117TH CONGRESS 1ST SESSION H.R. 4309

To advance innovation in and deployment of zero-emission electricity technology, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JULY 1, 2021

Ms. DEGETTE (for herself, Mr. PETERS, and Ms. KUSTER) introduced the following bill; which was referred to the Committee on Energy and Commerce, and in addition to the Committees on Science, Space, and Technology, Ways and Means, Transportation and Infrastructure, and Education and Labor, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To advance innovation in and deployment of zero-emission electricity technology, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- **3** SECTION 1. SHORT TITLE; TABLE OF CONTENTS.
- 4 (a) SHORT TITLE.—This Act may be cited as the
- 5 "Clean Energy Innovation and Deployment Act of 2021".
- 6 (b) TABLE OF CONTENTS.—The table of contents for

7 this Act is as follows:

Sec. 1. Short title; table of contents.

TITLE I—INVESTMENT IN CLEAN ENERGY TECHNOLOGY INNOVATION

Sec. 100. Purpose.

Subtitle A—Clean Energy Deployment Administration

- Sec. 101. Definitions.
- Sec. 102. Energy technology deployment goals.
- Sec. 103. Clean Energy Deployment Administration.
- Sec. 104. Administration functions.
- Sec. 105. Improvements to existing clean energy investment programs.
- Sec. 106. Federal credit authority.
- Sec. 107. General provisions.

Subtitle B—Carbon-Free Technology Innovation

- Sec. 111. Demand efficiency technology innovation.
- Sec. 112. Super hot rock geothermal energy technology innovation.
- Sec. 113. Zero carbon fuel technology innovation.
- Sec. 114. Advanced nuclear reactor innovation.
- Sec. 115. National offshore wind energy goal.

TITLE II—ZERO-EMISSION ELECTRICITY STANDARD

Sec. 200. Purpose.

Subtitle A—Zero-Emission Electricity Standard

- Sec. 201. Definitions.
- Sec. 202. Zero-emission electricity requirement.
- Sec. 203. Zero-emission electricity credit trading program.
- Sec. 204. Determination and issuance of quantity of zero-emission electricity credits.
- Sec. 205. Carbon Mitigation Fund.
- Sec. 206. State programs.
- Sec. 207. Report to Congress.
- Sec. 208. Information collection.
- Sec. 209. Civil penalties.
- Sec. 210. Regulations.

Subtitle B—Methane Regulation

Sec. 211. Methane regulation.

TITLE III—INCENTIVES FOR THE ACCELERATED DEPLOYMENT OF ZERO-EMISSION ELECTRICITY

Sec. 300. Purpose.

Subtitle A—Incentives for the Accelerated Deployment of 80-Percent and 100-Percent Zero-Emission Electricity Systems

- Sec. 301. Zero-emission electricity acceleration investment tax credit.
- Sec. 302. Zero-emission electricity acceleration grants.
- Sec. 303. Recipients of certain clean energy investment tax credits.

Subtitle B—Carbon-Targeted Zero-Emission Electricity Tax Credit

- Sec. 311. Carbon-targeted zero-emission electricity tax credit.
- Sec. 312. Election to treat carbon-targeted zero-emission electricity facility as energy property.
- Sec. 313. Energy tax credit monetization.

TITLE IV—LOW-INCOME RATE-PAYER PROTECTION

- Sec. 400. Purpose.
- Sec. 401. Weatherization assistance program.
- Sec. 402. LIHEAP authorization.

TITLE V—ENERGY WORKFORCE TRANSITION AND TRAINING

Sec. 500. Purposes and definitions.

Subtitle A—State Energy Plans

Sec. 501. State energy plans.

Sec. 502. Authorization of appropriations.

Subtitle B—Energy Workforce Transition

- Sec. 511. Energy Workforce Transition Office and Advisory Committee.
- Sec. 512. Energy workforce transition plans and reemployment of affected workers.

Subtitle C-Modern Energy Workforce Development

PART 1-MODERN ENERGY WORKFORCE DEVELOPMENT

- Sec. 521. Modern energy workforce development.
- Sec. 522. Clean Energy Jobs Training Program.
- Sec. 523. University Zero-Emission Energy Leadership Program.
- Sec. 524. Authorization of appropriations.

Part 2—Climate Resiliency Corps

- Sec. 531. Establishment of the Climate Resiliency Corps.
- Sec. 532. Board of Directors of the Climate Resiliency Corps.
- Sec. 533. Chief executive officer of the Climate Resiliency Corps.
- Sec. 534. Senior management.
- Sec. 535. General employment within the Climate Resiliency Corps.
- Sec. 536. Project applications.
- Sec. 537. Funding.

1 TITLE I—INVESTMENT IN CLEAN

2 ENERGY TECHNOLOGY INNO3 VATION

4 SEC. 100. PURPOSE.

5 The purpose of this title is to facilitate innovation in

6 a wide range of zero-emission electricity technologies.

	#
1	Subtitle A—Clean Energy
2	Deployment Administration
3	SEC. 101. DEFINITIONS.
4	In this subtitle:
5	(1) Administration.—The term "Administra-
6	tion" means the Clean Energy Deployment Adminis-
7	tration established by section 103.
8	(2) Administrator.—The term "Adminis-
9	trator" means the Administrator of the Administra-
10	tion.
11	(3) ADVISORY COUNCIL.—The term "Advisory
12	Council" means the Energy Technology Advisory
13	Council of the Administration.
14	(4) Breakthrough technology.—The term
15	"breakthrough technology" means a clean energy
16	technology that—
17	(A) presents a significant opportunity to
18	advance the goals developed by the Secretary
19	under section 102, as assessed under the meth-
20	odology established by the Advisory Council;
21	and
22	(B) has not been determined by the Sec-
23	retary to be commercially ready.
24	(5) CLEAN ENERGY TECHNOLOGY.—The term
25	"clean energy technology" means a technology re-

1	lated to the production, use, transmission, storage,
2	control, or conservation of energy that will con-
3	tribute to the stabilization of the climate by reducing
4	greenhouse gas emissions or sequestering or utilizing
5	carbon dioxide and—
6	(A) reduce the need for additional energy
7	supplies by using existing energy supplies with
8	greater efficiency;
9	(B) transmit, distribute, or transport en-
10	ergy with greater effectiveness through the in-
11	frastructure of the United States; or
12	(C) increase and diversify the sources of
13	energy in the United States in a way that will
14	reduce risk to human health, safety, and wel-
15	fare and the environment and create energy se-
16	curity.
17	(6) COST.—The term "cost" has the meaning
18	given the term in section 502 of the Federal Credit
19	Reform Act of 1990 (2 U.S.C. 661a).
20	(7) DIRECT LOAN.—The term "direct loan" has
21	the meaning given the term in section 502 of the
22	Federal Credit Reform Act of 1990 (2 U.S.C. 661a).
23	(8) ENERGY TRANSITION COMMUNITY.—The
24	term "energy transition community" has the mean-
25	ing given such term in section 500 of this Act.

1	(9) FINANCIAL INSTITUTION.—The term "fi-
2	nancial institution" means—
3	(A) an insured bank (as defined in section
4	3(h) of the Federal Deposit Insurance Act (12)
5	U.S.C. 1813(h)));
6	(B) a commercial bank or trust company;
7	(C) a private banker;
8	(D) an agency or branch of a foreign bank
9	in the United States;
10	(E) any credit union;
11	(F) a thrift institution;
12	(G) a broker or dealer registered with the
13	Securities and Exchange Commission under the
14	Securities Exchange Act of 1934 (15 U.S.C.
15	78a et seq.);
16	(H) a broker or dealer in securities or
17	commodities;
18	(I) an investment banker or investment
19	company;
20	(J) an insurance company;
21	(K) a loan or finance company; and
22	(L) a green bank.
23	(10) FUND.—The term "Fund" means the
24	Clean Energy Investment Fund established by sec-
25	tion 105(a).

1	(11) GREEN BANK.—The term "green bank"
2	means a dedicated public or nonprofit specialized fi-
3	nance entity that—
4	(A) is designed to strategically drive pri-
5	vate capital into emerging low- and zero-emis-
6	sion goods and services;
7	(B) uses finance tools to mitigate climate
8	change;
9	(C) does not take deposits;
10	(D) is funded by government, public, pri-
11	vate, or charitable contributions; and
12	(E) invests alone or in conjunction with
13	other investors.
14	(12) LOAN GUARANTEE.—The term "loan guar-
15	antee" has the meaning given the term in section
16	502 of the Federal Credit Reform Act of $1990\ (2$
17	U.S.C. 661a).
18	(13) NATIONAL LABORATORY.—The term "Na-
19	tional Laboratory" has the meaning given the term
20	in section 2 of the Energy Policy Act of 2005 (42)
21	U.S.C. 15801).
22	(14) SECRETARY.—The term "Secretary"
23	means the Secretary of Energy.

1	(15) Security.—The term "security" has the
2	meaning given the term in section 2 of the Securities
3	Act of 1933 (15 U.S.C. 77b).
4	(16) Small Business.—The term "small busi-
5	ness" means a business which is independently
6	owned and operated and which is not dominant in
7	its field of operation. The term "small business"
8	may be further defined by the Administrator by the
9	number of employees, dollar volume of business, net
10	worth, net income, or other factors.
11	(17) STATE.—The term "State" means—
12	(A) a State;
13	(B) the District of Columbia;
14	(C) the Commonwealth of Puerto Rico;
15	and
16	(D) any other territory or possession of the
17	United States.
18	SEC. 102. ENERGY TECHNOLOGY DEPLOYMENT GOALS.
19	(a) GOALS.—Not later than 1 year after the date of
20	enactment of this Act, the Secretary, in consultation with
21	the Advisory Council, shall develop and publish for review
22	and comment in the Federal Register near-, medium-, and

23 long-term goals (including numerical performance targets24 at appropriate intervals to measure progress toward those25 goals) for the deployment of clean energy technologies

through the credit support programs established by this
 subtitle to promote—

3 (1) the deployment, by not later than 2050, of
4 electric generating capacity with net-zero greenhouse
5 gas emissions, that is sufficient to reliably meet the
6 projected energy demand of the United States in
7 2050;

8 (2) clean energy technologies in vehicles and 9 fuels that will substantially reduce the reliance of 10 the United States on foreign sources of energy and 11 insulate consumers from the volatility of global en-12 ergy markets;

(3) a domestic commercialization and manufacturing capacity that will establish the United States
as a world leader in clean energy technologies across
multiple sectors;

17 (4) the installation of electricity transmission
18 infrastructure with the capacity to provide the cost19 effective deployment of zero-emission electricity tech20 nologies appropriate to each region of the United
21 States;

(5) the transformation of the building stock of
the United States to net zero energy consumption;
(6) the recovery, use, and prevention of waste
energy;

(7) domestic manufacturing of clean energy technologies on a scale that is sufficient to achieve price parity with conventional energy sources;
(8) domestic production of commodities and materials, including steel, chemicals, polymers, and cement, through the use of clean energy technologies that will establish the United States as a world leader in the environmentally sustainable production of such commodities and materials;
(9) a robust, efficient, and interactive electricity transmission grid that will allow for the incorporation of clean energy technologies, distributed generation, smart grid functions, and demand-response in

(10) a variety of financial products intended to
allow owners and users of residential, retail, commercial, and industrial buildings to make energy efficiency and distributed generation technology investments with reasonable payback periods;

each regional electric grid;

20 (11) technical assistance to States and other
21 political subdivisions that do not have green banks
22 to establish independent, nonprofit green banks in
23 such States and political subdivisions, including by
24 working with relevant stakeholders in such States
25 and political subdivisions;

1	(12) loan guarantees, credit enhancements, and
2	other financial products to extend the reach and ef-
3	fectiveness of local, State, and regional financing en-
4	tities, including green banks, and particularly to
5	support their ability to finance local projects that—
6	(A) provide jobs;
7	(B) mitigate greenhouse gas emissions;
8	and
9	(C) serve—
10	(i) low-income, minority, and dis-
11	tressed neighborhoods (within the meaning
12	of section 910 of the Housing and Commu-
13	nity Development Act of 1992 (12 U.S.C.
14	2901 note; Public Law 102–550)); or
15	(ii) low-income, minority, and rural
16	consumers (within the meaning of the final
17	rule of the Bureau of Consumer Financial
18	Protection entitled "Ability-to-Repay and
19	Qualified Mortgage Standards Under the
20	Truth in Lending Act (Regulation Z)" (78
21	Fed. Reg. 6408 (January 30, 2013))); and
22	(13) such other goals as the Secretary, in con-
23	sultation with the Advisory Council, determines to be
24	consistent with this subtitle.

(b) REVISIONS.—The Secretary shall revise the goals
 established under subsection (a), from time to time as ap propriate, to account for advances in technology and infra structure.

5 SEC. 103. CLEAN ENERGY DEPLOYMENT ADMINISTRATION. 6 (a) ESTABLISHMENT.—

7 (1) IN GENERAL.—There is established in the
8 Department of Energy an administration, to be
9 known as the Clean Energy Deployment Administra10 tion. There shall be at the head of the Administra11 tion an Administrator and a Board of Directors,
12 who shall be appointed by the President with the ad13 vice and consent of the Senate.

14 (2) Status.—

(A) IN GENERAL.—The Administration
(including officers, employees, and agents of the
(including officers, employees, and agents of the
Administration) shall not be responsible to, or
subject to the authority, direction, or control of,
any other officer, employee, or agent of the Department of Energy other than the Secretary,
acting through the Administrator.

(B) EXEMPTION FROM REORGANIZATION.—The Administration shall be exempt
from the reorganization authority provided

1	under section 643 of the Department of Energy
2	Organization Act (42 U.S.C. 7253).
3	(C) INSPECTOR GENERAL.—Section 12 of
4	the Inspector General Act of 1978 (5 U.S.C.
5	App.) is amended—
6	(i) in paragraph (1), by inserting "the
7	Administrator of the Clean Energy Deploy-
8	ment Administration;" after "Export-Im-
9	port Bank;"; and
10	(ii) in paragraph (2), by inserting
11	"the Clean Energy Deployment Adminis-
12	tration," after "Export-Import Bank,".
13	(3) Offices.—
14	(A) PRINCIPAL OFFICE.—The Administra-
15	tion shall—
16	(i) maintain the principal office of the
17	Administration in the District of Columbia;
18	and
19	(ii) for purposes of venue in civil ac-
20	tions, be considered to be a resident of the
21	District of Columbia.
22	(B) OTHER OFFICES.—The Administration
23	may establish other offices in such other places
24	as the Administration considers necessary or

1	appropriate for the conduct of the business of
2	the Administration.
3	(b) Administrator.—
4	(1) IN GENERAL.—The Administrator shall
5	be—
6	(A) appointed by the President, with the
7	advice and consent of the Senate, for a 5-year
8	term; and
9	(B) compensated at the annual rate of
10	basic pay prescribed for level II of the Execu-
11	tive Schedule under section 5313 of title 5,
12	United States Code.
13	(2) DUTIES.—The Administrator shall—
14	(A) serve as—
15	(i) the Chief Executive Officer of the
16	Administration; and
17	(ii) the Chairman of the Board of Di-
18	rectors;
19	(B) consult with the Secretary of Agri-
20	culture, the Secretary of the Interior, the Ad-
21	ministrator of the Environmental Protection
22	Agency, and the heads of other agencies as ap-
23	propriate, in carrying out the duties described
24	in this paragraph;
25	(C) ensure that—

1	(i) the Administration operates in a
2	safe and sound manner, including mainte-
3	nance of adequate capital and internal con-
4	trols (consistent with section 404 of the
5	Sarbanes-Oxley Act of 2002 (15 U.S.C.
6	7262));
7	(ii) the operations and activities of the
8	Administration foster liquid, efficient, com-
9	petitive, and resilient energy and energy ef-
10	ficiency finance markets;
11	(iii) the Administration carries out
12	this subtitle only through activities that
13	are authorized under and consistent with
14	this subtitle; and
15	(iv) the activities of the Administra-
16	tion and the manner in which the Adminis-
17	tration is operated are consistent with the
18	public interest;
19	(D) develop policies and procedures for the
20	Administration that will—
21	(i) promote a self-sustaining portfolio
22	of investments that will maximize the value
23	of investments to effectively promote clean
24	energy technologies;

(ii) promote transparency and open-1 2 ness in Administration operations; (iii) afford the Administration with 3 4 sufficient flexibility to carry out this subtitle; 5 6 (iv) provide for the efficient processing of applications; 7 8 (v) promote the participation of pri-9 vate and public financial institutions and other sources of private capital in invest-10 11 ments, on commercially reasonable terms, 12 if and to the extent the capital is available; 13 and 14 (vi) promote the availability of finan-15 cial products to small business by working 16 with entities, including green banks, that 17 have appropriate expertise in extending 18 credit or other relevant financial services 19 to small businesses that are developing 20 clean energy technologies; 21 (E) ensure, to the maximum extent prac-22 ticable and to the extent of available resources, 23 that on the request of any energy transition 24 community or Indian Tribe, such energy transi-25 tion community or Indian Tribe shall have

1	available scientific and technical information
2	and expertise for use in the regulation, develop-
3	ment, and management of clean energy tech-
4	nologies, either—
5	(i) directly, acting through Federal of-
6	ficials within the Administration; or
7	(ii) indirectly, by providing financial
8	assistance to an energy transition commu-
9	nity or an Indian Tribe to secure inde-
10	pendent assistance in the regulation, devel-
11	opment, and management of clean energy
12	technologies; and
13	(F) with the concurrence of the Board of
14	Directors, establish expected loss reserves for
15	the support provided by the Administration con-
16	sistent with section 104(a).
17	(c) BOARD OF DIRECTORS.—
18	(1) IN GENERAL.—The Board of Directors of
19	the Administration shall consist of—
20	(A) the Secretary or the designee of the
21	Secretary, who shall serve as an ex officio vot-
22	ing member of the Board of Directors;
23	(B) the Administrator, who shall serve as
24	the Chairman of the Board of Directors; and
25	(C) 7 additional members who shall—

(i) be appointed by the President, 1 2 with the advice and consent of the Senate, 3 for staggered 5-year terms; and 4 (ii) have experience in banking or financial services relevant to the operations 5 6 of the Administration, including individuals 7 with substantial experience in the develop-8 ment of energy projects, the electricity 9 generation sector, the transportation sec-10 tor, the manufacturing sector, the energy 11 efficiency sector, or helping low-income, 12 minority, and distressed neighborhoods 13 (within the meaning of section 910 of the 14 Housing and Community Development Act 15 of 1992 (12 U.S.C. 2901 note; Public Law 16 102–550)) develop and benefit from clean 17 energy technologies. 18 (2) DUTIES.—The Board of Directors shall— 19 (A) oversee the operations of the Adminis-20 tration and ensure industry best practices are

the Administration;

23 (B) consult with the Administrator on the24 general policies and procedures of the Adminis-

followed in all financial transactions involving

18

1	tration to ensure that the interests of the tax-
2	payers are protected;
3	(C) ensure that the portfolio of invest-
4	ments of the Administration are consistent with
5	this subtitle and with the long-term financial
6	stability of the Administration;
7	(D) ensure that the operations and activi-
8	ties of the Administration are consistent with
9	the development of a robust private sector that
10	can provide commercial loans or financing prod-
11	ucts for clean energy technologies; and
12	(E) not serve on a full-time basis, except
13	that the Board of Directors shall meet at least
14	quarterly to review, as appropriate, applications
15	for credit support and set policies and proce-
16	dures as necessary.
17	(3) REMOVAL.—An appointed member of the
18	Board of Directors may be removed from office by
19	the President for good cause.
20	(4) VACANCIES.—An appointed seat on the
21	Board of Directors that becomes vacant shall be
22	filled by appointment by the President, but only for
23	the unexpired portion of the term of the vacating
24	member.

1	(5) Compensation of members.—An ap-
2	pointed member of the Board of Directors shall be
3	compensated at a rate equal to the daily equivalent
4	of the annual rate of basic pay prescribed for level
5	III of the Executive Schedule under section 5314 of
6	title 5, United States Code, for each day (including
7	travel time) during which the member is engaged in
8	the performance of the duties of the Board of Direc-
9	tors.
10	(d) Energy Technology Advisory Council.—
11	(1) IN GENERAL.—The Administration shall
12	have an Energy Technology Advisory Council con-
13	sisting of—
14	(A) 6 members selected by the Secretary;
15	and
16	(B) 3 members selected by the Board of
17	Directors of the Administration.
18	(2) QUALIFICATIONS.—The members of the Ad-
19	visory Council shall—
20	(A) have relevant scientific expertise; and
21	(B) in the case of the members selected by
22	the Secretary under paragraph (1)(A), include
23	representatives of—
24	(i) the academic community;
25	(ii) the private research community;

1	(iii) National Laboratories;
2	(iv) the technology or project develop-
3	ment community;
4	(v) the commercial energy financing
5	and operations sector; and
6	(vi) the electric generation sector, in-
7	cluding at least one person who is knowl-
8	edgeable of the electric cooperative sector.
9	(3) DUTIES.—
10	(A) ADVICE.—The Advisory Council shall
11	provide advice to the Administration regarding
12	the technological approaches that should be
13	supported by the Administration to meet the
14	goals developed by the Secretary under section
15	102.
16	(B) Methodology for assessment.—
17	The Advisory Council shall develop and publish
18	for comment in the Federal Register a method-
19	ology for the assessment of clean energy tech-
20	nologies. Such methodology shall—
21	(i) allow the Administration to evalu-
22	ate projects based on the progress likely to
23	be achieved per-dollar invested in clean en-
24	ergy technology; and

1	(ii) take into account the extent to
2	which support for a clean energy tech-
3	nology is likely to accrue benefits that are
4	attributable to commercial-scale deploy-
5	ment taking place earlier than that which
6	otherwise would have occurred without the
7	support.
8	(4) TERM.—
9	(A) IN GENERAL.—Members of the Advi-
10	sory Council shall have 5-year staggered terms,
11	as determined by the Secretary and the Admin-
12	istrator.
13	(B) REAPPOINTMENT.—A member of the
14	Advisory Council may be reappointed.
15	(5) COMPENSATION.—A member of the Advi-
16	sory Council, who is not otherwise compensated as
17	a Federal employee, shall be compensated at a rate
18	equal to the daily equivalent of the annual rate of
19	basic pay prescribed for level IV of the Executive
20	Schedule under section 5315 of title 5, United
21	States Code, for each day (including travel time)
22	during which the member is engaged in the perform-
23	ance of the duties of the Advisory Council.
24	(e) Staff.—

1	(1) IN GENERAL.—The Administrator, in con-
2	sultation with the Board of Directors, may—
3	(A) appoint and terminate such officers,
4	attorneys, employees, and agents as are nec-
5	essary to carry out this subtitle; and
6	(B) vest those personnel with such powers
7	and duties as the Administrator determines to
8	be necessary.
9	(2) Direct hire authority.—
10	(A) IN GENERAL.—Notwithstanding sec-
11	tion 3304 and sections 3309 through 3318 of
12	title 5, United States Code, the Administrator
13	may, on a determination that there is a severe
14	shortage of candidates or a critical hiring need
15	for particular positions, recruit and directly ap-
16	point highly qualified critical personnel with
17	specialized knowledge important to the function
18	of the Administration into the competitive serv-
19	ice.
20	(B) EXCEPTION.—The authority granted
21	under subparagraph (A) shall not apply to posi-
22	tions in the excepted service or the Senior Exec-
23	utive Service.
24	(C) REQUIREMENTS.—In exercising the
25	authority granted under subparagraph (A), the

Administrator shall ensure that any action
taken by the Administrator—
(i) is consistent with the merit prin-
ciples of section 2301 of title 5, United
States Code; and
(ii) complies with the public notice re-
quirements of section 3327 of title 5,
United States Code.
(D) TERMINATION OF EFFECTIVENESS.—
The authority provided by this paragraph ter-
minates effective on the date that is 3 years
after the date of enactment of this Act.
(3) CRITICAL PAY AUTHORITY.—
(A) IN GENERAL.—Notwithstanding sec-
tion 5377 of title 5, United States Code, and
without regard to the provisions of that title
governing appointments in the competitive serv-
ice or the Senior Executive Service and chap-
ters 51 and 53 of that title (relating to classi-
fication and pay rates), the Administrator may
establish, fix the compensation of, and appoint
individuals to critical positions needed to carry
out the functions of the Administration, if the
Administrator certifies that—

1	(i) the positions require expertise of
2	an extremely high level in a financial, tech-
3	nical, or scientific field;
4	(ii) the Administration would not suc-
5	cessfully accomplish an important mission
6	without such an individual; and
7	(iii) exercise of the authority is nec-
8	essary to recruit an individual who is ex-
9	ceptionally well qualified for the position.
10	(B) LIMITATIONS.—The authority granted
11	under subparagraph (A) shall be subject to the
12	following conditions:
13	(i) The number of critical positions
14	authorized by subparagraph (A) may not
15	exceed 20 at any given time in the Admin-
16	istration.
17	(ii) The term of an appointment
18	under subparagraph (A) may not exceed 4
19	years.
20	(iii) An individual appointed under
21	subparagraph (A) may not have been an
22	Administration employee at any time dur-
23	ing the 2-year period preceding the date of
24	appointment.

1	(iv) Total annual compensation for
2	any individual appointed under subpara-
3	graph (A) may not exceed the highest total
4	annual compensation payable at the rate
5	determined under section 104 of title 3,
6	United States Code.
7	(v) An individual appointed under
8	subparagraph (A) may not be considered
9	to be an employee for purposes of sub-
10	chapter II of chapter 75 of title 5, United
11	States Code.
12	(C) NOTIFICATION.—Each year, the Ad-
13	ministrator shall submit to Congress a notifica-
14	tion that lists each individual appointed under
15	this paragraph.
16	SEC. 104. ADMINISTRATION FUNCTIONS.
17	(a) Direct Support.—
18	(1) IN GENERAL.—The Administration may
19	issue direct loans, letters of credit, loan guarantees,
20	insurance products, or such other credit support (in-
21	cluding through participation as a co-lender or a
22	lending member of a syndication) as the Adminis-
23	trator considers appropriate to deploy clean energy
24	technologies if the Administrator has determined

21
that deployment of the technologies would benefit or
be accelerated by the support.
(2) ELIGIBILITY CRITERIA.—In carrying out
this subsection and awarding credit support to
projects, the Administrator shall account for—
(A) how the technology rates based on an
evaluation methodology established by the Advi-
sory Council;
(B) how the project fits with the goals de-
veloped by the Secretary under section 102; and
(C) the potential for the applicant to suc-
cessfully complete the project.
(3) Risk.—
(A) TECHNOLOGY RISK.—In this para-
graph, the term "technology risk"—
(i) means risk during construction or
operation associated with the design, devel-
opment, or deployment of a clean energy
technology from the perspective of com-
technology from the perspective of com- mercial lenders, that may be increased as
mercial lenders, that may be increased as
mercial lenders, that may be increased as a result of the absence of adequate histor-

1 (ii) includes risk associated with the 2 cost, schedule, performance, reliability, 3 maintenance, and the perception of risk. 4 (B) EXPECTED LOAN LOSS RESERVE.— 5 The Administrator shall establish an expected 6 loan loss reserve to account for estimated losses 7 attributable to activities under this section that 8 is consistent with the purposes of— 9 (i) developing breakthrough tech-10 nologies to the point at which the associ-11 ated technology risk is largely mitigated; 12 (ii) achieving widespread deployment 13 and advancing the commercial viability of 14 clean energy technologies; and 15 (iii) advancing the goals developed by 16 the Secretary under section 102. 17 (C) INITIAL EXPECTED LOAN LOSS RE-18 SERVE.—Until such time as the Administrator 19 determines sufficient data exist to establish an 20 expected loan loss reserve that is appropriate, 21 the Administrator shall consider establishing an 22 initial rate of 10 percent for the portfolio of in-

24(D)PORTFOLIOINVESTMENTAP-25PROACH.—The Administration shall—

vestments under this subtitle.

