and Production Act (42 U.S.C. 6865(c)).

(5) SECRETARY.—The term “Secretary” means the Secretary of Energy.

(6) SMART GRID.—The term “smart grid” means an intelligent electric grid that uses digital communications technology, information systems, and automation to, while maintaining high system reliability—

(A) detect and react to local changes in usage;

(B) improve system operating efficiency; and

(C) reduce spending costs.

(7) TERRITORY.—The term “territory” means the Commonwealth of Puerto Rico, Guam, the United States Virgin Islands, American Samoa, and the Commonwealth of the Northern Mariana Islands.

(h) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated such sums as may be necessary to carry out this section.

AMENDMENT NO. 71 OFFERED BY MR. POCAN OF WISCONSIN

At the end of title XII of the committee print, add the following new subtitle:

**Subtitle G—Radon Abatement Reauthorization**

**SEC. 12701. TECHNICAL ASSISTANCE TO STATES FOR RADON PROGRAMS REAUTHORIZED.**

Section 305(e) of the Toxic Substances Control Act (15 U.S.C. 2665(e)) is amended by striking “1989, 1990, and 1991” and inserting “2021, 2022, and 2023”.

**SEC. 12702. GRANT ASSISTANCE TO STATES FOR RADON PROGRAMS REAUTHORIZED.**

Section 306(j) of the Toxic Substances Control Act (15 U.S.C. 2666(j)) is amended by striking “1989, 1990, and 1991” and inserting “2021, 2022, and 2023”.

**SEC. 12703. REGIONAL RADON TRAINING CENTERS REAUTHORIZED.**

Section 308(f) of the Toxic Substances Control Act (15 U.S.C. 2668(f)) is amended by striking “1989, 1990, and 1991” and inserting “2021, 2022, and 2023”.

AMENDMENT NO. 73 OFFERED BY MR. QUIGLEY OF ILLINOIS

After the item in the table of contents relating to section 5101, insert the following:

Sec. 5102. Definitions.

Sec. 5103. Power system modeling reform and updates to grid services and grid operator software.

Sec. 5104. Advanced energy and grid efficiency studies and report.

Page 436, after line 15, insert the following:

**SEC. 5102. DEFINITIONS.**

In sections 5103 and 5104:

(1) ADVANCED ENERGY TECHNOLOGY.—The term “advanced energy technology” means any energy generation, load-modifying transmission, or storage technology with zero or minimal greenhouse gas emissions that is connected—

(A) to the distribution system;

(B) to the transmission system; or

(C) behind the meter.

(2) ADVISORY COMMITTEE.—The term “Advisory Committee” means the advisory committee established under section 5103(a)(2)(A).

(3) COMMISSION.—The term “Commission” means the Federal Energy Regulatory Commission.

(4) ELECTRIC UTILITY.—The term “electric utility” has the meaning given the term in section 3 of the Federal Power Act (16 U.S.C. 796).

(5) GRID OPERATOR.—The term “grid operator” means—

(A) a Transmission Organization, including—

(i) an Independent System Operator; and

(ii) a Regional Transmission Organization;

(B) a public utility; and

(C) an electric utility.

(6) INDEPENDENT SYSTEM OPERATOR.—The term “Independent System Operator” has the meaning given the term in section 3 of the Federal Power Act (16 U.S.C. 796).

(7) INITIATIVE.—The term “Initiative” means the Advanced Energy Technology Research Initiative established under section 5103(a)(1).

(8) PUBLIC UTILITY.—The term “public utility” has the meaning given the term in section 201(e) of the Federal Power Act (16 U.S.C. 824(e)).

(9) REGIONAL TRANSMISSION ORGANIZATION.—The term “Regional Transmission Organization” has the meaning given the term in section 3 of the Federal Power Act (16 U.S.C. 796).

(10) SECRETARY.—The term “Secretary” means the Secretary of Energy.

(11) TRANSMISSION ORGANIZATION.—The term “Transmission Organization” has the meaning given the term in section 3 of the Federal Power Act (16 U.S.C. 796).

**SEC. 5103. POWER SYSTEM MODELING REFORM AND UPDATES TO GRID SERVICES AND GRID OPERATOR SOFTWARE.**

(a) ADVANCED ENERGY TECHNOLOGY RESEARCH INITIATIVE.—

(1) IN GENERAL.—Not later than 90 days after the date of enactment of this Act, the Commission, in coordination with the Secretary, shall establish an initiative, to be known as the “Advanced Energy Technology Research Initiative”, to research and provide recommendations on how to improve the modeling, operational, and planning practices used for the bulk electric system.

(2) ADVISORY COMMITTEE.—

(A) IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Commission, in coordination with the Secretary, shall establish an advisory committee to research, report on, and provide recommendations on matters relating to the Initiative, including—

(i) whether the existing modeling and long-term and short-term planning practices used by grid operators for power systems, including power markets, adequately incorporate expected integration with respect to advanced energy technologies;

(ii) whether the methods used to determine future transmission and capacity needs and make reliability-related determinations use the right data to adequately forecast and model the integration of advanced energy technology into electric power systems;

(iii) whether the modeling and planning practices described in clause (i) and the methods described in clause (ii) need to be updated to better account for the integration of advanced energy technology into electric power systems;

(iv) any undue barriers to the adoption of advanced energy technology presented by—

(I) existing modeling, operational, and planning practices; and

(II) State estimation tools for planning and reliability;

(v) any need to develop emerging technologies or software for use in improving modeling, planning, and operations in wholesale electricity markets to resolve computational or technical barriers to the adoption of advanced energy technology, including software relating to—

(I) the use of big data, artificial intelligence, and probabilistic methods to predict, in near-real-time—

(aa) energy generation from variable and distributed resources;

(bb) load profiles; and

(cc) consumption and congestion; and

(II) the use of artificial intelligence to improve the responsiveness of energy system operations;

(vi) whether existing and future grid reliability service definitions and the modeling techniques, operational processes, and planning processes used to procure grid reliability services—

(I) appropriately account for the technical and operational characteristics of advanced energy technologies;

(II) allow for the use of those advanced energy technologies to provide grid reliability services; and

(III) include appropriate cybersecurity safeguards; and

(vii) any rulemaking, technical conference, or policy statement that, in the determination of the Advisory Committee, the Commission should consider.

(B) COMPOSITION.—The Advisory Committee shall consist of—

(i) not fewer than 1 representative from each of—

(I) the Commission;

(II) the Department of Energy;

(III) the Electric Reliability Organization (as defined in section 215(a) of the Federal Power Act (16 U.S.C. 824a(a)));

(IV) an Independent System Operator or a Regional Transmission Organization;

(V) an entity generating electric power that is not affiliated with a transmission-owning public or nonpublic utility;

(VI) an environmental organization with expertise on the bulk electric system; and

(VII) an institution of higher education with expertise on the bulk electric system;

(ii) not fewer than 2 designees of the National Association of Regulatory Utility Commissioners;

(iii) not fewer than 3 representatives from public utilities or electric utilities in areas not serviced by an Independent System Operator or a Regional Transmission Organization; and

(iv) not fewer than 2 representatives from private and nonprofit associations with expertise in the development, deployment, and use of advanced energy technologies.

(C) REPORTS.—Not later than 18 months after the date of enactment of this Act, and every 2 years thereafter for 10 years, the Advisory Committee shall submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Energy and Commerce of the House of Representatives a report on the Initiative, including the findings or recommendations of the Advisory Committee with respect to the matters described in clauses (i) through (vii) of subparagraph (A).

(b) ADVANCED ENERGY TECHNOLOGY AND GRID SERVICES PROGRAM.—

(1) IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Secretary shall establish a competitive financial assistance program, to be known as the “Advanced Energy Technology and Grid Services Program”, under which the Secretary shall enter into Federal financial assistance agreements with eligible entities described in paragraph (2) for the purpose of increasing the market penetration of advanced energy technology through advanced research and development and pilot demonstrations of—

(A) software upgrades, including upgrades to the software platforms used to operate wholesale energy markets;

(B) updated power system planning;

(C) new power system (including power market) modeling platforms;

(D) cybersecurity and physical security upgrades; and

(E) resilience upgrades.

(2) ELIGIBLE ENTITIES DESCRIBED.—An eligible entity referred to in paragraph (1) is—

(A) a grid operator;

(B) a State public utility commission;

(C) an energy cooperative;

(D) a municipality;

(E) an electric utility;

(F) a gas utility; or

(G) a State energy office.

(3) ELIGIBLE ACTIVITIES.—The Secretary may enter into a financial assistance agreement under this subsection for—

(A) software upgrades by grid operators;

(B) new power system (including power market) modeling platforms;

(C) enhancements to cybersecurity safeguards; or

(D) updated power system (including power market) planning, updated power system (including power market) modeling, or updated reliability planning and modeling by grid operators.

(4) COST SHARING.—In awarding Federal financial assistance (including grants, loans, and any other form of financial assistance) to fund eligible activities under this subsection, the Secretary shall require cost sharing in accordance with section 988 of the Energy Policy Act of 2005 (42 U.S.C. 16352).

(5) COORDINATION.—In carrying out the Advanced Energy Technology and Grid Services Program established under this subsection, the Secretary, to the maximum extent practicable, shall coordinate with existing programs of the Department of Energy that focus on grid modernization efforts.

**SEC. 5104. ADVANCED ENERGY AND GRID EFFICIENCY STUDIES AND REPORT.**

(a) STUDIES.—

(1) ADVANCED ENERGY STUDY.—The Secretary, in coordination with the Commission, shall carry out a study of the costs and benefits to consumers of updating power system planning, modeling, and operational practices, including reliability-related planning, and energy market participation rules on advanced energy technologies and resources, including distributed energy technologies and resources, such as—

(A) energy storage technologies;

(B) energy efficiency and transmission efficiency technologies;

(C) distributed solar and wind energy generation;

(D) fuel cells;

(E) smart thermostats and smart building technologies;

(F) demand response technologies, including natural gas demand response technologies;

(G) advanced metering technologies;

(H) electric vehicles and electric vehicle charging infrastructure;

(I) any aggregation of the distributed energy technologies and resources described in subparagraph (A) or (C); and

(J) any other advanced energy technologies, as determined by the Secretary.

(2) GRID EFFICIENCY STUDY.—

(A) IN GENERAL.—The Secretary, in coordination with the Commission, shall carry out a study of the barriers and opportunities for advanced energy technologies that provide increased, more efficient, or more effective delivery over the existing transmission network.

(B) REQUIREMENTS.—The study under subparagraph (A) shall include—

(i) an examination of—

(I) the reliability, resilience, and economic benefits of technologies such as power flow control, topology optimization, and dynamic line ratings;

(II) the costs, benefits, and challenges associated with deployment of the advanced energy technologies described in subparagraph (A); and

(III) the impact of grid efficiency improvements on wholesale and retail electricity rates; and

(ii) an analysis of the role of financial and regulatory incentives in the deployment of advanced energy technologies, as determined by the Secretary.

(b) REPORT.—Not later than 18 months after the date of enactment of this Act, the Secretary shall submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Energy and Commerce of the House of Representatives a report describing the results of the studies under paragraphs (1) and (2) of subsection (a).

AMENDMENT NO. 74 OFFERED BY MR. ROUDA OF CALIFORNIA

Add at the end of subtitle H of title I the following:

**SEC. 1806. REMOVING BARRIERS TO EFFICIENCY.**

(a) IN GENERAL.—Section 327 of the Energy Policy and Conservation Act (42 U.S.C. 6297) is amended by adding at the end the following:

“(h) SUSPENSION OF PREEMPTION.—This section shall not apply to a covered product during any period that—

“(1) begins on the date that is 8 years after the date on which the energy conservation standard was established under section 325 for the covered product; and

“(2) ends on the effective date of an energy conservation standard established after the date described in paragraph (1) under section 325 for the covered product, that is equivalent to, or more stringent than, the standard described in such paragraph.

“(i) NO PREEMPTION ABSENT A FEDERAL STANDARD.—

“(1) APPLICATION.—Notwithstanding any other provision of this part, this section does not apply to any State regulation insofar as the State regulation applies to any product not subject to an energy conservation standard established under section 325.

“(2) COMPLIANCE PERIOD.—Any State regulation prescribed or enacted for a covered product before the date on which an energy conservation standard is established under section 325 for the covered product shall not be preempted until the effective date of an equivalent or more stringent energy conservation standard under section 325 for the covered product.”.

(b) ASHRAE PRODUCTS.—Section 345(b)(2) of the Energy Policy and Conservation Act (42 U.S.C. 6316(b)(2)) is amended by adding at the end the following:

“(E) Notwithstanding subparagraph (A), a standard prescribed or established under section 342(a) shall not supersede any State or local regulation concerning the energy efficiency or energy use of a product for which a standard is prescribed or established pursuant to such section during any period that—

“(i) begins on the date that is 8 years after the date on which such standard was prescribed or established; and

“(ii) ends on the effective date of a standard prescribed or established after the date described in clause (i) under section 342(a) for the product, that is equivalent to, or more stringent than, the standard described in such clause.”.

AMENDMENT NO. 75 OFFERED BY MR. RUSH OF ILLINOIS

At the end of part 2 of subtitle A of title XII, add the following new section:

**SEC. 12114. ENERGY JOBS COUNCIL AND ANNUAL ENERGY EMPLOYMENT REPORT.**

(a) ENERGY JOBS COUNCIL.—

(1) ESTABLISHMENT.—Not later than 90 days after the date of enactment of this Act, the

Secretary of Energy (referred to in this section as the “Secretary”) shall establish a council, to be known as the “Energy Jobs Council” (referred to in this section as the “Council”).

(2) MEMBERSHIP.—The Council shall be comprised of—

(A) to be appointed by the Secretary—

- (i) one or more representatives of the Energy Information Administration; and

- (ii) one or more representatives of a State energy office that are serving as members of the State Energy Advisory Board established by section 365(g) of the Energy Policy and Conservation Act (42 U.S.C. 6325(g));

(B) to be appointed by the Secretary of Commerce—

- (i) one or more representatives of the Department of Commerce; and

- (ii) one or more representatives of the Bureau of the Census;

(C) one or more representatives of the Bureau of Labor Statistics, to be appointed by the Secretary of Labor; and

(D) one or more representatives of any other Federal agency the assistance of which is required to carry out this Act, as determined by the Secretary, to be appointed by the head of the applicable agency.

(b) SURVEY AND ANALYSIS.—

(1) IN GENERAL.—The Council shall—

- (A) conduct a survey of employers in the energy, energy efficiency, renewable energy, and motor vehicle sectors of the economy of the United States; and

- (B) perform an analysis of the employment figures and demographics in those sectors, including the number of personnel in each sector who devote a substantial portion of working hours, as determined by the Secretary, to compliance matters.

(2) METHODOLOGY.—In conducting the survey and analysis under paragraph (1), the Council shall employ a methodology that—

- (A) was approved in 2016 by the Office of Management and Budget for use in the document entitled “OMB Control Number 1910-5179”;

- (B) uses a representative, stratified sampling of businesses in the United States; and

- (C) is designed to elicit a comparable number of responses from businesses in each State and with the same North American Industry Classification System codes as were received for the 2016 and 2017 reports entitled “U.S. Energy and Employment Report”.

(3) CONSULTATION.—In conducting the survey and analysis under paragraph (1), the Council shall consult with key stakeholders, including—

(A) as the Council determines to be appropriate, the heads of relevant Federal agencies and offices, including—

- (i) the Secretary of Commerce;
- (ii) the Secretary of Transportation;
- (iii) the Director of the Bureau of the Census;

- (iv) the Commissioner of the Bureau of Labor Statistics; and

- (v) the Administrator of the Environmental Protection Agency;

(B) States;

(C) the State Energy Advisory Board established by section 365(g) of the Energy Policy and Conservation Act (42 U.S.C. 6325(g)); and

(D) energy industry trade associations.

(c) REPORT.—

(1) IN GENERAL.—Not later than 1 year after the date of enactment of this Act, and annually thereafter, the Secretary shall—

(A) make publicly available on the website of the Department of Energy a report, to be entitled the “U.S. Energy and Employment Report”, describing the employment figures and demographics in the energy, energy efficiency, and motor vehicle sectors of the United States based on the survey and analysis conducted under subsection (b); and

(B) subject to the requirements of the Confidential Information Protection and Statistical Efficiency Act of 2002 (44 U.S.C. 3501 note; Public Law 107-347), make the data collected by the Council publicly available on the website of the Department of Energy.

(2) CONTENTS.—

(A) IN GENERAL.—The report under paragraph (1) shall include employment figures and demographic data for—

- (i) the energy sector of the economy of the United States, including—

- (I) the electric power generation and fuels sector; and

- (II) the transmission, storage, and distribution sector;

- (ii) the energy efficiency sector of the economy of the United States; and

- (iii) the motor vehicle sector of the economy of the United States.

(B) INCLUSION.—With respect to each sector described in subparagraph (A), the report under paragraph (1) shall include employment figures and demographic data sorted by—

- (i) each technology, subtechnology, and fuel type of those sectors; and

- (ii) subject to the requirements of the Confidential Information Protection and Statistical Efficiency Act of 2002 (44 U.S.C. 3501 note; Public Law 107-347)—

- (I) each State;

- (II) each territory of the United States;

- (III) the District of Columbia; and

- (IV) each county (or equivalent jurisdiction) in the United States.

AMENDMENT NO. 83 OFFERED BY MR. THOMPSON OF CALIFORNIA

Add at the end of title II the following:

**Subtitle G—Other**

**SEC. 2701. AMENDMENT TO ENERGY POLICY ACT OF 2005 DEFINITION OF RENEWABLE ENERGY.**

(a) IN GENERAL.—Section 203 of the Energy Policy Act of 2005 (42 U.S.C. 15852) is amended—

- (1) in subsection (b)(2), by striking “generated” and inserting “produced”; and

- (2) in subsection (c)—

- (A) by redesignating paragraphs (1) through (3) as subparagraphs (A) through (C), respectively, and indenting appropriately;

- (B) in the matter preceding subparagraph (A) (as so redesignated), by striking “For purposes” and inserting the following:

- (1) IN GENERAL.—For purposes”; and

- (C) by adding at the end the following:

- (2) SEPARATE CALCULATION.—

- (A) IN GENERAL.—For purposes of determining compliance with the requirement of this section, any energy consumption that is avoided through the use of geothermal energy shall be considered to be renewable energy produced.

- (B) EFFICIENCY ACCOUNTING.—Energy consumption that is avoided through the use of geothermal energy that is considered to be renewable energy under this section shall not be considered energy efficiency for the purpose of compliance with Federal energy efficiency goals, targets, and incentives.”

(b) CONFORMING AMENDMENT.—Section 2410q(a) of title 10, United States Code, is amended by striking “section 203(b)(2) of the Energy Policy Act of 2005 (42 U.S.C. 15852(b)(2))” and inserting “section 203(b) of the Energy Policy Act of 2005 (42 U.S.C. 15852(b))”.

AMENDMENT NO. 84 OFFERED BY MS. TLAIB OF MICHIGAN

Page 894, after line 6, insert the following:

**SEC. 12606. REPORT ON EFFECTS OF EMISSIONS FROM FOSSIL FUEL FACILITIES.**

(a) STUDY.—

(1) IN GENERAL.—The Administrator shall conduct a study to evaluate the effect of

emissions from fossil fuel facilities on the health of environmental justice communities, including such effects on the environment or that result in adverse human health for such communities.

(2) INCLUSION.—In evaluating effects under paragraph (1), the Administrator of the Environmental Protection Agency shall consider the distance between fossil fuel facilities and environmental justice communities.

(b) REPORT.—Not later than 180 days after the date of enactment of this Act, the Administrator shall submit to Congress a report that summarizes the study conducted under subsection (a).

(c) DEFINITIONS.—In this section:

(1) ADMINISTRATOR.—The term “Administrator” means the Administrator of the Environmental Protection Agency.

(2) ENVIRONMENTAL JUSTICE COMMUNITY.—The term “environmental justice community” has the meaning given such term in section 11001.

(3) FOSSIL FUEL FACILITY.—The term “fossil fuel facility” has the meaning given such term by the Administrator for purposes of the National Emissions Inventory.

Page 894, line 7, strike “12606” and insert “12607”.

AMENDMENT NO. 85 OFFERED BY MR. TONKO OF NEW YORK

Page 593, after line 17, insert the following new subtitle:

**Subtitle G—Low-carbon Fuels**

**SEC. 6701. STUDY BY NATIONAL ACADEMY OF SCIENCES.**

(a) IN GENERAL.—The Administrator of the Environmental Protection Agency, after consultation with the Secretary of Energy and the Secretary of Agriculture, shall seek to enter into an agreement with the National Academy of Sciences (or, if the Academy declines, another appropriate entity) under which the Academy (or other appropriate entity) agrees to—

- (1) assess current methods for life cycle greenhouse gas emissions analyses for low-carbon transportation fuels in the United States; and

- (2) develop a framework for assessing broader environmental implications of low-carbon transportation fuels in addition to greenhouse gas emissions.

(b) TIMING OF AGREEMENT.—The Administrator shall seek to enter into the agreement described in subsection (a) not later than 60 days after the date of enactment of this Act.

(c) ASSESSMENT.—The assessment pursuant to subsection (a)(1) shall examine methods for calculating life cycle greenhouse gas emissions associated with transportation fuels (liquid and nonliquid), including—

- (1) direct greenhouse gas emissions, including all stages of fuel and feedstock production, distribution, and use; and

- (2) potentially significant indirect greenhouse gas emissions.

(d) FRAMEWORK.—The framework pursuant to subsection (a)(2) shall include a recommended framework and approaches for detailed quantitative assessments of the comparative environmental implications of low-carbon transportation fuels (liquid and nonliquid), including—

- (1) life cycle implications for air, water, land, and ecosystems in different regions of the United States and over time; and

- (2) potential environmental implications over the life cycle of transportation fuels for low-income and disadvantaged communities and communities of color.

(e) REPORTS.—The agreement under subsection (a) shall provide for the publication by the Academy (or other appropriate entity) of—

- (1) not later than 12 months after the date of enactment of this Act, a report—



(A) describing the results of the assessment under subsection (a)(1); and

(B) recommending a standardized approach to calculating life cycle greenhouse gas emissions from low-carbon transportation fuels (liquid and nonliquid); and

(2) not later than 18 months after the date of enactment of this Act, a report providing recommendations for a framework to assess environmental implications, in addition to greenhouse gas emissions, of low-carbon transportation fuels (liquid and nonliquid).

(f) DEFINITIONS.—In this section:

(1) ACADEMY.—The term “Academy” means the National Academy of Sciences.

(2) ADMINISTRATOR.—The term “Administrator” means the Administrator of the Environmental Protection Agency.