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	Δg
1	(i) use a portfolio investment ap-
2	proach to mitigate risk and diversify in-
3	vestments across technologies;
4	(ii) to the maximum extent practicable
5	and consistent with long-term self-suffi-
6	ciency, weigh the portfolio of investments
7	in projects to advance goals developed by
8	the Secretary under section 102; and
9	(iii) consistent with the expected loan
10	loss reserve established under this para-
11	graph, provide the maximum practicable
12	percentage of support to promote break-
13	through technologies.
14	(E) Loss rate review.—
15	(i) IN GENERAL.—The Board of Di-
16	rectors shall review on an annual basis the
17	loss rates of the portfolio to determine the
18	adequacy of the reserves.
19	(ii) REPORT.—Not later than 90 days
20	after the date of the initiation of each re-
21	view under clause (i), the Administrator
22	shall submit to the Committee on Energy
23	and Commerce of the House of Represent-
24	atives and the Committee on Energy and
25	Natural Resources of the Senate a report

1	describing the results of the review and
2	any recommended policy changes.
3	(4) Application review.—
4	(A) IN GENERAL.—To the maximum ex-
5	tent practicable and consistent with sound busi-
6	ness practices, the Administration shall seek to
7	consolidate reviews of applications for credit
8	support under this subtitle such that final deci-
9	sions on applications can be issued not later
10	than 180 days after the date of submission of
11	a completed application.
12	(B) Environmental review.—In car-
13	rying out this subtitle, the Administration shall,
14	to the maximum extent practicable—
15	(i) avoid duplicating efforts that have
16	already been undertaken by other agencies,
17	including State agencies acting under Fed-
18	eral programs; and
19	(ii) with the advice of the Council on
20	Environmental Quality and any other ap-
21	plicable agencies, use the administrative
22	records of similar reviews conducted
23	throughout the executive branch to develop
24	the most expeditious review process prac-
25	ticable.

1 (5) WAGE RATE REQUIREMENTS.—With respect 2 to the labor standards specified in this section, the 3 Secretary of Labor shall have the authority and 4 functions set forth in Reorganization Plan Numbered 14 of 1950 (64 Stat. 1267; 5 U.S.C. App.) 5 6 and section 3145 of title 40, United States Code. 7 (b) INDIRECT SUPPORT.— 8 (1) IN GENERAL.—The Administration shall de-9 velop financial products and arrangements to pro-10 mote widespread deployment of, and private sector 11 support of, clean energy technologies by facilitating 12 aggregation of small projects and by providing indi-13 rect credit support, including credit enhancement, to 14 private and public entities, including green banks. 15 (2) FINANCIAL PRODUCTS.—The Administration-16 17 (A) in cooperation with Federal, State, 18 local, and private sector entities, shall develop 19 debt instruments that directly aggregate, or 20 provide for the aggregation of, projects for the 21 deployment of clean energy technology on a 22 scale appropriate for residential or commercial 23 applications; and

24 (B) may insure, purchase, and make com-25 mitments to purchase, any debt instrument as-

1	sociated with the deployment of a clean energy
2	technology (including instruments secured by
3	liens or other collateral related to the funding
4	of clean energy technology) for the purposes of
5	enhancing the availability of private financing
6	for deployment of clean energy technology.
7	(3) DISPOSITION OF DEBT OR INTEREST.—The
8	Administration may acquire, hold, and sell or other-
9	wise dispose of, pursuant to commitments or other-
10	wise, any debt associated with the deployment of
11	clean energy technologies or interest in the debt.
12	(4) Pricing.—
13	(A) IN GENERAL.—The Administrator may
14	establish requirements, and impose charges or
15	fees, which may be regarded as elements of
16	pricing, for different classes of sellers, servicers,
17	or services.
18	(B) CLASSIFICATION OF SELLERS AND
19	SERVICERS.—For the purpose of subparagraph
20	(A), the Administrator may classify sellers and
21	servicers as necessary to promote transparency
22	and liquidity and to properly characterize the
23	risk of default.
24	(5) ELIGIBILITY.—The Administrator shall es-
25	tablish—

1 (A) eligibility criteria for loan originators, 2 sellers, and servicers seeking support for port-3 folios of financial obligations relating to clean 4 energy technologies to ensure the capability of 5 the loan originators, sellers, and servicers to 6 perform the functions required to maintain the 7 expected performance of the portfolios; and 8 (B) such criteria, standards, guidelines, 9 and mechanisms such that, to the maximum ex-10 tent practicable, loan originators and sellers will 11 be able to determine the eligibility of loans for 12 resale at the time of initial lending. 13 (6) Secondary Market Support.— 14 (A) IN GENERAL.—The Administration 15 may lend on the security of, and make commit-16 ments to lend on the security of, any debt that 17 the Administration has issued or is authorized 18 to purchase under this section.

19 (B) AUTHORIZED ACTIONS.—On such
20 terms and conditions as the Administrator may
21 prescribe, the Administration may, based on the
22 debt and with the concurrence of the Board of
23 Directors—

(i) give security or guarantee;

25 (ii) pay interest or other return; and

1	(iii) issue notes, debentures, bonds, or
2	other obligations or securities.
3	(7) LENDING ACTIVITIES.—
4	(A) IN GENERAL.—The Administrator
5	shall determine—
6	(i) the volume of the lending activities
7	of the Administration; and
8	(ii) the types of loan ratios, risk pro-
9	files, interest rates, maturities, and
10	charges or fees in the secondary market
11	operations of the Administration.
12	(B) Objectives.—Determinations under
13	subparagraph (A) shall be consistent with the
14	objectives of—
15	(i) providing an attractive investment
16	environment for clean energy technologies;
17	(ii) making the operations of the Ad-
18	ministration self-supporting over the long
19	term; and
20	(iii) advancing the goals developed by
21	the Secretary under section 102.
22	SEC. 105. IMPROVEMENTS TO EXISTING CLEAN ENERGY IN-
23	VESTMENT PROGRAMS.
24	(a) CLEAN ENERGY INVESTMENT FUND.—

1	(1) ESTABLISHMENT.—There is established in
2	the Treasury of the United States a revolving fund,
3	to be known as the Clean Energy Investment Fund,
4	consisting of—
5	(A) such amounts as are deposited in the
6	Fund under this subtitle and amendments made
7	by this subtitle; and
8	(B) such sums as may be appropriated to
9	the Fund.
10	(2) Expenditures from fund.—
11	(A) IN GENERAL.—Amounts in the Fund
12	shall be available to the Secretary for obligation
13	without fiscal year limitation, to remain avail-
14	able until expended.
15	(B) Administrative expenses.—
16	(i) FEES.—Fees collected by the Sec-
17	retary of the Treasury for expenses related
18	to the administrative needs of the Fund
19	shall be available without limitation to
20	cover applicable expenses.
21	(ii) FUND.—To the extent that ad-
22	ministrative expenses are not reimbursed
23	through fees, an amount not to exceed 1.5
24	percent of the amounts in the Fund as of
25	the beginning of each fiscal year shall be

1	available to pay the administrative ex-
2	penses for the fiscal year necessary to
3	carry out title XVII of the Energy Policy
4	Act of 2005 (42 U.S.C. 16511 et seq.).
5	(3) Transfers of amounts.—
6	(A) IN GENERAL.—The amounts required
7	to be transferred to the Fund under this sub-
8	section shall be transferred at least monthly
9	from the general fund of the Treasury to the
10	Fund on the basis of estimates made by the
11	Secretary of the Treasury.
12	(B) CASH FLOWS.—Cash flows associated
13	with costs of the Fund described in section
14	502(5)(B) of the Federal Credit Reform Act of
15	1990 (2 U.S.C. $661a(5)(B)$) shall be trans-
16	ferred to appropriate credit accounts.
17	(C) Adjustments.—Proper adjustment
18	shall be made in amounts subsequently trans-
19	ferred to the extent prior estimates were in ex-
20	cess of or less than the amounts required to be
21	transferred.
22	(b) Revisions to Loan Guarantee Program Au-
23	THORITY.—
24	(1) DEFINITION OF COMMERCIAL TECH-
25	NOLOGY.—Section 1701(1) of the Energy Policy Act

1	of 2005 (42 U.S.C. 16511(1)) is amended by strik-
2	ing subparagraph (B) and inserting the following:
3	"(B) EXCLUSION.—The term 'commercial
4	technology' does not include a technology solely
5	by the use of the technology in—
6	"(i) a demonstration project funded
7	by the Department; or
8	"(ii) a project for which the Secretary
9	approved a guarantee.".
10	(2) Subrogation.—Section $1702(g)(2)$ of the
11	Energy Policy Act of 2005 (42 U.S.C. $16512(g)(2)$)
12	is amended by striking subparagraphs (B) and (C)
13	and inserting the following:
14	"(B) SUPERIORITY OF RIGHTS.—Except as
15	provided in subparagraph (C), the rights of the
16	Secretary, with respect to any property ac-
17	quired pursuant to a guarantee or related
18	agreements, shall be superior to the rights of
19	any other person with respect to the property.
20	"(C) TERMS AND CONDITIONS.—A guar-
21	antee agreement shall include such detailed
22	terms and conditions as the Secretary deter-
23	mines appropriate to—
24	"(i) protect the interests of the United
25	States in the case of default;

1	"(ii) have available all the patents and
2	technology necessary for any person se-
3	lected, including the Secretary, to complete
4	and operate the project;
5	"(iii) provide for sharing the proceeds
6	received from the sale of project assets
7	with other creditors or control the disposi-
8	tion of project assets if necessary to pro-
9	tect the interests of the United States in
10	the case of default; and
11	"(iv) provide such lien priority in
12	project assets as necessary to protect the
13	interests of the United States in the case
14	of a default.".
14 15	of a default.". SEC. 106. FEDERAL CREDIT AUTHORITY.
15	SEC. 106. FEDERAL CREDIT AUTHORITY.
15 16	SEC. 106. FEDERAL CREDIT AUTHORITY. (a) Transfer of Functions and Authority.—
15 16 17	SEC. 106. FEDERAL CREDIT AUTHORITY. (a) TRANSFER OF FUNCTIONS AND AUTHORITY.— (1) IN GENERAL.—
15 16 17 18	 SEC. 106. FEDERAL CREDIT AUTHORITY. (a) TRANSFER OF FUNCTIONS AND AUTHORITY.— (1) IN GENERAL.— (A) DEADLINE.—Subject to paragraph (2),
15 16 17 18 19	 SEC. 106. FEDERAL CREDIT AUTHORITY. (a) TRANSFER OF FUNCTIONS AND AUTHORITY.— (1) IN GENERAL.— (A) DEADLINE.—Subject to paragraph (2), on a finding by the Secretary and the Adminis-
15 16 17 18 19 20	 SEC. 106. FEDERAL CREDIT AUTHORITY. (a) TRANSFER OF FUNCTIONS AND AUTHORITY.— (1) IN GENERAL.— (A) DEADLINE.—Subject to paragraph (2), on a finding by the Secretary and the Administration is sufficiently
 15 16 17 18 19 20 21 	 SEC. 106. FEDERAL CREDIT AUTHORITY. (a) TRANSFER OF FUNCTIONS AND AUTHORITY.— (1) IN GENERAL.— (A) DEADLINE.—Subject to paragraph (2), on a finding by the Secretary and the Administrator that the Administration is sufficiently ready to assume the functions, and that appli-
 15 16 17 18 19 20 21 22 	 SEC. 106. FEDERAL CREDIT AUTHORITY. (a) TRANSFER OF FUNCTIONS AND AUTHORITY.— (1) IN GENERAL.— (A) DEADLINE.—Subject to paragraph (2), on a finding by the Secretary and the Administrator that the Administration is sufficiently ready to assume the functions, and that applicants to those programs will not be unduly ad-
 15 16 17 18 19 20 21 22 23 	 SEC. 106. FEDERAL CREDIT AUTHORITY. (a) TRANSFER OF FUNCTIONS AND AUTHORITY.— (1) IN GENERAL.— (A) DEADLINE.—Subject to paragraph (2), on a finding by the Secretary and the Administrator that the Administration is sufficiently ready to assume the functions, and that applicants to those programs will not be unduly adversely affected, but in no case later than 18

1	scribed in subparagraph (B) shall be trans-
2	ferred to the Administration.
3	(B) FUNCTIONS AND AUTHORITY.—The
4	functions and authority of the Secretary de-
5	scribed in this subparagraph are functions and
6	authority under—
7	(i) title XVII of the Energy Policy Act
8	of 2005 (42 U.S.C. 16511 et seq.);
9	(ii) section 2602(c) of the Energy Pol-
10	icy Act of 1992 (25 U.S.C. 3502(c)); and
11	(iii) financial services and program
12	management for grant, loan, and other
13	credit enhancement programs authorized
14	to be administered by the Secretary under
15	any other provision of law, as the Sec-
16	retary determines appropriate.
17	(2) FAILURE TO TRANSFER FUNCTIONS.—If the
18	functions and authorities are not transferred to the
19	Administration in accordance with paragraph (1) ,
20	the Secretary and the Administrator shall submit to
21	Congress a report on the reasons for delay and an
22	expected timetable for transfer of the functions and
23	authorities to the Administration not later than 2
24	years after the enactment of this title and every year

1	thereafter until the functions and authorities are
2	transferred to the Administration.
3	(3) Effect on existing rights and obliga-
4	TIONS.—The transfer of functions and authority
5	under this subsection shall not affect the rights and
6	obligations of any party that arise under a prede-
7	cessor program or authority prior to the transfer
8	under this subsection.
9	(4) TRANSFER OF FUND AUTHORITY.—
10	(A) IN GENERAL.—On transfer of func-
11	tions pursuant to paragraph (1), the Adminis-
12	tration shall have all authorities to make use of
13	the Fund reserved for the Secretary before the
14	transfer.
15	(B) Administrative expenses.—Effec-
16	tive beginning on the date of enactment of this
17	Act, the Administrator may make use of up to
18	1.5 percent of the amounts in the Fund as of
19	the beginning of each fiscal year to pay admin-
20	istrative expenses for that fiscal year to carry
21	out this subtitle.
22	(5) USE.—
23	(A) IN GENERAL.—Amounts in the Fund
24	shall be available for discharge of liabilities and
25	all other expenses of the Administration, includ-

1	ing subsequent transfer to the respective credit
2	accounts.
3	(B) LIABILITY.—All activities of the Ad-
4	ministration that could result in a liability for
5	the United States shall be transparently ac-
6	counted for and no obligation or liability may
7	be incurred unless—
8	(i) the appropriate amounts are trans-
9	ferred to credit accounts for activities pur-
10	suant to the Federal Credit Reform Act of
11	1990 (2 U.S.C. 661a); or
12	(ii) sufficient amounts are reserved
13	within the Fund to account for such liabil-
14	ities.
15	(6) INITIAL INVESTMENT.—
16	(A) IN GENERAL.—On transfer of func-
17	tions pursuant to paragraph (1), out of any
18	funds in the Treasury not otherwise appro-
19	priated, the Secretary of the Treasury shall
20	transfer to the Fund to carry out this subtitle
21	\$10,000,000,000, to remain available until ex-
22	pended.
23	(B) RECEIPT AND ACCEPTANCE.—The
24	Fund shall be entitled to receive and shall ac-
25	cept, and shall be used to carry out this sub-

title, the funds transferred to the Fund under
 subparagraph (A), without further appropria tion.

4 (7) AUTHORIZATION OF APPROPRIATIONS.—In
5 addition to funds made available by paragraphs (1)
6 through (6), there are authorized to be appropriated
7 to the Fund such sums as are necessary to carry out
8 this subtitle.

9 (b) PAYMENTS OF LIABILITIES.—Any payment to 10 discharge liabilities arising from agreements under this 11 subtitle shall be made exclusively out of the Fund or the 12 associated credit account, as appropriate.

13 (c) FEES.—

(1) IN GENERAL.—Consistent with carrying out
this subtitle, the Administrator shall charge fees or
collect compensation generally in accordance with
commercial rates.

(2) AVAILABILITY OF FEES.—All fees collected
by the Administration may be retained by the Administration and placed in the Fund and may remain available to the Administration, without further appropriation or fiscal year limitation, for use
in carrying out this subtitle.

24 (3) BREAKTHROUGH TECHNOLOGIES.—The Ad25 ministration shall charge the minimum amount in

fees or compensation practicable for breakthrough
 technologies, consistent with the long-term viability
 of the Administration, unless the Administration
 first determines that a higher charge will not impede
 the development of the technology.

6 (4) ALTERNATIVE FEE ARRANGEMENTS.—The 7 Administration may use such alternative arrange-8 ments (such as profit participation, contingent fees, 9 and other valuable contingent interests) as the Ad-10 ministration considers appropriate to compensate the 11 Administration for the expenses of the Administra-12 tion and the risk inherent in the support of the Ad-13 ministration.

(d) COST TRANSFER AUTHORITY.—Amounts collected by the Administration for the cost of a loan or loan
guarantee shall be transferred by the Administration to
the respective credit program accounts.

(e) SUPPLEMENTAL BORROWING AUTHORITY.—In
order to maintain sufficient liquidity for activities authorized under section 104(b), the Administration may issue
notes, debentures, bonds, or other obligations for purchase
by the Secretary of the Treasury.

23 (f) PUBLIC DEBT TRANSACTIONS.—For the purpose
24 of subsection (e)—

(1) the Secretary of the Treasury may use as
 a public debt transaction the proceeds of the sale of
 any securities issued under chapter 31 of title 31,
 United States Code; and

5 (2) the purposes for which securities may be
6 issued under that chapter are extended to include
7 any purchase under this subsection.

8 (g) MAXIMUM OUTSTANDING HOLDING.—The Sec-9 retary of the Treasury shall purchase instruments issued 10 under subsection (e) to the extent that the purchase would 11 not increase the aggregate principal amount of the out-12 standing holdings of obligations under subsection (e) by 13 the Secretary of the Treasury to an amount that is greater 14 than \$2,000,000,000.

15 (h) RATE OF RETURN.—Each purchase of obligations by the Secretary of the Treasury under this section shall 16 17 be on terms and conditions established to yield a rate of return determined by the Secretary of the Treasury to be 18 19 appropriate, taking into account the current average rate 20 on outstanding marketable obligations of the United 21 States as of the last day of the month preceding the pur-22 chase.

(i) SALE OF OBLIGATIONS.—The Secretary of the
Treasury may at any time sell, on terms and conditions
and at prices determined by the Secretary of the Treasury,

any of the obligations acquired by the Secretary of the
 Treasury under this section.

3 (j) PUBLIC DEBT TRANSACTIONS.—All redemptions,
4 purchases, and sales by the Secretary of the Treasury of
5 obligations under this section shall be treated as public
6 debt transactions of the United States.

7 SEC. 107. GENERAL PROVISIONS.

8 (a) IMMUNITY FROM IMPAIRMENT, LIMITATION, OR9 RESTRICTION.—

10 (1) IN GENERAL.—All rights and remedies of 11 the Administration (including any rights and rem-12 edies of the Administration on, under, or with re-13 spect to any mortgage or any obligation secured by 14 a mortgage) shall be immune from impairment, limi-15 tation, or restriction by or under—

(A) any law (other than a law enacted by
Congress expressly in limitation of this paragraph) that becomes effective after the acquisition by the Administration of the subject or
property on, under, or with respect to which the
right or remedy arises or exists or would so
arise or exist in the absence of the law; or

23 (B) any administrative or other action that24 becomes effective after the acquisition.

1	(2) STATE LAW.—The Administrator may con-
2	duct the business of the Administration without re-
3	gard to any qualification or law of any State relating
4	to incorporation.
5	(b) Use of Other Agencies.—With the consent of
6	a department, establishment, or instrumentality (including
7	any field office), the Administration may—
8	(1) use and act through any department, estab-
9	lishment, or instrumentality; or
10	(2) use, and pay compensation for, information,
11	services, facilities, and personnel of the department,
12	establishment, or instrumentality.
13	(c) PROCUREMENT.—The Administrator shall be the
14	senior procurement officer for the Administration for pur-
15	poses of section 1702 of title 41, United States Code.
16	(d) FINANCIAL MATTERS.—
17	(1) INVESTMENTS.—Funds of the Administra-
18	tion may be invested in such investments as the
19	Board of Directors may prescribe.
20	(2) FISCAL AGENTS.—Any Federal reserve
21	bank or any bank for which, at the time of designa-
22	tion by the Administrator there is outstanding a des-
23	ignation by the Secretary of the Treasury as a gen-
24	eral or other depository of public money, may be
25	designated by the Administrator as a depositary or

custodian or as a fiscal or other agent of the Admin istration.

3 (e) JURISDICTION.—Notwithstanding section 1349 of
4 title 28, United States Code, or any other provision of
5 law—

6 (1) the Administration shall be considered a
7 corporation covered by sections 1345 and 1442 of
8 title 28, United States Code;

9 (2) all civil actions to which the Administration 10 is a party shall be considered to arise under the laws 11 of the United States, and the district courts of the 12 United States shall have original jurisdiction of all 13 such actions, without regard to amount or value, ex-14 cept that the courts of appeals shall have jurisdiction 15 over civil actions pertaining to section 16 103(a)(3); and

17 (3) any civil or other action, case or controversy 18 in a court of a State, or in any court other than a 19 district court of the United States, to which the Ad-20 ministration is a party may at any time before trial 21 be removed by the Administration, without the giv-22 ing of any bond or security and by following any 23 procedure for removal of causes in effect at the time 24 of the removal—

1	(A) to the district court of the United
2	States for the district and division embracing
3	the place in which the same is pending; or
4	(B) if there is no such district court, to the
5	district court of the United States for the dis-
6	trict in which the principal office of the Admin-
7	istration is located.
8	(f) PERIODIC REPORTS.—Not later than 1 year after
9	commencement of operation of the Administration and at
10	least biannually thereafter, the Administrator shall submit
11	to the Committee on Energy and Commerce of the House
12	of Representatives and the Committee on Energy and
13	Natural Resources of the Senate a report that includes
14	a description of—
15	(1) the technologies supported by activities of
16	the Administration; and
17	(2) the performance of the Administration on
18	meeting the goals developed by the Secretary under
19	section 102.
20	(g) Audits by the Comptroller General.—
21	(1) IN GENERAL.—The programs, activities, re-
22	ceipts, expenditures, and financial transactions of
23	the Administration shall be subject to audit by the
24	Comptroller General of the United States under

1	such rules and regulations as may be prescribed by
2	the Comptroller General.
3	(2) Access.—The representatives of the Gov-
4	ernment Accountability Office shall—
5	(A) have access to the personnel and to all
6	books, accounts, documents, records (including
7	electronic records), reports, files, and all other
8	papers, automated data, things, or property be-
9	longing to, under the control of, or in use by
10	the Administration, or any agent, representa-
11	tive, attorney, advisor, or consultant retained by
12	the Administration, and necessary to facilitate
13	the audit;
14	(B) be afforded full facilities for verifying
15	transactions with the balances or securities held
16	by depositories, fiscal agents, and custodians;
17	(C) be authorized to obtain and duplicate
18	any such books, accounts, documents, records,
19	working papers, automated data and files, or
20	other information relevant to the audit without
21	cost to the Comptroller General; and
22	(D) have the right of access of the Comp-
23	troller General to such information under sec-
24	tion 716(c) of title 31, United States Code.
25	(3) Assistance and cost.—

1	(A) IN GENERAL.—For the purpose of con-
2	ducting an audit under this subsection, the
3	Comptroller General may, in the discretion of
4	the Comptroller General, employ by contract,
5	without regard to section 6101 of title 41,
6	United States Code, professional services of
7	firms and organizations of certified public ac-
8	countants for temporary periods or for special
9	purposes.
10	(B) Reimbursement.—
11	(i) IN GENERAL.—On the request of
12	the Comptroller General, the Administra-
13	tion shall reimburse the General Account-
14	ability Office for the full cost of any audit
15	conducted by the Comptroller General
16	under this subsection.
17	(ii) CREDITING.—Such reimburse-
18	ments shall—
19	(I) be credited to the appropria-
20	tion account entitled "Salaries and
21	Expenses, Government Accountability
22	Office" at the time at which the pay-
23	ment is received; and
24	(II) remain available until ex-
25	pended.

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1	(h) ANNUAL INDEPENDENT AUDITS.—
2	(1) IN GENERAL.—The Administrator shall—
3	(A) have an annual independent audit
4	made of the financial statements of the Admin-
5	istration by an independent public accountant
6	in accordance with generally accepted auditing
7	standards; and
8	(B) submit to the Secretary the results of
9	the audit.
10	(2) CONTENT.—In conducting an audit under
11	this subsection, the independent public accountant
12	shall determine and report on whether the financial
13	statements of the Administration—
14	(A) are presented fairly in accordance with
15	generally accepted accounting principles; and
16	(B) comply with any disclosure require-
17	ments imposed under this subtitle.
18	(i) FINANCIAL REPORTS.—
19	(1) IN GENERAL.—The Administrator shall
20	submit to the Secretary annual and quarterly re-
21	ports of the financial condition and operations of the
22	Administration, which shall be in such form, contain
23	such information, and be submitted on such dates as
24	the Secretary shall require.

1	(2) Contents of Annual Reports.—Each
2	annual report shall include—
3	(A) financial statements prepared in ac-
4	cordance with generally accepted accounting
5	principles;
6	(B) any supplemental information or alter-
7	native presentation that the Secretary may re-
8	quire; and
9	(C) an assessment (as of the end of the
10	most recent fiscal year of the Administration),
11	signed by the chief executive officer and chief
12	accounting or financial officer of the Adminis-
13	tration, of—
14	(i) the effectiveness of the internal
15	control structure and procedures of the
16	Administration; and
17	(ii) the compliance of the Administra-
18	tion with applicable safety and soundness
19	laws.
20	(3) Special reports.—The Secretary may re-
21	quire the Administrator to submit other reports on
22	the condition (including financial condition), man-
23	agement, activities, or operations of the Administra-
24	tion, as the Secretary considers appropriate.

1	(4) ACCURACY.—Each report of financial condi-
2	tion shall contain a declaration by the Administrator
3	or any other officer designated by the Board of Di-
4	rectors of the Administration to make the declara-
5	tion, that the report is true and correct to the best
6	of the knowledge and belief of the officer.
7	(5) AVAILABILITY OF REPORTS.—Reports re-
8	quired under this section shall be published and
9	made publicly available as soon as is practicable
10	after receipt by the Secretary.
11	(j) Scope and Termination of Authority.—
12	(1) New obligations.—The Administrator
13	shall not initiate any new obligations under this sub-
14	title on or after January 1, 2039.
15	(2) REVERSION TO SECRETARY.—The authori-
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10	ties and obligations of the Administration shall re-
17	ties and obligations of the Administration shall re- vert to the Secretary on January 1, 2039.
17	vert to the Secretary on January 1, 2039.
17 18	vert to the Secretary on January 1, 2039. Subtitle B—Carbon-Free
17 18 19	vert to the Secretary on January 1, 2039. Subtitle B—Carbon-Free Technology Innovation
17 18 19 20	vert to the Secretary on January 1, 2039. Subtitle B—Carbon-Free Technology Innovation SEC. 111. DEMAND EFFICIENCY TECHNOLOGY INNOVATION.
 17 18 19 20 21 	vert to the Secretary on January 1, 2039. Subtitle B—Carbon-Free Technology Innovation SEC. 111. DEMAND EFFICIENCY TECHNOLOGY INNOVATION. (a) REPORT TO CONGRESS.—Not later than 1 year

mittee on Energy and Natural Resources of the Senate
 a report describing—

3 (1) recommendations for improving the mod4 eling, operational, and planning practices used for
5 the bulk electric system in order to better account
6 for the integration of demand efficiency technologies
7 and ensuring increased resiliency, mitigating peak
8 system demand, and avoiding or deferring trans9 mission investments; and

10 (2) an assessment of existing regional and
11 interregional transmission planning and siting proc12 esses and whether such processes are adequate with
13 respect to the deployment of demand efficiency tech14 nologies.

(b) CONSULTATION.—The report under subsection
(a) may be produced in consultation and coordination with
the National Academy of Sciences.

18 (c) DEFINITION.—In this section, the term "demand19 efficiency technologies" includes—

(1) advanced metering infrastructure that
records electricity use at defined intervals, ranging
from hourly to real-time and provides data to electric utilities and customers, and which may include
2-way communications and instantaneous data
transmission;

(2) behind-the-meter smart devices with aggre-2 gation and control capabilities, which may include 3 thermostats, heat pumps, lighting controls, electric 4 vehicle chargers, and other appliances that can be equipped with communications and control capabili-5 6 ties: 7 (3) power flow control and voltage management 8 equipment and methods that allow grid operators to 9 adjust remotely and in real time the amount of elec-10 tricity flowing and manage the voltage on trans-11 mission lines; 12 (4) dynamic line rating technologies and meth-13 ods that can be used to determine the maximum 14 power flow capacity and real-time constraints and 15 conditions on a transmission line; and 16 (5) dynamic transformer rating technologies 17 and methods that allow electric companies and grid 18 operators to understand the real-time operating con-19 ditions of transformers. 20 SEC. 112. SUPER HOT ROCK GEOTHERMAL ENERGY TECH-21 NOLOGY INNOVATION. 22 (a) DEMONSTRATION PROJECTS.—Not later than 1 23 year after the date of enactment of this section, the Sec-24 retary of Energy shall enter into agreements to carry out 1 or more demonstration projects of super hot rock engi-25

neered geothermal energy systems under which water is
 injected into the earth at a depth at which temperatures
 exceed 400 degrees Celsius and water reaches a supercrit ical state.

5 (b) REPORT TO CONGRESS.—Not later than 3 years
6 after the date of enactment of this section, the Secretary
7 of Energy shall submit a report to Congress describing—
8 (1) the demonstration projects described under

9 subsection (a);

10 (2) the result of said demonstration projects;

(3) an assessment of the potential for utiliza-tion of super hot rock geothermal energy; and

(4) a recommendation of next steps to explore
the potential for the utilization of super hot rock
geothermal energy.

16 (c) AUTHORIZATION OF APPROPRIATIONS.—There 17 are authorized to be appropriated to the Secretary of En-18 ergy to carry out this section \$70,000,000 per fiscal year 19 for each of the 5 fiscal years beginning after the date of 20 enactment of this section.

21 SEC. 113. ZERO CARBON FUEL TECHNOLOGY INNOVATION.

(a) CONSORTIA.—The Secretary of Energy shall establish 1 or more consortia to conduct research and development in order to facilitate the large-scale commercial
manufacture of efficient, low-cost, durable devices that use

electricity to split water into hydrogen and oxygen. Activi ties conducted under this section shall focus on materials
 and component integration and manufacturing, and may
 include—

- 5 (1) cell modeling and characterization;
- 6 (2) scale-up and integration studies; and
- 7 (3) membrane studies.

8 (b) REPORT TO CONGRESS.—Not later than 1 year 9 after the date of enactment of this section, the Secretary 10 of Energy shall provide a report to the Committee on En-11 ergy and Commerce of the House of Representatives and 12 the Committee on Energy and Natural Resources of the 13 Senate that shall include—

(1) an inventory of existing pipeline assets in
the United States, including a description of the materials used in and the quality of the pipeline networks;

18 (2) an assessment of the capacity of pipeline
19 networks to transport hydrogen and hydrogen car20 riers;

(3) an assessment of the probability that embrittlement could occur within pipelines of the type
and quality identified under paragraph (1) and an
identification of the methodologies used in order to
conduct such assessments;

1	(4) an assessment of the cost of pipeline inlay
2	with a range of materials to allow for the transpor-
3	tation of hydrogen and hydrogen carriers;
4	(5) an identification of potential high-risk areas
5	within existing infrastructure that deserve special at-
6	tention with respect to safety and reliability; and
7	(6) a safety protocol for assessing pipeline ma-
8	terials and system pressures in existing natural gas
9	pipeline systems to determine their ability to safely
10	distribute blends of natural gas and hydrogen and
11	the potential for pipeline embrittlement, and such a
12	protocol may include guidelines for conducting rou-
13	tine pipeline maintenance and inspection.
14	(c) Authorization of Appropriations.—There
15	are authorized to be appropriated to the Secretary of En-
16	ergy to carry out this section \$10,000,000 per fiscal year
17	for each of the 5 fiscal years beginning after the date of
18	enactment of this section.
19	SEC. 114. ADVANCED NUCLEAR REACTOR INNOVATION.
20	(a) NATIONAL REACTOR INNOVATION CENTER.—
21	(1) Section 958(a) of the Energy Policy Act of
22	2005 (42 U.S.C. 16278(a)) is amended by striking
23	"to be proposed and funded, in whole or in part, by
24	the private sector".

1	(2) Section 958 of the Energy Policy Act of
2	2005 (42 U.S.C. 16278) is amended by adding at
3	the end the following:
4	"(h) Authorization of Appropriations.—There
5	are authorized to be appropriated to the Secretary to carry
6	out this section \$40,000,000 for each of fiscal years 2023
7	through 2027.".
8	(b) Advanced Reactor Demonstration Pro-
9	GRAM.—
10	(1) Section 959A(c) of the Energy Policy Act of
11	2005 (42 U.S.C. 16279a(c)) is amended—
12	(A) in paragraph (9)(C), by striking "and"
13	at the end;
14	(B) in paragraph (10)(F), by striking the
15	period at the end and inserting "; and"; and
16	(C) by adding the following:
17	"(11) carry out not less than four demonstra-
18	tion projects of any given reactor configuration in-
19	volving new or significantly improved equipment,
20	process, or production method.".
21	(2) Section 959A of the Energy Policy Act of
22	2005 (42 U.S.C. $16279a$) is amended by striking
23	subsection (f) and inserting the following:
24	"(f) Authorization of Appropriations.—There
25	are authorized to be appropriated to the Secretary to carry

out the program under this subsection, \$1,500,000,000 1 2 for each of fiscal years 2023 through 2027.". 3 SEC. 115. NATIONAL OFFSHORE WIND ENERGY GOAL. 4 It shall be a goal of the United States to deploy— 5 (1) 12.5 gigawatts of offshore wind energy by 6 January 1, 2025; and 7 (2) 30 gigawatts of offshore wind energy by 8 January 1, 2030. TITLE II—ZERO-EMISSION 9 ELECTRICITY STANDARD 10 11 SEC. 200. PURPOSE. 12 The purpose of this title is to achieve 100 percent net zero-emission electricity between 2035 and 2050, de-13 pending on the availability of technology. 14 Subtitle A—Zero-Emission 15 **Electricity Standard** 16 17 SEC. 201. DEFINITIONS. 18 In this subtitle: 19 ADMINISTRATOR.—The term "Adminis-(1)20 trator" means the Administrator of the Environ-21 mental Protection Agency. 22 (2) AFFILIATE.—The term "affiliate" has the 23 meaning given such term in section 1262 of the En-24 ergy Policy Act of 2005 (42 U.S.C. 16451).

(3) ASSOCIATE COMPANY.—The term "associate
 company" has the meaning given such term in sec tion 1262 of the Energy Policy Act of 2005 (42
 U.S.C. 16451).

5 (4) BEHIND-THE-METER GENERATION SYS-6 TEM.—The term "behind-the-meter generation sys-7 tem" means a system of generation of electric en-8 ergy that operates on the electric consumer side of 9 the applicable utility meter.

10 (5)Beneficial ELECTRIFICATION-RELATED 11 **REDUCTION.**—The term "beneficial electrification-related reduction" means the net reduction of the ag-12 13 gregate greenhouse gas emissions attributable to a 14 retail electricity supplier and an electric consumer as 15 the result of the replacement of a nonelectric energy 16 source used by the electric consumer with electric 17 energy provided by the retail electricity supplier, in-18 cluding for the purpose of transportation, space 19 heating, water heating, or industrial processes.

(6) CARBON DIOXIDE EQUIVALENT.—The term
"carbon dioxide equivalent" means the number of
metric tons of carbon dioxide emissions with the
same global warming potential over a 20-year period
as 1 metric ton of another greenhouse gas, including, in determining such global warming potential—

(A) the effects of climate-carbon feedbacks
for both carbon dioxide and the other green-
house gas, as determined in accordance with
the Fifth Assessment Report of the Intergov-
ernmental Panel on Climate Change; and
(B) for methane, the effect of carbon diox-
ide resulting from methane oxidation in the at-
mosphere.
(7) CARBON INTENSITY.—The term "carbon in-
tensity" means the carbon dioxide equivalent emis-
sions associated with the generation of 1 megawatt-
hour of electric energy, as determined by the Admin-
istrator under section 204.
(8) ELECTRIC CONSUMER.—The term "electric
consumer" has the meaning given such term in sec-
tion 3 of the Public Utility Regulatory Policies Act
of 1978 (16 U.S.C. 2602).
(9) Federal power marketing administra-
TION.—The term 'Federal Power Marketing Admin-
istration" means the Bonneville Power Administra-
tion, the Southeastern Power Administration, the
Southwestern Power Administration, or the Western
Area Power Administration.
(10) GENERATING UNIT.—The term "gener-

1	(A) generates electric energy that is con-
2	sumed in the United States;
3	(B) generates not fewer than 20 megawatt-
4	hours of electric energy per calendar year; and
5	(C)(i) delivers electric energy to the elec-
6	tric grid; or
7	(ii) in the case of a behind-the-meter gen-
8	eration system—
9	(I) delivers electric energy to the elec-
10	tric grid; or
11	(II) generates electric energy that is
12	consumed onsite for a useful purpose other
13	than for generating electric energy.
14	(11) GENERATOR.—The term "generator"
15	means the owner or operator of a generating unit.
16	(12) GREENHOUSE GAS.—The term "green-
17	house gas" includes each of the following:
18	(A) Carbon dioxide.
19	(B) Methane.
20	(C) Nitrous oxide.
21	(D) Sulfur hexafluoride.
22	(E) Any hydrofluorocarbon.
23	(F) Any perfluorocarbon.
24	(G) Nitrogen trifluoride.

1	(H) Any fully fluorinated linear, branched,
2	or cyclic—
3	(i) alkane;
4	(ii) ether;
5	(iii) tertiary amine; or
6	(iv) aminoether.
7	(I) Any perfluoropolyether.
8	(J) Any hydrofluoropolyether.
9	(K) Any other fluorocarbon, except for a
10	fluorocarbon with a vapor pressure of less than
11	1 mm of Hg absolute at 25 degrees Celsius.
12	(13) Qualified combined heat and power
13	SYSTEM.—The term "qualified combined heat and
14	power system" means a system that—
15	(A) uses the same energy source for the si-
16	multaneous or sequential generation of electric
17	energy and thermal energy;
18	(B) produces at least—
19	(i) 20 percent of the useful energy of
20	the system in the form of electric energy;
21	and
22	(ii) 20 percent of the useful energy of
23	the system in the form of useful thermal
24	energy;

1	(C) to the extent that the system uses bio-
2	mass, uses only qualified renewable biomass;
3	and
4	(D) operates with an energy efficiency per-
5	centage, as determined in accordance with sec-
6	tion $48(c)(3)(C)(i)$ of the Internal Revenue
7	Code of 1986, of greater than 60 percent on a
8	year-round basis.
9	(14) Qualified electricity generation.—
10	(A) IN GENERAL.—The term "qualified
11	electricity generation" means the number of
12	megawatt-hours of electric energy that a gener-
13	ator generates using a generating unit and—
14	(i) sells directly or indirectly for use
15	by electric consumers for purposes other
16	than resale; or
17	(ii) that is consumed onsite for a use-
18	ful purpose other than for generating elec-
19	tric energy.
20	(B) Affiliate sales.—For purposes of
21	calculating the quantity of electric energy sold
22	by a retail electricity supplier under this para-
23	graph, the quantity of electric energy sold—
24	(i) by an affiliate of the retail elec-

tricity supplier, or an associate company of

1	the retail electricity supplier, to an electric
2	consumer (other than to a lessee or tenant
3	of the affiliate or associate company) shall
4	be treated as sold by the retail electricity
5	supplier; and
6	(ii) by such retail electricity supplier
7	to an affiliate, lessee, or tenant of the re-
8	tail electricity supplier shall not be consid-
9	ered to be a sale to an electric consumer.
10	(15) Qualified low-carbon fuel.—
11	(A) IN GENERAL.—The term "qualified
12	low-carbon fuel' means a fuel that—
13	(i) is produced through any process
14	that significantly limits or avoids green-
15	house gas emissions; and
16	(ii) does not release greenhouse gas
17	emissions during combustion.
18	(B) INCLUSION.—The term "qualified low-
19	carbon fuel" includes, subject to subparagraph
20	(A)—
21	(i) ammonia; and
22	(ii) hydrogen.
23	(16) Qualified renewable biomass.—
24	(A) IN GENERAL.—The term "qualified re-
25	newable biomass'' means—

1	(i) any crop byproduct, or crop res-
2	idue, harvested from actively managed, or
3	fallow, agricultural nonforested land that
4	was cleared before January 1, 2021, if the
5	harvesting of the byproduct or residue does
6	not lead to a net decline in soil organic
7	matter for the applicable land;
8	(ii) any cellulose, hemicellulose, or
9	lignin that is derived from a woody or
10	nonwoody plant that is planted for "closed-
11	loop biomass", as defined in section
12	45(c)(2) of the Internal Revenue Code of
13	1986, on land that was, as of January 1,
14	2021—
15	(I) actively managed cropland or
16	fallow and nonforested cropland, as
17	defined by the Department of Agri-
18	culture;
19	(II) a brownfield site (as defined
20	in section $101(39)$ of the Comprehen-
21	sive Environmental Response, Com-
22	pensation, and Liability Act of 1980
23	(42 U.S.C. 9601(39))); or
24	(III) an abandoned mine site;

1	(iii) nonhazardous algal or other
2	micro-crop matter;
3	(iv) waste—
4	(I) that is burned in a qualified
5	combined heat and power system; and
6	(II) that is—
7	(aa) a gas that is primarily
8	composed of methane, and that
9	has been generated entirely from
10	the decomposition of organic
11	matter, including sewage, food
12	waste, animal waste, and agricul-
13	tural waste;
14	(bb) nonhazardous land-
15	scape or right-of-way trimmings;
16	(cc) vegetative matter re-
17	moved from an area located not
18	more than 200 yards from a
19	building, residence, or camp-
20	ground for the purpose of pro-
21	tecting structures from wildfire;
22	(dd) any byproduct of a
23	wood mill or paper mill oper-
24	ation, including lignin in spent
25	

25 pulping liquors, that is dem-

1	onstrated to otherwise be burned
2	for energy onsite;
3	(ee) plant material removed
4	for the purposes of invasive or
5	noxious plant species control; or
6	(ff) downed wood from ex-
7	treme weather events; and
8	(v) food waste.
9	(B) LIMIT OF INCLUSION OF INVASIVE
10	SPECIES.—Except as provided in subparagraph
11	(A)(iv)(II)(ee), the term "qualified renewable
12	biomass" does not include any matter that the
13	Secretary of Agriculture, in consultation with
14	other Federal or State departments and agen-
15	cies the Secretary determines appropriate, de-
16	termines is derived from—
17	(i) a plant that is invasive or noxious;
18	or
19	(ii) a species or varieties of plants
20	that are potentially invasive.
21	(C) OVERSIGHT.—The Administrator shall
22	consult with the Chiefs of the United States
23	Forest Service, the Fish and Wildlife Service,
24	and the Natural Resources Conservation Serv-

ice in implementing subparagraphs (A) and
(B).
(D) Emissions.—The term "qualified re-
newable biomass" does not include any biomass
the processing or combustion of which results in
emissions of—
(i) an air pollutant for which air qual-
ity criteria has been issued under section
108 of the Clean Air Act (42 U.S.C.
7408); or

(ii) a hazardous air pollutant (as de-11 12 fined in section 112 of the Clean Air Act (42 U.S.C. 7412(b))). 13

14 (17)QUALIFIED WASTE-TO-ENERGY.—The term "qualified waste-to-energy" means electric en-15 ergy generated— 16

17	(A) from the combustion of—
18	(i) post-recycled municipal solid waste,
19	provided such combustion does not result
20	in emissions of—
21	(I) an air pollutant for which air
22	quality criteria has been issued under
23	section 108 of the Clean Air Act (42)

U.S.C. 7408); or 24

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1	(II) a hazardous air pollutant (as
2	defined in section 112 of the Clean
3	Air Act (42 U.S.C. 7412));
4	(ii) gas produced from the gasification
5	or pyrolization of post-recycled municipal
6	solid waste;
7	(iii) waste described in paragraph
8	(16)(A)(iv)(II);
9	(iv) other animal waste or animal by-
10	products;
11	(v) food waste;
12	(vi) a gas that is primarily composed
13	of methane, and that has been generated
14	entirely from the decomposition of organic
15	matter, including sewage, food waste, ani-
16	mal waste, and agricultural waste; or
17	(vii) if diverted from or separated
18	from other waste out of a municipal waste
19	stream—
20	(I) paper products that are not
21	commonly recyclable;
22	(II) solid-wood yard waste, pal-
23	lets, or crates; or
24	(III) manufacturing and con-
25	struction debris; and

(B) at a facility that the Administrator has certified, within the past 3 years, is in compliance with all applicable Federal and State environmental permits.

5 (18) RETAIL ELECTRICITY SUPPLIER.—The
6 term "retail electricity supplier", as determined for
7 each calendar year, means an entity in the United
8 States that sold not fewer than 20 megawatt-hours
9 of electric energy to electric consumers for purposes
10 other than resale during the preceding calendar
11 year.

(19) SALE.—The term "sale", when used with
respect to electric energy, has the meaning given
such term in section 3(13) of the Public Utility Regulatory Policies Act of 1978 (16 U.S.C. 2602(13)).

16 (20) STATE.—Except as otherwise provided in
17 this title, the term "State" means a State of the
18 United States and any district, commonwealth, terri19 tory, or possession of the United States.

20 (21) ZERO-EMISSION ELECTRICITY.—The term
21 "zero-emission electricity" means the amount, in
22 megawatt-hours, of electric energy generated by a
23 generating unit that is not associated with the re24 lease of greenhouse gases into the atmosphere, as
25 calculated by multiplying—

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1	(A) the qualified electricity generation of
2	the generating unit; by
3	(B) the number that equals—
4	(i) 1.0 ; less
5	(ii) the quotient obtained by divid-
6	ing—
7	(I) the carbon intensity of the
8	generating unit; by
9	(II) 0.82.
10	(22) ZERO-EMISSION ELECTRICITY CREDIT.—
11	The term "zero-emission electricity credit" means a
12	credit issued pursuant to section 204.
13	SEC. 202. ZERO-EMISSION ELECTRICITY REQUIREMENT.
14	(a) Zero-Emission Electricity Requirement.—
15	(1) Credit submission requirement.—
16	(A) IN GENERAL.—Except as otherwise
17	provided in this section, effective beginning with
18	calendar year 2023, for each calendar year, not
19	later than June 1 of the following calendar
20	year, each retail electricity supplier shall submit
21	to the Administrator a quantity of zero-emis-
22	sion electricity credits that is equal to—
23	(i) for each of calendar years 2023
24	and 2024, the quantity of zero-emission
25	electricity credits determined under para-

1 graph (3) for the retail electricity supplier 2 for such calendar year; and (ii) for calendar year 2025 and each 3 4 calendar year thereafter, the average of the quantity of zero-emission electricity credits 5 6 determined under paragraph (3) for the re-7 tail electricity supplier for such calendar 8 year and the two prior calendar years. 9 (B) ACCOUNTING FOR UNDERCOMPLIANCE 10 DUE TO ENERGY LOSS.—Notwithstanding sub-11 paragraph (A)(ii), beginning in 2035, and for 12 each calendar year thereafter, if the percentage 13 of national undercompliance due to energy loss 14 is greater than 1 for the calendar year, a retail 15 electricity supplier that has a percentage of in-16 dividual undercompliance due to energy loss 17 that is greater than 1 for the calendar year 18 shall submit to the Administrator a quantity of 19 zero-emission electricity credits that is equal to 20 the number obtained by dividing— (i) the quantity of zero-emission elec-21 22 tricity credits described in subparagraph 23 (A)(ii); by

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(ii) the number that equals 1 minus—

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1(I) the percentage of national2undercompliance due to energy loss3for the calendar year; divided by

(II) 100.

5 (2) VOLUNTARY ASSIGNMENT OF COMPLIANCE 6 OBLIGATION BY PUBLIC POWER UTILITIES AND 7 ELECTRIC COOPERATIVES.—Any retail electricity 8 supplier that is an electric cooperative, a State, or 9 any political subdivision of a State, may elect to 10 enter into an agreement with a political subdivision 11 of a State, an electric cooperative that has an obliga-12 tion to serve such retail electricity supplier, or a gen-13 erator, to assign any reporting or compliance obliga-14 tion under this title to such other political subdivi-15 sion of a State, electric cooperative, or generator. An assignment made under this paragraph shall be es-16 17 tablished through a binding agreement executed 18 among the relevant parties.

19 (3) QUANTITY OF ZERO-EMISSION ELECTRICITY
20 CREDITS.—

21 (A) IN GENERAL.—For each calendar year,
22 the Administrator shall determine a quantity of
23 zero-emission electricity credits for a retail elec24 tricity supplier that is equal to the product ob25 tained by multiplying—

1	(i) the total quantity of electric en-
2	ergy, in megawatt-hours, consumed by
3	electric consumers of the retail electricity
4	supplier during the calendar year, that is
5	provided by the retail electricity supplier or
6	by a behind-the-meter generation system,
7	as reported under subsection (b); by
8	(ii) the minimum percentage of zero-
9	emission electricity for the calendar year.
10	(B) DEDUCTION FOR BENEFICIAL ELEC-
11	TRIFICATION.—
12	(i) DEDUCTION.—To account for ben-
13	eficial electrification, in calculating the
14	total quantity of electric energy consumed
15	by electric consumers of a retail electricity
16	supplier under subparagraph (A)(i), the
17	Administrator shall deduct a quantity, in
18	megawatt-hours, determined in accordance
19	with clause (ii).
20	(ii) DETERMINATION.—The Adminis-
21	trator shall make a determination of the
22	quantity of electric energy, in megawatt-
23	hours, associated with beneficial electrifica-
24	tion-related reductions for a retail elec-
25	tricity supplier for a calendar year. Such

- determination shall be made on the basis of— (I) the carbon intensity of the electric energy sold by the retail electricity supplier that results in such beneficial electrification-related reductions; and (II) the greenhouse gas emissions of nonelectric energy sources that were replaced with electric energy provided by the retail electricity supplier
- vided by the retail electricity supplier
 which results in such beneficial electrification-related reductions.
- 14 (iii) PHASE-OUT OF DEDUCTION.—In
 15 determining the quantity of electric energy
 16 to deduct under clause (ii), the Adminis17 trator shall ensure that the deduction is re18 duced to zero at the same rate that the
 19 minimum percentage of zero-emission elec20 tricity increases to 100 percent.