(3) LIFE CYCLE GREENHOUSE GAS EMISSIONS.—The term “life cycle greenhouse gas emissions” means the aggregate quantity of greenhouse gas emissions (including direct emissions and significant indirect emissions such as significant emissions from land use changes), as determined by the Academy (or other appropriate entity) over the full life cycle of the respective greenhouse gases, across all stages of a given fuel’s supply chain, where the mass values for all greenhouse gases are adjusted to account for their relative global warming potential and residence time.

(4) OTHER APPROPRIATE ENTITY.—The term “other appropriate entity” means the other appropriate entity with which the agreement under subsection (a) is entered into if the Academy declines to enter into the agreement.

AMENDMENT NO. 86 OFFERED BY MS. WATERS OF CALIFORNIA

Page 557, line 24, strike “and”.

Page 558, line 6, strike “census tracts.” and insert “census tracts; and”.

Page 558, after line 6, insert the following:

(vi) identify the potential for, and obstacles to, recruiting and entering into contracts with locally-owned small and disadvantaged businesses, including women- and minority-owned businesses, to deploy electric vehicle charging infrastructure in underserved or disadvantaged communities in major urban areas and rural areas.

AMENDMENT NO. 87 OFFERED BY MS. WATERS OF CALIFORNIA

Page 41, line 7, strike “and”.

Page 41, line 13, strike the period and insert “; and”.

Page 41, after line 13, insert the following:

(7) to identify diverse candidates and firms when procuring for the design and construction of training and assessment centers.

AMENDMENT NO. 88 OFFERED BY MS. WATERS OF CALIFORNIA

Page 664, line 21, strike “; and” and insert a semicolon.

Page 664, line 23, strike the period at the end and insert “; and”.

Page 664, after line 23, insert the following:

(E) whether the project will be of benefit or use to diverse and underserved communities.

AMENDMENT NO. 89 OFFERED BY MS. WATERS OF CALIFORNIA

Page 101, line 10, after “means” insert “a manufactured home (as such term is defined in section 603 of the National Manufactured Housing Construction and Safety Standards Act of 1974 (42 U.S.C. 5402)), or”.

Page 103, after line 20, insert the following:

(16) MULTIFAMILY BUILDING.—The term “multifamily building” means a structure with 5 or more tenant-occupied residential dwelling units that—

(A) is located in the United States;

(B) was constructed before the date of enactment of this Act; and

(C) is occupied at least 6 months out of the year.

(17) MULTIFAMILY BUILDING OWNER.—The term “multifamily building owner” means the owner of a tenant-occupied multifamily building.

Page 106, line 12, before the semicolon insert “, including energy audits and assessments relevant to multifamily buildings”.

Page 106, line 13, after “home” insert “and multifamily building”.

Page 112, line 5: after “homeowner” insert “or multifamily building owner”.

Page 112, line 10, before the semicolon insert “or the household living in a multifamily building”.

Page 112, line 13, after “homeowner” insert “or the household living in a multifamily building”.

Page 114, line 11, after “home” insert “of a homeowner or household living in a multifamily building”.

Page 114, line 22, before the semicolon insert “or the applicable multifamily building owner has signed and submitted an agreement with the contractor to provide whole-building aggregate information about the building’s energy use”.

Page 115, line 1, after “home” insert “of a homeowner or for the household living in a multifamily building”.

Page 115, line 10, after “homeowner” insert “or multifamily building owner”.

Page 115, line 24: after “homeowners” insert “and multifamily building owners”.

Page 116, line 9, after “homeowner” insert “or multifamily building owner”.

Page 125, line 24, before “is moderate” insert “or that, in the case of a multifamily building, the majority of households in the building”.

Page 126, line 2, strike “of homeowners”.

Page 126, lines 18 and 19, strike “of homeowners”.

Page 127, line 1, after “homeowner” insert “or the household living in a multifamily building”.

Page 127, line 5, after “homeowner” insert “or the household living in a multifamily building”.

Page 128, line 4, before “that are certified” insert “or multifamily building owners”.

Page 128, line 12, before the first comma insert “and owners”.

Page 130, line 6, strike “\$1,200,000,000” and insert “\$1,600,000,000”.

AMENDMENT NO. 90 OFFERED BY MS. WILD OF PENNSYLVANIA

Page 830, after line 5, insert the following:

**PART 3—CLEAN ENERGY ECONOMY WORKFORCE**

**SEC. 12121. CLEAN ENERGY ECONOMY WORKFORCE PROGRAM.**

(a) DEFINITIONS.—In this section:

(1) COAL-RELATED FACILITY.—The term “coal-related facility” includes a coal mine or coal-fueled electric generating facility.

(2) COAL-RELATED GENERATING FACILITY.—The term “coal-related industrial facility” includes a facility in the manufacturing and transportation supply chains of a coal-related facility.

(3) ELIGIBLE ENTITY.—The term “eligible entity” means a National Laboratory, business, or labor organization that demonstrates success in placing graduates of pre-apprenticeship or apprenticeship programs in jobs relevant to such programs and—

(A) is directly involved with zero-emission electricity technology, energy efficiency, or other activity that results in a reduction in greenhouse gas emissions, as determined by the Secretary;

(B) works on behalf of a business or labor organization that is directly involved with zero emission electricity technology, energy efficiency, or other activity that results in a reduction in greenhouse gas emissions, as determined by the Secretary;

(C) provides services related to—

(i) zero emission electricity technology deployment and maintenance and energy efficiency;

(ii) grid modernization; or

(iii) reduction in greenhouse gas emissions through the use of zero-emission energy technologies;

(D) has knowledge of technician workforce needs of a National Laboratory or covered facility of the National Nuclear Security Administration and the associated security requirements of such laboratory or facility;

(E) demonstrates experience in implementing and operating apprenticeship programs or pre-apprenticeship programs that provide a direct pathway to an energy-related career; or

(F) demonstrates success in placing graduates of pre-apprenticeship or apprenticeship programs in jobs relevant to such programs.

(4) ENERGY TRANSITION WORKER.—The term “Energy Transition Worker” means a worker, including workers employed by contractors or subcontractors, terminated, laid off from employment, or whose work hours have been reduced, on or after the date of enactment of this Act, from a coal-related facility, coal-related industrial facility or other energy related entity.

(5) NATIONAL LABORATORY.—The term “National Laboratory” means any of the following laboratories owned by the Department of Energy:

(A) Ames Laboratory.

(B) Argonne National Laboratory.

(C) Brookhaven National Laboratory.

(D) Fermi National Accelerator Laboratory.

(E) Idaho National Laboratory.

(F) Lawrence Berkeley National Laboratory.

(G) Lawrence Livermore National Laboratory.

(H) Los Alamos National Laboratory.

(I) National Energy Technology Laboratory.

(J) National Renewable Energy Laboratory.

(K) Oak Ridge National Laboratory.

(L) Pacific Northwest National Laboratory.

(M) Princeton Plasma Physics Laboratory.

(N) Sandia National Laboratories.

(O) Savannah River National Laboratory.

(P) Stanford Linear Accelerator Center.

(Q) Thomas Jefferson National Accelerator Facility.

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

(b) ESTABLISHMENT.—The Secretary of Energy, in consultation with the Secretary of Labor, shall establish a program to provide competitively awarded cost shared grants to eligible entities to pay for pre-apprenticeship training for individuals or on-the-job training of a new or existing employee—

(1) to work in zero emission electricity generation, energy efficiency, or grid modernization;

(2) to work otherwise on the reduction of greenhouse gas emissions; or

(3) to participate in a pre-apprenticeship program that provides a direct pathway to an energy-related career in construction through one or more apprenticeship programs.

(c) GRANTS.—

(1) IN GENERAL.—An eligible entity desiring a grant under the program shall submit to the Secretary of Energy an application at such time, in such manner, and containing such information as the Secretary of Energy may require.

(2) PRIORITY FOR TARGETED COMMUNITIES.—In providing grants under the program, the

Secretary of Energy shall give priority to an eligible entity that—

- (A) recruits employees—
  - (i) from the 1 or more communities that are served by the eligible entity; and
  - (ii) that are minorities, women, veterans, individuals from Indian Tribes or Tribal organizations, or energy transition workers;
- (B) provides trainees with the opportunity to obtain real-world experience; or
- (C) has fewer than 100 employees; and
- (D) in the case of a pre-apprenticeship program, demonstrates—
  - (i) a multi-year record of successfully recruiting energy transition workers, minorities, women, and veterans for training and supporting such individuals to a successful completion of a pre-apprenticeship program; and

(ii) a successful multi-year record of placing the majority of pre-apprenticeship program graduates into apprenticeship programs in the construction industry.

**(3) USE OF GRANT FOR FEDERAL SHARE.—**

(A) **IN GENERAL.**—An eligible entity shall use a grant received under the program to—

(i) pay the Federal share of the cost of providing pre-apprenticeship training or on-the-job training for an individual, in accordance with subparagraph (B); or

(ii) in the case of a pre-apprenticeship program—

(I) recruiting minorities, women, and veterans for training;

(II) supporting those individuals in the successful completion of the pre-apprenticeship program; and

(III) carrying out any other activity of the pre-apprenticeship program, as determined to be appropriate by the Secretary of Labor, in consultation with the Secretary.

(B) **FEDERAL SHARE AMOUNT.**—The Federal share described in subparagraph (A)(i) shall not exceed—

(i) in the case of an eligible entity with 20 or fewer employees, 45 percent of the cost of on-the-job-training for an employee;

(ii) in the case of an eligible entity with not fewer than 21 employees and not more than 99 employees, 37.5 percent of the cost of on-the-job-training for an employee;

(iii) in the case of an eligible entity with not fewer than 100 employees, 20 percent of the cost of on-the-job-training for an employee; and

(iv) in the case of an eligible entity that administers a pre-apprenticeship program, 75 percent of the cost of the pre-apprenticeship program.

(4) **EMPLOYER PAYMENT OF NON-FEDERAL SHARE.—**

(A) **IN GENERAL.**—The non-Federal share of the cost of providing on-the-job training for an employee under a grant received under the program shall be paid in cash or in kind by the employer of the employee receiving the training or by a nonprofit organization.

(B) **INCLUSIONS.**—The non-Federal share described in subparagraph (A) may include the amount of wages paid by the employer to the employee during the time that the employee is receiving on-the-job training, as fairly evaluated by the Secretary of Labor.

(5) **CONSTRUCTION.**—In providing grants under the program for training, recruitment, and support relating to construction, eligible entities shall only include pre-apprenticeship programs that have an articulation agreement with one or more apprenticeship programs.

(6) **GRANT AMOUNT.**—An eligible entity may not receive more than \$1,000,000 per fiscal year in grant funds under the program.

(d) **AUTHORIZATION OF APPROPRIATIONS.**—There are authorized to be appropriated \$25,000,000 to the Secretary of Energy to carry out the program for each of the fiscal years 2021 through 2030.

Page 9, after the matter relating to section 12113, insert the following:

**PART 3—CLEAN ENERGY ECONOMY WORKFORCE**  
Sec. 12121. Clean Energy Economy Workforce Program.

**AMENDMENT NO. 93 OFFERED BY MR. BLUMENAUER OF OREGON**

Page 403, after line 21, insert the following:

(3) **REPORT.**—The Secretary shall submit annually a public report to the Congressional Committees of Jurisdiction documenting funds spent under the program, including those that could benefit the entirety of the existing reactor fleet, such as with respect to aging management and related sustainability concerns, and identifying funds awarded to private entities.

Page 407, line 11, insert “In carrying out this paragraph, the Secretary shall convene an advisory committee of such individuals and such committee shall submit annually a report to the relevant committees of Congress with respect to the progress of the program.”

**AMENDMENT NO. 95 OFFERED BY MR. KRISHNAMOORTHY OF ILLINOIS**

Page 192, beginning on line 4, strike “eligible entity is located” and insert “eligible entity is located, which campaign shall include providing projected environmental benefits achieved under the project, where to find more information about the program established under this section, and any other information the Secretary determines necessary”.

**AMENDMENT NO. 96 OFFERED BY MS. CLARK OF MASSACHUSETTS**

At the end of subtitle A of title III, add the following:

**SECTION 3115. CARBON DIOXIDE REMOVAL TASK FORCE AND REPORT.**

(a) **REPORT.**—Not later than 180 days after the date of enactment of this Act, the Secretary of Energy (referred to in this section as the “Secretary”), in consultation with the head of any other relevant Federal agency, shall prepare a report that—

(1) estimates the magnitude of excess carbon dioxide in the atmosphere that will need to be removed by 2050 to achieve net-zero emissions and stabilize the climate;

(2) inventories current and emerging approaches of carbon dioxide removal and evaluates the advantages and disadvantages of each such approach; and

(3) identifies recommendations for legislation, funding, rules, revisions to rules, financing mechanisms, or other policy tools that the Federal Government can use to sufficiently advance the deployment of carbon dioxide removal projects in order to meet, in the aggregate, the magnitude of needed removals estimated under paragraph (1), including policy tools such as—

- (A) grants;
- (B) loans or loan guarantees;
- (C) public-private partnerships;
- (D) direct procurement;
- (E) incentives, including subsidized Federal financing mechanisms available to project developers;
- (F) advance market commitments;
- (G) regulations; and
- (H) and any other policy mechanism determined by the Secretary to be beneficial for advancing carbon dioxide removal methods and the deployment of carbon dioxide removal projects.

(b) **SUBMISSION; PUBLICATION.**—The Secretary shall submit the report prepared under subsection (a) to the Committee on Energy and Natural Resources of the Senate and the Committee on Energy and Commerce of the House of Representatives, and as soon as practicable, make the report publicly available.

(c) **EVALUATION.**—The Secretary shall—

(1) not later than 2 years after the publication of the report under subsection (a), and every 2 years thereafter, evaluate the findings and recommendations of the report, taking into consideration any issues and recommendations identified by the task force established under subsection (d); and

(2) after each evaluation under paragraph (1), revise the report as necessary and submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Energy and Commerce of the House of Representatives an updated report.

(d) **TASK FORCE.**—

(1) **ESTABLISHMENT AND DUTIES.**—Not later than 60 days after the date of enactment of this Act, the Secretary shall establish a task force to—

(A) identify barriers to advancement of carbon dioxide removal methods and the deployment of carbon dioxide removal projects;

(B) inventory existing or potential Federal legislation, rules, revisions to rules, financing mechanisms, or other policy tools that are capable of advancing carbon dioxide removal methods and the deployment of carbon dioxide removal projects;

(C) assist in drafting the report described in subsection (a) and any updates thereto; and

(D) advise the Secretary on matters pertaining to carbon dioxide removal.

(2) **MEMBERS AND SELECTION.**—The Secretary shall—

(A) develop criteria for the selection of members to the task force; and

(B) select members for the task force in accordance with the criteria developed under subparagraph (A).

(3) **MEETINGS.**—The task force shall meet not less than once each year.

(4) **EVALUATION.**—Not later than 7 years after the date of enactment of this Act, the Secretary shall—

(A) reevaluate the need for the task force; and

(B) submit to Congress a recommendation as to whether the task force should continue.

(e) **CARBON DIOXIDE REMOVAL DEFINITION.**—In this section, the term “carbon dioxide removal” means the capture of carbon dioxide directly from ambient air or, in dissolved form, from seawater, combined with the sequestration of such carbon dioxide, including through direct air capture and sequestration, enhanced carbon mineralization, bioenergy with carbon capture and sequestration, forest restoration, soil carbon management, and direct ocean capture.

**AMENDMENT NO. 97 OFFERED BY MS. BLUNT ROCHESTER OF DELAWARE**

Add at the end of title VI the following:

**Subtitle G—Climate Action Planning for Ports**

**SEC. 6701. GRANTS TO REDUCE GREENHOUSE GAS EMISSIONS AT PORTS.**

(a) **GRANTS.**—The Administrator of the Environmental Protection Agency may award grants to eligible entities—

(1) to implement plans to reduce greenhouse gas emissions at one or more ports or port facilities within the jurisdictions of the respective eligible entities; and

(2) to develop climate action plans described in subsection (b)(2).

(b) **APPLICATION.**—

(1) **IN GENERAL.**—To seek a grant under this section, an eligible entity shall submit an application to the Administrator of the Environmental Protection Agency at such time, in such manner, and containing such information and assurances as the Administrator may require.

(2) **CLIMATE ACTION PLAN.**—At a minimum, each such application shall contain—

(A) a detailed and strategic plan, to be known as a climate action plan, that outlines how the eligible entity will develop and implement climate change mitigation or adaptation measures through the grant; or

(B) a request pursuant to subsection (a)(2) for funding for the development of a climate action plan.

(3) REQUIRED COMPONENTS.—A climate action plan under paragraph (2) shall demonstrate that the measures proposed to be implemented through the grant—

(A) will reduce greenhouse gas emissions at the port or port facilities involved pursuant to greenhouse gas emission reduction goals set forth in the climate action plan;

(B) will reduce other air pollutants at the port or port facilities involved pursuant to criteria pollutant emission reduction goals set forth in the climate action plan;

(C) will implement emissions accounting and inventory practices to determine baseline emissions and measure progress; and

(D) will ensure labor protections for workers employed directly at the port or port facilities involved, including by—

(i) demonstrating that implementation of the measures proposed to be implemented through the grant will not result in a net loss of jobs at the port or port facilities involved;

(ii) ensuring that laborers and mechanics employed by contractors and subcontractors on construction projects to implement the plan will be paid wages not less than those prevailing on similar construction in the locality, as determined by the Secretary of Labor under sections 3141 through 3144, 3146, and 3147 of title 40, United States Code; and

(iii) requiring any projects initiated to carry out the plan with total capital costs of \$1,000,000 or greater to utilize a project labor agreement and not impact any preexisting project labor agreement.

(4) OTHER COMPONENTS.—In addition to the components required by paragraph (3), a climate action plan under paragraph (2) shall demonstrate that the measures proposed to be implemented through the grant will do at least 2 of the following:

(A) Improve energy efficiency at a port or port facility, including by using—

(i) energy-efficient vehicles, such as hybrid, low-emission, or zero-emission vehicles;

(ii) energy efficient cargo-handling, harbor vessels, or storage facilities such as energy-efficient refrigeration equipment;

(iii) energy-efficient lighting;

(iv) shore power; or

(v) other energy efficiency improvements.

(B) Deploy technology or processes that reduce idling of vehicles at a port or port facility.

(C) Reduce the direct emissions of greenhouse gases and other air pollutants with a goal of achieving zero emissions, including by replacing and retrofitting equipment (including vehicles onsite, cargo-handling equipment, or harbor vessels) at a port or port facility.

(5) PROHIBITED USE.—An eligible entity may not use a grant provided under this section—

(A) to purchase fully automated cargo handling equipment;

(B) to build, or plan to build, terminal infrastructure that is designed for fully automated cargo handling equipment;

(C) to purchase, test, or develop highly automated trucks, chassis, or any related equipment that can be used to transport containerized freight; or

(D) to extend to any independent contractor, independent owner, operator, or other entity that is not using employees for the sake of performing work on terminal grounds.

(6) COORDINATION WITH STAKEHOLDERS.—In developing a climate action plan under paragraph (2), an eligible entity shall—

(A) identify and collaborate with stakeholders who may be affected by the plan, including local environmental justice communities and other near-port communities;

(B) address the potential cumulative effects of the plan on stakeholders when those effects may have a community-level impact; and

(C) ensure effective advance communication with stakeholders to avoid and minimize conflicts.

(c) PRIORITY.—In awarding grants under this section, the Administrator of the Environmental Protection Agency shall give priority to applicants proposing—

(1) to strive for zero emissions as a key strategy within the grantee's climate action plan under paragraph (2);

(2) to take a regional approach to reducing greenhouse gas emissions at ports;

(3) to collaborate with near-port communities to identify and implement mutual solutions to reduce air pollutants at ports or port facilities affecting such communities, with emphasis given to implementation of such solutions in near-port communities that are environmental justice communities;

(4) to implement activities with off-site benefits, such as by reducing air pollutants from vehicles, equipment, and vessels at sites other than the port or port facilities involved; and

(5) to reduce localized health risk pursuant to health risk reduction goals that are set within the grantee's climate action plan under paragraph (2).

(d) MODEL METHODOLOGIES.—The Administrator of the Environmental Protection Agency shall—

(1) develop model methodologies which grantees under this section may choose to use for emissions accounting and inventory practices referred to in subsection (b)(3)(C); and

(2) ensure that such methodologies are designed to measure progress in reducing air pollution at near-port communities.

(e) DEFINITIONS.—In this section:

(1) The term “Administrator” means the Administrator of the Environmental Protection Agency.

(2) The term “cargo-handling equipment” includes—

(A) ship-to-shore container cranes and other cranes;

(B) container-handling equipment; and

(C) equipment for moving or handling cargo, including trucks, reachstackers, toploaders, and forklifts.

(3) The term “eligible entity” means—

(A) a port authority;

(B) a State, regional, local, or Tribal agency that has jurisdiction over a port authority or a port;

(C) an air pollution control district; or

(D) a private entity (including any non-profit organization) that—

(i) applies for a grant under this section in collaboration with an entity described in subparagraph (A), (B), or (C); and

(ii) owns, operates, or uses a port facility, cargo equipment, transportation equipment, related technology, or a warehouse facility at a port or port facility.

(4) The term “environmental justice community” means a community with significant representation of communities of color, low-income communities, or Tribal and indigenous communities, that experiences, or is at risk of experiencing, higher or more adverse human health or environmental effects.

(5) The term “harbor vessel” includes a ship, boat, lighter, or maritime vessel de-

signed for service at and around harbors and ports.

(6) The term “inland port” means a logistics or distribution hub that is located inland from navigable waters, where cargo, such as break-bulk cargo or cargo in shipping containers, is processed, stored, and transferred between trucks, rail cars, or aircraft.

(7) The term “port” includes an inland port.

(8) The term “stakeholder” means residents, community groups, businesses, business owners, labor unions, commission members, or groups from which a near-port community draws its resources that—

(A) have interest in the climate action plan of a grantee under this section; or

(B) can affect or be affected by the objectives and policies of such a climate action plan.

(f) AUTHORIZATION OF APPROPRIATIONS.—

(1) IN GENERAL.—To carry out this subtitle, there is authorized to be appropriated \$250,000,000 for each of fiscal years 2021 through 2025.

(2) DEVELOPMENT OF CLIMATE ACTION PLANS.—In addition to the authorization of appropriations in paragraph (1), there is authorized to be appropriated for grants pursuant to subsection (a)(2) to develop climate action plans \$50,000,000 for fiscal year 2021, to remain available until expended.

The SPEAKER pro tempore. Pursuant to House Resolution 1129, the gentlewoman from Colorado (Ms. DEGETTE) and the gentleman from Oregon (Mr. WALDEN) each will control 10 minutes.

The Chair recognizes the gentlewoman from Colorado.

Ms. DEGETTE. Mr. Speaker, I yield myself such time as I may consume.