(C) SYSTEM SUPPORT RESOURCE.—For
any calendar year in which a generating unit
that is owned by a retail electricity supplier has
been designated a System Support Resource by
the Federal Energy Regulatory Commission

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1	and is thereby required, by an Independent Sys-
2	tem Operator or Regional Transmission Organi-
3	zation, or under a State-regulated resource
4	planning process, to remain in operation be-
5	cause retirement of the generating unit would
6	harm the reliability of the electric energy trans-
7	mission system, in calculating the total quantity
8	of electric energy consumed by electric con-
9	sumers of the retail electricity supplier under
10	subparagraph (A)(i), the Administrator shall
11	deduct the quantity of megawatt-hours of elec-
12	tricity generated by such generating unit during
13	such calendar year.
14	(4) AVERAGE CREDIT PRICES.—For each cal-
15	endar year, the Administrator shall—
16	(A) analyze the market for zero-emission
17	electricity credits in order to determine the av-
18	erage annual price of zero-emission electricity
19	credits for the calendar year;
20	(B) determine whether the average annual
21	price of a zero-emission electricity credit deter-
22	mined under subparagraph (A) is less than the
23	breakthrough credit price under paragraph (6)
24	for the calendar year; and

1	(C) publish the determinations made under
2	subparagraphs (A) and (B) by not later than
3	January 31 of the year following the calendar
4	year.
5	(5) DEFINITIONS.—In this subsection:
6	(A) ANNUAL PERCENTAGE INCREASE.—
7	(i) IN GENERAL.—Except as provided
8	in clause (ii), the term "annual percentage
9	increase" means, with respect to a retail
10	electricity supplier, the product obtained by
11	multiplying—
12	(I) the difference between 100
13	percent and the baseline zero-emission
14	electricity percentage; by—
15	(II) $\frac{1}{27}$.
16	(ii) Accelerated annual percent-
17	AGE INCREASE.—Notwithstanding clause
18	(i), beginning with calendar year 2026, if
19	the Administrator determines under para-
20	graph (4) that the average annual price of
21	a zero-emission electricity credit for each
22	of the 3 or more calendar years prior to a
23	calendar year (in this clause referred to as
24	"the applicable calendar year") is less than
25	the breakthrough credit price for the appli-

1	cable calendar year, the term "annual per-
2	centage increase" means, for the 1 cal-
3	endar year that begins 4 years after the
4	end of the applicable calendar year, the
5	percentage that is—
6	(I) twice the percentage described
7	in clause (i) if the period of break-
8	through credit prices is 3 consecutive
9	calendar years;
10	(II) three times the percentage
11	described in clause (i) if the period of
12	breakthrough credit prices is 4 con-
13	secutive calendar years;
14	(III) four times the percentage
15	described in clause (i) if the period of
16	breakthrough credit prices is 5 con-
17	secutive calendar years;
18	(IV) five times the percentage de-
19	scribed in clause (i) if the period of
20	breakthrough credit prices is 6 con-
21	secutive calendar years; and
22	(V) six times the percentage de-
23	scribed in clause (i) if the period of
24	breakthrough credit prices is 7 con-
25	secutive calendar years.

1	(B)	BASELINE	ZERO-EMISSION	ELEC-
2	TRICITY P	PERCENTAGE.		

3 (i) IN GENERAL.—The term "baseline 4 zero-emission electricity percentage" 5 means, with respect to a retail electricity supplier, the average percentage of the 6 7 electric energy consumed by all electric 8 consumers of the retail electricity supplier 9 that is zero-emission electricity during cal-10 endar years 2017, 2018, and 2019.

11 (ii) ELECTION.—For any retail elec-12 tricity supplier served by an Independent 13 System Operator or a Regional Trans-14 mission Organization, or participating in a 15 joint unit commitment and centralized economic dispatch system regulated by the 16 17 Federal Energy Regulatory Commission, 18 the retail electricity supplier may elect to 19 set its baseline zero-emission electricity 20 percentage under clause (i) on the basis of 21 the zero-emission electricity and electric 22 energy consumed by either—

23 (I) all electric consumers of the
24 retail electricity supplier; or

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1	(II) all electric consumers served
2	by the Independent System Operator,
3	Regional Transmission Organization,
4	or the applicable joint unit commit-
5	ment and centralized economic dis-
6	patch system that serves the retail
7	electricity supplier.
8	(iii) NOTIFICATION OF ELECTION.—A
9	retail electricity supplier shall inform the
10	Administrator of its election under clause
11	(ii) not later than 180 days after the date
12	of enactment of this Act.
13	(C) BREAKTHROUGH CREDIT PRICE.—The
14	term "breakthrough credit price" means, for a
15	calendar year, the price listed in the table under
16	paragraph (6) labeled "breakthrough credit
17	price".
18	(D) MINIMUM PERCENTAGE OF ZERO-
19	EMISSION ELECTRICITY.—The term "minimum
20	percentage of zero-emission electricity" means,
21	with respect to a retail electricity supplier—
22	(i) for each of calendar years 2023
23	and 2024, the baseline zero-emission elec-
24	tricity percentage;

1	(ii) for each of calendar years 2025
2	through 2050, the amount, not to exceed
3	100 percent, obtained by adding—
4	(I) the minimum percentage of
5	zero-emission electricity for the pre-
6	vious calendar year; and
7	(II) the annual percentage in-
8	crease; and
9	(iii) for each calendar year after 2050,
10	100 percent.
11	(E) PERCENTAGE OF INDIVIDUAL UNDER-
12	COMPLIANCE DUE TO ENERGY LOSS.—The term
13	"percentage of individual undercompliance due
14	to energy loss" means, with respect to a cal-
15	endar year, for a retail electricity supplier, the
16	number that is equal to—
17	(i) 100; multiplied by
18	(ii) the number that is equal to—
19	(I) the number that is obtained
20	by dividing—
21	(aa) the number of zero-
22	emission electricity credits that
23	the retail electricity supplier
24	would be required to submit to

1	the Administrator but for para-
2	graph $(1)(B)$; by
3	(bb) the number of mega-
4	watt-hours of electric energy sold
5	by the retail electricity supplier
6	to electric consumers; less
7	(II) the number that is obtained
8	by dividing—
9	(aa) the number of zero-
10	emission electricity credits award-
11	ed by the Administrator to gen-
12	erators for the electric energy
13	that is sold by the retail elec-
14	tricity supplier to electric con-
15	sumers; by
16	(bb) the number of mega-
17	watt-hours of electric energy gen-
18	erated by the generators that is
19	provided to the retail electricity
20	supplier for sale to electric con-
21	sumers.
22	(F) PERCENTAGE OF NATIONAL UNDER-
23	COMPLIANCE DUE TO ENERGY LOSS.—The term
24	"percentage of national undercompliance due to

1	energy loss" means, with respect to a calendar
2	year, the number that is equal to—
3	(i) 100; multiplied by
4	(ii) the number that is equal to—
5	(I) the number that is obtained
6	by dividing—
7	(aa) the total number of
8	zero-emission electricity credits
9	that all retail electricity suppliers
10	would be required to submit but
11	for paragraph (1)(B); by
12	(bb) the total number of
13	megawatt-hours of electric energy
14	sold by retail electricity suppliers
15	to electric consumers; less
16	(II) the number that is obtained
17	by dividing—
18	(aa) the total number of
19	zero-emission electricity credits
20	awarded by the Administrator to
21	all generators; by
22	(bb) the total number of
23	megawatt-hours of electric energy
24	generated by all generators.

1 (G) PERIOD OF BREAKTHROUGH CREDIT 2 PRICES.—The term "period of breakthrough 3 credit prices" means the number of consecutive 4 calendar years for which the average annual 5 price of a zero-emission electricity credit is less than the breakthrough credit price for each 6 such year, as determined by the Administrator 7 under paragraph (4). 8 9 (6)ALTERNATIVE COMPLIANCE PAYMENTS;

10 BREAKTHROUGH CREDIT PRICES.—For a calendar
11 year, amounts of alternative compliance payments
12 and breakthrough credit prices are as follows:

Calendar year	Breakthrough Credit Price	Alternative compliance payment
2023	\$10.75	\$21.50
2024	\$11.50	\$23.00
2025	\$12.25	\$24.50
2026	\$13.00	\$26.00
2027	\$13.75	\$27.50
2028	\$14.50	\$29.00
2029	\$15.25	\$30.50
2030	\$16.00	\$32.00
2031	\$16.75	\$33.50
2032	\$17.50	\$35.00
2033	\$18.25	\$36.50
2034	\$19.00	\$38.00
2035	\$19.75	\$39.50
2036	\$20.50	\$41.00
2037	\$21.25	\$42.50
2038	\$22.00	\$44.00
2039	\$22.75	\$45.50
2040	\$23.50	\$47.00
2041	\$24.25	\$48.50
2042	\$25.00	\$50.00
2043	\$25.75	\$51.50
2044	\$26.50	\$53.00
2045	\$27.25	\$54.50
2046	\$28.00	\$56.00
2047	\$28.75	\$57.50

Calendar year	Breakthrough Credit Price	Alternative compliance payment
2048	\$29.50	\$59.00
2049	\$30.25	\$60.50
2050 and each cal- endar year thereafter	\$31.00	\$62.00.

(b) REPORTING ON BEHIND-THE-METER GENERA TION SYSTEMS.—Effective beginning in calendar year
 2023, each retail electricity supplier serving one or more
 behind-the-meter generation systems may, not later than
 January 1 of each calendar year, submit to the Adminis 6 trator—

7 (1) verification of the carbon intensity of be8 hind-the-meter generation systems connected to the
9 retail electricity supplier; and

(2) the quantity of electric energy generated by
each such behind-the-meter generation system that
is consumed for a useful purpose by electric consumers served by the retail electricity supplier.

14 (c) ALTERNATIVE COMPLIANCE PAYMENTS.—A retail electricity supplier may satisfy the requirements of 15 subsection (a) with respect to a calendar year, in whole 16 17 or in part, by submitting to the Administrator, in lieu of 18 each zero-emission electricity credit that would otherwise be due, an alternative compliance payment equal to the 19 20 amount determined for such calendar year in accordance 21 with the table in subsection (a)(6), adjusted for inflation. •HR 4309 IH

(d) DETERMINATION OF INADEQUATE AVAILABILITY
 2 OF ZERO-EMISSION ELECTRICITY TECHNOLOGY.—

3 (1) PETITION FOR DETERMINATION.—A retail
4 electricity supplier (referred to in this subsection as
5 the "petitioner") may submit to the Administrator a
6 petition for the Administrator to make a determina7 tion of inadequate availability of technology relating
8 to zero-emission electricity with respect to a calendar
9 year.

10 (2) CONDITIONS.—The Administrator shall 11 make an affirmative determination under paragraph 12 (1) (referred to in this title as a "determination of 13 inadequate availability of technology") for a calendar 14 year only if—

15 (A) a petition is submitted to the Adminis16 trator by January 31 of the following calendar
17 year;

(B) the average annual price of zero-emission electricity credits is equal to or greater
than the alternative compliance payment under
subsection (a)(6) for such calendar year;

(C) the Administrator determines the number of megawatt-hours of zero-emission electricity that could have been generated or purchased by the petitioner using technology that

1	was available during the time interval addressed
2	by the petition—
3	(i) at or below the cost per megawatt-
4	hour of the technology used to generate
5	the electricity sold by the petitioner in the
6	previous calendar year; and
7	(ii) while enabling the petitioner to
8	operate its system at an adequate level of
9	reliability; and
10	(D) the number of megawatt-hours deter-
11	mined under subparagraph (C) is less than the
12	number of zero-emission electricity credits the
13	petitioner would be required to submit under
14	subsection (a).
15	(3) CREDIT SUBMISSION.—Notwithstanding
16	subsection $(a)(1)$, if the Administrator makes a de-
17	termination of inadequate availability of technology
18	for a petitioner for a calendar year, as described
19	under this subsection, the petitioner shall not be re-
20	quired to submit for such calendar year more than
21	the number of zero-emission electricity credits equal
22	to the number of megawatt-hours determined under
23	paragraph $(2)(C)$.
24	(4) CARBON MITIGATION AWARDS.—For the

calendar year identified under paragraph (3), if the

1	Administrator makes one or more determinations of
2	inadequate availability of technology under this sub-
3	section, the Administrator shall award under section
4	205(b) an amount of money equal to the sum of—
5	(A) the total amount paid by retail elec-
6	tricity suppliers as alternative compliance pay-
7	ments; and
8	(B) the total amount of the alternative
9	compliance payments that would have been
10	made by the petitioner or petitioners but for the
11	determination of inadequate availability of tech-
12	nology made under paragraph (2).
13	(e) EXEMPTIONS.—
14	(1) RECIPIENTS OF ACCELERATION INVEST-
15	MENT CREDITS.—A qualified zero-emission elec-
16	tricity taxpayer that receives a zero-emission elec-
17	tricity acceleration investment credit for a calendar
18	year under section 45V of the Internal Revenue
19	Code of 1986, as added by section 301 of this Act,
20	shall not be subject to the requirements to submit
21	zero-emission electricity credits under this section
22	for such calendar year and each calendar year there-
23	after.
24	(2) RECIPIENTS OF ACCELERATION GRANTS.—

24 (2) RECIPIENTS OF ACCELERATION GRANTS.—
25 An eligible electricity provider that is awarded a

grant under section 302(a)(1) of this Act for a cal endar year shall not be subject to the requirements
 to submit zero-emission electricity credits under this
 section for such calendar year and each calendar
 year thereafter, as long as the condition described
 under section 302(a)(1)(A) continues to be met.

7 SEC. 203. ZERO-EMISSION ELECTRICITY CREDIT TRADING 8 PROGRAM.

9 (a) ESTABLISHMENT.—Not later than 1 year after 10 the date of enactment of this Act, the Administrator shall 11 establish a zero-emission electricity credit trading program 12 under which—

13 (1) the Administrator shall record, track, auc14 tion, and transfer zero-emission electricity credits;
15 and

(2) a generator to whom such zero-emission
electricity credits are issued may sell or otherwise
transfer those credits, as provided or allowed by applicable contracts, through—

20 (A) any auction established under the zero21 emission electricity credit trading program;

22 (B) direct sales; or

23 (C) other transactional arrangements that
24 sell electric energy or generating capacity either
25 separately or combined with the transfer of

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1	zero-emission electricity credits, including trans-
2	actions that pair zero-emission electricity cred-
3	its with the demand of the retail electricity sup-
4	plier.
5	(b) Administration.—In carrying out the program
6	under this section, the Administrator shall ensure that a
7	zero-emission electricity credit may be—
8	(1) submitted only once under section $202(a)$;
9	and
10	(2) only purchased by, transferred to, or other-
11	wise secured by a retail electricity supplier.
12	(c) Delegation of Market Function.—
13	(1) IN GENERAL.—In carrying out the program
14	under this section, the Administrator may delegate,
15	to one or more appropriate entities—
16	(A) the administration of a transparent
17	national market for the sale or trade of zero-
18	emission electricity credits; and
19	(B) the tracking of dispatch of zero-emis-
20	sion electricity generation.
21	(2) Administration.—In making a delegation
22	under paragraph (1), the Administrator shall ensure
23	that the tracking and reporting of information con-
24	cerning zero-emission electricity generation is trans-

1	parent, verifiable, and independent of any entities
2	subject to an obligation under this title.
3	(d) BANKING OF ZERO-EMISSION ELECTRICITY
4	CREDITS.—A zero-emission electricity credit may be used
5	for compliance with the requirements of section 202 for—
6	(1) the calendar year for which the zero-emis-
7	sion electricity credit is issued (in this subsection re-
8	ferred to as "the applicable calendar year"); and
9	(2)(A) any of the 5 calendar years following the
10	applicable calendar year, if the Administrator deter-
11	mines under section $202(a)(4)$ that the average an-
12	nual price of a zero-emission electricity credit is
13	equal to or less than the breakthrough credit price
14	for each of the 3 calendar years prior to the applica-
15	ble calendar year; or
16	(B) if the Administrator has not made the de-
17	termination under subparagraph (A)—
18	(i) any of the 5 calendar years following
19	the applicable calendar year, if the applicable
20	calendar year is any of calendar years 2023
21	through 2029;
22	(ii) any of the 4 calendar years following
23	the applicable calendar year, if the applicable
24	calendar year is any of calendar years 2030
25	through 2034;

(iii) any of the 3 calendar years following
the applicable calendar year, if the applicable
calendar year is any of calendar years 2035
through 2039; and
(iv) any of the 2 calendar years following
the applicable calendar year, if the applicable
calendar year is 2040 or any calendar year

8 thereafter.

9 SEC. 204. DETERMINATION AND ISSUANCE OF QUANTITY 10 OF ZERO-EMISSION ELECTRICITY CREDITS.

(a) ISSUANCE OF ZERO-EMISSION ELECTRICITY
CREDITS.—The Administrator shall issue to each generator a quantity of zero-emission electricity credits determined in accordance with this section not later than
March 1 of the calendar year after the calendar year for
which the zero-emission electricity credits are issued.

(b) GENERAL RULES ON CREDIT ISSUANCE.—Except
as otherwise provided in this section, the Administrator
shall issue to a generator generating zero-emission electricity during a calendar year a quantity of zero-emission
electricity credits for such generation that is equal to the
amount of zero-emission electricity of the generator for the
calendar year.

24 (c) GENERAL RULES ON DETERMINING CARBON IN25 TENSITY.—The Administrator shall determine the carbon

1	intensity of each generating unit of a generator. Such de-
2	termination shall be made—
3	(1) using data and methods from the Air Emis-
4	sion Measurement Center of the Environmental Pro-
5	tection Agency for emission testing and monitoring,
6	including—
7	(A) continuous emission monitoring sys-
8	tems; and
9	(B) predictive emission monitoring sys-
10	tems; and
11	(2) with respect to a determination of the car-
12	bon intensity of any generating unit using qualified
13	renewable biomass or qualified low-carbon fuel, or
14	generating qualified waste-to-energy, in consultation
15	with—
16	(A) the Secretary of Agriculture; and
17	(B) the Secretary of the Interior.
18	(d) Carbon Intensity for Certain Categories
19	of Generating Units.—
20	(1) GENERATING UNITS UTILIZING TECH-
21	NOLOGIES WITHOUT DIRECT EMISSIONS.—The Ad-
22	ministrator shall assign a carbon intensity of zero
23	for any generating unit of a generator that does not
24	produce direct emissions of any greenhouse gas in
25	generating electric energy, including any generating

1	unit that generates electric energy only through the
2	use of solar, wind, ocean, current, wave, tidal, geo-
3	thermal, nuclear energy, or hydropower technology,
4	except as provided under paragraphs (2) and (3) .
5	(2) GENERATING UNITS UTILIZING TECH-
6	NOLOGIES UTILIZING FOSSIL FUELS.—
7	(A) ACCOUNTING FOR UPSTREAM GREEN-
8	HOUSE GAS EMISSIONS.—In determining the
9	carbon intensity of each generating unit using
10	coal, natural gas, or oil, the Administrator shall
11	account for—
12	(i) the direct emissions of any green-
13	house gas of the generating unit, which
14	shall not include the qualified carbon oxide
15	that is captured and safely and perma-
16	nently stored or utilized; and
17	(ii)(I) the average amounts of carbon
18	dioxide and methane emissions, in terms of
19	carbon dioxide equivalent, that occur dur-
20	ing extraction, flaring, processing, trans-
21	mission, and transportation of coal, nat-
22	ural gas, or oil that is utilized for the gen-
23	eration of electricity in the United States;
24	OF

1	(II) with respect to a generator that
2	the Administrator determines under sub-
3	paragraph (B) has demonstrated that the
4	coal, natural gas, or oil consumed by such
5	generator is associated with the release of
6	smaller amounts of carbon dioxide and
7	methane emissions than the amounts de-
8	scribed in subclause (I), such smaller
9	amounts.
10	(B) DETERMINATION.—
11	(i) BEST AVAILABLE SCIENCE.—In
12	making a determination under this para-
13	graph, the Administrator shall utilize the
14	best available science, including with re-
15	spect to the measurement of low-frequency
16	high-emission events, including by using
17	data from the detection of natural gas flar-
18	ing from the satellite observations of the
19	National Oceanic and Atmospheric Admin-
20	istration.
21	(ii) Accounting for upstream
22	METHANE WASTE PREVENTION.—The Ad-
23	ministrator may determine that a gener-
24	ator has demonstrated that the fossil fuel
25	consumed by such generator is associated

1	with the release of smaller amounts of car-
2	bon dioxide and methane emissions than
3	the amounts described in subparagraph
4	(A)(ii)(I) if the generator—
5	(I) submits a petition for such
6	determination to the Administrator by
7	January 31 after the calendar year
8	for which such determination is
9	sought;
10	(II) accounts in the petition for
11	low-frequency, high-emission events;
12	and
13	(III) uses in the petition direct
14	measurements of the applicable facili-
15	ties, which may include measurements
16	made in the course of participation in
17	a voluntary program or public disclo-
18	sure of the quantified methane emis-
19	sion intensity of the applicable facili-
20	ties.
21	(iii) Public availability.—The in-
22	formation provided to the Administrator by
23	a generator to make a determination under
24	this subparagraph shall be available to the
25	public upon such determination.

1 (C) DEFINITION.—In this paragraph, the 2 term "qualified carbon oxide" has the meaning given the term in section 45Q of the Internal 3 Revenue Code of 1986. 4 (D) STANDARDS.—The Administrator shall 5 6 promulgate the standards for measurement nec-7 essary to implement this paragraph not later 8 than 2 years after the date of enactment of this 9 Act, and shall update such standards every 5 10 years thereafter, based on the best available 11 science and technology. 12 Hydropower utilizing a new (3)RES-13 ERVOIR.—In determining the carbon intensity of 14 each generating unit using hydropower associated 15 with a reservoir constructed after the date of enact-16 ment of this Act, the Administrator shall account for 17 the greenhouse gas emissions that can be attributed 18 to the hydropower facility, including the applicable 19 new reservoir. 20 (e) QUANTITY OF CREDITS ISSUED FOR CERTAIN 21 CATEGORIES OF GENERATING UNITS.— 22 (1) QUALIFIED COMBINED HEAT AND POWER 23 SYSTEMS.—

24 (A) IN GENERAL.—The Administrator
25 shall issue to a generator generating zero-emis-

1	sion electricity during a calendar year using a
2	generating unit that is a qualified combined
3	heat and power system a quantity of zero-emis-
4	sion electricity credits for such generation that
5	is equal to—
6	(i) the number that represents the
7	amount of zero-emission electricity gen-
8	erated by such generating unit during such
9	calendar year; less
10	(ii) the product obtained by multi-
11	plying—
12	(I) the number of megawatt-
13	hours of electric energy generated by
14	the qualified combined heat and power
15	system that are consumed onsite dur-
16	ing such calendar year; by
17	(II) the average of the minimum
18	percentage of zero-emission electricity
19	(as defined in section $202(a)(5)$) for
20	the calendar year for retail electricity
21	suppliers in the region of the gener-
22	ator, as determined by the Adminis-
23	trator.
24	(B) ADDITIONAL CREDITS.—In addition to
25	zero-emission electricity credits issued under

1 subparagraph (A), the Administrator shall issue 2 to a generator described in subparagraph (A) 3 zero-emission electricity credits for greenhouse 4 gas emissions avoided as a result of the use of 5 the applicable qualified combined heat and 6 power system, rather than a separate thermal 7 source, to meet the thermal needs of the gener-8 ator or one or more additional entities.

9 (C) APPLICABILITY.—This paragraph shall
10 not apply with respect to a qualified combined
11 heat and power system using qualified renew12 able biomass.

(2) QUALIFIED RENEWABLE BIOMASS.—The
Administrator shall issue to a generator generating
zero-emission electricity during a calendar year
using qualified renewable biomass a quantity of
zero-emission electricity credits for such generation
that is equal to the product obtained by multiplying—

20 (A) the qualified electricity generation of
21 the generator that was generated using quali22 fied renewable biomass during such calendar
23 year; by

1	(B) the average carbon intensity of the
2	generating units of the generator that use
3	qualified renewable biomass.
4	(3) Qualified Waste-to-energy.—
5	(A) IN GENERAL.—Except as provided in
6	subparagraph (B), the Administrator shall issue
7	to a generator generating zero-emission elec-
8	tricity during a calendar year that is qualified
9	waste-to-energy a quantity of zero-emission
10	electricity credits for such generation that is
11	equal to the product obtained by multiplying—
12	(i) the qualified waste-to-energy of the
13	generator that is qualified electricity gen-
14	eration during such calendar year; by
15	(ii) the average carbon intensity of the
16	generating units of the generator used to
17	generate qualified waste-to-energy.
18	(B) EXCEPTION.—Zero-emission electricity
19	credits for zero-emission electricity that is
20	qualified waste-to-energy generated using quali-
21	fied renewable biomass shall be issued in ac-
22	cordance with paragraph (2) .
23	(4) Qualified low-carbon fuels.—
24	(A) IN GENERAL.—Except as provided in
25	subparagraph (C), the Administrator shall issue

1	to a generator generating zero-emission elec-
2	tricity during a calendar year using qualified
3	low-carbon fuels a quantity of zero-emission
4	electricity credits for such generation that is
5	equal to the product obtained by multiplying—
6	(i) the qualified electricity generation
7	of the generator that was generated using
8	qualified low-carbon fuels during such cal-
9	endar year; by
10	(ii) the average carbon intensity of the
11	generating units of the generator that use
12	qualified low-carbon fuels.
13	(B) ADJUSTMENT FOR PRODUCTION.—In
14	determining the carbon intensity of each gener-
15	ating unit using a qualified low-carbon fuel, the
16	Administrator shall account for the greenhouse
17	gas emissions associated with the production of
18	such qualified low-carbon fuel.
19	(C) NO DOUBLE COUNTING.—The Admin-
20	istrator shall not issue zero-emission electricity
21	credits for electric energy generated using a
22	qualified low-carbon fuel that is generated using
23	electric energy for which a generator is issued
24	a zero-emission electricity credit under this
25	title.

1	(5) DIRECT AIR CAPTURE OF CARBON DIOX-
2	IDE.—The Administrator shall issue to an entity
3	that captures carbon dioxide from the atmosphere,
4	and safely and permanently stores or utilizes such
5	carbon dioxide, 1 zero-emission electricity credit for
6	every 0.82 metric tons of carbon dioxide equivalent
7	that is captured and safely and permanently stored
8	or utilized.
9	(6) Special Rules.—
10	(A) REGULATIONS.—Subject to subpara-
11	graph (B), not later than 1 year after the date
12	of enactment of this Act, for purposes of
13	issuing zero-emission electricity credits under
14	this section, the Administrator shall promulgate
15	regulations establishing—
16	(i) the conditions under which carbon
17	dioxide may be safely and permanently
18	stored;
19	(ii) the methods and processes by
20	which carbon dioxide may be utilized in a
21	manner that ensures the removal of the
22	carbon dioxide safely and permanently
23	from the atmosphere, including utilization
24	in the production of substances, such as
25	plastics and chemicals; and

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1	(iii) requirements to account for the
2	risk that some fraction of the carbon diox-
3	ide intended to be permanently stored or
4	utilized may nevertheless be emitted into
5	the atmosphere.
6	(B) EXISTING REQUIREMENTS.—In pro-
7	mulgating regulations pursuant to this para-
8	graph, the Administrator shall incorporate any
9	existing requirements for the permanent geo-
10	logic storage of carbon dioxide, including any
11	requirements promulgated under section 45Q of
12	the Internal Revenue Code of 1986.
13	(f) MAXIMUM QUANTITY OF CREDITS.—Except as
14	provided under subsection $(e)(1)$, the total quantity of
15	zero-emission electricity credits issued under this section
16	to a generator for a calendar year shall not exceed the
17	number of megawatt-hours of the qualified electricity gen-
18	eration of the generator for the calendar year.
19	(g) NO NEGATIVE CREDITS.—Notwithstanding any
20	other provision of this title, the Administrator shall not
21	issue a negative quantity of zero-emission electricity cred-
22	its to any generator.
23	(h) Facilities Outside the United States.—
24	With respect to electricity generated by a facility or gener-

25 ating unit that is located outside of the United States,

a zero-emission electricity credit may be issued only with
 respect to electricity that is sold for resale in the United
 States.

4 (i) CONTRACTS.—A zero-emission electricity credit
5 issued for electricity that is—

6 (1) sold for resale under a contract in effect on 7 the date of enactment of this title shall be issued to 8 the purchasing retail electricity supplier in propor-9 tion to the zero-emission electricity purchased by 10 such retail electricity supplier under the contract, 11 unless otherwise provided by the contract; and

12 (2) sold for resale under a contract in which a 13 generating unit is not specified, shall be issued to 14 the purchasing retail electricity supplier in propor-15 tion to the ratio of zero-emission electricity genera-16 tion from the generator making such sale for resale. 17 FEDERAL POWER MARKETING ADMINISTRA-(j) 18 TION.—A zero-emission electricity credit issued for electricity that is generated by a Federal Power Marketing 19 20 Administration shall be transferred to the retail electricity 21 supplier that is purchasing the electricity.

(k) RECIPIENTS OF ACCELERATION INVESTMENT
CREDITS.—A qualified zero-emission electricity taxpayer
that receives a zero-emission electricity acceleration investment credit for a calendar year under section 45V of the

Internal Revenue Code of 1986, as added by section 301
 of this Act, shall not be issued any zero-emission elec tricity credits under this section for such calendar year
 or any calendar year thereafter.

5 (1) RECIPIENTS OF ACCELERATION GRANTS.—An eli6 gible electricity provider that receives a grant during a cal7 endar year under section 302(a)(1) of this Act shall not
8 be issued any zero-emission electricity credits under this
9 section for such calendar year or any calendar year there10 after.

11 SEC. 205. CARBON MITIGATION FUND.

12 (a) CARBON MITIGATION FUND.—

(1) CREATION OF FUND.—There is hereby established a trust fund, to be known as the "Carbon
Mitigation Fund", consisting of such amounts as
may be appropriated to such fund as provided in
this section.

18 (2) ADMINISTRATION.—The Carbon Mitigation19 Fund shall be administered by the Administrator.

20 (3) TRANSFERS TO TRUST FUND.—There are
21 hereby appropriated to the Carbon Mitigation Fund
22 each year amounts equal to the sum of the amounts
23 that are—

24 (A) attributable to alternative compliance25 payments made pursuant to section 202;

1	(B) equal to the alternative compliance
2	payments that would have been made by any
3	petitioners under section 202 but for a deter-
4	mination of inadequate availability of tech-
5	nology made by the Administrator under section
6	202(d); and
7	(C) collected as a civil penalty under sec-
8	tion 209.
9	(4) EXPENDITURES.—Amounts in the Carbon
10	Mitigation Fund shall be available without further
11	appropriation or fiscal year limitation to carry out
12	the program under subsection (b).
13	(b) Program.—
14	(1) IN GENERAL.—The Administrator shall
15	carry out a program to award funds to entities to
16	carry out activities in States that avoid emissions of
17	greenhouse gases or remove carbon dioxide from the
18	atmosphere.
19	(2) ACTIVITIES.—Activities for which the Ad-
20	ministrator may award funds under the program
21	carried out pursuant to this subsection include—
22	(A) improvements to the energy efficiency
23	of existing facilities and devices;
24	(B) improvements to the electrical grid;

1	(C) the replacement of natural gas space
2	heaters, natural gas water heaters, and natural
3	gas stoves, with electric appliances;
4	(D) the replacement of fossil fuel-powered
5	vehicles owned by State and local agencies with
6	electric vehicles or other low-carbon fuel vehi-
7	cles;
8	(E) the replacement of fossil fuel-powered
9	ground airport and seaport vehicles with electric
10	vehicles or other low-carbon fuel vehicles;
11	(F) installation of fast charging stations
12	for electric vehicles along highways and other
13	public roads in urban areas and rural areas;
14	(G) beneficial electrification-related reduc-
15	tions not otherwise identified in this paragraph;
16	(H) activities that capture carbon dioxide
17	from the atmosphere and safely and perma-
18	nently store or utilize such carbon dioxide in ac-
19	cordance with section $204(e)(6)$; and
20	(I) any activity that is endorsed by a gen-
21	erator or a retail electricity supplier that results
22	in a net reduction of emissions of greenhouse
23	gases.
24	(3) EXCLUSIONS.—The Administrator may not
25	award funds to an entity under the program carried

1	out pursuant to this subsection for any activity for
2	which the entity—
3	(A) has been issued a zero-emission elec-
4	tricity credit; or
5	(B) received a deduction of megawatt-
6	hours under section 202(a)(3)(B) to account for
7	beneficial electrification-related reductions.
8	(4) CRITERIA.—The Administrator may only
9	award funds under the program carried out pursu-
10	ant to this subsection for an activity for which the
11	Administrator determines that—
12	(A) the amount of carbon dioxide emis-
13	sions avoided or removed from the atmosphere
14	by the activity will be adequately confirmed
15	through monitoring, reporting, and verification;
16	(B) the risk that some amount of the car-
17	bon dioxide that is removed from the atmos-
18	phere by the activity may reenter the atmos-
19	phere at a later date is adequately reflected
20	through a discounting of the amount described
21	in paragraph (5)(C)(ii);
22	(C) the risk that some amount of the
23	greenhouse gases, the emission of which is
24	avoided by the activity, may enter the atmos-
25	phere at a later date is adequately reflected

1	through a discounting of the amount described
2	in paragraph (5)(C)(i);
3	(D) the risk that the activity may directly
4	or indirectly increase the release of greenhouse
5	gases from another location has been ade-
6	quately addressed;
7	(E) the activity is not required, or being
8	fully supported financially by, a Federal, State,
9	or local law, program, or activity; and
10	(F) if the activity involves land use, the ac-
11	tivity—
12	(i) aligns with the Sustainable Devel-
13	opment Goals of the United Nations, in-
14	cluding being consistent with the conserva-
15	tion of biological diversity and natural eco-
16	systems (including forests and grasslands);
17	and
18	(ii) maintains ecosystem services and
19	other social and environmental benefits.
20	(5) Proposals.—In order to qualify for an
21	award of funds under this subsection, an entity shall
22	submit to the Administrator a proposal that—
23	(A) describes the activity to be carried out
24	with the award of funds;

1	(B) identifies the amount of money for
2	which the entity is applying;
3	(C) identifies the amount, to be measured
4	in one-year increments, of—
5	(i) greenhouse gas emissions to be
6	avoided by the activity, measured in terms
7	of carbon dioxide equivalent; and
8	(ii) carbon dioxide to be removed from
9	the atmosphere by the activity, measured
10	in metric tons;
11	(D) identifies the bid amount, expressed as
12	dollars per metric ton, which shall be the
13	quotient obtained by dividing the amount iden-
14	tified under subparagraph (B) by the total
15	amount identified under subparagraph (C);
16	(E) provides any information required by
17	the Administrator in order to make a deter-
18	mination described in paragraph (4); and
19	(F) provides any other certifications the
20	Administrator determines appropriate.
21	(6) Deadlines.—
22	(A) PROMULGATION.—Not later than Jan-
23	uary 1, 2024, the Administrator shall promul-
24	gate regulations to implement this section, in-

1	cluding specifying the information required to
2	be included in proposals under paragraph (5).
3	(B) SOLICITATION.—Not later than Feb-
4	ruary 1, 2024, and each February 1 thereafter,
5	the Administrator shall solicit proposals for ac-
6	tivities described in paragraph (1) for which the
7	Administrator may award funds under the pro-
8	gram carried out pursuant to this subsection.
9	(C) IDENTIFICATION.—Not later than
10	June 1, 2024, and each June 1 thereafter, the
11	Administrator shall identify proposals that have
12	been submitted by March 1 of such calendar
13	year for activities described in paragraph (1)
14	that qualify for an award of funds under the
15	program carried out pursuant to this sub-
16	section.
17	(D) AWARD OF FUNDS.—Not later than
18	August 1, 2024, and each August 1 thereafter,
19	the Administrator shall award to entities funds
20	available in the Carbon Mitigation Fund estab-
21	lished by subsection (a) for activities described
22	in proposals identified under subparagraph (C).
23	(7) Awards to most cost-effective activi-
24	TIES.—The Administrator shall award funds to enti-

1	ties for activities described in proposals identified
2	under paragraph (6)(C)—
3	(A) beginning by awarding funds to the
4	entity submitting such a proposal with the low-
5	est bid amount identified pursuant to para-
6	graph $(5)(D)$; and
7	(B) then awarding funds to entities se-
8	quentially by entity submitting such a proposal
9	with the next lowest bid amount so identified
10	until all funds are awarded.
11	(c) CONSULTATION.—The Administrator shall con-
12	sult with the Secretary of the Interior and the Secretary
13	of Agriculture in promulgating regulations to measure,
14	monitor, and verify any natural sequestration activities
15	awarded under this section.
16	SEC. 206. STATE PROGRAMS.
17	(a) SAVINGS PROVISION.—
18	(1) IN GENERAL.—Except as provided in para-
19	graph (2) and subject to subsection (b), nothing in
20	this title affects the authority of a State or a polit-
21	ical subdivision of a State to adopt or enforce any
22	law or regulation relating to—
23	(A) clean energy or renewable energy;
24	(B) the regulation of a retail electricity
25	supplier; or

1	(C) greenhouse gas emissions reduction.
2	(2) FEDERAL LAW.—Except as otherwise pro-
3	vided in this section, no law or regulation of a State
4	or a political subdivision of a State may relieve a re-
5	tail electricity supplier from compliance with an ap-
6	plicable requirement of this title.
7	(b) COORDINATION.—The Administrator, in con-
8	sultation with States that have State clean energy pro-
9	grams in effect, shall facilitate, to the maximum extent
10	practicable, coordination between the implementation of
11	this title and the relevant State clean energy program.
12	(c) QUALIFIED STATES.—
13	(1) DETERMINATION.—
14	(A) IN GENERAL.—The Administrator, in
15	consultation with States that have State clean
16	energy programs in effect, shall determine
17	whether each such State is a qualified State.
18	(B) DEADLINES.—The Administrator shall
19	make a determination under subparagraph
20	(A)—
21	(i) not later than January 1, 2022,
22	with respect to a State that has a State
23	clean energy program in effect on the date
24	of enactment of this Act, and every 5 years
25	thereafter; and

1	(ii) not later than 6 months after the
2	date of the enactment by a State, after the
3	date of enactment of this Act, of a new or
4	modified existing State clean energy pro-
5	gram, and every 5 years thereafter.
6	(C) PERIOD.—A determination under this
7	paragraph shall be effective until the earlier
8	of—
9	(i) the date that is 5 years after the
10	date of the determination; or
11	(ii) the date on which the Adminis-
12	trator makes a subsequent determination
13	under this paragraph with respect to the
14	applicable State.
15	(2) COMPLIANCE.—If the Administrator deter-
16	mines, under paragraph (1), that a State is a quali-
17	fied State, a retail electricity supplier that is subject
18	to and in compliance with the State clean energy
19	program of such qualified State shall be deemed to
20	be in compliance with the requirements of this title
21	for the period during which the determination is ef-
22	fective.
23	(3) PROHIBITION AGAINST DOUBLE COUNT-
24	ING.—The Administrator, in consultation with
25	States, shall develop a protocol to ensure that a

zero-emission electricity credit may not be issued
 under this title with respect to an amount of electric
 energy for which one or more State clean energy
 credits are issued under, and used for compliance
 with, a State clean energy program in a qualified
 State.

7 (d) QUALIFIED ELECTRICITY GENERATION ELIGI-8 BLE IN BOTH STATE AND FEDERAL PROGRAMS.—

9 (1) ISSUANCE OF CREDIT.—In a State that is 10 not a qualified State, 1 megawatt-hour of zero-emis-11 sion electricity is eligible to be issued both a State 12 clean energy credit and a zero-emission electricity 13 credit pursuant to this title.

14 (2) RETIREMENT OF STATE CREDITS.—Retire15 ment of a State clean energy credit for compliance
16 with a State law in a State that is not a qualified
17 State shall not prevent a retail electricity supplier
18 from submitting a zero-emission electricity credit
19 issued for the same megawatt-hour of zero-emission
20 electricity for compliance with this title.

(3) SUBMISSION OF FEDERAL CREDITS.—Submission of a zero-emission electricity credit for compliance with this title shall not prevent a retail electricity supplier from retiring a State clean energy
credit issued for the same megawatt-hour of quali-

1	fied electricity generation for compliance with a
2	State law.
3	(e) DEFINITIONS.—In this section:
4	(1) QUALIFIED STATE.—The term "qualified
5	State" means a State—
6	(A) that has a State clean energy program;
7	and
8	(B) in which the retail electricity suppliers
9	in the State, in the aggregate, sell—
10	(i) a quantity of zero-emission elec-
11	tricity that is greater than the quantity of
12	zero-emission electricity represented by the
13	zero-emission electricity credits the retail
14	electricity suppliers, in the aggregate,
15	would otherwise be required to submit
16	under section 202; or
17	(ii) of the total amount of electric en-
18	ergy sold in the State, a percentage of
19	zero-emission electricity that is greater
20	than the average minimum percentage of
21	zero-emission electricity required for all re-
22	tail electricity suppliers under section 202.
23	(2) STATE CLEAN ENERGY CREDIT.—The term
24	"State clean energy credit" means a certificate cor-
25	responding to the electricity generated from renew-

1	able or other zero-emission electricity sources that is
2	issued under a law enacted by a State.
3	(3) STATE CLEAN ENERGY PROGRAM.—The
4	term "State clean energy program" means one or
5	more State requirements, including laws and regula-
6	tions—
7	(A) under which retail electricity suppliers
8	in the State are required to sell—
9	(i) a quantity of zero-emission elec-
10	tricity; or
11	(ii) of the total amount of electric en-
12	ergy sold in the State, a percentage of
13	zero-emission electricity; and
14	(B) for which there are compliance mecha-
15	nisms, including the imposition of penalties,
16	that are at least as effective in enforcing com-
17	pliance with such requirements as the system of
18	enforcement under this title.
19	SEC. 207. REPORT TO CONGRESS.
20	Not later than January 1, 2035, the Administrator
21	shall submit to Congress a report with an evaluation and
22	a forecast of the remaining barriers to achieving genera-
23	tion of electric energy with no emissions of greenhouse
24	gases.

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1 SEC. 208. INFORMATION COLLECTION.

2 The Administrator may require any retail electricity 3 supplier, generator, or other entity that the Administrator 4 determines appropriate, to submit to the Administrator 5 any information the Administrator determines to be ap-6 propriate to carry out this title.

7 SEC. 209. CIVIL PENALTIES.

8 (a) IN GENERAL.—Subject to subsection (b)—

9 (1) a retail electricity supplier that fails to meet 10 the requirements of section 202 shall be subject to 11 a civil penalty in an amount equal to the product ob-12 tained by multiplying—

13 (A) the aggregate quantity of zero-emis14 sion electricity credits that the retail electricity
15 supplier failed to submit for the calendar year
16 to comply with section 202; by

17 (B) 300 percent of the amount of alter18 native compliance payment for the calendar
19 year, as determined under section 202(a)(6);
20 and

(2) an entity required to submit information
pursuant to section 208 that violates such section by
failing to submit the information, or submitting false
or misleading information, shall be subject to a civil
penalty of \$25,000 for each day during which such
violation continues.

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(b) WAIVERS AND MITIGATION.—

1

(1) FORCE MAJEURE.—The Administrator may
mitigate or waive a civil penalty under subsection (a)
if the applicable retail electricity supplier or other
entity was unable to comply with an applicable requirement for reasons outside of the reasonable control of the retail electricity supplier or other entity.
(2) REDUCTION FOR STATE PENALTIES.—The

9 Administrator shall reduce the amount of a penalty
10 determined under subsection (a) by the amount paid
11 by the applicable retail electricity supplier to a State
12 for failure to comply with the requirement of a State
13 renewable energy program, if the Administrator de14 termines that the State requirement is more strin15 gent than the applicable requirement of this title.

16 SEC. 210. REGULATIONS.

17 (a) DEADLINE.—Except as otherwise provided in this
18 title, not later than 2 years after the date of enactment
19 of this title, the Administrator shall promulgate regula20 tions to implement this title.

(b) CONSULTATION.—The Administrator shall consult with the Secretary of Energy in promulgating regulations under this title.

1 Subtitle B—Methane Regulation

2 SEC. 211. METHANE REGULATION.

3 (a) NATIONAL GOAL.—The goal of this section is to 4 reduce steadily the quantity of United States methane 5 emissions from the oil and natural gas sector such that 6 the quantity of methane emissions in calendar year 2030 7 from the oil and natural gas sector is at least 90 percent 8 below the quantity of methane emissions in calendar year 9 2012 from such sector.

10 (b) EXISTING AUTHORITY.—Using existing authority 11 of the Environmental Protection Agency, the Adminis-12 trator shall issue regulations pursuant to section 111 of 13 the Clean Air Act (42 U.S.C. 7411) to control methane 14 emissions from the oil and natural gas sector to achieve 15 the national goal established in subsection (a).

(c) COVERED SOURCES.—The regulations promulgated pursuant to this section shall apply to sources of
methane from every segment of oil and natural gas systems, including oil and natural gas production, processing,
transmission, distribution, and storage.

21 (d) REGULATIONS TO MEET THE NATIONAL 22 GOAL.—

(1) DEADLINE.—Not later than December 31,
2023, the Administrator shall promulgate final regulations under section 111 of the Clean Air Act (42)

1	U.S.C. 7411) to achieve the national goal established
2	in subsection (a).
3	(2) CONTENTS.—The regulations required by
4	paragraph (1) shall provide for the establishment,
5	implementation, and enforcement of standards of
6	performance for new sources and existing sources,
7	and guidelines for States, that include requirements
8	for—
9	(A) new and existing natural gas trans-
10	mission and distribution pipelines to reduce
11	methane emissions by application of the best
12	system of venting and leakage reduction;
13	(B) new sources, and existing sources, with
14	equipment that handles liquefied natural gas to
15	reduce methane emissions from that equipment
16	by application of the best system of emission re-
17	duction; and
18	(C) new and existing offshore petroleum
19	and natural gas production facilities to reduce
20	methane emissions by application of the best
21	system of emission reduction.
22	(e) DEFINITIONS.—In this section:
23	(1) Administrator.—The term "Adminis-
24	trator" means the Administrator of the Environ-
25	mental Protection Agency.

1 (2) EXISTING SOURCE; NEW SOURCE; STAND-2 PERFORMANCE.—The terms "existing OF ARD 3 source", "new source", and "standard of performance", have the meaning given such terms in section 4 5 111(a) of the Clean Air Act (42 U.S.C. 7411(a)). TITLE III—INCENTIVES FOR THE 6 ACCELERATED DEPLOYMENT 7 **ZERO-EMISSION** OF **ELEC-**8

9 **TRICITY**

10 SEC. 300. PURPOSE.

11 The purpose of this title is to provide support for any 12 given power company to accelerate the deployment of an 13 80-percent zero-emission electricity generation system as 14 early as possible before 2030 and a 100-percent zero-emis-15 sion electricity generation system as early as possible be-16 fore 2035.

- 17 Subtitle A—Incentives for the Ac-
- 18 celerated Deployment of 80-Per-
- 19 cent and 100-Percent Zero-Emis-
- 20 sion Electricity Systems

21 SEC. 301. ZERO-EMISSION ELECTRICITY ACCELERATION IN-

- 22 **VESTMENT TAX CREDIT.**
- 23 (a) IN GENERAL.—Subpart E of part IV of sub-24 chapter A of chapter 1 of the Internal Revenue Code of

1 1986 is amended by inserting after section 48C the fol-2 lowing new section:

3 "SEC. 48D. ZERO-EMISSION ELECTRICITY ACCELERATION 4 INVESTMENT CREDIT.

5 "(a) IN GENERAL.—For purposes of section 46, in 6 the case of a taxpayer who is a qualified zero-emission 7 electricity taxpayer, the zero-emission electricity accelera-8 tion investment credit shall be the applicable percentage 9 of the cost of any qualified zero-emission electricity gener-10 ating unit.

11 "(b) APPLICABLE PERCENTAGE.—For purposes of12 this section—

13 "(1) IN GENERAL.—Except as provided in para-14 graph (2), with respect to qualified zero-emission 15 electricity generating units placed in service after 16 the date of the enactment of this section, the appli-17 cable percentage shall be determined under the fol-18 lowing table: "In the case of property The applicable percentage shall placed in service in a taxbe: able year beginning in: Any year before 2026 50%2026 48%2027 46%2028 44%2029 42%2030 40%2031 38%2032 36%34%2033 2034 32%30% 2035 Any year thereafter 0%

1	"(2) Special rule for taxpayers achiev-
2	ING 80-PERCENT ZERO-EMISSION ELECTRICITY BE-
3	FORE 2031.—In the case of a taxpayer who is a
4	qualified zero-emission electricity taxpayer solely by
5	reason of subsection $(c)(3)(B)$, the applicable per-
6	centage shall be—
7	"(A) in the case of property placed in serv-
8	ice in a taxable year beginning before January
9	1, 2031, 7 percentage points less than the ap-
10	plicable percentage otherwise determined with
11	respect to such property for the taxable year
12	under paragraph (1), and
13	"(B) in the case of property placed in serv-
14	ice in any taxable year beginning after Decem-
15	ber 31, 2030, zero.
16	"(c) Definitions.—For purposes of this section—
17	"(1) QUALIFIED ZERO-EMISSION ELECTRICITY
18	GENERATING UNIT.—The term 'qualified zero-emis-
19	sion electricity generating unit' means a generating
20	unit—
21	"(A) that is placed into service after the
22	date of enactment of this section, and
23	"(B) the operation of which does not result
24	in the release of carbon dioxide into the atmos-
25	phere.

1	"(2) GENERATING UNIT.—The term 'generating
2	unit' has the meaning given such term in section
3	201 of the Clean Energy Innovation and Deploy-
4	ment Act of 2021.
5	"(3) Qualified zero-emission electricity
6	TAXPAYER.—
7	"(A) IN GENERAL.—The term 'qualified
8	zero-emission electricity taxpayer' means, for a
9	taxable year, a taxpayer who—
10	"(i) does not own a generating unit
11	that emits carbon dioxide at any point dur-
12	ing such taxable year, and
13	"(ii) for such taxable year, owns non-
14	emitting electricity generating units with a
15	generating capacity that is equal to or
16	greater than the annual average generating
17	capacity of generating units owned by such
18	taxpayer during the 5-year period ending
19	on the date of the enactment of this sec-
20	tion.
21	"(B) Special rule for taxpayers
22	ACHIEVING 80-PERCENT ZERO-EMISSION ELEC-
23	TRICITY.—In the case of a taxpayer not de-
24	scribed in subparagraph (A) who for any tax-
25	able year generates not less than 80 percent of

the electricity sold by such eligible electricity provider using generating units the operation of which does not result in the release of carbon dioxide into the atmosphere (taking into account units placed in service during such taxable year), such taxpayer shall be treated as a qualified zero-emission electricity taxpayer.

"(d) Credit Limited to Replacement of Past 8 9 ELECTRICITY GENERATING CAPACITY.—In the case of a taxpayer whose electricity generation capacity exceeds the 10 11 annual average generating capacity of generating units 12 owned by such taxpayer during the 5-year period ending 13 on the date of the enactment of this section, there shall not be taken into account under subsection (a) the cost 14 15 of any qualified zero-emission electricity generating unit 16 (or a portion thereof) placed in service to the extent, under 17 such rules as the Secretary may by regulation prescribe, 18 such excess generation is allocable to such qualified zero-19 emission electricity generating unit (or a portion thereof).

20 "(e) TRANSFERABILITY.—

21 "(1) IN GENERAL.—If the qualified zero-emis-22 sion electricity taxpayer elects to transfer all (or any 23 portion specified in the election) of the credit deter-24 mined under this section for any taxable year with 25 respect to any qualified zero-emission electricity gen-

1	erating unit to an eligible project partner for a spec-
2	ified period, then, the eligible project partner speci-
3	fied in such election (and not the taxpayer) shall be
4	treated for purposes of this title with respect to such
5	credit (or such portion thereof) as the person pro-
6	ducing and selling the electricity to which such cred-
7	it (or portion thereof) relates.
8	"(2) Deduction for payments in connec-
9	TION WITH TRANSFER.—There shall be allowed as a
10	deduction under part VI of subchapter B an amount
11	equal to the amount paid by a taxpayer as consider-
12	ation for a transfer described in paragraph (1) .
13	"(3) ELIGIBLE PROJECT PARTNER.—
14	"(A) For purposes of this subsection, the
15	term 'eligible project partner' means, with re-
16	spect to any qualified zero-emission electricity
17	generating unit, any person who—
18	"(i) has an ownership interest in such
19	qualified zero-emission electricity gener-
20	ating unit,
21	"(ii) provided equipment for or serv-
22	ices in the construction of such qualified
23	zero-emission electricity generating unit,

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1	"(iii) provides electric transmission or
2	distribution services for such qualified
3	zero-emission electricity generating unit,
4	"(iv) purchases electricity from such
5	qualified zero-emission electricity gener-
6	ating unit pursuant to a contract, or
7	"(v) provides financing for such quali-
8	fied zero-emission electricity generating
9	unit.
10	"(B) For purposes of subparagraph (A)(v),
11	any amount paid as consideration for a transfer
12	described in paragraph (1) shall not be treated
13	as financing of a qualified zero-emission elec-
14	tricity generating unit.
15	"(4) TAXABLE YEAR IN WHICH CREDIT TAKEN
16	INTO ACCOUNT.—In the case of any credit (or por-
17	tion thereof) with respect to which an election is
18	made under paragraph (1), such credit shall be
19	taken into account in the first taxable year of the el-
20	igible project partner ending with, or after, the elect-
21	ing taxpayer's taxable year with respect to which the
22	credit was determined.
23	"(5) Limitations on election.—
24	"(A) TIME FOR ELECTION.—An election
25	under this subsection to transfer any portion of

1	the credit allowed under this section shall be
2	made not later than the due date for the return
3	of tax for the electing taxpayer's taxable year
4	with respect to which the credit was deter-
5	mined.
6	"(B) NO FURTHER TRANSFERS.—No elec-
7	tion may be made under this subsection by a
8	taxpayer with respect to any portion of the
9	credit allowed under this section which has been
10	previously transferred to such taxpayer under
11	this paragraph.
12	"(C) TREATMENT OF TRANSFER UNDER
13	PRIVATE USE RULES.—For purposes of section
14	141(b)(1), any benefit derived by an eligible
15	project partner in connection with an election
16	under this subsection shall not be taken into ac-
17	count as a private business use.
18	"(D) Additional election require-
19	MENTS.—The Secretary may prescribe such
20	regulations as may be appropriate to carry out
21	the purposes of this subsection, including—
22	"(i) rules for determining which per-
23	sons are eligible project partners with re-
24	spect to any energy property, and

"(ii) requiring information to be in cluded in an election under paragraph (1)
 or imposing additional reporting require ments.