Mr. Speaker, this en bloc amendment contains a number of important amendments from within the jurisdiction of the Energy and Commerce Committee that will improve the underlying bill. I know some of the sponsors will be here to talk about their amendments in particular. I rise today in support of my amendments to H.R. 4447.

Mr. Speaker, as Members of Congress, we have a responsibility to ensure that every man, woman, and child in this country has access to clean air to breathe and safe water to drink. We also have a responsibility to help lead this Nation in doing its part to stave off the worst impacts of the climate crisis.

For far too long now, we as a body have failed at those responsibilities, and, as a result, millions of Americans are living in areas that are suffering from large amounts of pollution, and the threat that we face from climate change is growing day by day.

Right in my district, I have communities like Swansea, Elyria, and Globeville, where residents have been suffering for years from large amounts of pollution that are produced by near-by plants. These communities, at-risk communities, environmental justice communities, are bearing the brunt of our failures.

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And so the amendments that I am introducing today seek to address this injustice.

The first amendment would require the EPA to identify 100 communities across this country most affected by nearby sources of pollution and work to clean them up.

The second amendment that I have included in the bill would limit the amount of methane gas that oil drillers are allowed to release into our atmosphere from public lands. When we, as a nation, fail to enact measures like these, it is often the poorest among us who suffer the most.

Therefore, I urge my colleagues to do the right thing, to help address these crises by supporting my amendments and all of the rest of the amendments included in this en bloc amendment.

Mr. Speaker, I reserve the balance of my time.

Mr. WALDEN. Mr. Speaker, I yield myself such time as I may consume.

I rise in opposition to the amendment.

Many of these amendments reflect, frankly, the costly Green New Deal policies of the Progressive left. We think they mandate dramatic and, frankly, unrealistic changes to our energy and transportation systems with little to no consideration for affordability, or especially the reliability of energy for Americans, or our growing dependence on China for critical minerals.

That China supply chain is something I think we could find common ground on at some point, and we must, as a country.

The bill ignores hardworking blue-collar workers and rewards so-called green-collar workers instead.

Provisions that we thought we had reached common ground on in the Energy and Commerce Committee were stripped out.

These amendments will provide billions of dollars of additional grants and assistance to cities in urban areas, but at the expense of rural America. We are one country, and we should be united in assisting our people, regardless of where they live.

The amendments expand rebate programs and create a patchwork of new energy-efficiency standards, raising costs for consumers.

If there is one thing I hear most, it is people are concerned about how costs are going up, especially during this period.

They provide even more green giveaways, things like appliances and vehicles, at a time when most Americans are struggling with the economic fallout from this pandemic.

Clearly, Democrats want to spend the taxpayers' dollars on their Green New Deal wish list, following the lead of California, who has had its own set of problems with reliability on its energy grid.

None of these issues raised by these amendments have gotten a hearing or debate in committee. One of them, dealing with the Klamath River Dams around my district, would short circuit the public licensing process at the Fed-

eral Energy Regulatory Commission. It steps all over this public process that is enshrined in law.

It is a blatant attempt to legislate the removal of these dams, and wherever you are on that issue—for or against removing the dams—we think this sets a dangerous precedent by rolling back the longstanding protections and due process afforded through the well-established Federal licensing process. So both sides should be concerned about that amendment in this bill.

Republicans offered amendments to lower the cost of energy. We offered amendments to develop innovative new technologies, and we offered amendments to reduce permitting delays.

Unfortunately, Democrats refuse to let those amendments be debated on this House floor or voted on this House floor.

The Democratic amendments we are all debating today will not result in meaningful reforms to the permitting and licensing process so we can rebuild our economy and recover from the COVID pandemic.

So I have to urge my colleagues to join me in opposing these amendments and the underlying bill.

I reserve the balance of my time.

Ms. DEGETTE. Mr. Speaker, I am now pleased to yield 2 minutes to the gentlewoman from Pennsylvania (Ms. WILD).

Ms. WILD. Mr. Speaker, I support H.R. 4447 which, in broad strokes, would reform U.S. energy policy by making investments in energies that will reduce our carbon footprint.

My amendment is offered, not as a critique of the underlying bill, but to fulfill a promise made to constituents in my community that we can simultaneously invest in cleaner energy and in our workforce.

My amendment creates opportunities for workers at risk of being displaced so that they can begin or continue a career in construction.

For those in coal or other related industries, this amendment offers cost-shared grants to pay for pre-apprenticeship training in cleaner energy career paths. My amendment prioritizes grants to entities that have a successful history of placing pre-apprentice graduates into full apprenticeship programs or into gainful employment, and it supports local businesses by creating a sliding scale of Federal cost sharing, devoting a greater percentage of resources to small, local businesses rather than to larger businesses that already have the financial wherewithal to transition workers.

I urge a "yes" vote.

Mr. WALDEN. Mr. Speaker, I have one more speaker who wanted to speak, but he is not here.

I apparently have the right to close, so if the gentlewoman would like to go ahead while we wait for our other Member, I reserve the balance of my time.

Ms. DEGETTE. Mr. Speaker, I would just say that the debate has been brief,

but the substance of this en bloc amendment is large—many amendments designed in totality to deal with climate change to help our environment and to help make sure that we support disadvantaged communities in this country and communities affected by environmental justice issues.

So I would just urge a "yes" vote on this en bloc amendment, and I yield back the balance of my time.

Mr. WALDEN. Mr. Speaker, I yield myself such time as I may consume.

In closing, and I, again, I think I outlined pretty clearly some of our concerns with this measure. I think there is a lot we could find common ground on in the energy picture, certainly for working Americans and especially those dealing with the pandemic. But raising costs and increasing delays is not part of what we can support.

I urge opposition, and I yield back the balance of my time.

Mr. THOMPSON of California. Mr. Speaker, I rise today in strong support of my amendment to H.R. 4447, the Clean Economy Jobs and Innovation Act.

This commonsense amendment clarifies that energy saved through the use of geothermal pumps qualifies as renewable energy produced for the purposes of this bill.

Battling climate change and reducing greenhouse gas emissions will require an innovative, multi-pronged approach.

And geothermal pump technology must be a tool available for us to use.

Geothermal pumps work to reduce energy consumption by transferring and concentrating heat energy absorbed from the earth.

These installations can reduce energy use in buildings by over 40 percent.

My amendment clarifies that these energy savings count as renewable energy produced, recognizing that geothermal pumps remain a critical part of our effort to reduce emissions and defeat climate change.

I urge my colleagues to support this amendment.

The SPEAKER pro tempore. Pursuant to House Resolution 1129, the previous question is ordered on the amendments en bloc offered by the gentlewoman from Colorado (Ms. DEGETTE).

The question is on the amendments en bloc.

The en bloc amendments were agreed to.

A motion to reconsider laid on the table.

AMENDMENTS EN BLOC NO. 3 OFFERED BY MR. PALLONE OF NEW JERSEY

Mr. PALLONE. Madam Speaker, I have amendments en bloc at the desk.

The SPEAKER pro tempore (Ms. DELBENE). The Clerk will designate the amendments en bloc.

Amendments en bloc No. 3 consisting of amendment Nos. 12, 13, 28, 30, 51 and 91, printed in part B of House Report 116-528, offered by Mr. PALLONE of New Jersey:

AMENDMENT NO. 12 OFFERED BY MR. BURGESS OF TEXAS

At the end of subtitle F of title XII, insert the following:

**SEC. 12607. REPORT TO CONGRESS.**

The Secretary of Energy shall report to Congress on the effect of variable and distributed energy resources on the reliability

of the electric grid, specifically pertaining to natural disasters and physical or cyber attacks on the grid infrastructure.

AMENDMENT NO. 13 OFFERED BY MR. BURGESS  
OF TEXAS

Add after section 12606 the following:

**SEC. 12607. REPORT ON DUPLICATION OF EFFORTS AMONG APPLIED ENERGY PROGRAMS.**

Not later than 6 months after the date of the enactment of this Act, the Secretary of Energy shall report to Congress that includes the following:

(1) A description of potential duplication of research efforts among the applied energy programs of the Department of Energy.

(2) An evaluation of the opportunity costs associated with such duplication.

(3) Recommendations on how to streamline the research grant process.

(4) A description of the effects of combining projects that are duplicative with one another.

Page 9, after the matter relating to Section 12606, insert the following:  
Sec. 12607. Report on duplication of efforts among applied energy programs.

AMENDMENT NO. 28 OFFERED BY MR. GRAVES OF  
LOUISIANA

Page 236, line 4, strike "and".

Page 236, after line 4, insert the following:

(ii) the ability to domestically source necessary critical mineral necessary for solar production; and

Page 236, line 5, strike "(ii)" and insert "(iii)".

AMENDMENT NO. 30 OFFERED BY MR. GRAVES OF  
LOUISIANA

Page 466, line 23, after "program" insert "including increases or decreases in net imports of critical minerals as a result of activities carried out under this section".

AMENDMENT NO. 51 OFFERED BY MR. LUCAS OF  
OKLAHOMA

At the end of subtitle F of title XII, add the following:

**SEC. 126\_\_\_ SENSE OF CONGRESS.**

It is the sense of Congress that in order to reduce global emissions and meet 100 percent of the power demand in the United States through clean, renewable, or zero emission energy sources while maintaining U.S. competitiveness in science and technology, the United States must prioritize investment in domestic energy sources and supply chains, as well as investment in the research and development of exportable next-generation energy technologies.

AMENDMENT NO. 91 OFFERED BY MR. WILSON OF  
SOUTH CAROLINA

Page 425, line 20, strike "and".

Page 426, line 14, strike the period and insert "; and".

Page 426, after line 14, insert the following:

"(11) evaluate potential demonstration sites across the Department of Energy complex."

The SPEAKER pro tempore. Pursuant to House Resolution 1129, the gentleman from New Jersey (Mr. PALLONE) and the gentleman from Oregon (Mr. WALDEN) each will control 10 minutes. The Chair recognizes the gentleman from New Jersey.

Mr. PALLONE. Madam Speaker, I intend to speak in opposition to the amendment, so I reserve the balance of my time.

Mr. WALDEN. Madam Speaker, I yield myself such time as I may consume.

Madam Speaker, I rise in support of these amendments which are focused

on ways to improve options and reduce the cost of energy for American consumers. Our amendments put consumers first.

These amendments also address important issues such as grid reliability—that means when you flip the light switch, the lights come on consistently; streamlining research at the Department of Energy to promote innovation and technological development and nuclear research for advanced nuclear power.

There are also much-needed efforts to reduce our reliance on critical minerals, especially from China. Republicans have been sounding the alarm about our growing reliance on critical minerals and their use in all sorts of energy technologies. This is how we make batteries, windmills, and solar panels and we have become too dependent on foreign countries for those critical minerals.

We are also very concerned that the underlying bill, which is based on the Green New Deal, will trade away our energy independence and make us more reliant on countries like China and their abysmal record on human rights, environment, and trade.

So, Madam Speaker, I urge my colleagues to join me in supporting these commonsense amendments to H.R. 4447, and I reserve the balance of my time.

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Mr. PALLONE. Madam Speaker, I yield myself such time as I may consume. I will be speaking in opposition to this bloc of amendments.

My colleagues on the other side of the aisle have argued that this legislation picks winners and losers, and that amendments such as these might help level the playing field. But I don't think that is the case.

The Clean Economy Jobs and Innovation Act authorizes investments in a broad range of programs to unleash American energy innovation and reform outdated policies that govern how we produce, distribute, and consume energy. Rather than picking winners and losers, this bill takes a portfolio approach to supporting the transition to a clean energy economy—a transition that is already underway, but not at the pace needed to avoid the worst and most costly consequences of climate change.

For years, rapidly declining costs for solar, wind, storage, and other technologies have made them cost-competitive with and, in many cases, more cost-effective than conventional technologies.

The Clean Economy Jobs and Innovation Act doubles down on these market trends, providing the tools, investments, and policy reforms needed for the United States to lead the world in transitioning to a cleaner future.

At the same time, the legislation invests in research, development, and deployment of technologies to reduce emissions from traditional sources of

pollution. Importantly, it invests in carbon capture, utilization, and storage to help reduce emissions from existing facilities that are particularly challenging to decarbonize, especially in the industrial sector.

So rather than picking winners and losers, the Clean Economy Jobs and Innovation Act includes a broad array of tools to modernize our energy system. Taken together, these tools will help make our energy system cleaner, more efficient, more resilient, and more reliable.

That is why many pieces of this legislation have enjoyed such strong bipartisan support, because they are commonsense investments that will create jobs, protect consumers, and reduce pollution.

But these proposed amendments are not good faith efforts to build on this bipartisan foundation. They are an attempt to water down this legislation and slow the transition to a clean economy.

When we look across the globe, we see that this transition is already underway, but that the United States is falling behind. The real question is whether we want to regain our competitive edge and global leadership in technology and innovation or whether we cede to the competition.

I urge my colleagues not to be distracted by talking points about picking winners and losers and focus on who actually wins when we invest in innovation. Consumers win, workers win, and our environment wins.

For these reasons, Madam Speaker, I oppose the en bloc amendments, and I reserve the balance of my time.

Mr. WALDEN. Madam Speaker, I yield 3 minutes to the gentleman from Oklahoma (Mr. LUCAS), who is the top Republican on the Science, Space, and Technology Committee and the former chairman of the Agriculture Committee.

Mr. LUCAS. Madam Speaker, my amendment contained within this en bloc emphasizes a critical priority for House Republicans. It expresses the sense of Congress that the United States must prioritize investment in domestic energy sources and supply chains, as well as in research and development of exportable next-generation energy technologies.

This is absolutely necessary if we are going to maintain U.S. competitiveness in science and technology while reducing emissions. These priorities should play a key role in any realistic and responsible global clean energy strategy.

With the current public health crisis, the need for sustainable domestic energy chains has never been more important. Whether it is medical supplies or energy sources, we need to be able to depend on our own resources if foreign supply is voluntarily or involuntarily cut off. That requires us to invest in basic research, which drives breakthrough technologies.

For example, due in part to Federal investment in R&D that has led to new

horizontal drilling and hydraulic fracturing technology, the American shale revolution has led the U.S. to be a net exporter of natural gas since 2018. This is how basic research results in energy independence, an achievement our Nation must prioritize for long-term success.

Basic research is also instrumental in the fight against climate change. For emissions reduction technologies like carbon capture, storage, and utilization to be effective, they must be used globally.

Over the past 20 years, Asia has accounted for 90 percent of all coal-fired capacity built worldwide, and these plants have potentially long operational lifetimes ahead of them. We can't force them to change their energy profile and amount of emissions, but we can make cleaner energy technology appealing by making it efficient, inexpensive, and commercially marketable.

If fundamental clean energy research is conducted here in the United States and developed into deployable technology, we can export the resulting knowledge, tools, and energy itself, as I mentioned with natural gas. By investing in this way, we can grow U.S. industry, reduce our reliance on foreign countries for innovation, and, most importantly, make a significant impact on mitigating the effects of global climate change.

If we want to innovate, and we want to export our technologies, we have to focus on breakthrough science, not on propping up mature energy technologies and slowing the development of new ones.

Madam Speaker, I urge my colleagues to support this position, my amendment, and this en bloc.

Mr. PALLONE. Madam Speaker, I yield myself such time as I may consume.

Madam Speaker, I include in the RECORD letters that we received in support of the legislation from U.S. PIRG and the League of Conservation Voters.

DEAR KATIE: On behalf of the U.S. Public Interest Research Group, Environment America and our tens of thousands of members, we urge you to support the Clean Economy Jobs and Innovation Act (H.R. 4447). U.S. PIRG and Environment America will consider scoring final passage and certain amendments on our annual scorecard.

The American West is on fire, East Coast and Midwest communities are facing major flooding, and southern states are being battered with hurricanes. The climate crisis is here and if we want to have any chance of avoiding its worst impacts, it is imperative that we take swift action. The "Clean Economy Jobs and Innovation Act" marks significant progress in the transition to a clean energy future and in the reduction of greenhouse gas emissions.

Among the most impactful pieces, the legislation includes provisions that:

Phase out the use of hydrofluorocarbons (HFCs), which are extraordinarily potent climate pollutants, with hundreds to thousands of times the heat-trapping power of CO<sub>2</sub>;

Reauthorize the Energy Efficiency Conservation and Block Grant (EECBG) program, which provides \$17.5 billion in funding

for schools, homes, government buildings, and manufacturing facilities to improve efficiency and deploy energy-efficient technologies;

Invest over \$36 billion for transportation electrification, including grants and rebates to deploy electric vehicles and related charging infrastructure;

Direct DOE to establish new model building codes for states to improve energy efficiency;

Preserve a policy that will eliminate all fossil fuel-generated energy from federal buildings by the year 2030.

In addition to supporting the overarching bill, U.S. PIRG and Environment America urge the following votes on amendments:

Yes on Amendment 32. This amendment, sponsored by Reps. Haaland, Tlaib and Ocasio-Cortez increases authorizations for renewable energy R&D accounts by 50% and adds an authorization for total funding for research, development, demonstration and commercialization activities for energy efficiency and renewable energy R&D.

Yes on En Bloc 1, Yes on En Bloc 2, No on En Bloc 3, YES on En Bloc 4.

Sincerely,

KATIE MURTHA,  
Vice President of Government Affairs,  
U.S. PIRG and Environment America.

LCV,  
WASHINGTON, DC, SEPTEMBER 24, 2020.  
Re Support H.R. 4447 and its pro-environment amendments.

DEAR REPRESENTATIVE: The League of Conservation Voters (LCV) works to turn environmental values into national priorities. Each year, LCV publishes the National Environmental Scorecard, which details the voting records of members of Congress on environmental legislation. The Scorecard is distributed to LCV members, concerned voters nationwide, and the media.

As the House debates H.R. 4447, the Clean Economy Jobs and Innovation Act, LCV urges you to support the pro-environment amendments and reject weakening or anti-environment amendments, as listed below, and vote YES on final passage. This bill includes many great provisions to develop and deploy renewable and distributed energy resources; improve the efficiency of our homes, schools, and businesses; electrify our transportation sector; modernize the grid and enhance its resiliency; prioritize the needs of environmental justice communities; reduce climate pollution from industrial and traditional sources, and from ambient air. Though we do not support increased funding for projects that could extend the life of fossil fuel-burning power plants or aging nuclear power infrastructure or prop up undemonstrated new nuclear projects, many of the amendments would improve those areas and build upon the significant positive environmental aspects of the bill. We urge support for amendments listed below offered singly or en bloc that will make the bill even stronger by protecting our communities and environment while investing in clean energy research, development, and deployment. And we urge you to reject anti-environment amendments listed below offered singly or en bloc.

PRO-ENVIRONMENT AMENDMENTS INCLUDE

Haaland (NM), Tlaib (MI), Ocasio-Cortez (NY) #169

This amendment would increase the authorization amounts for renewable energy research and development by 50 percent such that the total renewable energy innovation funding in the package would exceed that of fossil fuel programs authorized in the bill.

EN BLOC #1

94. DeGette (CO) #122—Vote Yes.

This amendment would require that the Bureau of Land Management (BLM) update its rules regarding methane emissions from oil and gas wells leased on public lands and that operators capture 85 percent of leaked methane—an air pollutant and climate super-pollutant—within 3 years.

24. Escobar (TX) #77—Vote Yes.

This amendment would require that the DOE give special consideration to institutions of higher education that serve communities of color, so-called minority serving institutions, in choosing entities for grants, contracts, or cooperative agreements related to solar energy research and development.

52. Luján (NM), Castor (FL) #110—Vote Yes.

This amendment would make community solar projects more accessible for all consumers and encourage states to set in place policies to advance community solar.

72. Quigley (IL) #13—Vote Yes.

This amendment would direct the General Services Administration, as feasible, to employ technologies and strategies to reduce bird collisions at public buildings.

EN BLOC #2

2. Barragán (CA), Beyer (VA), Lee, Barbara (CA), et al. #57—Vote Yes.

This amendment would establish a Climate Smart Ports program at the Environmental Protection Agency (EPA) with a \$1B/year authorization. The program would provide grants for deploying zero emissions technologies and clean energy microgrids at ports and with port users.

3. Barragán (CA) #59—Vote Yes.

This amendment would increase by \$40M per year the authorization for EPA's Environmental Justice Small Grants and Collaborative Problem-Solving Cooperative Agreements Programs, and Community Action for a Renewed Environment (CARE) I and II grants.

93. Blumenauer (OR) #152—Vote Yes.

This amendment would require DOE to compile and report upon funding provided to the Light Water [nuclear] Reactor Program, and establish an advisory committee to report on this annually.

7. Blunt Rochester (DE) #44—Vote Yes.

This amendment would provide \$18B to upgrade energy efficiency and install clean energy systems in critical public buildings like schools and hospitals.

16. Clarke, Yvette (NY) #2—Vote Yes.

This amendment would establish an EPA pilot program to provide grants, rebates and low-cost revolving loans to projects that replace an existing diesel-powered refrigeration unit in a heavy-duty vehicle with an electric unit or install electric shore power infrastructure to decrease idling of refrigerated trucks.

25. Finkenauer (IA) #131—Vote Yes.

This amendment would require certain labor standards, including prevailing wages, for projects getting funding from provisions in the bill.

35. Hayes (CT), Cárdenas (CA) #71—Vote Yes.

This amendment would set aside \$100M of the \$130M/year reauthorization of EPA's Clean School Bus Program for grants to replace existing fossil fuel-powered school buses with zero emission school buses.

61. Omar (MN) #172—Vote Yes.

This amendment would require that the U.S. Treasury identify and quantify the economic cost of any fossil fuel subsidies not eliminated by this bill or its amendments.



74. Rouda (CA) #11—Vote Yes.

This amendment would allow states to set appliance energy efficiency standards if the Department of Energy (DOE) missed statutory deadlines to review and issue new standards.

88. Waters (CA) #103—Vote Yes.

This amendment would require that the DOE analyze state grants on smart manufacturing to see if they benefit diverse communities.

EN BLOC #4

34. Harder (CA) #135—Vote Yes.

This amendment would require institutions of higher education in the Centers of Excellence program to consider the public health effects of wildfire smoke on outdoor workers and improves required outreach and collaboration with states, tribes, and local government and other institutions.

46. Levin, Mike (CA), Bonamici (OR), Neguse (CO) #37—Vote Yes.

This amendment would create a program to improve wildfire smoke modeling and predictions of smoke severity and direct the EPA to better research the negative health effects from wildfire smoke.

68. Pingree (ME), Spanberger (VA) #29—Vote Yes.

This amendment would add agricultural, grazing, and forestry practices to DOE's priorities in its carbon removal research and development, in order to advance natural systems' ability to capture and store carbon.

ANTI-ENVIRONMENT AMENDMENTS INCLUDE

EN BLOC #3

91. Wilson, Joe (SC) #40—Vote No.

This amendment would require DOE to evaluate potential sites in the DOE footprint for advanced nuclear research and demonstration programs.

We urge you to SUPPORT H.R. 4447 and the pro-environment amendments listed above, and oppose anti-environment amendments. We will strongly consider including votes on this legislation in the 2020 Scorecard. If you need more information, please call my office at (202) 785-8683 and ask to speak with a member of our government relations team.

Sincerely,

GENE KARPINSKI,  
*President.*

Mr. PALLONE. Madam Speaker, I wanted to reference some parts of this.

With regard to the League of Conservation Voters, they specifically say that, with regard to H.R. 4447, they urge support for the legislation in general and specifically ask that we reject weakening the anti-environmental amendments as listed below, and that includes this amendment en bloc No. 3. They say that we should vote "no" because the amendment would require the Department of Energy to evaluate potential sites in the DOE footprint for advanced nuclear research and demonstration programs.

In addition to that, in the letter from U.S. PIRG, it says: "On behalf of the U.S. Public Interest Research Group, Environmental America, and our tens of thousands of members, we urge you to support the Clean Economy Jobs and Innovation Act."

It talks about how the West is on fire and the hurricanes. "The climate crisis is here, and if we want to have any chance of avoiding its worst impacts, it is imperative that we take swift ac-

tion. The Clean Economy Jobs and Innovation Act marks significant progress in the transition to a clean energy future and in the reduction of greenhouse gas emissions."

It goes on to talk about the various provisions and how they are helpful during the climate crisis. Then, it also specifically asks and urges a "no" vote on this en bloc amendment No. 3 because they do not consider that useful in terms of addressing the climate crisis, and it is actually counter to environmental concerns.

Madam Speaker, I reserve the balance of my time.

Mr. WALDEN. Madam Speaker, I yield myself such time as I may consume.

Madam Speaker, I just want to say in response to my friend and the words that he read, the groups he has identified, the notion that they would have these statements about wildfires in the West when, for 20 years, I have battled them to try to get more active forest management in our Western forests, and they oppose nearly everything we have tried to do to get our forests back into balance with nature. It is just a bit absurd today, as someone who has seen the devastation, and then seeing their politics and the fundraising they do off this and the scare tactics they level, and then the destruction that occurs to habitats, wildlife, forests, and forested communities. And they stand in the way of it all. So the gentleman can have them.

Madam Speaker, I yield 2 minutes to the gentleman from Ohio (Mr. JOHNSON).

Mr. JOHNSON of Ohio. Madam Speaker, I rise today to speak about a missed opportunity, a missed opportunity to deliver for the American people an energy strategy that advances America's exceptionalism. Instead, while this energy package isn't quite the radical left's Green New Deal, it is certainly inspired by it.

Madam Speaker, you have heard about the dozens of other amendments Republicans offered to show our vision for America's energy future, including two of mine that would break down regulatory barriers to export more American LNG and advance America's nuclear power technology. But those amendments were ruled out of order by the majority.

What we are left with is unserious legislation that picks winners and losers, throws billions of taxpayer dollars at green pet projects, and lacks the needed regulatory reforms to bring America's energy economy into the 21st century.

Energy dominance is key for America to remain at the head of the global leadership table. Unfortunately, today was a missed opportunity to strengthen America's position, an exercise in futility since the Senate will not consider this bill, nor should it.

Madam Speaker, while I support this Republican en bloc of amendments, I urge my colleagues to oppose the underlying bill.

Mr. WALDEN. Madam Speaker, may I ask how much time each side has remaining.

The SPEAKER pro tempore. The gentleman from New Jersey has 6 minutes remaining. The gentleman from Oregon has 4½ minutes remaining.

Mr. PALLONE. Madam Speaker, I yield myself such time as I may consume.

Madam Speaker, first of all, I wanted to rebut what was just said by my colleague on our committee from the other side. The reality is that this bill is designed with the hope that we can come to a consensus on an energy package with the Senate on a bipartisan basis.

In fact, Senator LISA MURKOWSKI and Senator JOE MANCHIN are putting together an emergency package, which is not exactly the same as this, but the idea would be that we would have some kind of informal conference and actually adopt a bill that we have a consensus on before the end of this session. I will point out that we actually worked very hard to try to do that 2 years ago and came very close to accomplishing it.

So I don't want anyone here to think that this is a message vehicle. This is a vehicle that is exactly designed to try to reach an agreement on an energy package, albeit not a big one, that we could actually get signed into law by the end of the year.

Madam Speaker, I also want to rebut the idea—somehow there is always this suggestion that when you do anything on our side of the aisle that it is not helping create more jobs. The reality is this bill is designed to do exactly that, to create more jobs. The bill supports the energy industry by providing resources for projects, jobs, and technology interests, which are looking forward and necessary for the energy transition.

Clean energy, renewables, and energy efficiency sectors employ millions of Americans. As demand for these technologies increases and as prices decrease, these sectors will continue to grow. However, COVID-19 has harmed energy jobs across the board. Delayed or canceled projects, as well as social distancing, have particularly affected clean energy jobs and energy efficiency jobs. So this bill supports the necessary sectors by investing in technologies and jobs that are future-looking and can meet the challenge of climate change.

My colleagues on the other side keep thinking of the energy sector as something that is totally oriented toward fossil fuels. The reality is that other countries, and us, we have to move toward a clean energy economy that creates jobs. This bill includes workforce provisions that help provide training and transition resources for the energy sector.

The bill includes Chairman RUSH's Blue Collar to Green Collar Jobs Development Act that establishes a nationwide program at the Department of Energy to improve education and energy-

related industries. It trains underserved groups, including women, minorities, veterans, and unemployed energy workers, for energy careers. It supports the industries and jobs we need to navigate the energy transition.

Again, I am not someone who says that we are only going to have certain energy sectors. We are going to need everything. But the bottom line is, we do have to think that, in the future, there is going to be a lot more in the clean energy sector than solar and wind. If we don't start investing in and promoting the technologies, we are going to be left behind, and we are going to lose jobs. This helps us gain those jobs.

I reserve the balance of my time, Madam Speaker.

Mr. WALDEN. Madam Speaker, I yield myself such time as I may consume.

Madam Speaker, I appreciate the comments of my friend from New Jersey, the chairman of our committee. Unfortunately, however, the fact of the matter on the blue collar to green collar jobs program is that the workforce training program would open the door for grants to help Americans get the education resources they need to be able to work in these areas. We had agreed that both those who worked in coal jobs and those who worked in nuclear jobs would be eligible for those grants as well.

The underlying proposal that came out of our committee provided for workforce training for those men and women who work in coal-related jobs as well as in nuclear, but that got stripped out.

So, Madam Speaker, if you are working in the nuclear energy industry or you are somehow connected to the coal industry, you have just been taken out of the mix to get additional grants for workforce training.

Madam Speaker, I yield 2 minutes to the gentleman from Louisiana (Mr. GRAVES).

□ 1215

Mr. GRAVES of Louisiana. Madam Speaker, I thank my friend from Oregon for yielding.

Madam Speaker, first of all, I respond to comments earlier from my friend from New Mexico (Mr. LUJÁN), who noted that the Congressional Budget Office's score on this bill was zero.

Madam Speaker, as we all know, this bill authorizes \$135 billion in new programs. And so if my friend from New Mexico is suggesting that this whole thing is a charade and that my friends across the aisle do not anticipate actually seeking appropriations for this legislation, then it would be very interesting to hear those comments, but I think to suggest that the bill does not implicate appropriations is simply misleading, and I would urge that we have more transparency in this process.

Madam Speaker, we have two amendments that are in this en bloc, and

what they do is, they focus on the critical minerals, the rare Earth minerals that are important components of renewable energy. It is what is used in solar panels. It is what is used in energy storage technology. You can't suddenly say, Hey, we are going to use renewables, and not address this component.

What happens is the United States has become energy independent, and we have done that because of the policies that have been enacted over the last few years. What this bill does is, by not addressing the critical minerals, we become energy dependent again. We become dependent upon China, dependent upon Africa, and other nations where China controls the resources. Why would we do that to ourselves?

So we have an amendment in this en bloc that helps to address that because we have those minerals right here in the United States. Why in the world would we go mine them in other countries that have lower environmental standards to where you have a net adverse impact on the global environment?

Madam Speaker, this is trying to nationalize California policy—the 8th worst emissions in the United States is in California, twice the electricity costs of my home State of Louisiana. Why would we want to do that to Americans, disproportionately impacting the poor?

So we set up this farce process where this amendment goes down to where we miss the opportunity to ensure that we truly advance an America-first independent energy policy.

Madam Speaker, I urge opposition to this underlying legislation.

Mr. PALLONE. Madam Speaker, I yield myself such time as I may consume.

Madam Speaker, what I get from the other side of the aisle is that somehow they think we are going to live in splendid isolation here. I mean, that might have been nice in the 19th century or the 18th century, or whenever, but that is not the reality of today. The reality is we are in constant competition around the world.

And while other countries move towards a clean economy—whether it is Europe, Japan, whatever it is—they are then investing—not just them, China, India—they are then investing in these new technologies. And if I could use solar energy as an example: If we had taken the initiative a few years ago to actually invest in solar panels and wind turbines and the technologies that were coming about, we would have been able to sell a lot more of those panels and those turbines around the world and also use them for our own clean economy or clean initiatives.

Instead, we didn't, and now most of the solar panels are built in China, exported to the United States.

You cannot fall behind. If you fall behind in these technologies, then you are not going to be competitive, and you are going to lose out on this race,

and you are going to have fewer jobs. You can't just put your head in the sand, like some kind of ostrich, and say to the rest of the world, We don't care, it doesn't matter. It does matter.

And all we are saying in this bill—and this is not the type of overall major climate bill that we would have to do eventually—this is a down payment. And the idea is to look at certain things that we can do now to invest in technology, to look at innovation so that we don't fall behind, and we create the clean jobs of the future.

In addition to that, the bill deals with energy efficiency, which is something that my colleagues on the other side of the aisle have never opposed—more resiliency. These are things that are important to deal with the climate changes that have occurred, to deal with the wildfires, to deal with the hurricanes, so that our grid and everything is more resilient and we can deal with the impact of the climate crisis.

Madam Speaker, I know that I am not going to be able to convince most Republicans to support this. I am hoping that some will, and I am hoping that when we get this passed and we have conversations with the Senate, that we can actually do some kind of down payment in terms of creating the clean jobs of the future. And then in the next session of Congress, we will do a much larger initiative dealing with climate change.

Madam Speaker, I reserve the balance of my time.

Mr. WALDEN. Madam Speaker, may I inquire how much each side has remaining.

The SPEAKER pro tempore. The gentleman from Oregon has 1½ minutes remaining. The gentleman from New Jersey has 30 seconds remaining.

Mr. WALDEN. Madam Speaker, I am prepared to close, and I yield myself such time as I may consume.

Madam Speaker, the chairman and I have had a wonderful working relationship during our time on the Committee on Energy and Commerce.

I understand where he is headed with this. I just wish some of the things had been agreed to in a bipartisan way and the committee would have held firm as we moved forward with energy legislation. Everybody has got to do it their own way.

I always figured that if I could come out of the House with a 300- or 400-vote margin and a big bipartisan push, we would have a lot more leverage with our friends in the Senate, regardless of who controlled the Senate. But a different path has been chosen here.

Part of what we are concerned about on the Republican side is this supply chain vulnerability. And what we are arguing here is that we have witnessed what happens when we have a supply chain vulnerability during this pandemic. In fact, the very face mask that we are wearing—this one, actually, my wife made—we couldn't get because China locked it down.

We have seen that play out. Heck, you couldn't even get toilet paper and

paper towels. Now that wasn't necessarily a China problem, but supply chains matter. Reliability on supply chains matters.

And we have, as a country, locked up access to many of our areas on mining where you would get critical minerals. And we have relied on other countries and now, principally, China for our critical mineral supply chain. And you have to have that for our mobile phones, you have to have it for batteries. And a lot of things, frankly, we all agree on, is the future for technology requires critical minerals.

And meanwhile, China has gone around the world and locked up these resources in Africa and elsewhere, and as a result, they are really dominant in this space. And I don't want us to be reliant on any other country, if we can avoid it. I realize we are global and there are things we don't have here that we need to acquire elsewhere.

Madam Speaker, we offered up these amendments and we look forward to further debate.

Mr. Speaker, I yield back the balance of my time.

Mr. PALLONE. Madam Speaker, I yield myself such time as I may consume.

Madam Speaker, I am certainly sympathetic to this idea that we have to do more manufacturing here and not rely on overseas, but I believe very strongly that is what this bill is all about. It accomplishes the goal of moving forward with clean energy innovation and technology and bringing more manufacturing here. And I believe the amendment, this en bloc amendment, will not help in that regard and, in fact, makes this a bill less prone to accomplish the goal of clean energy and job creation.

Madam Speaker, I would urge opposition to the en bloc amendment, and I yield back the balance of my time.

The SPEAKER pro tempore. Pursuant to House Resolution 1129, the previous question is ordered on the amendments en bloc offered by the gentleman from New Jersey (Mr. PALLONE).

The question is on the amendments en bloc.

The en bloc amendments were rejected.

A motion to reconsider was laid on the table.

AMENDMENT NO. 32 OFFERED BY MS. HAALAND

The SPEAKER pro tempore. It is now in order to consider amendment No. 32 printed in part B of House Report 116-528.

Ms. HAALAND. Madam Speaker, I have an amendment at the desk.

The SPEAKER pro tempore. The Clerk will designate the amendment.

The text of the amendment is as follows:

Page 4, in the table of contents, after the matter relating to section 2562, insert the following:

PART 5—ENERGY EFFICIENCY AND RENEWABLE ENERGY RESEARCH AND DEVELOPMENT

Sec. 2571. Authorization of appropriations.

Page 241, strike lines 21 through 25 and insert the following:

- (1) \$441,000,000 for fiscal year 2021;
- (2) \$463,050,000 for fiscal year 2022;
- (3) \$486,202,500 for fiscal year 2023;
- (4) \$510,512,625 for fiscal year 2024; and
- (5) \$536,038,257 for fiscal year 2025.

Page 254, strike lines 4 through 8 and insert the following:

- (1) \$163,800,000 for fiscal year 2021;
- (2) \$171,990,000 for fiscal year 2022;
- (3) \$180,589,500 for fiscal year 2023;
- (4) \$189,618,975 for fiscal year 2024; and
- (5) \$199,099,923 for fiscal year 2025.

Page 275, strike lines 4 through 8 and insert the following:

- “(1) \$182,062,500 for fiscal year 2021;
- “(2) \$199,125,000 for fiscal year 2022;
- “(3) \$216,187,500 for fiscal year 2023;
- “(4) \$225,750,000 for fiscal year 2024; and
- “(5) \$227,812,500 for fiscal year 2025.”.

Strike page 295, line 23, through page 296, line 18, and insert the following:

- “(1) \$229,125,000 for fiscal year 2021, including \$168,870,000 for marine energy and \$60,255,000 for hydropower research, development, and demonstration activities;
- “(2) \$236,517,450 for fiscal year 2022, including \$174,454,800 for marine energy and \$62,062,650 for hydropower research, development, and demonstration activities;
- “(3) \$244,187,873 for fiscal year 2023, including \$180,263,343 for marine energy and \$63,924,530 for hydropower research, development, and demonstration activities;
- “(4) \$252,147,209 for fiscal year 2024, including \$186,304,944 for marine energy and \$65,842,265 for hydropower research, development, and demonstration activities; and
- “(5) \$260,406,837 for fiscal year 2025, including \$192,589,304 for marine energy and \$67,817,533 for hydropower research, development, and demonstration activities.”.

Page 299, after line 8, insert the following:

**PART 5—ENERGY EFFICIENCY AND RENEWABLE ENERGY RESEARCH AND DEVELOPMENT**

**SEC. 2571. AUTHORIZATION OF APPROPRIATIONS.**

There are authorized to be appropriated to the Secretary of Energy or their designee to carry out research, development, demonstration, and commercial application activities under the Office of Energy Efficiency and Renewable Energy—

- (1) \$3,228,500,000 for fiscal year 2021;
- (2) \$3,250,775,500 for fiscal year 2022;
- (3) \$3,291,488,750 for fiscal year 2023;
- (4) \$3,334,238,188 for fiscal year 2024; and
- (5) \$3,379,125,097 for fiscal year 2025.

The SPEAKER pro tempore. Pursuant to House Resolution 1129, the gentleman from New Mexico (Ms. HAALAND) and a Member opposed each will control 5 minutes.

The Chair recognizes the gentleman from New Mexico.

Ms. HAALAND. Madam Speaker, I rise today to offer this amendment with my cosponsors, Representatives TLAI and OCASIO-CORTEZ, in order to speed us along the path to a renewable energy future.

Our amendment increases the authorization levels for solar, wind, geothermal and water-based energy research and development programs by 50 percent over the levels currently in the bill for each of the 5 years the bill covers.

The amendment also adds an overall authorization level for research, development, deployment, and commercial application activities within DOE's Office of Energy Efficiency and Renewable Energy. For each of the 5 years in the bill, those authorization levels are

110 percent of the funding levels for the carbon pollution reduction R&D activities in the bill.

Technological innovation has long been seen as an important part of our efforts to take on climate change, increase access to energy, and reduce air pollution. Increasing the efficiency of solar cells of wind turbines, developing new marine hydrokinetic generation technologies and lighter electric motors, and improving the storage capacity and lifetime of batteries are just some of the innovations that will help us get to a 100 percent clean energy system.

But according to the International Energy Agency's Global Status of Clean Energy Innovation Report for 2020, research and development spending on clean energy by its member countries has been relatively flat since 2012, after a doubling spurt between 2000 and 2012. Despite that doubling, IEA member country public spending on R&D remains below the levels it was in the 1980s.

Private sector spending has fluctuated with economic cycles—while there have been some growth years, the 2007–2008 financial crisis and the 2014 oil price crash led to slowdowns in corporate clean energy R&D, and the share of global early stage venture capital investment going into clean energy has halved since 2012.

And now, the COVID-19 pandemic has had a dramatic negative impact on private sector funding for clean energy innovation, which is likely to cause setbacks in the timeline for developing and improving clean energy technologies.

The pandemic will also hurt demonstration projects and early adoption of technologies that provide essential opportunities for us to “learn by doing” and figure out how to overcome practical obstacles to widespread deployment of new technologies.

The timing is extremely unfortunate because, as the IEA report makes clear, we need to be accelerating clean energy innovation to give the world the best chance to achieve our climate goals, and without strong sustained investment, our chances of success are dwindling.

Madam Speaker, that is why our amendment is so important. With climate change accelerating, we can't afford to wait. We need to develop and deploy renewable energy widely soon, and to do that, the Federal Government needs to invest in R&D and in deployment and the technology maturation needed to enable widespread adoption of renewables and their integration into our energy system.

This clean energy investment will be good for our planet and good for taxpayers. Public renewable energy R&D in the United States has delivered a 27 percent return on investment since 1975, with the benefit-to-cost ratio of 33–1. By making these investments, we are sending the message that renewable energy is our future, and we are committing to making that a reality.

Madam Speaker, I urge my colleagues to join us in sending that message by voting for our amendment, and I reserve the balance of my time.

Mr. WALDEN. Madam Speaker, I claim the time in opposition to the amendment.

The SPEAKER pro tempore. The gentleman from Oregon is recognized for 5 minutes.

Mr. WALDEN. Madam Speaker, I yield such time as he may consume to the gentleman from Texas (Mr. WEBER), the distinguished member of the Committee on Science, Space, and Technology.

Mr. WEBER of Texas. Madam Speaker, I thank the gentleman for yielding.

Madam Speaker, I rise in opposition to this amendment.

We have heard the same sensible logic from our side of the aisle countless times over the past 24 hours as we have debated this bill and these amendments. The package is over-funded, incorrectly prioritized, and a partisan process nightmare.

So in a way, I guess it is fitting that this is the only standalone amendment we will consider today. It is one that is seeking even more funding for one of this bill's most misguided priorities.

□ 1230

The United States Chamber of Commerce said it best when they penned that this bill needed to avoid "contentious and extraneous issues" for this bill to be supported.

Let me tell you, the Democrats' unyielding focus on massive increases to applied energy and, in particular, for the DOE's already well-funded Office of Energy Efficiency and Renewable Energy is the most contentious issue here.

By now, I am sure you can all say it along with me, but I cannot stress it enough: It is basic research, not applied energy, that will put us in the best global position to develop the long-term clean energy solutions to address our changing climate and, yes, lay the foundation for our clean and affordable energy future for generations to come.

The Office of Energy Efficiency and Renewable Energy has grown considerably, starting with what was supposed to be a temporary recovery in the American Recovery and Reinvestment Act of 2009. Remember that? Temporary.

What was it President Reagan said? There is nothing more permanent on Earth than a temporary government program. Here is a great example. Today it is funded at \$2.8 billion, with a B, which is more than DOE's research in fossil energy, nuclear energy, electricity, and cybersecurity combined. And let me just say, there is no clean energy future without nuclear energy.

H.R. 4447, just the base text, would spend more than \$3.7 billion on the EERE programs. Really? This amendment, which seeks to increase authorizations by an additional 50 percent, can only be labeled as irresponsible.

This is a contentious and extraneous issue. The country doesn't have unlimited Federal research funds. It just doesn't. I am sorry to disappoint y'all. It doesn't.

Look, it is difficult, but we must set priorities and invest strategically. That is our job, folks. That is our job. This amendment does exactly the opposite.

As the ranking member of the Subcommittee on Energy of the House Science Committee, I support an all-of-the-above energy strategy, and, yes, that includes renewable energy. Texas is number one in wind energy. But supporting an all-of-the-above energy strategy does not mean increasing Federal investment for every R&D program in perpetuity.

What did Reagan say? Closest thing to eternity.

I would like to ask my friends on the other side of the aisle, when—w-h-e-n—do we let the mature technologies of wind—w-i-n-d—and solar stand up on their own in the market without continued funding to "reduce market barriers"? Market barriers? The only barrier is commonsense thinking that we don't need to increase that funding. That is the barrier we are struggling against here.

When do we acknowledge that the solar industry has an average annual growth rate of—check this out—49 percent? And wind power has tripled over the past decades, Texas being the leader. These industries don't need our support for deployment. They are already in the market and growing, for Pete's sake.

This kind of duplicative and short-sighted strategy, while it may result in politically expedient talking points—I give y'all that.

Madam Speaker, I hope that we will vote against this. I hope you will help us, Madam Speaker.

Ms. HAALAND. Madam Speaker, in closing, I would just like to say it again: Technological innovation has long been seen as an important part of our efforts to take on climate change and increase access to energy, and my amendment will strengthen our investment in innovation.

I urge my colleagues to support this amendment, and I yield back the balance of my time.