5 "(f) TERMINATION.—This section shall apply to tax-6 able years ending before January 1, 2050.".

7 (b) PART OF INVESTMENT CREDIT.—Section 46 of 8 such Code is amended by striking "and" at the end of 9 paragraph (5), by striking the period at the end of para-10 graph (6) and inserting ", and", and by adding at the 11 end the following new paragraph:

12 "(7) the zero-emission electricity acceleration13 investment credit.".

14 (c) DIRECT PAY.—

(1) IN GENERAL.—Section 6431(a) of such
Code, as added by this Act, is amended by striking
"or" at the end of paragraph (2), by redesignating
paragraph (3) as paragraph (4), and by inserting
after paragraph (2) the following new paragraph:

"(3) any portion of a zero-emission electricity
acceleration investment credit which would (without
regard to this section) be determined under section
48D originally placed in service after December 31,
2021,".

1	(2) Conforming Amendment.—Section
2	6431(d) of such Code, as added by this Act, is
3	amended—
4	(A) by striking "section 48 or the" and in-
5	serting "section 48, the", and
6	(B) by inserting after "section 45" the fol-
7	lowing: ", or the zero-emission electricity accel-
8	eration investment credit determined under sec-
9	tion 48D".
10	(d) NORMALIZATION.—The penultimate sentence of
11	section 50(d) is amended by inserting after "the applica-
12	tion of section $48(a)(5)$ is elected" the following: "or any
13	qualified zero-emission electricity generating unit with re-
14	spect to which the zero-emission electricity acceleration in-
15	vestment credit is determined under section 48D".
16	(e) Clerical Amendment.—The table of sections
17	for subpart E of part IV of subchapter A of chapter 1
18	of such Code is amended by inserting after the item relat-
19	ing to section 48C the following new item:
	"Sec. 48D. Zero-emission electricity acceleration investment credit.".
20	(f) EFFECTIVE DATE.—The amendments made by
21	this section shall apply to taxable years beginning after
22	

3 (a) IN GENERAL.—Upon application, the Secretary
4 of Energy shall, subject to the requirements of this section
5 and the availability of appropriations for such purpose,
6 provide a grant in an amount specified under subsection
7 (b) to an eligible electricity provider that, during a cal8 endar year, places into service one or more qualified zero9 emission electricity generating units and either—

10 (1)(A) permanently retires every existing car11 bon-emitting generating unit owned by the eligible
12 electricity provider; and

(B) replaces the generation capacity of the carbon-emitting generating units described in subparagraph (A) with the generation capacity of such
qualified zero-emission electricity generating unit or
units in sufficient amounts to satisfy the condition
specified in subsection (c); or

(2) generates not less than 80 percent of the
electricity sold by such eligible electricity provider
using generating units the operation of which does
not result in the release of carbon dioxide into the
atmosphere.

24 (b) Grant Amount.—

25 (1) IN GENERAL.—The amount of the grant
26 under subsection (a) with respect to any qualified
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1	zero-emission electricity generating unit placed in
2	service during a calendar year shall be the applicable
3	percentage of the cost of such qualified zero-emis-
4	sion electricity generating unit.
5	(2) Applicable percentage.—For purposes
6	of paragraph (1), the term "applicable percentage"
7	means—
8	(A) for grants provided under subsection
9	(a)(1)—
10	(i) 50 percent in the case of a quali-
11	fied zero-emission electricity generating
12	unit that is placed into service between the
13	date of enactment of this Act and Decem-
14	ber 31, 2025;
15	(ii) 48 percent in the case of a quali-
16	fied zero-emission electricity generating
17	unit that is placed into service during cal-
18	endar year 2026;
19	(iii) 46 percent in the case of a quali-
20	fied zero-emission electricity generating
21	unit that is placed into service during cal-
22	endar year 2027;
23	(iv) 44 percent in the case of a quali-
24	fied zero-emission electricity generating

1	unit that is placed into service during cal-
2	endar year 2028;
3	(v) 42 percent in the case of a quali-
4	fied zero-emission electricity generating
5	unit that is placed into service during cal-
6	endar year 2029;
7	(vi) 40 percent in the case of a quali-
8	fied zero-emission electricity generating
9	unit that is placed into service during cal-
10	endar year 2030;
11	(vii) 38 percent in the case of a quali-
12	fied zero-emission electricity generating
13	unit that is placed into service during cal-
14	endar year 2031;
15	(viii) 36 percent in the case of a quali-
16	fied zero-emission electricity generating
17	unit that is placed into service during cal-
18	endar year 2032;
19	(ix) 34 percent in the case of a quali-
20	fied zero-emission electricity generating
21	unit that is placed into service during cal-
22	endar year 2033;
23	(x) 32 percent in the case of a quali-
24	fied zero-emission electricity generating

1	unit that is placed into service during cal-
2	endar year 2034; and
3	(xi) 30 percent in the case of a quali-
4	fied zero-emission electricity generating
5	unit that is placed into service during cal-
6	endar year 2035; and
7	(B) for grants provided under subsection
8	(a)(2)—
9	(i) 43 percent in the case of a quali-
10	fied zero-emission electricity generating
11	unit that is placed into service between the
12	date of enactment of this Act and Decem-
13	ber 31, 2025;
14	(ii) 41 percent in the case of a quali-
15	fied zero-emission electricity generating
16	unit that is placed into service during cal-
17	endar year 2026;
18	(iii) 39 percent in the case of a quali-
19	fied zero-emission electricity generating
20	unit that is placed into service during cal-
21	endar year 2027;
22	(iv) 37 percent in the case of a quali-
23	fied zero-emission electricity generating
24	unit that is placed into service during cal-
25	endar year 2028;

1(v) 35 percent in the case of a quali-2fied zero-emission electricity generating3unit that is placed into service during cal-4endar year 2029; and

5 (vi) 33 percent in the case of a quali6 fied zero-emission electricity generating
7 unit that is placed into service during cal8 endar year 2030.

9 (c) CONDITIONS FOR THE GRANT.—No grant shall 10 be made under this section unless the Secretary of Energy determines that the eligible electricity provider, as of De-11 12 cember 31st of the calendar year the qualified zero-emis-13 sion electricity generating unit for which a grant will be provided is placed in service, owns generating units that 14 15 have an aggregate generation capacity that is not less than the annualized amount of generation capacity that is 16 17 owned by such eligible electricity provider during the 5year period ending on the date of the enactment of this 18 19 section.

(d) APPLICATION OF CERTAIN RULES.—In making
grants under subsection (a)(1), the Secretary of Energy
shall apply rules similar to the rules of section 50 of the
Internal Revenue Code of 1986 (other than subsections
(b)(3) and (b)(4)(A)(i) thereof). In applying such rules,
if an eligible electricity provider acquires a carbon-emit-

1	ting generating unit after a grant is made to the eligible
2	electricity provider, the Secretary shall provide for the re-
3	capture of the appropriate percentage of the grant amount
4	in such manner as the Secretary determines appropriate.
5	(e) DURATION.—Grants may be made—
6	(1) under subsection $(a)(1)$ for qualified zero-
7	emission electricity generating units that are placed
8	into service after the date of enactment of this Act
9	through calendar year 2035; and
10	(2) under subsection $(a)(2)$ for qualified zero-
11	emission electricity generating units that are placed
12	into service after the date of enactment of this Act
13	through calendar year 2030.
14	(f) DEFINITIONS.—For purposes of this section:
15	(1) CARBON-EMITTING GENERATING UNIT.—
16	The term "carbon-emitting generating unit" means
17	a generating unit the operation of which results in
18	the release of carbon dioxide to the atmosphere.
19	(2) ELIGIBLE ELECTRICITY PROVIDER.—The
20	term "eligible electricity provider" means an entity
21	in the United States that—
22	(A) owns one or more generating units;
23	and
24	(B) sells the electricity generated by such
25	generating units.

1	(3) GENERATING UNIT.—The term "generating
2	unit" has the meaning given such term in section
3	201 of the Clean Energy Innovation and Deploy-
4	ment Act of 2021.
5	(4) QUALIFIED ZERO-EMISSION ELECTRICITY
6	GENERATING UNIT.—The term "qualified zero-emis-
7	sion electricity generating unit" means a generating
8	unit—
9	(A) that is placed into service after the
10	date of enactment of this section; and
11	(B) the operation of which does not result
12	in the release of carbon dioxide into the atmos-
13	phere.
	phere. SEC. 303. RECIPIENTS OF CERTAIN CLEAN ENERGY INVEST-
13	
13 14	SEC. 303. RECIPIENTS OF CERTAIN CLEAN ENERGY INVEST-
13 14 15	SEC. 303. RECIPIENTS OF CERTAIN CLEAN ENERGY INVEST- MENT TAX CREDITS.
13 14 15 16	SEC. 303. RECIPIENTS OF CERTAIN CLEAN ENERGY INVEST- MENT TAX CREDITS. Any person who—
13 14 15 16 17	SEC. 303. RECIPIENTS OF CERTAIN CLEAN ENERGY INVEST- MENT TAX CREDITS. Any person who— (1) is allowed a tax credit under section 45V of
 13 14 15 16 17 18 	SEC. 303. RECIPIENTS OF CERTAIN CLEAN ENERGY INVEST- MENT TAX CREDITS. Any person who— (1) is allowed a tax credit under section 45V of the Internal Revenue Code of 1986 for any taxable
 13 14 15 16 17 18 19 	 SEC. 303. RECIPIENTS OF CERTAIN CLEAN ENERGY INVEST- MENT TAX CREDITS. Any person who— (1) is allowed a tax credit under section 45V of the Internal Revenue Code of 1986 for any taxable year shall not be provided a grant under section 302
 13 14 15 16 17 18 19 20 	SEC. 303. RECIPIENTS OF CERTAIN CLEAN ENERGY INVEST- MENT TAX CREDITS. Any person who— (1) is allowed a tax credit under section 45V of the Internal Revenue Code of 1986 for any taxable year shall not be provided a grant under section 302 during any fiscal year; and
 13 14 15 16 17 18 19 20 21 	 SEC. 303. RECIPIENTS OF CERTAIN CLEAN ENERGY INVESTMENT TAX CREDITS. Any person who— (1) is allowed a tax credit under section 45V of the Internal Revenue Code of 1986 for any taxable year shall not be provided a grant under section 302 during any fiscal year; and (2) receives a grant under section 302 during

	111
1	Subtitle B—Carbon-Targeted Zero-
2	Emission Electricity Tax Credit
3	SEC. 311. CARBON-TARGETED ZERO-EMISSION ELEC-
4	TRICITY TAX CREDIT.
5	(a) IN GENERAL.—Subpart D of part IV of sub-
6	chapter A of chapter 1 of the Internal Revenue Code of
7	1986 is amended by adding at the end the following:
8	"SEC. 45U. CARBON-TARGETED ZERO-EMISSION ELEC-
9	TRICITY TAX CREDIT.
10	"(a) Amount of Credit.—
11	"(1) IN GENERAL.—For purposes of section 38,
12	the carbon-targeted zero-emission electricity tax
13	credit for any taxable year is an amount equal to the
14	product of—
15	"(A) 2.4 cents, multiplied by
16	"(B) the kilowatt hours of electricity—
17	"(i) produced by the taxpayer—
18	"(I) from qualified energy re-
19	sources, and
20	"(II) at a qualified facility, and
21	"(ii) sold by the taxpayer to an unre-
22	lated person during the taxable year.
23	"(2) Redevelopment credit.—A qualified
24	facility shall receive an additional 0.5 cents per
25	KWh if such facility is placed in service on a

1	brownfield site (as defined in 42 U.S.C. 9601(39)),
2	landfill, abandoned mine, or reclamation site.
3	"(3) CREDIT GRADIENT FOR CO-BENEFITS.—
4	The Secretary shall develop an additional credit, in
5	consultation with the Secretary of Agriculture and
6	the Director of the Fish and Wildlife Service, for
7	new development or redevelopment projects on de-
8	graded lands that would enhance ecological co-bene-
9	fits including—
10	"(A) biodiversity,
11	"(B) habitat connectivity, and
12	"(C) water quality.
13	"(4) Non-fossil fuel combustion and gas-
14	IFICATION.—In the case of a qualified facility that
15	produces electricity through combustion or gasifi-
16	cation of a non-fossil fuel, the carbon dioxide emis-
17	sions rate for such facility shall be equal to the net
18	rate of carbon dioxide emitted into the atmosphere
19	by such facility (taking into account the amount of
20	lifecycle greenhouse gas emissions), in the produc-
21	tion of electricity, expressed as grams of CO2e per
22	KWh.
23	"(5) Specific requirements.—In the case of

24 biomass-based electricity production, a qualified fa-

cility must meet the required definition of renewable
 biomass.

3 "(6) CARBON CAPTURE AND SEQUESTRATION 4 EQUIPMENT.—For purposes of this subsection, the 5 amount of greenhouse gases emitted into the atmos-6 phere by a qualified facility in the production of 7 electricity shall not include any qualified carbon di-8 oxide or other carbon oxide (as defined in section 9 45Q(c)(1)(B)) that is captured by the taxpayer 10 and—

"(A) disposed of by the taxpayer in secure
geological storage in a manner that satisfies the
measures established by regulation under section 45Q(f)(2), or

15 "(B) utilized by the taxpayer in a manner
16 described in section 45Q(f)(5).

17 "(7) ONLY PRODUCTION IN THE UNITED
18 STATES TAKEN INTO ACCOUNT.—Consumption or
19 sales shall be taken into account under this section
20 only with respect to electricity, the production of
21 which is within the United States or any territory or
22 possession of the United States.

23 "(8) COMBINED HEAT AND POWER SYSTEM
24 PROPERTY.—For purposes of paragraph (1)(C), the
25 kilowatt hours of electricity produced by a taxpayer

1 at a qualified facility shall include any production in 2 the form of useful thermal energy by any combined heat and power system property within such facility. 3 "(9) INFLATION ADJUSTMENT.— 4 5 "(A) IN GENERAL.—In the case of a cal-6 endar year beginning after 2022, the 2.4 cent 7 amount in subsection (b)(1)(A) shall be ad-8 justed by multiplying such amount by the infla-

9 tion adjustment factor for the calendar year in
10 which the sale or use of the electricity occurs.
11 If any amount as increased under the preceding
12 sentence is not a multiple of 0.1 cent, such
13 amount shall be rounded to the nearest multiple
14 of 0.1 cent.

"(B) ANNUAL COMPUTATION.—The Secretary shall, not later than April 1 of each calendar year, determine and publish in the Federal Register the inflation adjustment factor for
such calendar year in accordance with this subsection.

21 "(C) INFLATION ADJUSTMENT FACTOR.—
22 The term 'inflation adjustment factor' means,
23 with respect to a calendar year, a fraction, the
24 numerator of which is the GDP implicit price
25 deflator for the preceding calendar year and the

1 denominator of which is the GDP implicit price 2 deflator for the calendar year 2021. The term 3 'GDP implicit price deflator' means the most 4 recent revision of the implicit price deflator for 5 the gross domestic product as computed and 6 published by the Department of Commerce be-7 fore March 15 of the calendar year. 8 "(b) DEFINITIONS.—For purposes of this section— 9 "(1) CARBON DIOXIDE EMISSION RATE.—For 10 purposes of this section, the term 'carbon dioxide 11 emissions rate' means the amount of carbon dioxide 12 emitted into the atmosphere by a qualified facility in 13 the production of electricity, expressed as grams of 14 CO₂e per KWh. 15 "(2) CO2E PER KWH.—The term 'CO2e per 16 KWh' means, with respect to any greenhouse gas, 17 the equivalent volume of carbon dioxide emitted (as 18 determined based on relative global warming poten-19 tial) per kilowatt hour of electricity produced. "(3) QUALIFIED FACILITY.—The term 'quali-20 21 fied facility' means a facility that is— "(A) used for the generation of electricity, 22 23 and 24 "(B) originally placed in service after De-

cember 31, 2021, and before the United States

1	electricity-generating sector emits a net total of
2	zero carbon dioxide-equivalent emissions, after
3	accounting for carbon dioxide removal strate-
4	gies,
5	"(C) located in a qualifying State, and
6	"(D) certified to produce electricity at a
7	carbon dioxide emission rate below the quali-
8	fying facility emission rate.
9	"(4) Limitations.—
10	"(A) 10-YEAR CREDIT.—For purposes of
11	this section, a facility shall only be treated as
12	a qualified facility during the 10-year period be-
13	ginning on the date the facility was originally
14	placed in service.
15	"(B) EXISTING FACILITIES.—In the case
16	of a facility that was placed in service before
17	January 1, 2022, but is otherwise described in
18	paragraph (3), such facility shall be a qualified
19	facility, but only to the extent of the increased
20	amount of electricity produced at the facility by
21	reason of the following:
22	"(i) a new unit placed in service after
23	December 31, 2021, or

1	"(ii) any efficiency improvements or
2	additions of capacity placed in service after
3	December 31, 2021.
4	"(5) QUALIFIED FACILITY EMISSION RATE.—
5	The qualified facility emission rate is 150 grams of
6	CO2e per KWh.
7	"(6) QUALIFYING STATE.—
8	"(A) IN GENERAL.—The term 'qualifying
9	state' means a state determined by the Sec-
10	retary, in consultation with the Secretary of
11	Energy, to have an above-median marginal car-
12	bon dioxide emission rate for the electricity sec-
13	tor.
14	"(B) PUBLICATION.—The Secretary shall
15	annually publish the list of such States.
16	"(7) Marginal carbon dioxide emission
17	RATE.—The term 'marginal carbon dioxide emission
18	rate' is defined as the short-run marginal emission
19	rate for end-use load, which is the rate of emissions
20	that would be induced by a marginal increase in a
21	region's load at a specific point in time. The value
22	is the emission rate of whichever generator would
23	have served the marginal increase in load, modified
24	by any relevant transmission, distribution, and effi-
25	ciency losses.

1	"(8) Combined heat and power system
2	PROPERTY.—For purposes of this paragraph, the
3	term 'combined heat and power system property' has
4	the same meaning given such term by section
5	48(c)(3) (without regard to subparagraphs (A)(iv),
6	(B), and (D) thereof).
7	"(9) Renewable biomass.—
8	"(A) IN GENERAL.—The term 'renewable
9	biomass' means—
10	"(i) crop byproducts or crop residues
11	that—
12	"(I) are harvested from actively
13	managed or fallow agricultural land
14	that is cleared prior to January 1,
15	2021, and
16	"(II) are procured at a rate that
17	adequately maintains soil carbon and
18	prevents erosion;
19	"(ii) 'closed-loop biomass' as defined
20	in section $1914(c)(B)(2)$ of the Energy
21	Policy Act of 1992 harvested from land
22	cleared prior to January 1, 2021;
23	"(iii) byproducts of wood or paper
24	mill operations, including lignin in spent
25	pulping liquors;

1	"(iv) algae;
2	"(v) nonhazardous plant matter de-
3	rived from waste—
4	"(I) including separated yard
5	waste, landscape right-of-way trim-
6	mings, and food waste; but
7	"(II) not including municipal
8	solid waste, recyclable waste paper,
9	painted, treated or pressurized wood,
10	or wood contaminated with plastic or
11	metals; and
12	"(vi) vegetative matter removed from
13	within 200 yards of any man-made struc-
14	ture or campground for the purposes of
15	hazardous fuels thinning.
16	"(B) EXCLUSION OF INVASIVE SPECIES.—
17	"(i) IN GENERAL.—Notwithstanding
18	subparagraph (A), except as provided in
19	clause (ii), the term 'renewable biomass'
20	does not include any matter derived from
21	a plant that is invasive or noxious, or from
22	a species or variety of plants that credible
23	risk assessment tools or other credible
24	sources determine is potentially invasive,
25	as determined by the Secretary, in con-

1	sultation with other appropriate Federal or
2	State departments and agencies.
3	"(ii) Exception.—The term 'renew-
4	able biomass' includes matter derived from
5	a plant that is invasive or noxious, or from
6	a species or variety of plants that credible
7	risk assessment tools or other credible
8	sources determine is potentially invasive,
9	if—
10	"(I) the matter was removed for
11	purposes of control or eradication of
12	the invasive, noxious, or potentially
13	invasive plant; and
14	"(II) the invasive, noxious, or po-
15	tentially invasive plant was not plant-
16	ed for the purpose of using the plant
17	as an energy crop.
18	"(10) Degraded lands.—The term 'degraded
19	lands' means land that has lost a large degree of its
20	natural productivity due to human-caused processes,
21	the scope of which shall be defined by the Secretary,
22	in consultation with the Secretary of Agriculture and
23	the Director of the Fish and Wildlife Service.
24	"(c) Transferability.—

	101
1	"(1) IN GENERAL.—If, with respect to a credit
2	under subsection (a) for any taxable year—
3	"(A) a qualified facility would be the tax-
4	payer (but for this subparagraph),
5	"(B) such facility elects the application of
6	this paragraph for such taxable year with re-
7	spect to all (or any portion specified in such
8	election) of such credit, and
9	"(C) the eligible project partner specified
10	in such election, and not the qualified facility,
11	shall be treated as the taxpayer for purposes of
12	this title with respect to such credit (or such
13	portion thereof).
14	"(2) ELIGIBLE PROJECT PARTNER.—For pur-
15	poses of this paragraph, the term 'eligible project
16	partner' means any person who—
17	"(A) is responsible for, or participates in,
18	the design or construction of the qualified facil-
19	ity to which the credit under subsection (a) re-
20	lates,
21	"(B) is a financial institution providing fi-
22	nancing for the construction or operation of
23	such facility, or
24	"(C) has an ownership interest in such fa-
25	cility.

1 "(d) Special Rules.—

2 "(1) PRODUCTION ATTRIBUTABLE TO THE TAX-3 PAYER.—In the case of a qualified facility in which 4 more than 1 person has an ownership interest, ex-5 cept to the extent provided in regulations prescribed 6 by the Secretary, production from the facility shall 7 be allocated among such persons in proportion to 8 their respective ownership interests in the gross 9 sales from such facility.

10 "(2) RELATED PERSONS.—Persons shall be 11 treated as related to each other if such persons 12 would be treated as a single employer under the reg-13 ulations prescribed under section 52(b). In the case 14 of a corporation which is a member of an affiliated 15 group of corporations filing a consolidated return, 16 such corporation shall be treated as selling electricity 17 to an unrelated person if such electricity is sold to 18 such a person by another member of such group.

"(3) PASS-THRU IN THE CASE OF ESTATES AND
TRUSTS.—Under regulations prescribed by the Secretary, rules similar to the rules of subsection (d) of
section 52 shall apply.

23 "(e) ADDITIONAL CONSIDERATIONS.—For purposes
24 of subsection (b)(3), the Secretary shall take into consider25 ation only those facilities that—

1	"(1) ensure laborers and mechanics employed
2	by contractors and subcontractors in the perform-
3	ance of any qualifying advanced energy project shall
4	be paid wages at rates not less than the prevailing
5	rates on projects of a similar character in the local-
6	ity as determined by the Secretary of Labor, in ac-
7	cordance with subchapter IV of chapter 31 of title
8	40, United States Code,
9	"(2) ensure that, to the maximum extent fea-
10	sible, iron, steel, and manufactured products used in
11	the facility are produced in the United States, and
12	"(3) prioritize hiring of dislocated workers who
13	were previously employed in manufacturing, coal
14	power plants, or coal mining.".
15	(b) Administration of Credit.—The Secretary of
16	the Treasury shall implement the carbon-targeted zero-
17	emission electricity tax credit under section 45 of the In-
18	ternal Revenue Code of 1986, as added by this Act, in
19	consultation with the Secretary of Energy.
20	(c) Credit Part of General Business Credit.—
21	Section 38(b) is amended by striking "plus" at the end
22	of paragraph (32), by striking the period at the end of
23	paragraph (33) and inserting ", plus", and by adding at
24	the end the following new paragraph:

1	"(34) the carbon-targeted zero-emission elec-
2	tricity tax credit determined under section 45U.".
3	(d) Clerical Amendment.—The table of sections
4	for subpart D of part IV of subchapter A of chapter 1
5	is amended by adding at the end the following new item:
	"Sec. 45U. Carbon-targeted zero-emission electricity tax credit.".
6	(e) EFFECTIVE DATE.—The amendments made by
7	this section shall apply to taxable years ending after the
8	date of the enactment of this Act.
9	SEC. 312. ELECTION TO TREAT CARBON-TARGETED ZERO-
10	EMISSION ELECTRICITY FACILITY AS EN-
11	ERGY PROPERTY.
12	(a) IN GENERAL.—Section 48(a)(5)(C)(i) of the In-
13	ternal Revenue Code of 1986 is amended—
14	(1) by striking "which is a qualified facility
15	(within the meaning of section 45)" and inserting
16	the following: "which is—
17	"(I) a qualified facility (within
18	the meaning of section 45)",
19	(2) by inserting "or" at the end, and
20	(3) by adding at the end the following new sub-
21	clause:
22	"(II) a qualified facility (as de-
23	fined in section $45U(b)(3)$).".
24	(b) INCREASE IN CREDIT PERCENTAGE FOR CER-
25	TAIN FACILITIES.—Section 48(a)(5) of such Code is
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1 amended by adding at the end the following new subpara-2 graph:

3 "(G) INCREASE IN CREDIT PERCENTAGE
4 FOR CARBON-TARGETED ZERO-EMISSION ELEC5 TRICITY FACILITY PLACED IN SERVICE ON
6 BROWNFIELD SITE.—In the case of a qualified
7 facility described in section 45U(a)(2), subpara8 graph (A)(ii) shall be applied by substituting
9 "35 percent' for '30 percent'.".

10 (c) NORMALIZATION RULES.—Section 50(d) of such Code is amended by adding at the end the following new 11 12 sentence: "At the election of a taxpayer with respect to 13 public utility property, the rules of the section 46(f) referred to in paragraph (2) shall not apply to energy prop-14 15 erty (as defined in section 48(a)(3)) which is a qualified facility (as defined in section 45U(b)(3)) with respect to 16 which the application of section 48(a)(5) is elected. Such 17 election shall be made on a property-by-property basis on 18 19 a timely filed return for the taxable year in which such 20 property is placed in service, and once made, may be re-21 voked only with the consent of the Secretary.".

22 (d) Conforming Amendments.—

23 (1) Section 48(a)(5)(B) of such Code is amend24 ed by inserting "or 45U" after "section 45".

(2) Section 48(a)(5)(C)(ii) of such Code is
 amended by inserting "(in the case of a qualified fa cility described in clause (i)(I))" after "which is".

4 (e) EFFECTIVE DATE.—The amendments made by
5 this section shall apply to taxable years ending after the
6 date of the enactment of this Act.

7 SEC. 313. ENERGY TAX CREDIT MONETIZATION.

8 (a) IN GENERAL.—Subchapter B of chapter 65 of the
9 Internal Revenue Code of 1986 is amended by adding at
10 the end the following new section:

11 "SEC. 6431. ELECTIVE PAYMENT OF PRODUCTION AND IN 12 VESTMENT TAX CREDITS FOR CARBON-TAR 13 GETED ZERO-EMISSION ELECTRICITY FACILI 14 TIES.

15 "(a) ENERGY PROPERTY.—In the case of a taxpayer
16 making an election (at such time and in such manner as
17 the Secretary may provide) under this section with respect
18 to—

"(1) any portion of an energy credit which
would (without regard to this section) be determined
under section 48 with respect to a qualified facility
(as defined in section 45U(b)(3)) originally placed in
service after December 31, 2021,

24 "(2) any portion of a carbon-targeted zero25 emission electricity tax credit which would (without

regard to this section) be determined under section
 45U with respect to property originally placed in
 service after December 31, 2021, or

4 "(3) any portion of a credit carryforward to the
5 extent attributable to the portion of such a credit
6 that is allowed under section 38(a)(1) (determined
7 without regard to section 38(c)) for taxable years
8 ending after December 31, 2021,

9 such taxpayer shall be treated as making a payment10 against the tax imposed by subtitle A for the taxable year11 equal to such amount.

12 "(b) TIMING.—The payment described in subsection
13 (a) shall be treated as made on the later of the due date
14 of the return of tax (determined without extensions) for
15 such taxable year or the date on which such return is filed.
16 "(c) EXCLUSION FROM GROSS INCOME.—Gross in17 come of the taxpayer shall be determined without regard
18 to this section.

19 "(d) DENIAL OF DOUBLE BENEFIT.—Solely for pur-20 poses of section 38, in the case of a taxpayer making an 21 election under this section, the energy credit determined 22 under section 48 or the renewable electricity production 23 credit determined under section 45 shall be reduced by 24 the amount of the portion of such credit with respect to 25 which the taxpayer makes such election.

	158
"(e) Special Rules	s.—

1	"(e) Special Rules.—
2	"(1) In the case of a taxpayer making an elec-
3	tion under this section, the credit subject to such an
4	election shall be determined notwithstanding—
5	"(A) section 50(b)(3); and
6	"(B) section $50(b)(4)$ for an entity de-
7	scribed in $50(b)(4)(A)(i)$.
8	"(2) In the case of a mutual or cooperative
9	electric company described in this paragraph or an
10	organization described in section $1381(a)(2)$, income
11	received or accrued in connection with the refunding
12	or direct payment of credit under this section shall
13	be treated as an amount collected from members for
14	the sole purpose of meeting losses and expenses.".
15	(b) Clerical Amendment.—The table of sections
16	for subchapter B of chapter 65 of such Code is amended
17	by adding at the end the following new item:
	"Sec. 6431. Elective payment of production and investment tax credits for car- bon-targeted zero-emission electricity facilities.".
18	(c) Effective Date.—The amendments made by
19	this section shall apply to taxable years ending after the

20 date of the enactment of this Act.

TITLE IV—LOW-INCOME RATE PAYER PROTECTION

3 SEC. 400. PURPOSE.

4 The purpose of this title is to provide low-income resi5 dents technical and financial assistance to help reduce en6 ergy bills, including by making homes more energy effi7 cient.

8 SEC. 401. WEATHERIZATION ASSISTANCE PROGRAM.

9 (a) DWELLING UNIT AVERAGES.—Section 415(c) of
10 the Energy Conservation and Production Act (42 U.S.C.
11 6865(c)) is amended—

(1) in paragraph (1), by striking "\$6,500 per
dwelling unit" and inserting "\$10,000 per dwelling
unit"; and

(2) in paragraph (4), by striking "\$3,000 per
dwelling unit" and inserting "\$8,000 per dwelling
unit".

(b) AUTHORIZATION.—Section 422 of the Energy
Conservation and Production Act (42 U.S.C. 6872) is
amended by striking paragraphs (1) and (2) and inserting
the following:

- 22 "(1) \$350,000,000 for fiscal year 2022;
- 23 "(2) \$400,000,000 for fiscal year 2023;
- 24 "(3) \$500,000,000 for fiscal year 2024;
- 25 "(4) \$600,000,000 for fiscal year 2025; and

1	"(5) \$700,000,000 for fiscal year 2026.".
2	SEC. 402. LIHEAP AUTHORIZATION.
3	Section 2602 of the Low-Income Home Energy As-
4	sistance Act of 1981 (42 U.S.C. 8621) is amended—
5	(1) in subsection (b), by striking "through
6	2007" and inserting "through 2030"; and
7	(2) in subsection (d)—
8	(A) in paragraph (1), by striking "through
9	2004" and inserting "through 2030"; and
10	(B) in paragraph (2), by striking "through
11	2004" and inserting "through 2030".
12	TITLE V—ENERGY WORKFORCE
13	TRANSITION AND TRAINING
13 14	TRANSITION AND TRAINING SEC. 500. PURPOSES AND DEFINITIONS.
_	
14 15	SEC. 500. PURPOSES AND DEFINITIONS.
14 15 16	SEC. 500. PURPOSES AND DEFINITIONS.(a) PURPOSES.—The purposes of this title are to pro-
14 15 16	SEC. 500. PURPOSES AND DEFINITIONS.(a) PURPOSES.—The purposes of this title are to provide for a transition to a modern energy system, including
14 15 16 17	SEC. 500. PURPOSES AND DEFINITIONS. (a) PURPOSES.—The purposes of this title are to provide for a transition to a modern energy system, including by ensuring that—
14 15 16 17 18	SEC. 500. PURPOSES AND DEFINITIONS. (a) PURPOSES.—The purposes of this title are to provide for a transition to a modern energy system, including by ensuring that— (1) the United States has a workforce prepared
14 15 16 17 18 19	SEC. 500. PURPOSES AND DEFINITIONS. (a) PURPOSES.—The purposes of this title are to provide for a transition to a modern energy system, including by ensuring that— (1) the United States has a workforce prepared to address the needs of the modern energy system;
 14 15 16 17 18 19 20 	 SEC. 500. PURPOSES AND DEFINITIONS. (a) PURPOSES.—The purposes of this title are to provide for a transition to a modern energy system, including by ensuring that— (1) the United States has a workforce prepared to address the needs of the modern energy system; (2) workers in declining energy sectors and in
 14 15 16 17 18 19 20 21 	 SEC. 500. PURPOSES AND DEFINITIONS. (a) PURPOSES.—The purposes of this title are to provide for a transition to a modern energy system, including by ensuring that— (1) the United States has a workforce prepared to address the needs of the modern energy system; (2) workers in declining energy sectors and in disenfranchised communities acquire well-paying

1	change and other pollution, can be made resilient to
2	the impacts of climate change; and
3	(4) communities that are primarily dependent
4	on fossil fuel revenues can be made resilient to the
5	economic impacts of energy transition.
6	(b) DEFINITIONS.—In this title:
7	(1) Advisory committee.—The term "Advi-
8	sory Committee'' means the Energy Workforce
9	Transition Advisory Committee established by sec-
10	tion 511(e).
11	(2) Apprenticeship program.—The term
12	"apprenticeship program" means an apprenticeship
13	registered under the Act of August 16, 1937 (29
14	U.S.C. 50 et seq.) (commonly known as the "Na-
15	tional Apprenticeship Act"), that meets the require-
16	ments of parts 29 and 30 of title 29, Code of Fed-
17	eral Regulations, as in effect on December 30, 2019.
18	(3) DIRECTOR.—The term "Director" means
19	the Director of the Office.
20	(4) ENERGY-RELATED FACILITY.—The term
21	"energy-related facility" includes a coal mine, a coal-
22	fueled electric generating facility, an oil and natural
23	gas extraction operation, or a natural gas-fueled
24	electric generating facility.

(5) Energy-related industrial facility.— 2 The term "energy-related industrial facility" in-3 cludes a facility in the manufacturing and transpor-4 tation supply chains of an energy-related facility.

5 (6) ENERGY TRANSITION COMMUNITY.—The 6 term "energy transition community" means a mu-7 nicipality, county, region, or Tribal or indigenous 8 community that has been affected since calendar 9 year 2008 or later, or that demonstrates it will be 10 impacted in the next 36 months, by the loss of 50 11 or more jobs in total as a result of the closure of a 12 energy-related facility, a energy-related industrial fa-13 cility, or other type of energy-related entity, as de-14 termined by the Director.

15 (7) ENERGY TRANSITION WORKER.—The term "energy transition worker" means a worker, includ-16 17 ing a worker employed by contractors or subcontrac-18 tors, who is terminated, laid off from employment, 19 or whose work hours have been reduced, on or after 20 the date of enactment of this Act, from a energy-re-21 lated facility, energy-related industrial facility, or 22 other type of energy-related entity.

23 (8) Energy workforce transition plan.— The term "Energy Workforce Transition Plan" 24 25 means the plan developed under section 511(e).

1	(9) Environmental justice community.—
2	The term "environmental justice community" means
3	a community with significant representation of com-
4	munities of color, low-income communities, or Tribal
5	and indigenous communities, that experiences, or is
6	at risk of experiencing, higher or more adverse
7	human health or environmental effects.
8	(10) Indian Tribe.—The term "Indian Tribe"
9	has the meaning given such term in section 4 of the
10	Indian Self-Determination and Education Assistance
11	Act (25 U.S.C. 5304).
12	(11) INSTITUTION OF HIGHER EDUCATION.
13	The term "institution of higher education" has the
14	meaning given such term in section 101 of the High-
15	er Education Act of 1965 (20 U.S.C. 1001).
16	(12) LABOR ORGANIZATION.—The term "labor
17	organization" has the meaning given such term in
18	section 2 of the National Labor Relations Act (29)
19	U.S.C. 152).
20	(13) LOCAL EDUCATIONAL AGENCY.—The term
21	"local educational agency" has the meaning given
22	such term in section 8101 of the Elementary and
23	Secondary Education Act of 1965 (20 U.S.C. 7801).
24	(14) Local workforce development
25	BOARD.—The term "local workforce development

board" means a board established under section 107
of the Workforce Innovation and Opportunity Act
(29 U.S.C. 3122).
(15) Member of the reserve components
OF THE ARMED FORCES.—The term "member of the
reserve components of the Armed Forces" means a
member of the—
(A) Army National Guard of the United
States;
(B) Army Reserve;
(C) Navy Reserve;
(D) Marine Corps Reserve;
(E) Air National Guard of the United
States;
(F) Air Force Reserve; or
(G) Coast Guard Reserve.
(16) MINORITY INSTITUTION.—The term "mi-
nority institution" has the meaning given that term
in section $365(3)$ of the Higher Education Act of
1965 (20 U.S.C. 1067k(3)).
(17) Nonprofit organization.—The term
"nonprofit organization" means a group organized
for purposes other than generating profit and in
which no part of the organization's income is distrib-
uted to its members, directors, or officers.

1	(18) Office.—The term "Office" means the
2	Energy Workforce Transition Office established by
3	section 511.
4	(19) Pre-apprenticeship.—The term "pre-
5	apprenticeship" means, with respect to a program,
6	an initiative or set of strategies that—
7	(A) is designed to prepare participants to
8	enter an apprenticeship program;
9	(B) is carried out by an eligible sponsor
10	that has a documented partnership with one or
11	more sponsors of apprenticeship programs; and
12	(C) includes each of the following:
13	(i) Training (including a curriculum
14	for the training) aligned with industry
15	standards related to an apprenticeship pro-
16	gram and reviewed and approved annually
17	by sponsors of the apprenticeship program
18	within the documented partnership that
19	will prepare participants by teaching the
20	skills and competencies needed to enter
21	one or more apprenticeship programs.
22	(ii) Hands-on training and theoretical
23	education for participants that does not
24	displace a paid employee.

(iii) A formal agreement with a spon-
sor of an apprenticeship program that
would enable participants who successfully
complete the pre-apprenticeship program—
(I) to enter into the apprentice-
ship program if a place in the pro-
gram is available and if the partici-
pant meets the qualifications of the
apprenticeship program; and
(II) to earn credits towards the
apprenticeship program.
(20) Secretary.—The term "Secretary"
means the Secretary of Energy.
(21) TRIBAL OR INDIGENOUS COMMUNITY
The term "Tribal or indigenous community" means
a population of people who are members of—
(A) a federally recognized Indian Tribe;
(B) a State-recognized Indian Tribe;
(C) an Alaska Native or Native Hawaiian
community or organization; or
(D) any other community of indigenous
people located in a State.
(22) UNDEREMPLOYED.—The term "under-
employed" means with respect to an individual, an
individual who is—

1	(A) employed at less than full-time because
2	they are unable to obtain full-time employment;
3	Or
4	(B) employed at a job that is inadequate
5	to their training or economic needs.
6	(23) Veteran of the armed forces.—The
7	term "veteran of the Armed Forces" means a person
8	who served in the active military, naval, or air serv-
9	ice and who was discharged or released under condi-
10	tions other than dishonorable.
11	(24) WAGE DIFFERENTIAL BENEFIT.—The
12	term "wage differential benefit" means the dif-
13	ference between the wages and other benefits pro-
14	vided by—
15	(A) a worker's wages and benefits earned
16	in a energy-related facility, energy-related in-
17	dustrial facility, or other energy-related entity
18	on the day before the worker is terminated, laid
19	off, or given a reduction in work hours; and
20	(B) the worker's current wages and bene-
21	fits, if any, after such a termination, lay-off, or
22	reduction in work hours.

Subtitle A—State Energy Plans 1 2 SEC. 501. STATE ENERGY PLANS. 3 (a) IN GENERAL.—Section 362(d) of the Energy Policy and Conservation Act (42 U.S.C. 6322(d)) is amend-4 5 ed---6 (1) in paragraph (16), by striking "; and" and 7 inserting a semicolon; (2) by redesignating paragraph (17) as para-8 9 graph (18); and 10 (3) by inserting after paragraph (16) the fol-11 lowing: 12 "(17) a State energy plan developed in accord-13 ance with section 367; and". 14 (b) STATE ENERGY PLANS.—Part D of title III of the Energy Policy and Conservation Act (42 U.S.C. 6321 15 et seq.) is amended by adding at the end the following: 16 17 "SEC. 367. STATE ENERGY PLANS. 18 "(a) IN GENERAL.—The Secretary may provide fi-19 nancial assistance to a State to develop a State energy 20 plan, for inclusion in a State energy conservation plan 21 under section 362(d), to provide for— "(1) the elimination of net greenhouse gas 22 23 emissions; 24 "(2) improved air and water quality; "(3) conservation of natural resources; 25

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1	"(4) reduction and elimination of environmental
2	injustice; and
3	"(5) workforce transition planning.
4	"(b) CONTENTS.—A State developing a State energy
5	plan under this section shall include in such plan, meas-
6	ures to—
7	((1) ensure that the full social cost of carbon
8	pollution is factored into decision making associated
9	with electricity generation and utility investments in
10	energy efficiency and electric vehicle infrastructure;
11	((2)) promote investments in a distribution sys-
12	tem that takes advantage of technology advancement
13	and supports reduced pollution, consumer choice,
14	and a resilient and reliable system;
15	"(3) address the need to site transmission lines
16	and new electricity generating units efficiently;
17	"(4) evaluate the role of existing resources as
18	part of utility planning to accelerate the transition
19	to low-cost carbon emissions reductions;
20	"(5) engage with regional partners to explore
21	the potential benefits of regional markets;
22	"(6) support utility leadership in its efforts to
23	transition to sources of electricity that result in net
24	zero greenhouse gas emissions;

1	((7) support infrastructure upgrades and smart
2	grid investments to improve system-wide efficiency;
3	"(8) support building codes for new and retro-
4	fitted buildings that promote the energy efficiency of
5	buildings and the electric grid;
6	"(9) support improved appliance efficiency
7	standards;
8	((10) support investments in electric vehicle in-
9	frastructure in ways that will ensure a more efficient
10	grid and greater adoption of electric vehicles, includ-
11	ing in rural areas;
12	"(11) support workforce and economic transi-
13	tion planning for communities impacted by a chang-
14	ing energy landscape, as informed by the Energy
15	Workforce Transition Plan developed under section
16	511 of the Clean Energy Innovation and Deploy-
17	ment Act of 2021, and the Clean Energy Jobs
18	Training Program established under section 522 of
19	such Act;
20	((12) support sustainable recreation and tour-
21	ism in workforce and economic transition planning;
22	"(13) eliminate the disproportionate burden of
23	adverse human health or environmental effects on
24	communities of color, low-income communities, and

1	Tribal or indigenous communities in such State, as
2	determined by the Secretary;
3	"(14) support increased acknowledgment of,
4	and considerations for, indigenous and Tribal sov-
5	ereignty; and
6	((15) develop strategies to support local clean
7	energy goals facilitating utility-community coopera-
8	tion and private sector partnerships.
9	"(c) COORDINATION.—In developing a State energy
10	plan under this section, a State shall coordinate, as appro-
11	priate, with—
12	"(1) State regulatory authorities (as defined in
13	section 3 of the Public Utility Regulatory Policies
14	Act of 1978);
15	"(2) electric utilities;
16	"(3) Regional Transmission Organizations (as
17	defined in section 3 of the Federal Power Act) and
18	Independent System Operators (as defined in section
19	3 of the Federal Power Act);
20	"(4) private entities, including representatives
21	from the power sector and clean energy industry;
22	"(5) State agencies, metropolitan planning or-
23	ganizations, and local governments;

"(6) the Energy Workforce Transition Office
 established by section 511 of the Clean Energy In novation and Deployment Act of 2021; and

4 "(7) labor organizations, such as those rep5 resenting workers in the construction, manufac6 turing, or energy sectors.

7 "(d) TECHNICAL ASSISTANCE.—Upon request of the
8 Governor of a State, the Secretary shall provide informa9 tion and technical assistance in the development, imple10 mentation, or revision of a State energy plan.".

11 SEC. 502. AUTHORIZATION OF APPROPRIATIONS.

(a) STATE ENERGY CONSERVATION PLANS.—Section
365(f) of the Energy Policy and Conservation Act (42
U.S.C. 6325(f)) is amended to read as follows:

15 "(f) AUTHORIZATION OF APPROPRIATIONS.—

"(1) STATE ENERGY CONSERVATION PLANS.—
For the purpose of carrying out this part, there is authorized to be appropriated \$100,000,000 for each of fiscal years 2022 through 2026.

20 "(2) STATE ENERGY PLANS.—In addition to
21 the amounts authorized under paragraph (1), for the
22 purpose of carrying out section 367, there is author23 ized to be appropriated \$25,000,000 for each of fis24 cal years 2022 through 2026.".

1 (b) TRANSPORTATION ELECTRIFICATION.—Section 2 131 of the Energy Independence and Security Act of 2007 (42 U.S.C. 17011) is amended— 3 (1) in subsection (b)(6), by striking "2008 4 through 2012" and inserting "2022 through 2026"; 5 6 and 7 (2) in subsection (c)(4), by striking "2008" through 2013" and inserting "2022 through 2026". 8 Subtitle B—Energy Workforce 9 **Transition** 10 11 SEC. 511. ENERGY WORKFORCE TRANSITION OFFICE AND 12 **ADVISORY COMMITTEE.** 13 (a) ESTABLISHMENT.—There is hereby established within the Department of Energy an office, to be known 14 15 as the Energy Workforce Transition Office. 16 (b) EXEMPTION FROM REORGANIZATION.—The Office shall be exempt from the reorganization authority pro-17 18 vided under section 643 of the Department of Energy Or-19 ganization Act (42 U.S.C. 7253). 20 (c) DIRECTOR.—The Secretary shall appoint as the 21 head of the Office a Director, who shall manage the oper-22 ations of the Office. 23 (d) DUTIES OF THE OFFICE.—The duties of the Office shall be to— 24

(1) identify or estimate, to the extent prac-
ticable, with respect to the period that begins on the
date of enactment of this Act and ends on January
1, 2030—
(A) the timing and location of facility clo-
sures and job terminations or layoffs in energy-
related facilities, energy-related industrial facili-
ties, and other energy-related entities; and
(B) the impact of such terminations, lay-
offs, or reduced work hours on affected workers
(including those employed by a contractor or
subcontractor), businesses, and energy transi-
tion communities; and
(2) provide administrative, logistical, research,
and policy support and recommendations to the Ad-
visory Committee.
(e) Energy Workforce Transition Advisory
Committee.—
(1) ESTABLISHMENT.—There is hereby estab-
lished an advisory committee, to be known as the
Energy Workforce Transition Advisory Committee.

(2) Energy workforce transition plan.—

mittee shall develop and finalize a plan, to be

(A) IN GENERAL.—The Advisory Com-

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1	known as the Energy Workforce Transition
2	Plan.
3	(B) PURPOSE.—The purpose of the En-
4	ergy Workforce Transition Plan is to identify,
5	align, and streamline resources to assist work-
6	ers and communities impacted by the transition
7	to a clean energy economy.
8	(C) PUBLIC MEETINGS.—In developing the
9	Energy Workforce Transition Plan, the Advi-
10	sory Committee shall hold no less than 4 public
11	meetings in energy transition communities, with
12	opportunities for members of the public to pro-
13	vide input.
14	(D) CONTENTS.—The Energy Workforce
15	Transition Plan shall include—
16	(i) a description of the challenges that
17	energy transition communities encounter,
18	including challenges associated with eco-
19	nomic and employment transition, and
20	challenges particular to certain regions;
21	(ii) a description of benefits, grants,
22	and other sources of funding to address
23	the challenges described under clause (i)
24	that may be accessed from Federal, State,

1	local, and other sources without additional
2	legislative authority or approval;
3	(iii) a description of sources of fund-
4	ing to address the challenges described
5	under clause (i) that require additional leg-
6	islative authority or approval;
7	(iv) recommendations for aligning
8	local, State, Federal, and other resources
9	to invest in energy transition communities
10	and energy transition workers;
11	(v) recommendations for establishing
12	benefits for energy transition workers, in-
13	cluding consideration of—
14	(I) benefits similar in type,
15	amount, and duration to Federal ben-
16	efits that are not otherwise available
17	to all energy transition workers, in-
18	cluding pensions;
19	(II) wage differential benefits for
20	energy transition workers, including
21	consideration of eligibility and the du-
22	ration of the benefits; and
23	(III) collaboration with existing
24	or future employers of energy transi-
25	tion workers and relevant labor orga-

1	ningtions to information to it.
1	nizations, to inform energy transition
2	workers how to apply for wage dif-
3	ferential and other eligible benefits;
4	(vi) recommendations for grants and
5	other programmatic support for energy
6	transition communities, and entities that
7	support energy transition communities, in-
8	cluding—
9	(I) grants and other pro-
10	grammatic support provided by coun-
11	ties, municipalities, cities, or other po-
12	litical subdivisions of a State;
13	(II) grants and other pro-
14	grammatic support provided Indian
15	Tribes;
16	(III) apprenticeships programs;
17	(IV) grants and other pro-
18	grammatic support to be provided by
19	institutions of higher education; and
20	(V) grants and other pro-
21	grammatic support to be provided by
22	public or private nonprofit organiza-
23	tions or associations;
24	(vii) recommendations for establishing
25	community transition resource centers in
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1 energy transition communities, in order to 2 provide such communities a source of current information regarding the resources 3 4 described in this subparagraph; (viii) identification of the projected 5 6 short-term and long-term costs of each ac-7 tivity recommended in the Energy Work-8 force Transition Plan, including worker 9 benefits, grant programs, and other activi-10 ties; 11 (ix) identification of the potential 12 sources for sustainable short-term and 13 long-term funding for implementing the ac-14 tivities recommended in the Energy Work-15 force Transition Plan; 16 (x) the potential advantages or dis-17 advantages of extending activities rec-18 ommended in the Energy Workforce Tran-19 sition Plan to other sectors and industries 20 affected by similar economic disruptions; 21 and

(xi) recommendations, made in consultation with relevant Federal agencies,
including the Department of Labor, and
relevant State authorities, for efficient im-

1	plementation of the activities recommended
2	in the Energy Workforce Transition Plan.
3	(E) REPORT TO CONGRESS.—Not later
4	than January 1, 2023, the Advisory Committee
5	shall submit to Congress the Energy Workforce
6	Transition Plan, as well as any recommenda-
7	tions to be considered in order to better achieve
8	the plan.
9	(3) Membership.—The Advisory Committee
10	shall consist of the following members:
11	(A) Ex officio members as follows:
12	(i) A representative of the Depart-
13	ment of Labor.
14	(ii) A representative of the Economic
15	Development Administration of the De-
16	partment of Commerce.
17	(iii) A representative of the Executive
18	Office of the President.
19	(B) The following members appointed by
20	the Director:
21	(i) 4 representatives of energy transi-
22	tion workers, including at least one from a
23	union representing coal workers, one from
24	a building trades union, and one from a

1	union representing other energy transition
2	workers.
3	(ii) 3 representatives from energy
4	transition communities.
5	(iii) 2 representatives with profes-
6	sional economic development or workforce
7	retraining experience.
8	(iv) 2 representatives of environmental
9	justice communities.
10	(v) 2 representatives of electric utili-
11	ties that, on the date of enactment of this
12	Act, operate a energy-related facility.
13	(4) TERM.—Except as otherwise provided in
14	this section, the term of appointment or designation
15	of a member of the Advisory Committee shall end on
16	January 1, 2027.
17	(5) EXPENSES.—In accordance with section
18	5703 of title 5, United States Code, each member of
19	the Advisory Committee may receive payment of a
20	per diem and reimbursement for actual and nec-
21	essary expenses.
22	(6) CHAIR.—The Advisory Committee shall
23	elect a chair from among its members to serve for
24	a term not to exceed 2 years, as determined appro-
25	priate by the Advisory Committee.