The SPEAKER pro tempore. Pursuant to House Resolution 1129, the previous question is ordered on the amendment offered by the gentleman from New Mexico (Ms. HAALAND).

The question is on the amendment.

The question was taken; and the Speaker pro tempore announced that the ayes appear to have it.

Ms. HAALAND. Madam Speaker, on that I demand the yeas and nays.

The SPEAKER pro tempore. Pursuant to section 3 of House Resolution 965, the yeas and nays are ordered.

Pursuant to clause 8 of rule XX, further proceedings on this question are postponed.

#### PARLIAMENTARY INQUIRY

Mr. WALDEN. Madam Speaker, point of parliamentary inquiry.

The SPEAKER pro tempore. The gentleman will state his parliamentary inquiry.

Mr. WALDEN. Madam Speaker, I thought we had gotten past where we couldn't reconsider, that was part of the motion, and so a recorded vote was not in order.

The SPEAKER pro tempore. The yeas and nays were ordered on the amendment, and further proceedings were postponed pursuant to clause 8 of rule XX.

AMENDMENTS EN BLOC NO. 4 OFFERED BY MR. LEVIN OF CALIFORNIA

Mr. LEVIN of California. Madam Speaker, as the designee of Chairman PALLONE, pursuant to House Resolution 1129, I offer amendments en bloc.

The SPEAKER pro tempore. The Clerk will designate the amendments en bloc.

Amendments en bloc 4 consisting of amendment Nos. 33, 34, 46, 53, 62, 63, 68, 76, 82, and 92, printed in part B of House Report 116-528, offered by Mr. LEVIN of California:

AMENDMENT NO. 33 OFFERED BY MR. HARDER OF CALIFORNIA

Redesignate section 12606 as section 12607. Insert after section 12605 the following new section:

**SEC. 12606. WILDFIRE HAZARD SEVERITY MAPPING FOR ELECTRIC TRANSMISSION AND DISTRIBUTION INFRASTRUCTURE.**

(a) MAP REQUIRED.—Not later than 2 years after the date of the enactment of this section, the Secretary of Energy shall—

(1) use the most recent LANDFIRE data to generate a geospatial map for the conterminous United States that depicts wildfire risk to electric utilities that—

(A) manage electric transmission infrastructure or rights-of-ways on public lands; and

(B) maintain equipment that is at risk of igniting or being impacted by wildland fire; and

(2) disseminate the information generated under paragraph (1) in an appropriate format for use by electric utilities in order to—

(A) improve understanding of wildfire risk; (B) identify areas and assets at the highest risk;

(C) prioritize infrastructure maintenance and vegetation management;

(D) identify opportunities for energy storage and microgrid projects; and

(E) develop plans for regular and emergency access to manage and mitigate wildfire risk.

(b) CONSULTATION.—In carrying out subsection (a), the Secretary of Energy shall consult with—

(1) the Secretary of Agriculture, acting through the Chief of the Forest Service;

(2) the Secretary of the Interior;

(3) the Administrator of the Federal Emergency Management Agency;

(4) other appropriate Federal agencies;

(5) States;

(6) relevant colleges, universities, and institutions of higher education with relevant expertise; and

(7) other entities, as appropriate.

(c) ELECTRIC UTILITY DEFINED.—In this section, the term "electric utility" means—

(1) a rural electric cooperative;

(2) a political subdivision of a State, such as a municipally owned electric utility, or

any agency, authority, corporation, or instrumentality of one or more State political subdivisions; and

(3) an investor-owned utility.

AMENDMENT NO. 34 OFFERED BY MR. HARDER OF CALIFORNIA

Page 891, line 12, insert “(as defined in section 101(a) of the Higher Education Act of 1965 (20 U.S.C. 1001(a)))” after “education”.

Page 891, line 15, insert “, outreach, and community engagement,” after “research”.

Page 891, line 16, insert “, including the health of outdoor workers,” after “public health”.

Page 891, after line 20, insert the following (and redesignate the subsequent subparagraph accordingly):

(B) PRIORITY.—In selecting institutions of higher education at which to establish a center under subparagraph (A), the Administrator shall give priority to institutions that—

(i) have established expertise or dedicated centers for air quality research;

(ii) have experience with relevant outreach and extension work;

(iii) have established relationships with relevant Federal, State, and local agencies, community organizations, and Indian Tribes; and

(iv) are located in an area that is economically or environmentally impacted by wildfire smoke.

Page 893, line 18, strike “require.” and insert “require, which shall include plans to collaborate with a public institution of higher education or other research institution that—”.

Page 893, after line 18, insert the following:

(A) has established expertise or dedicated centers for air quality research;

(B) has experience with relevant outreach and extension work;

(C) has established relationships with relevant Federal, State, and local agencies, community organizations, and Indian Tribes; and

(D) is located in an area that is economically or environmentally impacted by wildfire smoke.

AMENDMENT NO. 46 OFFERED BY MR. LEVIN OF CALIFORNIA

Redesignate section 12606 as section 12608.

Page 894, after line 6, insert the following new sections:

**SEC. 12606. WILDFIRE SMOKE EMISSIONS MODELING AND FORECASTING IMPROVEMENT PROGRAM.**

(a) IN GENERAL.—The Administrator of the National Oceanic and Atmospheric Administration, in collaboration with other Federal agencies and such academic entities as the Administrator considers appropriate, shall maintain a program to improve wildfire smoke emissions modeling and develop smoke forecasts.

(b) GOAL.—The goal of the program under subsection (a) shall be to develop and extend accurate wildfire smoke forecasts and impact-based decision support services in order to reduce loss of life, injury, and damage to the economy with a focus on—

(1) improving modeling of wildfire smoke emissions, transport, mixing, and chemical transformations through advanced modeling approaches;

(2) developing and disseminating smoke forecasts; and

(3) incorporating risk communication research in developing smoke forecasts and fire weather warning products.

(c) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to the Administrator of the National Oceanic and Atmospheric Administration to carry out this section \$20,000,000 for each of fiscal years 2021 through 2025.

**SEC. 12607. EXPOSURE TO WILDFIRE SMOKE AND AIR POLLUTION.**

(a) IMPACTS OF ACUTE EXPOSURE TO WILDFIRE SMOKE AND COVID-19.—The Administrator of the Environmental Protection Agency, in coordination with the Director of the Centers for Disease Control and Prevention, and other Federal agencies as appropriate, shall coordinate data collection and epidemiological analysis of the impacts of acute air pollution exposure from wildfires in the context of the COVID-19 pandemic.

(b) CHRONIC AIR POLLUTION EXPOSURE.—The Administrator of the Environmental Protection Agency, acting through the Assistant Administrator for Research and Development, shall coordinate with academic institutions and other research organizations to conduct research to estimate the impacts of chronic exposure to air pollutants, and other pertinent variables, in the context of responding to the COVID-19 pandemic.

AMENDMENT NO. 53 OFFERED BY MR. MCNERNEY OF CALIFORNIA

Page 46, after line 3, insert the following:

**PART 4—NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY**

**SEC. 1122. RESEARCH FOR EFFECTIVENESS AND STANDARDS.**

The Director of the National Institute of Standards and Technology shall—

(1) collect data following wildfires in the wildland-urban interface related to the influence of building materials on structural fires and how wind, terrain, and moisture affect wildland fires; and

(2) contribute to the scientific basis for analyzing economic outcomes of wildland-urban interface fire mitigation by conducting research on and developing metrics for the—

(A) relative contribution of moisture, weather, terrain, and infrastructure;

(B) losses and erosion of the forest floor resulting from wildfires in the wildland urban interface; and

(C) the performance of current designs, materials, and technologies used for—

(i) residential structures;

(ii) public and Federal government buildings;

(iii) electric grid infrastructure; and

(iv) other critical infrastructure.

AMENDMENT NO. 62 OFFERED BY MR. PANETTA OF CALIFORNIA

Page 521, after line 10, insert the following:

“(b) CRITICAL INFRASTRUCTURE AND MICROGRID RESEARCH PROGRAM.—The Secretary shall establish a research, development, and demonstration program to improve the energy resilience of critical infrastructure, including through the use of microgrids, during extreme weather events including extreme heat and wildfires. This program shall focus on developing technologies that—

“(1) improve the energy resilience and meet the power needs of critical infrastructure, including through the use of microgrids, renewable energy, energy efficiency, and on-site storage;

“(2) improve the energy efficiency of critical infrastructure;

“(3) decrease the size and cost of on-site backup generators for critical infrastructure;

“(4) provide on-site back-up power with renewable and low-carbon liquid fuels; and

“(5) ensure the safe power up and power down of critical infrastructure when necessary, as well as the transfer to backup sources of power for uninterrupted electricity supply, including the use of microgrids.”.

Page 499, line 20, strike “and”.

Page 499, line 21, insert “, and wildfires” after “disasters”.

AMENDMENT NO. 63 OFFERED BY MR. PANETTA OF CALIFORNIA

Page 135, line 3, strike “and”.

Page 135, line 14, strike the period and insert “; and”.

Page 135, after line 14 insert the following new paragraph:

“(6) to enhance or expand the use of materials that are resistant to high heat and fire in dwellings occupied by low-income persons in areas at risk from drought and wildfires.

Page 136, line 12, strike “and”.

Page 136, line 17, insert “and” after the semicolon.

Page 136, after line 17 insert the following new subparagraph:

“(E) implement measures to enhance health and safety through use of materials that are resistant to high heat and fire in areas at risk from drought and wildfires;

AMENDMENT NO. 68 OFFERED BY MS. PINGREE OF MAINE

Page 361, line 24, strike “and”.

Page 362, line 2, strike the period and insert a semicolon.

Page 362, after line 2, insert the following:

“(3) the activities described in subsection (a)(4), acting through the Assistant Secretary for Fossil Energy in consultation with the Secretary of Agriculture; and

“(4) the activities described in subsection (a)(5), acting through the Assistant Secretary for Fossil Energy in consultation with the Secretary of Agriculture.”.

AMENDMENT NO. 76 OFFERED BY MR. SCHRADER OF OREGON

At the end of subtitle H of title I, add the following:

**SEC. 1806. HOME WILDFIRE RISK REDUCTION REBATE PROGRAM.**

(a) IN GENERAL.—The Secretary of Energy shall establish a program, to be known as the “Home Wildfire Risk Reduction Rebate Program”, to provide rebates to homeowners to defray the costs of retrofitting an existing home to be wildfire-resistant.

(b) AMOUNT OF REBATE.—In carrying out the Home Wildfire Risk Reduction Rebate Program, the Secretary shall provide a homeowner a rebate of up to—

(1) \$10,000 for the retrofitting of roof features, including the roof covering, vents, soffit and fascia, and gutters, to be wildfire-resistant;

(2) \$20,000 for the retrofitting of exterior wall features, including sheathing and siding, doors, and windows, to be wildfire-resistant;

(3) \$5,000 for the retrofitting of a deck, including the decking, framing, and fascia, to be wildfire-resistant; and

(4) \$1,500 for the retrofitting of near-home landscaping, including mulch and landscape fabric in a 5-foot zone immediately around the home and under all attached decks, to be wildfire-resistant.

(c) INCLUSION.—For purposes of this section, the cost of a retrofit shall include all costs associated with the retrofit, including the purchase and installation of wildfire-resistant products and components.

(d) LIMITATION.—The amount of the rebate under this section shall not exceed 50 percent of the cost of the retrofit.

(e) PROCESS.—

(1) FORMS; REBATE PROCESSING SYSTEM.—Not later than 90 days after the date of enactment of this Act, the Secretary, in consultation with the Secretary of the Treasury, shall—

(A) develop and make available rebate forms required to receive a rebate under this section;

(B) establish a Federal rebate processing system which shall serve as a database and

information technology system that will allow homeowners to submit required rebate forms; and

(C) establish a website that provides information on rebates provided under this section, including how to determine whether particular measures qualify for a rebate under this section and how to receive such a rebate.

(2) SUBMISSION OF FORMS.—In order to receive a rebate under this section, a homeowner shall submit the required rebate forms, and any other information the Secretary determines appropriate, to the Federal rebate processing system established under paragraph (1).

(f) MODERATE-INCOME HOUSEHOLDS.—

(1) CERTIFICATIONS.—The Secretary shall establish procedures for certifying that the household of a homeowner is moderate-income for purposes of this section.

(2) LIMITATION FOR MODERATE INCOME HOUSEHOLDS.—Notwithstanding subsection (d), for households of homeowners that are certified pursuant to the procedures established under paragraph (1) as moderate-income, the amount of the rebate under this section shall not exceed 80 percent of the cost of the retrofit.

(3) OUTREACH.—The Secretary shall establish procedures to—

(A) provide information to households of homeowners that are certified pursuant to the procedures established under paragraph (1) as moderate-income regarding other programs and resources relating to assistance for upgrades of homes, including the weatherization assistance program implemented under part A of title IV of the Energy Conservation and Production Act (42 U.S.C. 6861 et seq.); and

(B) refer such households, as applicable, to other programs and resources.

(g) DEFINITION.—In this section, the term “wildfire-resistant” means meeting or exceeding the specifications of the International Code Council’s 2018 International Wildland-Urban Interface Code (IWUIC).

(h) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section \$500,000,000 for each of fiscal years 2021 through 2025.

AMENDMENT NO. 82 OFFERED BY MR. THOMPSON OF CALIFORNIA

Add at the end of title V the following:

**Subtitle E—Utility Resilience and Reliability**  
**SEC. 5501. RELIABILITY OF BULK-POWER SYSTEM IN CHANGING CONDITIONS.**

(a) IN GENERAL.—Not later than 1 year after the date of enactment of this paragraph, the Electric Reliability Organization shall file with the Federal Energy Regulatory Commission a proposed reliability standard, under section 215(d) of the Federal Power Act (16 U.S.C. 824o(d)), that addresses the reliability of the bulk-power system and suggestions for how to—

(1) prepare for and adapt to changing conditions; and

(2) withstand and rapidly recover from disruptions, including disruptions caused by extreme weather conditions.

(b) REGIONAL DIFFERENCES.—The proposed reliability standard filed under subsection (a) shall take into account regional differences.

(c) DEFINITIONS.—In this section, the terms “bulk-power system”, “Electric Reliability Organization”, and “reliability standard” have the meanings given those terms in section 215 of the Federal Power Act (16 U.S.C. 824o).

**SEC. 5502. ELECTRIC GRID RESILIENCE EDUCATION PROGRAM.**

(a) IN GENERAL.—Not later than 1 year after the date of enactment of this section, the Secretary of Energy shall establish a

program to provide information and recommendations to States and electric utilities on how to improve the resilience of electric grids in regards to climate change and extreme weather events.

(b) ELECTRIC UTILITY DEFINED.—In this section, the term “electric utility” has the meaning given such term in section 3 of the Federal Power Act (16 U.S.C. 796).

**SEC. 5503. REPORT ON PLANNED ELECTRIC POWER OUTAGES DUE TO EXTREME WEATHER CONDITIONS.**

Not later than 1 year after the date of enactment of this section, the Secretary of Energy shall submit to Congress a report, and publish such report on the website of the Department of Energy, that provides recommendations on how to minimize the need for, effects of, and duration of, planned electric power outages that are due to extreme weather conditions, including such conditions under which the National Weather Service issues a red flag warning.

AMENDMENT NO. 92 OFFERED BY MR. BERA OF CALIFORNIA

Page 500, after line 13, insert the following (and redesignate subsections (c), (d), and (e) as subsections (d), (e), and (f), respectively):

(g) CONCURRENT AND CO-LOCATED DISASTERS.—In carrying out the program under subsection (a), the Secretary shall support research and development on tools, techniques, and technologies for improving electric grid and energy sector safety and resilience in the event of multiple simultaneous or co-located weather or climate events leading to extreme conditions, such as extreme wind, wildfires, and extreme heat.

The SPEAKER pro tempore. Pursuant to House Resolution 1129, the gentleman from California (Mr. LEVIN) and the gentleman from Oregon (Mr. WALDEN) each will control 10 minutes.

The Chair recognizes the gentleman from California.

Mr. LEVIN of California. Madam Speaker, all we have to do is look at the last few weeks in my great State of California and see record wildfires, 3.6 million acres and counting. And we have seen this all throughout the Western United States, truly unprecedented.

And we also have seen smoke. All I had to do a few weeks ago is just open the window, even though I am miles away from the center of any of the wildfires, and we could see the thick, dark smoke, gray and orange. We saw the pictures in the city of San Francisco. It is truly unprecedented in our great State of California.

The amendment that we are offering will hopefully uncover the true cost of this smoke. We must figure out exactly what type of health impacts wildfire smoke is having, not just in California, but everywhere where this has impacted our communities throughout the Western United States.

So we are also going to need to develop better smoke forecasts. This amendment would do that. And it directs the EPA to collect data and coordinate research on the impacts of acute air pollution exposure from wildfires. It is \$100 million that I think is well spent.

An article published just a few days ago, September 19, in the Los Angeles Times, is titled, “How Bad Is All That Wildfire Smoke to Our Long-Term

Health? ‘Frankly, We Don’t Really Know.’” We don’t really know, and that is why we need this research, this funding.

A good friend of mine from Stanford University, my alma mater, an economist named Marshall Burke, has done great work on the cost of climate change and the cost of inaction. He has estimated that between 1,000 and 3,000 excess deaths—think of that number, 1,000 and 3,000 excess deaths—will be caused by the smoke from these wildfires. Five thousand extra visits to the emergency room in California will be caused by these wildfires.

And we know from other research at Harvard University and elsewhere that short-term changes in particulate matter of 2.5, and other criteria air pollutants, dramatically increase mortality.

It is very clear: Wildfire smoke is a dominant source of air pollution in the United States in some years. Health costs associated with wildfire exposure are greater than we thought, previously.

The more we learn about this, the more we recognize just what a significant toll this is taking on our health, on our ability to deal with the economic impacts that this causes. And we have seen, in California, some of the studies on things like preterm birth, this has had an impact even on preterm birth.

And, of course, as is so often the case, when we talk about environmental issues, environmental justice is key here. We know that the poor and communities of color have been impacted most by this as well.

In my district, we have got the University of California at San Diego, Scripps Institution of Oceanography, and I am very proud of all of the work they are doing.

One of the researchers there recently made the link between air pollution and increased risk of COVID-19 and, specifically, the severity of symptoms that one would get if they were to have COVID-19 and if they were to be impacted by wildfire smoke. It could exacerbate the degree to which COVID-19 causes more serious conditions.

As that researcher said: “I really hope I am wrong, but what we may expect to see in the next few weeks is an increase in the fatality rate from COVID-19.”

So we know that wildfire smoke is here. This is not theoretical. Oftentimes, when we talk about climate change, we think of something in the future; we think of something theoretical.

One of the things that I so appreciate about this legislation, and specifically about this amendment and the series of amendments from Mr. SCHRADER and my friends from California—JOSH HARDER, AMI BERA, MIKE THOMPSON, and JIMMY PANETTA—is that all of these amendments are things that impact us in the here and now.

Wildfire smoke is not some far-off, theoretical thing that may or may not



happen in the future. We know that it is happening, and happening right now.

So, as I mentioned, in addition to our amendment, which establishes a program to improve wildfire smoke emissions modeling and to develop smoke forecasts and directs EPA to collect data and coordinate research on the impacts of acute air pollution exposure from wildfires, Mr. SCHRADER of Oregon has an amendment that would establish the home wildfire risk reduction rebate program to provide rebates to homeowners to defray the cost of retrofitting an existing home to be wildfire resistant.

Of course, we are thinking of all of our friends throughout the Pacific Northwest. We have family in Oregon and Washington that have been so dramatically impacted by all of this.

As I mentioned, my friends JOSH HARDER, AMI BERA, and MIKE THOMPSON, all fantastic Representatives from northern California—and they have really borne the brunt of the wildfires throughout California—have offered amendments that, among other things, create a geospatial map that depicts wildfire risk around utilities to allow for better planning, for grid hardening, vegetation management, emergency access points, and more.

Their amendments also establish an electricity reliability standard regarding extreme weather events and direct the Department of Energy to help States and local utilities on ways to improve the resiliency of their electrical grids. It is so important that we study these wildfires and we understand the impact on our electricity grid.

My friend Representative PANETTA offers several amendments, including one that expands weatherization assistance for low-income families and enhancement in innovation to cover the use of materials that are resistant to high heat and fire in dwellings occupied by low-income persons in areas at risk from drought and wildfires.

I think it is important to just mention we are not talking about wildfires in a vacuum. We have seen record drought and record temperatures, and those conditions create the environment that we now have seen that creates these wildfire risks.

Finally, my friend Representative BERA has an amendment that directs the Secretary of Energy to support R&D on tools and technologies for improving the electric grid and the energy sector for safety and resilience during concurrent or colocated severe weather events.

□ 1245

I am extremely proud at the support that we have been able to achieve for these amendments, and for the package for H.R. 4447. It is a comprehensive bill that we really do need to move forward on.

It has been a dozen years, a dozen years, since we have been able to update the structure and the authoriza-

tions of critical clean energy research and demonstration programs at the Department of Energy, and we have learned so much about our environment, about climate change.

I graduated from law school in 2005, and I became an environmental attorney and a clean energy advocate working in a variety of clean energy organizations, businesses, and now as a legislator. And what I can tell you is that between the time I graduated from law school in 2005 and today, we know significantly more, and much different information about climate change than we did back then. Yet, we have not updated the research and development now for 12 years, it is simply unacceptable.

So our amendment and the other amendments that I discussed will go a long way, and I hope we can achieve bipartisan consensus in this, and in the months and years ahead to actually tackle these problems as they face Californians.

Madam Speaker, I reserve the balance of my time.

Mr. WALDEN. Madam Speaker, I appreciate my friend from California's comments, especially about the smoke and his sympathy for the folks all across the West, and especially in the Pacific Northwest. I am a native Oregonian and, tragically, we have been choking on smoke for a very long time, for decades and decades, as these forest fires have burned unnaturally because fuel concentrations are unnatural.

You know, we did a great job as Americans with Smokey the Bear and putting out fires. For 100 years we have fought fire. The problem is that in the last 50 years there have been court decisions, lots of litigation, lawsuits to stop active forest management. We lost tens of thousands of jobs that used to take place in our rural forested communities of people that would go out and tend to our forests. When they would harvest, they would replant. If there was a fire, they were on the scene to help put it out. All that went away through litigation and lawsuits.

In the early 2000s, I worked with then-President Bush to pass the Healthy Forests Restoration Act, to allow us to get in, at least in the wildland-urban interface, and thin out these unnatural stands, get them back in balance with nature. The Forest Service tells us today 63 million acres of our national forests, America's people's forests, are at high risk of fire. It is out of balance. We have 7 million of those acres in my home State of Oregon. 7 million acres. We treat something like 2 million a year.

Under President Trump and his administration, they have taken this seriously and they have increased the amount of thinning that is going on out there to reduce the fuel load by 20 to 25 percent over what it was when he took office.

Timber harvest is up, too, but you can't catch up at that rate because forests are very dynamic, they continue

to grow, they continue to die. I have forest scientists who will tell me in some parts of my State there are literally 1,000 trees on an acre, where in historic times there might have been 10 or 12.

See, fire naturally would come through and thin out on a regular basis, and then humans interceded, and said, Well, we are going to stop fire. And for a long time, they weed-managed it and thinned the forest, and now all that kind of went by the wayside as well. And, tragically, now the U.S. Forest Service budget, more than half of it goes to fight fire. We have had to set up enormous funds to fight fire. It didn't used to be that way, and now our citizens suffer from the smoke.

In my home State of Oregon, the 10 worst air quality cities in the world were in Oregon. Oregon. The smoke was so bad when I drove from southern Oregon, where tragically, one of these fires—it was not a forest fire, it was a grass and brush fire that got away with an unusually strong wind, and it just became a blowtorch, and most likely was started by arson. That fire destroyed more than 2,600 housing units and deeply, sadly, most of these were mobile homes, mobile home parks, and low-income housing. The poorest of the poor got hit the hardest.

This was not forest, this was between a freeway and a highway, and it just took off. It was dry, because, you know, in the West we dry out in the summer, unlike back here where they get rain with a thunderstorm. But this wasn't even lightning-caused.

Meanwhile, in the canyons off the great Cascade Mountains, fire started up there, we don't know how and, in some cases, again, this high wind may have triggered it with power lines or something of that nature. People lost their homes, habitat destroyed, communities that had been there forever, wiped out, lives lost.

So, indeed, we have this situation where, with climate change, drought, disease, bug infestation, and a neglected forest, conditions are ripe for destruction. They are ripe for fires like this. But if you care about—and I think we all do—about the planet and about the climate and about reducing emissions, then it is a failure of this Congress, under Democrat rule, to not move forward with the legislation our colleague, a Yale forestry graduate, BRUCE WESTERMAN, has put forward, to go in and more actively treat these forests to get them back in balance with nature.

And, more importantly, when 70 percent of the carbon emissions from a fire occur afterwards from the dead and decaying material that is left behind, we should be going in like Tribal governments do, county and State governments do, they go in and manage their forests by removing the burned, dead debris, where it makes sense, and while it still has value, and they replant a new, healthy forest. I think we can all agree, new green trees sequester carbon better than dead, dying ones.

Science is on our side in this matter, but the politics have not been on our side in the West. So we have not been able to make progress on changing Federal law that would actually make our forests and forest communities healthier and safer, more economically dynamic, and reduce emissions and fire and smoke.

I have choked on that smoke the last 10 days, as have my constituents and, sadly, we sent that smoke all the way to Europe and around the globe, and none of us wants to repeat that.

So, hopefully, we can put old battles behind us. We can do something to treat American's great forests and get them back in balance. We can go in and remove burned debris while it has value, creating jobs in our most impoverished counties, and plant new, green, healthy forests for the next generation. Indeed, that is our obligation and our duty, and we should do more.

Madam Speaker, I reserve the balance of my time.

Mr. LEVIN of California. Madam Speaker, it is my honor to yield 1 minute to the gentlewoman from California (Ms. PELOSI), the distinguished Speaker of the House of Representatives.

Ms. PELOSI. Madam Speaker, I thank the gentleman for his leadership on this important issue. He has brought his experience in the private sector, and the nonprofit sector to Congress to effectively address the climate crisis that we are facing.

Madam Speaker, I join the distinguished ranking member of the committee in supporting this en bloc, and remind him that in 2018 we did have the fire budget act that readjusted—enabling us to spend money for fire prevention, and that was bipartisan.

I welcome your support for the en blocs and work to address this. The description that you make of the fire impacts on the communities is a very, very serious one. We see it in California, but we have seen it a few years ago and before. Unless you have seen it, you cannot really realize how destructive it is. It just obliterates the area.

And then the smoke from those fires, as we say, the smoke from those fires is not stronger than the love that we have for each other to come back from all of this. But this legislation and these amendments will be helpful, and I thank the gentleman for his strong leadership on this.

The threat of wildfires in our communities and the ability to create clean energy jobs and innovation is an opportunity that we have here today.

Across the country, extreme weather and climate events are being unleashed on our communities leaving tragedy and devastation in their wake. From wildfires in the West—which the distinguished ranking member referenced and that we have experienced—that are described as apocalyptic, which have killed at least 35 people, blanketed the entire country in haze, and burned an

historic 3.7 million acres, more than 20 times the amount last year.

Horrific hurricanes in the Gulf Coast, some of the most severe to hit the southern States. I spoke to the Governor of Louisiana, he told me that the hurricane that hit Louisiana was the most severe in the history of Louisiana. I said, Even more so than Katrina? He said, Yes. Katrina's damage sprang from the hurricane, but also the levees collapsing. This is about the severity of the hurricane. And then frequency, they have had more hurricanes since then. They are running out of names to label them. They said they may have to go to the Greek alphabet.

Heat waves across America, with this summer being the hottest ever summer recorded in the northern hemisphere, and the second hottest summer around the planet. Scientists tell us that 2020, a year filled with climate disasters, will be among the two hottest years ever recorded.

Madam Speaker, Mother Nature is sending us a message, a clear sign that the climate crisis is real, it is deadly, and it is accelerating.

The American people elected a Democratic House majority that would honor the science and honor our obligation to build a more resilient, green, and sustainable economy, not only for future generations tomorrow, but for our children today.

I am proud of the work that Democrats have taken since day one to combat the climate crisis in a way that creates jobs and advances environmental justice. This has been an all-caucus effort reflecting the energy of our freshmen, the expertise of our chairs, and the will of the American people, including: The Climate Action Now Act, keeping us in the Paris accords; the Moving Forward Act, making a strong downpayment in a clean energy future; the Great American Outdoors Act, the most significant conservation bill in a generation, strongly bipartisan; Solving the Climate Crisis, our congressional action plan led by Chairwoman KATHY CASTOR, the most detailed, sweeping climate plan in American history, which endorses a national goal with net-zero pollution as soon as possible, 2050 at the latest. This plan protects American workers, safeguards vulnerable communities, grows the economy, and advances our preeminence in green technologies.

Now, today, we are taking the next step with the Clean Economy Jobs and Innovation Act. And, Madam Speaker, I say the next step. This is not exhaustive of our solutions, and we have a lot of ideas in our caucus to debate and to prioritize, but this is an important next step.

I salute all the committees of jurisdiction and chairs for their strategic, science-based leadership on the bills in this package. Energy and Commerce Chairman FRANK PALLONE; Science, Space, and Technology Chairwoman, EDDIE BERNICE JOHNSON; Natural Resources Chairman RAÚL GRIJALVA,

along with Congressmen MCEACHIN and RUIZ, for their collaborative efforts to include a transformative environmental justice title; Select Committee on the Climate Crisis, KATHY CASTOR; Congresswoman ANNA ESHOO, chairwoman on the Subcommittee of Health in Energy and Commerce, leading the legislation to study the direct connection of wildfire smoke on public health, as you suggested. And also, Members from the West for offering amendments, including the ones under consideration now, to improve wildfire research, resilience, and protect homes, communities, and public health.

Again, I salute Congressman MIKE LEVIN for his leadership in this very important area. His election to Congress took us way down the path in this fight to preserve the planet. Thank you, Mr. LEVIN.

The legislation advances public health, financial, and national security, and environmental justice. It takes actions that scientists, researchers, and experts tell us is needed:

By launching the research and development needed to unleash a clean energy revolution and reduce pollution in our communities; making a bold downpayment for future climate action by modernizing America's energy innovation infrastructure; phasing down dangerous HFCs, known as super pollutants, which many experts believe is the single biggest action that the world can take to reduce global warming; putting our country on the path to net-zero pollution no later than 2050; and, critically protecting local communities by requiring Federal agencies to better understand the impact of new projects on public health and the environment, and to provide meaningful participation for indigenous and environmental communities. This is so absolutely important to have our Indian Country involved in these decisions.

□ 1300

As the League of Conservation Voters wrote today: "This bill includes many great provisions to develop and deploy renewable and distributed energy resources; improve the efficiency of our homes, schools, and businesses; electrify our transportation sector; modernize the grid and enhance its resilience; prioritize the needs of environmental justice in communities; reduce climate pollution from industrial and traditional sources, and from ambient air."

Then they go on to say: "Though we do not support increased funding for projects that could extend the life of fossil fuel-burning power plants or aging nuclear power infrastructure or prop up undemonstrated new nuclear projects, many of the amendments would improve those areas and build upon the significant positive environmental aspects of the bill." This is very important, "build upon the significant positive environmental aspects of the bill."

"We urge support for the amendments . . . that will make the bill even

stronger by protecting our communities and environment while investing in clean energy research, development, and deployment.”

This important legislation is an important step—I keep saying it is not everything; it is a step—to advance climate action. But much more is needed.

Unfortunately, many in our government continue to deny the science and refuse to act. As seen earlier this month, when I hosted the G7 Speakers’ Meeting on “Addressing the Climate Crisis With Economic and Environmental Justice for All,” no other country in that mix of the G7 and the President of the European Union, who was also participating, no other country is in denial about the climate crisis and the impact that human activity has on it.

Sadly, only in America is there contempt for science, public health, and the role of government.

Madam Speaker, when I first became Speaker in 2007, the first bill we put on the floor was to establish a Select Committee on Climate and Energy. We passed that bill working with President Bush. It was the biggest energy bill in the history of our country. It was the equivalent of taking millions of cars off the road. We came to terms with an agreement, and he was delighted to have a signing ceremony for this bill.

Since then, there has been denial about the climate crisis. After becoming Speaker again in this Congress, I established a Select Committee on the Climate Crisis, which KATHY CASTOR chairs.

So this has been a very high priority. It is a high priority for public health, clean air, clean water, ending the pollutants, diminishing the pollutants.

Secondly, it is a jobs issue. Jobs, jobs, jobs, clean energy jobs making us preeminent in the world.

It is a national security issue. Our security experts tell us that drought and famine, so much is caused by the climate crisis. Increased competition for habitat, resources, and the rest cause mass migrations. It is a national security issue.

It is a moral issue. If you believe, as I do, that this planet is God’s creation, we have a moral responsibility to be good stewards of it. This is believed by many in the evangelical community. But even if you don’t share this belief from a religious standpoint, from a moral standpoint, we have a responsibility to pass the planet on to future generations as best we can.

Again, the American people, including young people, scientists, faith leaders, grassroots environmental justice advocates, are demanding climate action now to protect their lives and protect their livelihoods.

I urge Members, including the Republicans whose bills are included in this package, to listen to the public and pass this commonsense and science-based legislation and redouble our efforts to combat the climate crisis.

Heed the message that Mother Earth is sending us. Lives are at stake. We

have no time to waste. I urge an “aye” vote on these en bloc amendments and on final passage of the legislation.

The SPEAKER pro tempore. The time of the gentleman from California has expired.

Mr. WALDEN. Madam Speaker, may I inquire as to how much time is remaining.

The SPEAKER pro tempore. The gentleman from Oregon has 4½ minutes remaining.

Mr. WALDEN. Madam Speaker, I yield 2 minutes to the gentleman from California (Mr. LAMALFA), my friend and colleague, a real leader on natural resource issues.

Mr. LAMALFA. Madam Speaker, I thank my colleague from Oregon for yielding and for his leadership on this bill today. I appreciate the work in this current bloc on forestry as Oregon, California, and so much of the West is experiencing yet another year of such devastating fire.

I want to hear back to a previous bloc here while I have the opportunity. It has to do with the Klamath dams that are owned by PacifiCorp in northern California and Oregon.

Now, there is the need to continue those dams’ ability to operate. Unfortunately, my California colleague on the other side of the aisle is insisting on an amendment that would make it impossible to continue that operation even during a time of uncertainty as to the efficacy of dam removal or whatever the disposal of those will be. It is up in the air. The science is not clear.

The amendment that is being proposed might be the worst attempt at a veiled threat that I have seen in a long time on threatening a company in the operation of current dams. Rather than work with PacifiCorp, the hope seems to be that the House of Representatives can be used in this en bloc for a personal vendetta in defying the will of the people in the area.

The owner of these dams has signed on to both agreements that contemplated removal under the right conditions. Congress didn’t bring an agreement up for consideration. Local voters overwhelmingly rejected the dam removal. The corporation that my colleague is attempting to attack has been supportive for nearly 15 years.

Under the guise of what my colleague would call “more stringent reporting requirements,” this amendment would directly increase power costs on tens of thousands of rural Americans across the West, requiring six new studies, reports, and disclosures every year at the cost of PacifiCorp. Complying with all of this will not be free. Regular families will see their power costs go up at a time when our power grid in California especially is in big trouble. This is wrong-headed.

Mr. WALDEN. Madam Speaker, I thank my colleague from California for his remarks.

Madam Speaker, I yield myself the balance of my time.

I want to go back to the issue underlying this, which is wildfires and

smoke. When I chaired the Energy and Commerce Committee, I held hearings each year, which have been continued under Chairman PALLONE, looking at the health impacts of wildfire smoke on our citizens in America as relates to the Clean Air Act.

I remember we had a gentleman from southern Oregon who had sent me a photo of his CPAP, his air-breathing filter, that had turned dark within a day or two. We had county commissioners tell me that when they opened their windows at night, the smoke alarm went off in their house. It was that bad.

We continue to have that, and it has been going on for a very long time. It is sad we had to get to this point for many to recognize who don’t have to live with that as we all have to.

There is so much more we can and should do, and I appreciate Speaker PELOSI’s comments about fixing the fire borrowing problem. We did that jointly and in a bipartisan, bicameral way. It was long overdue.

But I am just going to close by saying you still have 60, 70 million acres of lands out there that we have responsibility for. They are the public’s lands that are completely out of balance. Nature tells us that. Scientists reinforce that. And we need to do something about that.

Hopefully—I am leaving Congress at the end of this year—future Congresses will figure a way through this thicket because if we don’t act, you won’t have forests left, and a whole generation will never know what we have had the great joy to see, big healthy tree stands and habitat, freshwater and fish, and all of that that is the Northwest. It is going away in large measure every summer, and it will be a generation before you can drive over the Cascade Mountains on these routes and see what we got to see for our generation as it burns up and goes away.

We need to take out the burned, dead material while it has value. We need to plant green, new trees. We need to fully understand the impacts of smoke and then do everything in our power to minimize these fires and their devastating, tragic, and deadly effects.

Madam Speaker, I yield back the balance of my time.

Mr. THOMPSON of California. Madam Speaker, I rise in strong support of my amendment.

This amendment requires the establishment of a reliability standard, within the Federal Power Act, relating to extreme weather events. It directs the Department to create a program and publish a report, on ways to improve the resiliency of electrical grids.

Over the past year my District and others across the State of California have experienced many of these power shutoffs due to extreme weather events—such as wildfires. These shutoffs hurt local businesses, leave thousands in the dark, and put the medically vulnerable at great risk.

The federal government must step up to ensure the U.S. electrical grid is more resilient. We must provide states and local utilities the

resources they need to reliably provide power to our communities.

I urge an Aye vote on this amendment to help communities like mine and all the others affected by severe weather.

The SPEAKER pro tempore. Pursuant to House Resolution 1129, the previous question is ordered on the amendments en bloc offered by the gentleman from California (Mr. LEVIN).

The question is on the amendments en bloc.

The question was taken; and the Speaker pro tempore announced that the ayes appear to have it.

Mr. LEVIN of California. Madam Speaker, on that I demand the yeas and nays.

The SPEAKER pro tempore. Pursuant to section 3 of House Resolution 965, the yeas and nays are ordered.

Pursuant to clause 8 of rule XX, further proceedings on this question are postponed.

The Chair understands that amendment No. 57 will not be offered.

AMENDMENTS EN BLOC NO. 1 OFFERED BY MS. STEVENS OF MICHIGAN

The SPEAKER pro tempore. Pursuant to clause 8 of rule XX, the unfinished business is the question on amendments en bloc No. 1, printed in part B of House Report 116-528, on which further proceedings were postponed and on which the yeas and nays were ordered.

The Clerk will redesignate the amendments en bloc.

The Clerk redesignated the amendments en bloc.

The SPEAKER pro tempore. The question is on the amendments en bloc offered by the gentlewoman from Michigan (Ms. STEVENS).

The vote was taken by electronic device, and there were—yeas 235, nays 172, not voting 23, as follows:

[Roll No. 202]  
YEAS—235

Adams	Clyburn	Fitzpatrick
Aguilar	Cohen	Fletcher
Allred	Connolly	Foster
Axne	Cooper	Frankel
Barragán	Correa	Fudge
Bass	Costa	Gabbard
Beatty	Courtney	Gallego
Bera	Cox (CA)	Garamendi
Beyer	Craig	García (IL)
Bishop (GA)	Crist	García (TX)
Blumenauer	Crow	Gibbs
Blunt Rochester	Cuellar	Golden
Bonamici	Cunningham	Gomez
Boyle, Brendan F.	Davids (KS)	Gonzalez (TX)
Brindisi	Davis (CA)	Gottheimer
Brown (MD)	Davis, Danny K.	Green, Al (TX)
Brownley (CA)	Dean	Grijalva
Bustos	DeFazio	Haaland
Butterfield	DeGette	Harder (CA)
Carbajal	DeLauro	Hastings
Cárdenas	DelBene	Hayes
Carson (IN)	Delgado	Heck
Cartwright	Demings	Higgins (NY)
Case	DeSaulnier	Himes
Casten (IL)	Deutch	Horn, Kendra S.
Castor (FL)	Dingell	Horsford
Castro (TX)	Doggett	Houlahan
Chu, Judy	Doyle, Michael F.	Hoyer
Cicilline	Engel	Huffman
Cisneros	Escobar	Jackson Lee
Clarke (MA)	Eshoo	Jayapal
Clarke (NY)	Españalat	Jeffries
Clay	Evans	Johnson (GA)
Cleaver	Finkenauer	Johnson (TX)
		Kaptur

Katko	Moore	Schrier
Keating	Morille	Scott (VA)
Kelly (IL)	Moulton	Scott, David
Kennedy	Mucarsel-Powell	Serrano
Khanna	Murphy (FL)	Swell (AL)
Kildee	Nadler	Shalala
Kilmer	Napolitano	Sherman
Kim	Neal	Sherrill
Kind	Neguse	Sires
Kirkpatrick	Norcross	Slotkin
Krishnamoorthi	O'Halleran	Smith (NJ)
Kuster (NH)	Ocasio-Cortez	Smith (WA)
Lamb	Omar	Soto
Langevin	Pallone	Spanberger
Larsen (WA)	Panetta	Speier
Larson (CT)	Pappas	Stanton
Lawrence	Pascrell	Stevens
Lawson (FL)	Payne	Suozi
Lee (CA)	Perlmutter	Swalwell (CA)
Lee (NV)	Peters	Takano
Levin (CA)	Peterson	Thompson (CA)
Levin (MI)	Phillips	Thompson (MS)
Lieu, Ted	Pingree	Titus
Lipinski	Pocan	Tlaib
Loeb	Porter	Tonko
Lofgren	Pressley	Torres (CA)
Lowenthal	Price (NC)	Trahan
Lowe	Quigley	Trone
Lujan	Raskin	Underwood
Luria	Rice (NY)	Van Drew
Lynch	Richmond	Vargas
Malinowski	Rose (NY)	Veasey
Maloney,	Rouda	Vela
Carolyn B.	Roybal-Allard	Velázquez
Maloney, Sean	Ruiz	Visclosky
Matsui	Ruppersberger	Wasserman
McAdams	Rush	Schultz
McBath	Ryan	Waters
McCollum	Sánchez	Watson Coleman
McEachin	Sarbanes	Welch
McGovern	Scanlon	Weston
McNerney	Schakowsky	Wild
Meeks	Schiff	Wilson (FL)
Meng	Schneider	Yarmuth
Mfume	Schrader	

NAYS—172

Aderholt	Gianforte	McCaul
Allen	Gohmert	McClintock
Amash	Gonzalez (OH)	McHenry
Amodei	Gooden	McKinley
Armstrong	Gosar	Meuser
Arrington	Granger	Miller
Babin	Graves (LA)	Moolenaar
Bacon	Graves (MO)	Mooney (WV)
Baird	Green (TN)	Newhouse
Balderson	Griffith	Norman
Banks	Grothman	Nunes
Barr	Guest	Olson
Bergman	Guthrie	Palazzo
Biggs	Hagedorn	Palmer
Bilirakis	Harris	Pence
Bishop (NC)	Hartzler	Perry
Bishop (UT)	Hern, Kevin	Posey
Bost	Herrera Beutler	Reed
Brooks (AL)	Hice (GA)	Reschenthaler
Brooks (IN)	Higgins (LA)	Rice (SC)
Buchanan	Hill (AR)	Roby
Buck	Hollingsworth	Rodgers (WA)
Buchson	Hudson	Roe, David P.
Budd	Huizenga	Rogers (AL)
Burchett	Hurd (TX)	Rogers (KY)
Burton	Jacobs	Rose, John W.
Carter (GA)	Johnson (LA)	Rouzer
Carter (TX)	Johnson (OH)	Roy
Chabot	Johnson (SD)	Scalise
Cline	Jordan	Schweikert
Cloud	Joyce (OH)	Scott, Austin
Cole	Joyce (PA)	Sensenbrenner
Collins (GA)	Keller	Shimkus
Comer	Kelly (MS)	Simpson
Conaway	Kelly (PA)	Smith (MO)
Cook	King (IA)	Smith (NE)
Crenshaw	King (NY)	Smucker
Curtis	Kinzinger	Spano
Davidson (OH)	Kustoff (TN)	Stauber
Davis, Rodney	LaHood	Stefanik
DesJarlais	LaMalfa	Steil
Diaz-Balart	Lamborn	Steube
Duncan	Latta	Stewart
Emmer	Lesko	Stivers
Estes	Long	Taylor
Fleischmann	Loudermilk	Thompson (PA)
Flores	Lucas	Thornberry
Fortenberry	Luetkemeyer	Timmons
Fox (NC)	Marshall	Tipton
Fulcher	Massie	Torres Small
Gallagher	Mast	(NM)
García (CA)	McCarthy	Turner

Upton	Watkins	Wittman
Wagner	Weber (TX)	Womack
Walberg	Webster (FL)	Woodall
Walden	Wenstrup	Young
Walker	Westerman	Zeldin
Walorski	Williams	

NOT VOTING—23

Abraham	Gaetz	Rooney (FL)
Brady	Graves (GA)	Rutherford
Burgess	Holding	Tiffany
Byrne	Marchant	Waltz
Cheney	Mitchell	Wilson (SC)
Crawford	Mullin	Wright
Dunn	Murphy (NC)	Yoho
Ferguson	Riggleman	

□ 1405

Mr. JACOBS changed his vote from “yea” to “nay.”

So the en bloc amendments were agreed to.

The result of the vote was announced as above recorded.

A motion to reconsider was laid on the table.

MEMBERS RECORDED PURSUANT TO HOUSE RESOLUTION 965, 116TH CONGRESS

Bishop (GA) (Fudge)	Meng (Clark (MA))
Chu, Judy (Takano)	Moore (Beyer)
DeSaulnier (Matsui)	Mucarsel-Powell
Frankel (Clark (MA))	(Wasserman)
Grijalva (García (IL))	Schultz
Hastings (Wasserman)	Napolitano (Correa)
Schultz	Payne (Wasserman)
Hayes (Courtney)	Schultz
Huffman (Thompson)	Pingree (Clark (MA))
(CA))	Pocan (Raskin)
Jayapal (Raskin)	Porter (Weston)
Kaptur (Dingell)	Richmond (Fudge)
Kim (Davids (KS))	Roybal-Allard
Kirkpatrick	(Cárdenas)
(Gallego)	Rush (Underwood)
Langevin (Lynch)	Serrano (Jeffries)
Lawson (FL) (Evans)	Speier (Scanlon)
Lieu, Ted (Beyer)	Tlaib (Dingell)
Lipinski (Cooper)	Watson Coleman
Lofgren (Jeffries)	(Pallone)
Lowenthal (Beyer)	Welch (McGovern)
Lowe (Tonko)	Wilson (FL) (Adams)

AMENDMENT NO. 32 OFFERED BY MS. HAALAND

The SPEAKER pro tempore (Mr. CUELLAR). Pursuant to clause 8 of rule XX, the unfinished business is the question on amendment No. 32, printed in part B of House Report 116-528, on which further proceedings were postponed and on which the yeas and nays were ordered.

The Clerk will redesignate the amendment.

The Clerk redesignated the amendment.

The SPEAKER pro tempore. The question is on the amendment offered by the gentlewoman from New Mexico (Ms. HAALAND).

The vote was taken by electronic device, and there were—yeas 235, nays 173, not voting 22, as follows:

[Roll No. 203]  
YEAS—235

Adams	Boyle, Brendan	Castor (FL)
Aguilar	F.	Castro (TX)
Allred	Brindisi	Chu, Judy
Axne	Brown (MD)	Cicilline
Barragán	Brownley (CA)	Cisneros
Bass	Bustos	Clark (MA)
Beatty	Butterfield	Clarke (NY)
Bera	Carbajal	Clay
Beyer	Cárdenas	Cleaver
Bishop (GA)	Carson (IN)	Clyburn
Blumenauer	Cartwright	Cohen
Blunt Rochester	Case	Connolly
Bonamici	Casten (IL)	Cooper

Correa Kelly (IL) Porter King (NY) Palazzo Steil  
 Costa Kennedy Pressley Kinzinger Steube  
 Courtney Khanna Price (NC) Kinstinger Palmer Steube  
 Cox (CA) Kildee Quigley Kustoff (TN) Pence Stewart  
 Craig Kilmer Raskin LaHood Perry Stivers  
 Crist Kim Rice (NY) LaMalfa Posey Taylor  
 Crow Kind Richmond Lamborn Reed Thompson (PA)  
 Cuellar Kirkpatrick Rose (NY) Latta Reschenthaler Thornberry  
 Cunningham Krishnamoorthi Rouda Lesko Rice (SC) Timmons  
 Davids (KS) Kuster (NH) Roybal-Allard Long Roby Tipton  
 Davis (CA) Lamb Ruiz Ruppertsberger Luetkemeyer Rodgers (WA)  
 Davis, Danny K. Langevin Larsen (WA) Marshall Rogers (AL) Roe, David P.  
 Dean Larson (CT) Ryan Massie Rogers (KY) Rogers (KY)  
 DeFazio Lawrence Sánchez Roy Rose, John W.  
 DeGette DeGette Scanlon Mast Rouzer Walker  
 DeLauro Lawson (FL) Sarbanes McCarthy Roy Walorski  
 DelBene Lee (CA) Scanlon Scalise Schweikert Watkins  
 Delgado Lee (NV) Schakowsky McClintock Scott, Austin  
 Demings Levin (CA) Schiff Schneider Scott, Austin  
 DeSaulnier Levin (MI) Schriener Sensenbrenner Sensenbrenner  
 Deutch Lieu, Ted Schriener Shimkus Simpson  
 Dingell Lipinski Schriener Smith (MO) Smith (MO)  
 Doggett Loeb sack Scott, David Smith (NE)  
 Doyle, Michael Lofgren Scott, David Smith (NE)  
 F. Lowenthal Serrano Smucker Smucker  
 Engel Lowey Sewell (AL) Norman Spano Woodall  
 Escobar Luján Shalala Numan Stauber Young  
 Eshoo Luria Sherman Olson Stefanik Zeldin  
 Espallat Lynch Sherrill  
 Evans Malinowski Sires  
 Finkenauer Maloney, Carolyn B. Slotkin  
 Fitzpatrick Carolyn B. Smith (NJ)  
 Fletcher Maloney, Sean Smith (WA)  
 Foster Matsui Soto  
 Frankel McAdams Spanberger  
 Fudge McBath Speier  
 Gabbard McCollum Stanton  
 Gallego McEachin Stevens  
 Garamendi McGovern Suozzi  
 Garcia (IL) McNerney Swalwell (CA)  
 Garcia (TX) Meeks Takano  
 Golden Meng Thompson (CA)  
 Gomez Mfume Thompson (MS)  
 Gonzalez (TX) Moore Titus  
 Gottheimer Morelle Tlaib  
 Green, Al (TX) Moulton Tonko  
 Grijalva Mucarsel-Powell Torres (CA)  
 Haaland Murphy (FL) Torres Small  
 Harder (CA) Nadler (NM)  
 Hastings Napolitano Trahan  
 Hayes Neal Trone  
 Heck Neguse Underwood  
 Higgins (NY) Norcross Upton  
 Himes O'Halleran Vargas  
 Horn, Kendra S. Ocasio-Cortez Veasey  
 Horsford Omar Vela  
 Houlihan Pallone Velázquez  
 Hoyer Panetta Visclosky  
 Huffman Pappas Wasserman  
 Jackson Lee Pascrell Schultz  
 Jayapal Payne Waters  
 Jeffries Perlmutter Watson Coleman  
 Johnson (GA) Peters Welch  
 Johnson (TX) Peterson Wexton  
 Kaptur Phillips Wild  
 Katko Pingree Wilson (FL)  
 Keating Pocan Yarmuth

NAYS—173

Aderholt Cline Graves (LA)  
 Allen Cloud Graves (MO)  
 Amash Cole Green (TN)  
 Amodei Collins (GA) Griffith  
 Armstrong Comer Grothman  
 Arrington Conaway Guest  
 Babin Cook Guthrie  
 Bacon Crenshaw Hagedorn  
 Baird Curtis Harris  
 Balderson Davidson (OH) Hartzler  
 Banks Davis, Rodney Hern, Kevin  
 Barr DesJarlais Herrera Beutler  
 Bergman Diaz-Balart Hice (GA)  
 Biggs Duncan Higgins (LA)  
 Bilirakis Emmer Hill (AR)  
 Bishop (NC) Estes Hollingsworth  
 Bishop (UT) Fleischmann Hudson  
 Bost Flores Huizenga  
 Brady Fortenberry Hurd (TX)  
 Brooks (AL) Foxx (NC) Jacobs  
 Brooks (IN) Fulcher Johnson (LA)  
 Buchanan Gallagher Johnson (OH)  
 Buck Garcia (CA) Johnson (SD)  
 Bucshon Gianforte Jordan  
 Budd Gibbs Joyce (OH)  
 Burchett Gohmert Joyce (PA)  
 Calvert Gonzalez (OH) Keller  
 Carter (GA) Gooden Kelly (MS)  
 Carter (TX) Gosar Kelly (PA)  
 Chabot Granger King (IA)

Palazzo Steil  
 Palmer Steube  
 Pence Stewart  
 Perry Stivers  
 Posey Taylor  
 Reed Thompson (PA)  
 Reschenthaler Thornberry  
 Rice (SC) Timmons  
 Roby Tipton  
 Rodgers (WA) Turner  
 Roe, David P. Van Drew  
 Rogers (AL) Wagner  
 Rogers (KY) Walberg  
 Rose, John W. Walden  
 Rouzer Walker  
 Roy Walorski  
 Scalise Schweikert Watkins  
 Scott, Austin Weber (TX)  
 Sensenbrenner Webster (FL)  
 Shimkus Westerman  
 Simpson Williams  
 Smith (MO) Wittman  
 Smith (NE) Womack  
 Smucker Woodall  
 Spano Young  
 Stauber Zeldin  
 Stefanik

NOT VOTING—22

Abraham Graves (GA) Rutherford  
 Burgess Holding Tiffany  
 Byrne Marchant Waltz  
 Cheney Mitchell Wilson (SC)  
 Crawford Mullin Wright  
 Dunn Murphy (NC) Yoho  
 Ferguson Riggleman  
 Gaetz Rooney (FL)

□ 1453

Mrs. HARTZLER changed her vote from “yea” to “nay.”

So the amendment was agreed to.

The result of the vote was announced as above recorded.

A motion to reconsider was laid on the table.

MEMBERS RECORDED PURSUANT TO HOUSE RESOLUTION 965, 116TH CONGRESS

Bishop (GA) (Fudge) Meng (Clark (MA))  
 Chu, Judy (Takano) Moore (Beyer)  
 DeSaulnier (Matsui) Mucarsel-Powell  
 Frankel (Clark (MA)) (Wasserman  
 Grijalva (Garcia (IL)) Schultz)  
 Hastings (Wasserman Napolitano (Correa)  
 Schultz) Payne (Wasserman  
 Hayes (Courtney) Schultz)  
 Huffman (Thompson) Pingree (Clark (MA))  
 (CA)) Pocan (Raskin)  
 Jayapal (Raskin) Porter (Wexton)  
 Kaptur (Dingell) Richmond (Fudge)  
 Kim (Davids (KS)) Roybal-Allard  
 Kirkpatrick (Cárdenas)  
 (Gallego) Rush (Underwood)  
 Langevin (Lynch) Serrano (Jeffries)  
 Lawson (FL) (Evans) Speier (Scanlon)  
 Lieu, Ted (Beyer) Tlaib (Dingell)  
 Lipinski (Cooper) Watson Coleman  
 Lofgren (Jeffries) (Pallone)  
 Lowenthal (Beyer) Welch (McGovern)  
 Lowey (Tonko) Wilson (FL) (Adams)

AMENDMENTS EN BLOC NO. 4 OFFERED BY MR. LEVIN OF CALIFORNIA

The SPEAKER pro tempore. Pursuant to clause 8 of rule XX, the unfinished business is the question on amendments en bloc No. 4, printed in part B of House Report 116-528, on which further proceedings were postponed and on which the yeas and nays were ordered.

The Clerk will redesignate the amendments en bloc.

The Clerk redesignated the amendments en bloc.

The SPEAKER pro tempore. The question is on the amendments en bloc offered by the gentleman from California (Mr. LEVIN).

The vote was taken by electronic device, and there were—yeas 273, nays 132, not voting 25, as follows:

[Roll No. 204]

YEAS—273

Adams Garcia (TX) Napolitano  
 Aguilar Gianforte Neal  
 Allred Golden Neguse  
 Amodei Gomez Newhouse  
 Axne Gonzalez (OH) Norcross  
 Barragán Gonzalez (TX) Nunes  
 Bass Gottheimer O'Halleran  
 Beatty Graves (LA) Ocasio-Cortez  
 Bera Green, Al (TX) Omar  
 Beyer Grijalva Pallone  
 Bishop (GA) Haaland Panetta  
 Blumenauer Harder (CA) Pappas  
 Blunt Rochester Hartzler  
 Bonamici Hastings Pascrell  
 Bost Hayes Perlmutter  
 Boyle, Brendan Heck Peters  
 F. Herrera Beutler Peterson  
 Brindisi Higgins (NY) Phillips  
 Brooks (IN) Himes Pingree  
 Brown (MD) Horn, Kendra S. Pocan  
 Brownley (CA) Horsford Porter  
 Buchanan Houlihan Pressley  
 Burchett Hoyer Price (NC)  
 Bustos Huffman Quigley  
 Butterfield Hurd (TX) Raskin  
 Calvert Jackson Lee Reed  
 Carbajal Jacobs Rice (NY)  
 Cárdenas Jayapal Richmond  
 Carson (IN) Jeffries Rogers (KY)  
 Cartwright Johnson (GA) Rose (NY)  
 Case Johnson (LA) Rouda  
 Casten (IL) Johnson (SD) Roybal-Allard  
 Castor (FL) Johnson (TX) Ruiz  
 Castro (TX) Joyce (OH) Ruppertsberger  
 Chu, Judy Kaptur Rush  
 Cicilline Katko Ryan  
 Cisneros Keating Sánchez  
 Clark (MA) Kelly (IL) Sarbanes  
 Clarke (NY) Kennedy Scanlon  
 Clay Khanna Schakowsky  
 Cleaver Kildee Schiff  
 Clyburn Kilmer Schneider  
 Cohen Kim Schriener  
 Connolly Kind Schriener  
 Cook King (NY) Scott (VA)  
 Cooper Kirkpatrick Scott, David  
 Correa Krishnamoorthi Scott, David  
 Costa LaMalfa Serrano  
 Courtney Lamb Sewell (AL)  
 Cox (CA) Langevin Shalala  
 Craig Larsen (WA) Sherman  
 Crist Larson (CT) Sherrill  
 Crow Lawrence Simpson  
 Cuellar Lawson (FL) Sires  
 Cunningham Lee (CA) Slotkin  
 Davids (KS) Lee (NV) Smith (NJ)  
 Davis (CA) Levin (CA) Smith (WA)  
 Davis, Danny K. Levin (MI) Soto  
 Davis, Rodney Lieu, Ted Spanberger  
 Dean Lipinski Speier  
 DeFazio Loeb sack Stanton  
 DeGette Lofgren Stefanik  
 DeLauro Lowenthal Steil  
 DelBene Lowey Stevens  
 Delgado Luján Stivers  
 Demings Luria Suozzi  
 DeSaulnier Lynch Swalwell (CA)  
 Deutch Malinowski Takano  
 Diaz-Balart Maloney, Thompson (CA)  
 Dingell Carolyn B. Thompson (MS)  
 Doggett Maloney, Sean Thompson (PA)  
 Doyle, Michael Matsui Titus  
 F. McAdams Tlaib  
 Engel McBath Tonko  
 Escobar McCarthy Torres (CA)  
 Eshoo McCaul Torres Small  
 Espallat McClintock (NM)  
 Evans McCollum Trahan  
 Finkenauer McEachin Trone  
 Fitzpatrick McGovern Underwood  
 Fleischmann McKinley Upton  
 Fortenberry Fletcher McNerney Van Drew  
 Foster Meeks Vargas  
 Frankel Meng Veasey  
 Fudge Mfume Vela  
 Gabbard Moore Velázquez  
 Gallego Morelle Visclosky  
 Garamendi Moulton Walden  
 Garcia (CA) Mucarsel-Powell Wasserman  
 Garcia (IL) Murphy (FL) Schultz  
 Nadler Waters

Watson Coleman  
Welch

Wexton  
Wild

NAYS—132

Aderholt  
Allen  
Amash  
Armstrong  
Arrington  
Babin  
Bacon  
Baird  
Balderson  
Banks  
Barr  
Bergman  
Biggs  
Bilirakis  
Bishop (UT)  
Brady  
Brooks (AL)  
Buck  
Buchson  
Budd  
Carter (GA)  
Carter (TX)  
Chabot  
Cline  
Cloud  
Cole  
Collins (GA)  
Comer  
Conaway  
Crenshaw  
Curtis  
Davidson (OH)  
DesJarlais  
Duncan  
Emmer  
Estes  
Flores  
Foxx (NC)  
Fulcher  
Gallagher  
Gibbs  
Gohmert  
Gooden  
Gosar

Granger  
Graves (MO)  
Green (TN)  
Griffith  
Grothman  
Guest  
Guthrie  
Hagedorn  
Harris  
Hern, Kevin  
Hice (GA)  
Higgins (LA)  
Hill (AR)  
Hollingsworth  
Hudson  
Huizenga  
Johnson (OH)  
Jordan  
Joyce (PA)  
Keller  
Kelly (MS)  
Kelly (PA)  
King (IA)  
Kinzinger  
Kustoff (TN)  
LaHood  
Lamborn  
Latta  
Lesko  
Long  
Loudermilk  
Lucas  
Luetkemeyer  
Marshall  
Massie  
Mast  
McHenry  
Meuser  
Miller  
Moolenaar  
Mooney (WV)  
Norman  
Olson  
Palazzo

Wilson (FL)  
Yarmuth

Palmer  
Pence  
Perry  
Posey  
Reschenthaler  
Rice (SC)  
Roby  
Rodgers (WA)  
Roe, David P.  
Rogers (AL)  
Rose, John W.  
Rouzer  
Roy  
Scalise  
Schweikert  
Scott, Austin  
Shimkus  
Smith (MO)  
Smith (NE)  
Smucker  
Spano  
Stauber  
Steube  
Stewart  
Taylor  
Thornberry  
Timmons  
Tipton  
Turner  
Wagner  
Walberg  
Walker  
Walorski  
Watkins  
Weber (TX)  
Webster (FL)  
Wenstrup  
Westerman  
Williams  
Willman  
Womack  
Woodall  
Young  
Zeldin

Tlaib (Dingell)  
Watson Coleman  
(Pallone)

Welch (McGovern)  
Wilson (FL) (Adams)

The SPEAKER pro tempore. The previous question is ordered on the bill, as amended.

The question is on the engrossment and third reading of the bill.

The bill was ordered to be engrossed and read a third time, and was read the third time.

MOTION TO RECOMMIT

Mr. LUCAS. Mr. Speaker, I have a motion to recommit at the desk.

The SPEAKER pro tempore. Is the gentleman opposed to the bill?

Mr. LUCAS. Mr. Speaker, I am opposed in its current form.

The SPEAKER pro tempore. The Clerk will report the motion to recommit.

The Clerk read as follows:

Mr. Lucas moves to recommit the bill H.R. 4447 to the Committee on Energy and Commerce with instructions to report the same back to the House forthwith, with the following amendment:

At the end of the bill, insert the following:

**Subtitle G—Prohibition on the Transfer of Intellectual Property**  
**SEC. 12701. STATE-OWNED ENTERPRISES PROHIBITION.**

(a) INNOVATE IN AMERICA.—None of the funds authorized or made available by this Act, or the amendments made by this Act, may be used in awarding a grant, loan, or demonstration project to an entity that fails to certify that resulting intellectual property, technologies, and data, for the purpose authorized, will not be transferred to any other entity that—

(1) is determined to be of risk by the Secretary of Energy in consultation with the Under Secretary for Science; the Under Secretary of Energy; the Under Secretary for Nuclear Security; and the Department of Energy's Office of Intelligence and Counterintelligence;

(2) is identified as a nonmarket economy country (in accordance with section 771(18) of the Tariff Act of 1930 (19 U.S.C. 1677(18))) as of the date of enactment of this Act; or

(3) was identified by the United States Trade Representative in the most recent report submitted under section 182 of the Trade Act of 1974 (19 U.S.C. 2242) as a priority foreign country under subsection (a)(2) of such section.

(b) INTERNATIONAL AGREEMENTS.—This section shall be applied in a manner consistent with the obligations of the United States under international agreements.

Page 9, in the table of contents, after the matter relating to section 12606, insert the following:

Subtitle G—Prohibition on the Transfer of Intellectual Property  
Sec. 12701. State-owned enterprises prohibition.

Mr. LUCAS (during the reading). Mr. Speaker, I ask unanimous consent to dispense with the reading.

The SPEAKER pro tempore. Is there objection to the request of the gentleman from Oklahoma?

There was no objection.

The SPEAKER pro tempore. Pursuant to the rule, the gentleman from Oklahoma is recognized for 5 minutes in support of his motion.

Mr. LUCAS. Mr. Speaker, my motion will ensure that none of the \$135 billion

in taxpayer funds authorized in H.R. 4447 will be used to build up foreign countries' intellectual property and technology at the expense of our own.

Specifically, in order to receive Federal grants, loans, or demonstration money through H.R. 4447, organizations must certify that the results of that funding, whether technology, intellectual property, or data, will not become the property of a foreign state-owned enterprise.

Mr. Speaker, China has made it an explicit goal to surpass the United States as the global frontrunner in science and technology. The Chinese Communist Party's Made in 2025 initiative outlines a clear strategy to get ahead of us in critical technologies and industries of the future.

Part of the CCP strategy is acquiring U.S. technology and intellectual property, whether through investment, coercion, or theft.

Let me repeat that: through investment, coercion, or, yes, even theft.

This isn't a hypothetical situation. Already, China has recruited U.S.-funded researchers for things like the Thousand Talents program.

This is much more than a single recruitment program or an exchange of knowledge. Researchers joining the Thousand Talents program sign legally binding contracts that require them to transfer information and property to China.

We have seen a consistent pattern where China expresses interest in a specific technology and then the U.S. experiences intellectual property theft in that same technology.

The full scope of the CCP's influence and presence in the U.S. is not entirely known to the public, but FBI Director Christopher Wray has said that the Bureau is opening a new China-related counterintelligence case about every 10 hours.

Simply put, we are spending the time, the money, and the effort to plant the seeds of new technologies, but China is the one harvesting the crop. We cannot afford to spend \$135 billion in taxpayers' funds on technologies that China will then steal and use to compete against us. We must protect our Nation's research and intellectual property.

The Trump administration has taken good steps towards protecting American IP from Chinese aggression, but we must do more to work together to protect sensitive American research while maintaining the spirit of open science that has fueled, literally, generations of discoveries.

Mr. Speaker, this motion provides commonsense, practical protections for taxpayer-funded research and the incalculable innovations it creates. I urge my colleagues to support this motion and ensure that we are not spending billions of dollars on research that China will then use to outcompete us.

Mr. Speaker, I yield back the balance of my time.

Ms DeGETTE. Mr. Speaker, I rise in opposition to the motion to recommit.

NOT VOTING—25

Abraham  
Bishop (NC)  
Burgess  
Byrne  
Cheney  
Crawford  
Dunn  
Ferguson  
Gaetz

Graves (GA)  
Holding  
Kuster (NH)  
Marchant  
Mitchell  
Mullin  
Murphy (NC)  
Riggleman  
Rooney (FL)

Rutherford  
Sensenbrenner  
Tiffany  
Waltz  
Wilson (SC)  
Wright  
Yoho

□ 1542

Messrs. GRAVES of Louisiana and MCCARTHY changed their vote from "nay" to "yea."

So the en bloc amendments were agreed to.

The result of the vote was announced as above recorded.

A motion to reconsider was laid on the table.

MEMBERS RECORDED PURSUANT TO HOUSE RESOLUTION 965, 116TH CONGRESS

Bishop (GA) (Fudge)  
Chu, Judy (Takano)  
DeSaulnier (Matsui)  
Frankel (Clark (MA))  
Grijalva (García (IL))  
Hastings (Wasserman Schultz)  
Hayes (Courtney)  
Huffman (Thompson (CA))  
Jayapal (Raskin)  
Kaptur (Dingell)  
Kim (Davids (KS))  
Kirkpatrick (Gallego)  
Langevin (Lynch)  
Lawson (FL) (Evans)  
Lieu, Ted (Beyer)  
Lipinski (Cooper)  
Lofgren (Jeffries)

Lowenthal (Beyer)  
Lowe (Tonko)  
Meng (Clark (MA))  
Moore (Beyer)  
Mucarsel-Powell (Wasserman Schultz)  
Napolitano (Correa)  
Payne (Wasserman Schultz)  
Pingree (Clark (MA))  
Pocan (Raskin)  
Porter (Wexton)  
Richmond (Fudge)  
Roybal-Allard (Cárdenas)  
Rush (Underwood)  
Serrano (Jeffries)  
Speier (Scanlon)



The SPEAKER pro tempore. The gentleman from Colorado is recognized for 5 minutes.

Ms. DEGETTE. Mr. Speaker, I have reviewed the motion to recommit, and I must say to the gentleman, I certainly agree with the concept that the gentleman from Oklahoma says is in this motion to recommit, but, tragically, a reading of the motion shows that that is just not true.

The gentleman says that he is trying to stop foreign powers from getting control over our intellectual property, but if you look at this amendment, it basically gives ultimate power to the administration to decide who is at risk and who shall not be or shall be allowed to be certified.

Section A(1) here says these technologies will not be transferred if it is determined to be at risk to the Secretary of Energy in consultation with others.

At risk for what? At risk to whom? We simply don't know by reading this. And what it could do is it could exempt entities that, for example, have investments by U.S. Government officials or relatives of U.S. Government officials. We just don't know. And what it is is just a power grab by the administration.

We agree with the concept. We shouldn't be allowing intellectual property to be transferred to foreign governments, but that is not what this motion to recommit does. That is why we should all oppose the motion to recommit, and we should, of course, all vote "yes" on the Clean Economy Jobs and Innovation Act.

What this bill does is it makes long-overdue reforms to U.S. energy policy, and it authorizes major investments in the transition to a low-carbon future, which we so desperately need.

We saw from all of the amendments that we passed, Democratic and Republican amendments that we passed today, how this bill, together, can really usher in a new era for American innovation, serve as a down payment on comprehensive climate action, and can also create jobs and stimulate our economy.

Mr. Speaker, I urge all of our Members to take a close look at this motion to recommit and see what the real damage it could do will be.

Vote "no" on the motion to recommit, and vote "yes" for clean energy jobs and innovation.

Mr. Speaker, I yield back the balance of my time.

The SPEAKER pro tempore. Without objection, the previous question is ordered on the motion to recommit.

There was no objection.

The SPEAKER pro tempore. The question is on the motion to recommit. The question was taken; and the Speaker pro tempore announced that the noes appeared to have it.

Mr. LUCAS. Mr. Speaker, on that I demand the yeas and nays.

The SPEAKER pro tempore. Pursuant to section 3 of House Resolution 965, the yeas and nays are ordered.

The vote was taken by electronic device, and there were—yeas 193, nays 214, not voting 23, as follows:

[Roll No. 205]

YEAS—193

Aderholt	Granger	Olson
Allen	Graves (LA)	Palazzo
Amodei	Graves (MO)	Palmer
Armstrong	Green (TN)	Pappas
Arrington	Griffith	Pence
Axne	Grothman	Perry
Babin	Guest	Peterson
Bacon	Guthrie	Posey
Baird	Hagedorn	Reed
Balderson	Harris	Reschenthaler
Banks	Hartzler	Rice (SC)
Barr	Hern, Kevin	Roby
Bergman	Herrera Beutler	Rodgers (WA)
Biggs	Hice (GA)	Roe, David P.
Bilirakis	Higgins (LA)	Rogers (AL)
Bishop (NC)	Hill (AR)	Rogers (KY)
Bishop (UT)	Holding	Rose (NY)
Bost	Hollingsworth	Rose, John W.
Brady	Horn, Kendra S.	Rouzer
Brindisi	Hudson	Roy
Brooks (AL)	Huizenga	Scalise
Brooks (IN)	Hurd (TX)	Schweikert
Buchanan	Jacobs	Scott, Austin
Buck	Johnson (LA)	Sensenbrenner
Bucshon	Johnson (OH)	Sherrill
Budd	Johnson (SD)	Simpson
Burchett	Jordan	Slotkin
Calvert	Joyce (OH)	Smith (MO)
Carter (GA)	Joyce (PA)	Smith (NE)
Carter (TX)	Katko	Smith (NJ)
Chabot	Keller	Smucker
Cline	Kelly (MS)	Spanberger
Cloud	Kelly (PA)	Spano
Cole	King (IA)	Stauber
Collins (GA)	King (NY)	Stefanik
Comer	Kinzinger	Steil
Conaway	Kustoff (TN)	Steube
Cook	LaHood	Stewart
Crenshaw	LaMalfa	Stivers
Cunningham	Lamb	Taylor
Curtis	Lamborn	Thompson (PA)
Davidson (OH)	Latta	Thornberry
Davis, Rodney	Lesko	Timmons
DeFazio	Long	Tipton
DesJarlais	Loudermilk	Torres Small
Diaz-Balart	Lucas	(NM)
Duncan	Luetkemeyer	Turner
Emmer	Marshall	Upton
Estes	Massie	Van Drew
Finkenauer	Mast	Wagner
Fitzpatrick	McAdams	Walberg
Fleischmann	McBath	Walden
Flores	McCarthy	Walker
Fortenberry	McCaul	Walorski
Fox (NC)	McClintock	Watkins
Fulcher	McHenry	Weber (TX)
Gallagher	McKinley	Webster (FL)
Garcia (CA)	Meuser	Wenstrup
Gianforte	Miller	Westerman
Gibbs	Moolenaar	Williams
Gohmert	Mooney (WV)	Wittman
Golden	Murphy (FL)	Womack
Gonzalez (OH)	Newhouse	Woodall
Gooden	Norman	Zeldin
Gosar	Nunes	

NAYS—214

Adams	Castor (FL)	DeGette
Aguilar	Castro (TX)	DeLauro
Allred	Chu, Judy	DelBene
Amash	Cicilline	Delgado
Barragán	Cisneros	Demings
Bass	Clark (MA)	DeSaulnier
Beatty	Clarke (NY)	Deutch
Bera	Clay	Dingell
Beyer	Cleaver	Doggett
Bishop (GA)	Clyburn	Doyle, Michael
Blumenauer	Cohen	F.
Blunt Rochester	Connolly	Engel
Bonamici	Cooper	Escobar
Boyle, Brendan	Correa	Eshoo
F.	Costa	Espallat
Brown (MD)	Courtney	Evans
Brownley (CA)	Cox (CA)	Fletcher
Bustos	Craig	Foster
Butterfield	Crist	Frankel
Carbajal	Crow	Frankel
Cárdenas	Cuellar	Fudge
Carson (IN)	Davids (KS)	Gabbard
Cartwright	Davis (CA)	Galleo
Case	Davis, Danny K.	Garamendi
Casten (IL)	Dean	Garcia (IL)
		Garcia (TX)

Gomez	Luján	Ryan
Gonzalez (TX)	Luria	Sánchez
Gotthelmer	Lynch	Sarbanes
Green, Al (TX)	Malinowski	Scanlon
Grijalva	Maloney,	Schakowsky
Haaland	Carolyn B.	Schiff
Harder (CA)	Maloney, Sean	Schneider
Hastings	Matsui	Schrader
Hayes	McCollum	Schrier
Heck	McEachin	Scott (VA)
Higgins (NY)	McGovern	Scott, David
Himes	McNerney	Serrano
Horsford	Meeks	Sewell (AL)
Houlahan	Meng	Shalala
Hoyer	Mfume	Sherman
Huffman	Moore	Sires
Jackson Lee	Morelle	Smith (WA)
Jayapal	Moulton	Soto
Jeffries	Mucarsel-Powell	Speier
Johnson (GA)	Nadler	Stanton
Johnson (TX)	Napolitano	Stevens
Kaptur	Neal	Suozzi
Keating	Neguse	Swalwell (CA)
Kelly (IL)	Norcross	Takano
Kennedy	O'Halleran	Thompson (CA)
Khanna	Ocasio-Cortez	Thompson (MS)
Kildee	Omar	Titus
Kilmer	Pallone	Tlaib
Kim	Panetta	Tonko
Kind	Pascrell	Torres (CA)
Kirkpatrick	Payne	Trahan
Krishnamoorthi	Perlmutter	Trone
Kuster (NH)	Peters	Underwood
Langevin	Phillips	Vargas
Larsen (WA)	Pingree	Veasey
Larson (CT)	Pocan	Vela
Lawrence	Porter	Velázquez
Lawson (FL)	Pressley	Visclosky
Lee (CA)	Price (NC)	Wasserman
Lee (NV)	Quigley	Raskin
Levin (CA)	Raskin	Schultz
Levin (MI)	Rice (NY)	Waters
Lieu, Ted	Richmond	Watson Coleman
Lipinski	Rouda	Welch
Loeb sack	Roybal-Allard	Wexton
Lofgren	Ruiz	Wild
Lowenthal	Ruppersberger	Wilson (FL)
Lowe y	Rush	Yarmuth

NOT VOTING—23

Abraham	Graves (GA)	Shimkus
Burgess	Marchant	Tiffany
Byrne	Mitchell	Waltz
Cheney	Mullin	Wilson (SC)
Crawford	Murphy (NC)	Wright
Dunn	Rigglesman	Yoho
Ferguson	Rooney (FL)	Young
Gaetz	Rutherford	

□ 1648

Messrs. CORREA, RICHMOND, VARGAS, and VELA changed their vote from "yea" to "nay."

Messrs. TURNER, FORTENBERRY, PAPPAS, and MCHENRY changed their vote from "nay" to "yea."

So the motion to recommit was rejected.

The result of the vote was announced as above recorded.

MEMBERS RECORDED PURSUANT TO HOUSE RESOLUTION 965, 116TH CONGRESS

Bishop (GA) (Fudge)	Lowenthal (Beyer)
Chu, Judy (Takano)	Lowe y (Tonko)
DeSaulnier (Matsui)	Meng (Clark (MA))
Frankel (Clark (MA))	Moore (Beyer)
Grijalva (García (IL))	Mucarsel-Powell
Hastings (Wasserman	(Wasserman
Schultz)	Schultz)
Hayes (Courtney)	Napolitano (Correa)
Huffman (Thompson	Payne (Wasserman
(CA))	Schultz)
Jayapal (Raskin)	Pingree (Clark (MA))
Kaptur (Dingell)	Pocan (Raskin)
Kim (Davids (KS))	Porter (Wexton)
Kirkpatrick	Richmond (Fudge)
(Gallego)	Roybal-Allard
Langevin (Lynch)	(Cárdenas)
Lawson (FL) (Evans)	Rush (Underwood)
Lieu, Ted (Beyer)	Serrano (Jeffries)
Lipinski (Cooper)	Speier (Scanlon)
Lofgren (Jeffries)	

Tlaib (Dingell) Welch (McGovern)  
 Watson Coleman Wilson (FL) (Adams)  
 (Pallone) Wexton

Wild  
 Wilson (FL)

Yarmuth  
 Young

MEMBERS RECORDED PURSUANT TO HOUSE  
 RESOLUTION 965, 116TH CONGRESS

The SPEAKER pro tempore (Ms. DELBENE). The question is on the passage of the bill.

The question was taken; and the Speaker pro tempore announced that the ayes appeared to have it.

Mr. WALDEN. Madam Speaker, on that I demand the yeas and nays.

The SPEAKER pro tempore. Pursuant to section 3 of House Resolution 965, the yeas and nays are ordered.

The vote was taken by electronic device, and there were—yeas 220, nays 185, not voting 25, as follows:

[Roll No. 206]

YEAS—220

Adams Frankel  
 Aguilar Fudge  
 Allred Gabbard  
 Axne Gallego  
 Bacon Garamendi  
 Barragan Garcia (TX)  
 Bass Golden  
 Beatty Gonzalez (TX)  
 Bera Gottheimer  
 Beyer Green, Al (TX)  
 Bishop (GA) Grijalva  
 Blumenauer Haaland  
 Blunt Rochester Harder (CA)  
 Bonamici Hastings  
 Boyle, Brendan F. Hayes  
 Heck  
 Brindisi Higgins (NY)  
 Brown (MD) Himes  
 Brownley (CA) Horsford  
 Bustos Houlihan  
 Butterfield Hoyer  
 Carbajal Huffman  
 Cárdenas Jackson Lee  
 Carson (IN) Jeffries  
 Cartwright Johnson (GA)  
 Case Johnson (TX)  
 Casten (IL) Kaptur  
 Castor (FL) Katko  
 Castro (TX) Keating  
 Chu, Judy Kelly (IL)  
 Cicilline Kennedy  
 Cisneros Kildee  
 Clark (MA) Kilmer  
 Clarke (NY) Kim  
 Clay Kind  
 Cleaver Kirkpatrick  
 Clyburn Krishnamoorthi  
 Cohen Kuster (NH)  
 Connolly Lamb  
 Cooper Langevin  
 Correa Larsen (WA)  
 Costa Larson (CT)  
 Courtney Lawrence  
 Cox (CA) Lawson (FL)  
 Craig Lee (CA)  
 Crist Lee (NV)  
 Crow Levin (CA)  
 Cuellar Lieu, Ted  
 Cunningham Lipinski  
 Davids (KS) Loeb sack  
 Davis (CA) Lofgren  
 Davis, Danny K. Lowenthal  
 Dean Lowey  
 DeFazio Lujan  
 DeGette Luria  
 DeLauro Lynch  
 DelBene Malinowski  
 Delgado Maloney, Sean  
 Demings Matsui  
 DeSaulnier McAdams  
 Deutch McBath  
 Dingell McCollum  
 Doyle, Michael F. McEachin  
 Engel McNeerney  
 Meeks  
 Escobar Mfume  
 Eshoo Moore  
 Evans Morelle  
 Finkenauer Moulton  
 Fitzpatrick Mucarsel-Powell  
 Fletcher Murphy (FL)  
 Fortenberry Napolitano  
 Foster Neal

Aderholt  
 Allen  
 Amash  
 Amodei  
 Armstrong  
 Arrington  
 Babin  
 Baird  
 Balderson  
 Banks  
 Barr  
 Bergman  
 Biggs  
 Bilirakis  
 Bishop (NC)  
 Bishop (UT)  
 Bost  
 Brady  
 Brooks (AL)  
 Brooks (IN)  
 Buchanan  
 Buck  
 Bucshon  
 Budd  
 Burchett  
 Calvert  
 Carter (GA)  
 Carter (TX)  
 Chabot  
 Cline  
 Cloud  
 Cole  
 Collins (GA)  
 Comer  
 Conaway  
 Cook  
 Crenshaw  
 Curtis  
 Davidson (OH)  
 Davis, Rodney  
 DesJarlais  
 Diaz-Balart  
 Doggett  
 Duncan  
 Emmer  
 Espallat  
 Estes  
 Fleischmann  
 Flores  
 Foxx (NC)  
 Fulcher  
 Gallagher  
 Garcia (CA)  
 Garcia (IL)  
 Gianforte  
 Gibbs  
 Gohmert  
 Gomez  
 Gonzalez (OH)  
 Gooden  
 Gosar  
 Graves (LA)  
 Abraham  
 Burgess  
 Byrne  
 Cheney  
 Crawford  
 Dunn  
 Ferguson  
 Gaetz  
 Granger  
 Graves (GA)  
 Marchant  
 Mitchell  
 Mullin  
 Murphy (NC)  
 Rigglesman  
 Rogers (AL)  
 Rooney (FL)  
 Rutherford

NAYS—185

Graves (MO)  
 Green (TN)  
 Griffith  
 Grothman  
 Guest  
 Guthrie  
 Hagedorn  
 Harris  
 Hartzler  
 Hern, Kevin  
 Herrera Beutler  
 Hice (GA)  
 Higgins (LA)  
 Hill (AR)  
 Holding  
 Hollingsworth  
 Horn, Kendra S.  
 Hudson  
 Huizenga  
 Hurd (TX)  
 Jacobs  
 Jayapal  
 Johnson (LA)  
 Johnson (OH)  
 Johnson (SD)  
 Jordan  
 Joyce (OH)  
 Joyce (PA)  
 Keller  
 Kelly (MS)  
 Kelly (PA)  
 Cole  
 Khanna  
 King (IA)  
 King (NY)  
 Kinzinger  
 Kustoff (TN)  
 LaHood  
 Curtis  
 Lamborn  
 Latta  
 Lesko  
 Levin (MI)  
 Long  
 Loudermilk  
 Lucas  
 Luetkemeyer  
 Maloney  
 Carolyn B.  
 Marshall  
 Massie  
 Mast  
 McCarthy  
 McCaul  
 McClintock  
 McGovern  
 McHenry  
 McKinley  
 Meng  
 Meuser  
 Miller  
 Moolenaar  
 Mooney (WV)  
 Nadler  
 Newhouse  
 Norman  
 Nunes  
 Ocasio-Cortez  
 Olson  
 Omar  
 Palazzo  
 Palmer  
 Pence  
 Perry  
 Posey  
 Pressley  
 Raskin  
 Reed  
 Reschenthaler  
 Rice (SC)  
 Roby  
 Rodgers (WA)  
 Roe, David P.  
 Rogers (KY)  
 Rose, John W.  
 Rouzer  
 Roy  
 Scalise  
 Schweikert  
 Scott, Austin  
 Sensenbrenner  
 Simpson  
 Smith (MO)  
 Smith (NE)  
 Smucker  
 Spano  
 Stauber  
 Stefanik  
 Steil  
 Steube  
 Stewart  
 Stivers  
 Taylor  
 Thompson (PA)  
 Thornberry  
 Timmons  
 Tipton  
 Tlaib  
 Turner  
 Upton  
 Velázquez  
 Wagner  
 Walberg  
 Walden  
 Walorski  
 Watkins  
 Weber (TX)  
 Webster (FL)  
 Wenstrup  
 Westerman  
 Williams  
 Wittman  
 Womack  
 Woodall  
 Zeldin

NOT VOTING—25

Abraham  
 Slotkin  
 Burgess  
 Lee (CA)  
 Smith (WA)  
 Soto  
 Spanberger  
 Speier  
 Stanton  
 Stevens  
 Suozzi  
 Swalwell (CA)  
 Takano  
 Thompson (CA)  
 Thompson (MS)  
 Titus  
 Tonko  
 Torres (CA)  
 Torres Small  
 (NM)  
 Trahan  
 Trone  
 Underwood  
 Van Drew  
 Vargas  
 Veasey  
 Vela  
 Viscosky  
 Wasserman  
 Schultz  
 Waters  
 Watson Coleman

□ 1728

Mr. GROTHMAN changed his vote from “yea” to “nay.”

So the bill was passed.

The result of the vote was announced as above recorded.

A motion to reconsider was laid on the table.

Stated against:

Ms. GRANGER. Madam Speaker, I missed votes due to circumstances beyond my control. Had I been present, I would have voted nay on rollcall No. 206.

Bishop (GA) (Fudge)  
 Chu, Judy (Takano)  
 DeSaulnier (Matsui)  
 Frankel (Clark (MA))  
 Grijalva (Garcia (IL))  
 Hastings (Wasserman  
 Schultz)  
 Hayes (Courtney)  
 Huffman (Thompson  
 (CA))  
 Jayapal (Raskin)  
 Kaptur (Dingell)  
 Kim (Davids (KS))  
 Kirkpatrick  
 (Gallego)  
 Langevin (Lynch)  
 Lawson (FL) (Evans)  
 Lieu, Ted (Beyer)  
 Lipinski (Cooper)  
 Lofgren (Jeffries)  
 Lowenthal (Beyer)  
 Lowey (Tonko)  
 Meng (Clark (MA))  
 Moore (Beyer)  
 Mucarsel-Powell  
 (Wasserman  
 Schultz)  
 Napolitano (Correa)  
 Payne (Wasserman  
 Schultz)  
 Pingree (Clark (MA))  
 Pocan (Raskin)  
 Porter (Wexton)  
 Richmond (Fudge)  
 Roybal-Allard  
 (Cárdenas)  
 Rush (Underwood)  
 Serrano (Jeffries)  
 Speier (Scanlon)  
 Tlaib (Dingell)  
 Watson Coleman  
 (Pallone)  
 Welch (McGovern)  
 Wilson (FL) (Adams)

MOMENT OF SILENCE IN REMEMBRANCE OF THE VICTIMS OF WILDFIRES IN THE WESTERN UNITED STATES

The SPEAKER pro tempore (Mr. THOMPSON of California). The Chair would ask all Members to rise for a moment of silence in remembrance of the victims of wildfires that have recently afflicted the Western United States.

AUTHORIZING THE CLERK TO MAKE CORRECTIONS IN ENGROSSMENT OF H.R. 4447, EXPANDING ACCESS TO SUSTAINABLE ENERGY ACT OF 2019

Mr. PALLONE. Mr. Speaker, I ask unanimous consent that in the engrossment of H.R. 4447, the Clerk be authorized to correct section numbers, punctuation, spelling, and cross-references and to make such other technical and conforming changes as may be necessary to reflect the actions of the House.

The SPEAKER pro tempore (Mr. LEVIN of Michigan). Is there objection to the request of the gentleman from New Jersey?

There was no objection.

PROVIDING FOR USE OF THE CATAFALQUE SITUATED IN THE CRYPT BENEATH THE ROTUNDA OF THE CAPITOL IN CONNECTION WITH MEMORIAL SERVICES TO BE CONDUCTED IN THE SUPREME COURT BUILDING AND THE CAPITOL FOR THE LATE HONORABLE RUTH BADER GINSBURG, ASSOCIATE JUSTICE OF THE UNITED STATES SUPREME COURT

Ms. DELBENE. Mr. Speaker, I ask unanimous consent to take from the Speaker’s table the concurrent resolution (S. Con. Res. 45) providing for the use of the catafalque situated in the crypt beneath the Rotunda of the Capitol in connection with memorial services to be conducted in the Supreme Court Building and the Capitol for the