1	(7) MEETINGS.—The Advisory Committee shall
2	meet at least once every quarter. The chair of the
3	Advisory Committee may call such additional meet-
4	ings as are necessary for the Advisory Committee,
5	with the Secretary, to develop and submit to Con-
6	gress the Energy Workforce Transition Plan.
7	(8) Engagement of others.—The Advisory
8	Committee may engage additional nonvoting mem-
9	bers or advisors to provide additional expertise as
10	needed.
11	(9) TERMINATION.—Section 14(a) of the Fed-
12	eral Advisory Committee Act shall not apply to the
13	Advisory Committee.
13 14	Advisory Committee. SEC. 512. ENERGY WORKFORCE TRANSITION PLANS AND
14	SEC. 512. ENERGY WORKFORCE TRANSITION PLANS AND
14 15	SEC. 512. ENERGY WORKFORCE TRANSITION PLANS AND REEMPLOYMENT OF AFFECTED WORKERS.
14 15 16	SEC. 512. ENERGY WORKFORCE TRANSITION PLANS AND REEMPLOYMENT OF AFFECTED WORKERS. (a) SUBMISSION.—The owner or operator of an en-
14 15 16 17	 SEC. 512. ENERGY WORKFORCE TRANSITION PLANS AND REEMPLOYMENT OF AFFECTED WORKERS. (a) SUBMISSION.—The owner or operator of an en- ergy-related facility shall to the extent practicable submit
14 15 16 17 18	 SEC. 512. ENERGY WORKFORCE TRANSITION PLANS AND REEMPLOYMENT OF AFFECTED WORKERS. (a) SUBMISSION.—The owner or operator of an en- ergy-related facility shall to the extent practicable submit to the Director a workforce transition plan—
14 15 16 17 18 19	 SEC. 512. ENERGY WORKFORCE TRANSITION PLANS AND REEMPLOYMENT OF AFFECTED WORKERS. (a) SUBMISSION.—The owner or operator of an energy-related facility shall to the extent practicable submit to the Director a workforce transition plan— (1) with respect to a coal-fueled electric gener-
 14 15 16 17 18 19 20 	 SEC. 512. ENERGY WORKFORCE TRANSITION PLANS AND REEMPLOYMENT OF AFFECTED WORKERS. (a) SUBMISSION.—The owner or operator of an energy-related facility shall to the extent practicable submit to the Director a workforce transition plan— (1) with respect to a coal-fueled electric generating facility with a capacity of more than 50
 14 15 16 17 18 19 20 21 	 SEC. 512. ENERGY WORKFORCE TRANSITION PLANS AND REEMPLOYMENT OF AFFECTED WORKERS. (a) SUBMISSION.—The owner or operator of an energy-related facility shall to the extent practicable submit to the Director a workforce transition plan— (1) with respect to a coal-fueled electric generating facility with a capacity of more than 50 megawatts, not later than 6 months before the clo-

	10-
1	not later than 6 months before the closure of the
2	coal mine; and
3	(3) with respect to an energy-related facility not
4	described under paragraph (1) or (2) , not later than
5	90 days before the closure of the facility.
6	(b) CONTENTS.—To the extent practicable, a work-
7	force transition plan submitted under subsection (a) shall
8	include estimates of—
9	(1) the number of workers, including those em-
10	ployed by a contractor or subcontractor, employed
11	by the energy-related facility before the closure of
12	the facility;
13	(2) the total number of such workers, including
14	those employed by a contractor or subcontractor,
15	whose employment, as a result of the closure of the
16	energy-related facility, will—
17	(A) be retained;
18	(B) be eliminated; and
19	(C) be given a reduction in hours;
20	(3) with respect to the workers, including those
21	employed by a contractor or subcontractor, whose
22	existing jobs will be eliminated as a result of the clo-
23	sure of the energy-related facility the total number,
24	and the number by job classification, of workers—

1	(A) whose employment will end without
2	being offered other employment;
3	(B) who will retire as planned, be offered
4	early retirement, or leave on their own;
5	(C) who will be retained by being trans-
6	ferred to other activities under the employment
7	of the owner or operator; and
8	(D) who will be retained to continue to
9	work for the owner or operator in a new job
10	classification; and
11	(4) with respect to the workers, including those
12	employed by a contractor or subcontractor, whose
13	existing jobs will be retained during the closure of
14	the energy-related facility, the total number, and the
15	number by job classification, of workers who will
16	work on the decommissioning and environmental re-
17	mediation of the facility; and
18	(5) if an owner or operator is replacing a en-
19	ergy-related facility with a new electric generating
20	facility, the number of—
21	(A) workers from the closed energy-related
22	facility who will be employed at the new electric
23	generating facility; and

(B) jobs at the new electric generating fa cility that will be outsourced to contractors or
 subcontractors.

4 (c) PRIVACY.—A workforce transition plan submitted
5 under subsection (a) shall not include information that
6 violates privacy of workers or confidential business infor7 mation.

8 (d) REGULATIONS.—Not later than 1 year after the
9 date of enactment of this Act, the Secretary shall promul10 gate regulations to implement this subtitle.

(e) COMPLIANCE.—The owner or operator of an energy-related facility shall face a fine or fee, as determined
appropriate by the Secretary, should they fail to submit
a workforce transition plan in accordance with this section.

16	Subtitle C—Modern Energy
17	Workforce Development
18	PART 1-MODERN ENERGY WORKFORCE
19	DEVELOPMENT
20	SEC. 521. MODERN ENERGY WORKFORCE DEVELOPMENT.
21	(a) ESTABLISHMENT.—The Secretary, in consulta-
22	tion with the Secretary of Labor, shall establish and carry
23	out a comprehensive and nationwide program (referred to
24	in this section as the "Program") to improve education
25	and training for jobs in energy-related industries (includ-

ing manufacturing, engineering, construction, and retro fitting jobs in energy-related industries) to increase the
 number of skilled workers trained to work in energy-re lated industries with existing or expected worker short ages.

6 (b) WORKFORCE DEVELOPMENT.—

7 (1) IN GENERAL.—In carrying out the Pro8 gram, the Secretary shall—

9 (A) offer available resources to energy 10 transition workers and underrepresented 11 groups, including religious and ethnic minori-12 ties, women, veterans, individuals with disabil-13 ities, and socioeconomically disadvantaged indi-14 viduals, to enter into science, technology, engi-15 neering, and mathematics fields;

16 (B) offer available resources to institutions
17 of higher education to equip students with the
18 skills, training, and technical expertise nec19 essary to fill existing or expected worker short20 ages in energy-related industries;

21 (C) provide internships, fellowships, and
22 traineeships at the Department of Energy, in23 cluding at National Laboratories;

24 (D) provide energy workforce-related re25 search grants and technical assistance to insti-

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1	tutions of higher education, with priority given
2	to minority institutions;
3	(E) ensure that internships, fellowships,
4	traineeships, apprenticeships, and pre-appren-
5	ticeships provide the necessary skills and certifi-
6	cations for employment in energy-related indus-
7	tries with existing or expected worker short-
8	ages;
9	(F) ensure alignment with the goals de-
10	fined under the Minorities in Energy Initiative
11	of the Department of Energy;
12	(G) ensure alignment with other programs
13	that are carrying out the Minorities in Energy
14	Initiative of the Department of Energy;
15	(H) to the maximum extent practicable,
16	collaborate with and support State workforce
17	development programs to maximize the effi-
18	ciency of the Program; and
19	(I) work with labor organizations and insti-
20	tutions of higher education to promote pre-ap-
21	prenticeship as a pathway to an energy-related
22	career through an apprenticeship program.
23	(2) PRIORITY.—In carrying out the Program,
24	the Secretary shall—

1 (A) prioritize the education and training of 2 energy transition workers and underrepresented groups, including religious and ethnic minori-3 4 ties, women, veterans, individuals with disabil-5 ities, and socioeconomically disadvantaged indi-6 viduals for jobs in energy-related industries, es-7 pecially construction; and 8 (B) partner with labor organizations that

9 have multi-year records of training and sup10 porting energy transition workers and under11 represented groups to successful completion of
12 pre-apprenticeship and apprenticeship pro13 grams.

14 (c) DIRECT ASSISTANCE.—

15 (1) IN GENERAL.—In carrying out the Pro-16 gram, the Secretary shall provide direct assistance 17 (including financial assistance awards, technical ex-18 pertise, and guidance) to local educational agencies, 19 local workforce development boards, institutions of 20 higher education, nonprofit organizations, labor or-21 ganizations, apprenticeship programs, and pre-ap-22 prenticeship programs.

(2) DISTRIBUTION.—The Secretary shall distribute direct assistance under paragraph (1) in a
manner that—

1	(A) is reflective of the needs of, and de-
2	mand for jobs in, an energy-related industry;
3	and
4	(B) is consistent with the information ob-
5	tained under subsections $(e)(4)$ and (j) .
6	(3) RESTRICTION.—In providing financial as-
7	sistance awards under paragraph (1) for education
8	and training relating to construction, eligible entities
9	shall only include apprenticeship programs, and pre-
10	apprenticeship programs that have an articulation
11	agreement with one or more apprenticeship pro-
12	grams.
13	(d) RESOURCE CENTER.—The Secretary shall estab-
14	lish an online resource center—
15	(1) to maintain and update information and re-
16	sources on training programs for jobs in energy-re-
17	lated industries (including manufacturing, engineer-
18	ing, construction, and retrofitting jobs in energy-re-
19	lated industries); and
20	(2) to connect local educational agencies, State
21	educational agencies, institutions of higher edu-
22	cation, local workforce development boards, State
23	workforce development boards, nonprofit organiza-
24	tions, labor organizations, apprenticeship programs
25	and pre-apprenticeship programs that are working to

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1	develop and implement training programs for the
2	jobs described in paragraph (1) to share resources,
3	approaches, and best practices.
4	(e) Collaboration and Report.—In carrying out
5	the Program, the Secretary shall—
6	(1) collaborate with local educational agencies,
7	institutions of higher education, local workforce de-
8	velopment boards, Tribal or indigenous community
9	leadership, nonprofit organizations, labor organiza-
10	tions, apprenticeship programs and pre-apprentice-
11	ship programs, and energy-related industries;
12	(2) facilitate the sharing of best practices and
13	approaches that best suit local, State, and national
14	needs;
15	(3) encourage and foster collaboration,
16	mentorship, and partnership between—
17	(A) industry partners, local workforce de-
18	velopment boards, Tribal or indigenous commu-
19	nity leadership, nonprofit organizations, labor
20	organizations, apprenticeship and pre-appren-
21	ticeship programs, that provide effective train-
22	ing programs for jobs in energy-related indus-
23	tries; and
24	(B) local educational agencies, State edu-
25	cational agencies, and institutions of higher

1	education that seek to establish those programs;
2	and
3	(4) collaborate with the Secretary of Labor, the
4	Commissioner of the Bureau of Labor Statistics, the
5	Secretary of Commerce, the Director of the Bureau
6	of the Census, labor organizations, and energy-re-
7	lated industries—
8	(A) to develop a comprehensive and de-
9	tailed understanding of the workforce needs of,
10	and job opportunities in, energy-related indus-
11	tries, by State and by region; and
12	(B) to publish an annual report on job cre-
13	ation in the sectors of energy-related industries
14	identified under subsection (j).
15	(f) Best Practices for Educational Institu-
16	TIONS.—
17	(1) IN GENERAL.—The Secretary, in collabora-
18	tion with the Secretary of Education, the Secretary
19	of Commerce, the Secretary of Labor, and the Direc-
20	tor of the National Science Foundation, shall de-
21	velop and report best practices for providing stu-
22	dents with skills necessary for jobs in energy-related
23	industries (including manufacturing, engineering,
24	construction, and retrofitting jobs in energy-related

1	industries) to local educational agencies, institutions
2	of higher education, and apprenticeship programs.
3	(2) ENERGY EFFICIENCY AND COMMUNITY EN-
4	ERGY RESILIENCY INITIATIVES.—The Secretary
5	shall develop and provide best practices for teaching
6	students and the families of those students about en-
7	ergy efficiency and community energy resiliency.
8	(3) INPUT FROM INDUSTRY LABOR ORGANIZA-
9	TIONS.—In carrying out paragraphs (1) and (2) , the
10	Secretary shall solicit input from energy-related in-
11	dustries and labor organizations, especially sectors
12	with existing or expected worker shortages or exper-
13	tise in energy efficiency.
14	(4) STEM EDUCATION.—In carrying out para-
15	graphs (1) and (2), the Secretary shall promote edu-
16	cation in science, technology, engineering, and math-
17	ematics.
18	(g) Outreach to Minority Institutions.—In
19	carrying out the Program, the Secretary shall—
20	(1) increase the Department of Energy's out-
21	reach to minority institutions, including historically
22	Black universities and colleges, community colleges,
23	and Tribal institutions;
24	(2) work with minority institutions to increase
25	the number of skilled minorities and women quali-

1 fied for jobs in energy-related industries (including 2 manufacturing, engineering, construction, and retro-3 fitting jobs in energy-related industries); 4 (3) work with energy-related industries to im-5 prove opportunities for students of minority institu-6 tions to participate in industry internships and coop-7 erative work-study programs; and 8 (4) work with the Directors of the National 9 Laboratories to increase the participation of stu-10 dents from minority institutions in internships, fel-11 lowships, training programs, and employment at 12 those laboratories. (h) OUTREACH TO ENERGY TRANSITION WORK-13 ERS.—The Secretary shall— 14 15 (1) work with employers and job trainers, in-16 cluding apprenticeship and pre-apprenticeship pro-17 grams, in preparing energy transition workers for 18 emerging jobs in energy-related industries (including 19 manufacturing, engineering, construction, and retro-20 fitting jobs in energy-related industries); 21 (2) work with energy transition workers to in-22 crease the number of individuals trained for jobs in 23 energy-related industries (including manufacturing, 24 engineering, construction, and retrofitting jobs in 25 energy-related industries); and

(3) work with labor organizations and energy related industry partners to improve opportunities
 for energy transition workers to participate in indus try internships, cooperative work-study programs,
 apprenticeships, and pre-apprenticeships.

6 (i) ENROLLMENT IN TRAINING AND APPRENTICE-7 SHIP AND PRE-APPRENTICESHIP PROGRAMS.—The Sec-8 retary shall provide assistance to industry, local workforce 9 development boards, State workforce development boards, 10 nonprofit organizations, labor organizations, and apprenticeship programs in identifying students and other can-11 12 didates, including energy transition workers and underrep-13 resented groups, including religious and ethnic minorities, individuals with 14 women, veterans, disabilities, and 15 socioeconomically disadvantaged individuals, to enroll in training and apprenticeship programs and pre-apprentice-16 ship programs for jobs in energy-related industries. 17

18 (j) GUIDELINES TO DEVELOP SKILLS FOR A MOD-ERN ENERGY INDUSTRY WORKFORCE.—The Secretary 19 20shall, in collaboration with energy-related industries and 21 labor organizations, identify the sectors within each en-22 ergy-related industry that have the greatest demand for 23 workers and develop guidelines for the skills necessary to 24 work in those sectors. The Secretary shall identify the sec-25 tors in consultation with a broad cross-section of the energy industry, including relevant energy industry organi zations, public and private employers, labor organizations,
 postsecondary education institutions, and workforce devel opment boards.

5 (k) RULE OF CONSTRUCTION.—Nothing in this sec6 tion authorizes any department, agency, officer, or em7 ployee of the Federal Government to exercise any direc8 tion, supervision, or control over—

9 (1) the curriculum, program of instruction, or
10 instructional content of any State, local educational
11 agency, or school; or

(2) the selection of library resources, textbooks,
or other printed or published instructional materials
used by any State, local educational agency, or
school.

16 SEC. 522. CLEAN ENERGY JOBS TRAINING PROGRAM.

17 (a) DEFINITIONS.—In this section:

(1) 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 green-

1	house gas emissions, as determined by the Sec-
2	retary;
3	(B) works on behalf of a business or labor
4	organization that is directly involved with zero-
5	emission electricity technology, energy effi-
6	ciency, or other activity that results in a reduc-
7	tion in greenhouse gas emissions, as determined
8	by the Secretary;
9	(C) provides services related to—
10	(i) zero-emission electricity technology
11	deployment and maintenance and energy
12	efficiency;
13	(ii) grid modernization; or
14	(iii) reduction in greenhouse gas emis-
15	sions through the use of zero-emission en-
16	ergy technologies;
17	(D) has knowledge of technician workforce
18	needs of a National Laboratory or covered facil-
19	ity of the National Nuclear Security Adminis-
20	tration and the associated security requirements
21	of such laboratory or facility;
22	(E) demonstrates experience in imple-
23	menting and operating apprenticeship programs
24	or pre-apprenticeship programs that provide a
25	direct pathway to an energy-related career; or

1	(F) demonstrates success in placing grad-
2	uates of pre-apprenticeship or apprenticeship
3	programs in jobs relevant to such programs.
4	(2) NATIONAL LABORATORY.—The term "Na-
5	tional Laboratory" means any of the following lab-
6	oratories owned by the Department of Energy:
7	(A) Ames Laboratory.
8	(B) Argonne National Laboratory.
9	(C) Brookhaven National Laboratory.
10	(D) Fermi National Accelerator Labora-
11	tory.
12	(E) Idaho National Laboratory.
13	(F) Lawrence Berkeley National Labora-
14	tory.
15	(G) Lawrence Livermore National Labora-
16	tory.
17	(H) Los Alamos National Laboratory.
18	(I) National Energy Technology Labora-
19	tory.
20	(J) National Renewable Energy Labora-
21	tory.
22	(K) Oak Ridge National Laboratory.
23	(L) Pacific Northwest National Labora-
24	tory.
25	(M) Princeton Plasma Physics Laboratory.

1	(N) Sandia National Laboratories.
2	(O) Savannah River National Laboratory.
3	(P) Stanford Linear Accelerator Center.
4	(Q) Thomas Jefferson National Accel-
5	erator Facility.
6	(3) PROGRAM.—The term "Program" means
7	the Clean Energy Jobs Training Program estab-
8	lished under subsection (b).
9	(b) ESTABLISHMENT.—The Secretary, in consulta-
10	tion with the Secretary of Labor, shall establish a pro-
11	gram, to be known as the Clean Energy Jobs Training
12	Program, to provide competitively awarded cost-shared
13	grants to eligible entities to pay for on-the-job training
14	of a new or existing employee—
15	(1) to work in zero-emission electricity genera-
16	tion, energy efficiency, or grid modernization;
17	(2) to work otherwise on the reduction of green-
18	house gas emissions; or
19	(3) to participate in a pre-apprenticeship pro-
20	gram that provides a direct pathway to an energy-
21	related career in construction through one or more
22	apprenticeship programs.
23	(c) GRANTS.—
24	(1) IN GENERAL.—An eligible entity desiring a
25	grant under the Program shall submit to the Sec-

retary an application at such time, in such manner, and containing such information as the Secretary may require. (2) PRIORITY FOR TARGETED COMMUNITIES.—
may require.
(2) Priority for targeted communities.—
In providing grants under the Program, the Sec-
retary shall give priority to an eligible entity that—
(A) recruits employees—
(i) from the one or more communities
that are served by the eligible entity; and
(ii) that are minorities, women, vet-
erans, individuals from Indian Tribes or
Tribal organizations, or energy transition
workers;
(B) provides trainees with the opportunity
to obtain real-world experience;
(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, mi-
norities, women, and veterans for training
and supporting such individuals to a suc-
cessful completion of a pre-apprenticeship

1	(ii) a successful multi-year record of
2	placing the majority of pre-apprenticeship
3	program graduates into apprenticeship
4	programs in the construction industry.
5	(3) Use of grant for federal share.—
6	(A) IN GENERAL.—An eligible entity shall
7	use a grant received under the Program to—
8	(i) pay the Federal share of the cost
9	of providing on-the-job training for an em-
10	ployee, in accordance with subparagraph
11	(B); or
12	(ii) in the case of a pre-apprenticeship
13	program—
14	(I) recruit minorities, women,
15	and veterans for training;
16	(II) support those individuals in
17	the successful completion of the pre-
18	apprenticeship program; and
19	(III) carry out any other activity
20	of the pre-apprenticeship program, as
21	determined to be appropriate by the
22	Secretary of Labor, in consultation
23	with the Secretary.

1	(B) FEDERAL SHARE AMOUNT.—The Fed-
2	eral share described in subparagraph (A)(i)
3	shall not exceed—
4	(i) in the case of an eligible entity
5	with 20 or fewer employees, 45 percent of
6	the cost of on-the-job training for an em-
7	ployee;
8	(ii) in the case of an eligible entity
9	with not fewer than 21 employees and not
10	more than 99 employees, 37.5 percent of
11	the cost of on-the-job training for an em-
12	ployee;
13	(iii) in the case of an eligible entity
14	with not fewer than 100 employees, 25
15	percent of the cost of on-the-job training
16	for an employee; and
17	(iv) in the case of an eligible entity
18	that administers a pre-apprenticeship pro-
19	gram, 75 percent of the cost of the pre-ap-
20	prenticeship program.
21	(4) Employer payment of non-federal
22	SHARE.—
23	(A) IN GENERAL.—The non-Federal share
24	of the cost of providing on-the-job training for
25	an employee under a grant received under the

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1	Program shall be paid in cash or in kind by the
2	employer of the employee receiving the training
3	or by a nonprofit organization.
4	(B) INCLUSIONS.—The non-Federal share
5	described in subparagraph (A) may include the
6	amount of wages paid by the employer to the
7	employee during the time that the employee is
8	receiving on-the-job training, as fairly evaluated
9	by the Secretary of Labor.
10	(5) CONSTRUCTION.—In providing grants under
11	the Program for training, recruitment, and support
12	relating to construction, eligible entities shall only
13	include pre-apprenticeship programs that have an
14	articulation agreement with one or more apprentice-
15	ship programs.
16	(6) GRANT AMOUNT.—An eligible entity may
17	not receive more than \$1,000,000 per fiscal year in
18	grant funds under the Program.
19	SEC. 523. UNIVERSITY ZERO-EMISSION ENERGY LEADER-
20	SHIP PROGRAM.
21	(a) Establishment.—
22	(1) IN GENERAL.—Subtitle E of title IX of the
23	Energy Policy Act of 2005 is amended by adding at
24	the end the following:

1 "SEC. 959D. UNIVERSITY ZERO-EMISSION ENERGY LEADER 2 SHIP PROGRAM.

3 "(a) ESTABLISHMENT.—The Secretary of Energy
4 shall establish a program, to be known as the University
5 Zero-Emission Energy Leadership Program.

6 "(b) USE OF FUNDS.—Amounts made available to
7 carry out the University Zero-Emission Energy Leader8 ship Program—

9 "(1) shall be used to provide financial assist-10 ance for scholarships, fellowships, and research and 11 development projects at institutions of higher edu-12 cation in areas relevant to departmental missions in 13 research, development, demonstration, and deploy-14 ment activities for zero-emission technologies;

15 "(2) may be used to provide financial assistance 16 to businesses to offset the costs of a partnership 17 with, or investments in, institutions of higher edu-18 cation in areas relevant to departmental missions in 19 research, development, demonstration, and deploy-20 ment activities for zero-emission technologies; and

"(3) may be used to provide financial assistance
for a scholarship, fellowship, or multiyear research
and development project that does not align directly
with a departmental mission, if the activity for
which assistance is provided promotes a zero-emission energy transition.".

1 (2) TABLE OF CONTENTS.—The table of con-2 tents for the Energy Policy Act of 2005 is further 3 amended by adding after the item relating to section 4 959D the following: "Sec. 959D. University Zero-Emission Energy Leadership Program.". 5 (b) REPEAL.—The Energy and Water Development 6 and Related Agencies Appropriations Act, 2009 is amend-7 ed by striking section 313. 8 **SEC. 524. AUTHORIZATION OF APPROPRIATIONS.**

9 There are authorized to be appropriated to carry out
10 this part such sums as may be necessary for each of fiscal
11 years 2022 through 2035.

12 PART 2—CLIMATE RESILIENCY CORPS

13 SEC. 531. ESTABLISHMENT OF THE CLIMATE RESILIENCY

14

CORPS.

(a) GENERAL AUTHORITY.—The President shall establish a wholly owned Government corporation, to be
known as the Climate Resiliency Corps, to employ residents of the United States who are unemployed or underemployed, in the construction, maintenance, and carrying
out of projects of a public nature in connection with, but
not limited to—

- (1) mitigating the effects of disasters and other
 trends related to climate change, including by—
- 24 (A) assessing community resilience to the25 impacts of climate change;

1	(B) collecting, monitoring, and analyzing
2	data related to climate change and disasters;
3	(C) developing a plan to improve commu-
4	nity resilience to the impacts of climate change
5	through resilient infrastructure; and
6	(D) building and maintaining resilient in-
7	frastructure, including by—
8	(i) preserving, protecting, and restor-
9	ing habitat;
10	(ii) stabilizing shorelines;
11	(iii) removing invasive species and
12	planting native species of trees, plants and
13	groundcover;
14	(iv) constructing bioswales and water
15	bars;
16	(v) improving drainage systems
17	through use of permeable surfaces and
18	rain gardens;
19	(vi) removing hazardous fuels;
20	(vii) conducting prescribed burns;
21	(viii) establishing defensible space;
22	(ix) retrofitting buildings; and
23	(x) planting urban forestry, trees, and
24	landscapes;

1	(2) preparing communities for disasters of a
2	type projected as a result of climate change, includ-
3	ing by—
4	(A) organizing community-based resiliency
5	coalitions and working groups;
6	(B) providing disaster preparedness or
7	community emergency response team training
8	to community-based organizations and resi-
9	dents; and
10	(C) providing education on climate change,
11	disaster, and resilience at community-based or-
12	ganizations and schools;
13	(3) responding to disasters, including—
14	(A) establishing and managing volunteers,
15	distribution centers, and shelters;
16	(B) supporting disaster response activities
17	and centers, including fire camps;
18	(C) clearing fallen trees and branches;
19	(D) boarding up windows and doors and
20	tarping roofs; and
21	(E) mucking and gutting homes and build-
22	ings;
23	(4) recovering from disasters, including—
24	(A) clearing debris;

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1	(B) repairing and rebuilding homes and
2	buildings;
3	(C) replanting native trees and plants;
4	(D) restoring habitat; and
5	(E) stabilizing shoreline and hillsides; and
6	(5) other activities that are determined appro-
7	priate by the Chief Executive Officer and the Board
8	of Directors of the Climate Resiliency Corps.
9	(b) Enhancing Climate Resiliency in Dis-
10	PROPORTIONATELY IMPACTED COMMUNITIES.—Not less
11	than 40 percent of the amounts made available for the
12	Climate Resiliency Corps shall be used to enhance the cli-
13	mate resiliency of environmental justice communities
14	through activities described in subsection (a).
15	(c) Incorporation.—
16	(1) IN GENERAL.—The Advisory Committee
17	shall be deemed the incorporator of Climate Resil-
18	iency Corps, and the incorporation shall be held to
19	have been effected from the date of the first meeting
20	of the Advisory Committee.
21	(2) CORPORATE OFFICE.—The Climate Resil-
22	iency Corps shall—
23	(A) maintain an office in the District of
24	Columbia; and

(B) for purposes of venue in civil actions,
 be considered to be a resident of the District of
 Columbia.

4 (d) ROLE OF FEDERAL AGENCIES.—To operate the 5 Climate Resiliency Corps, the President may authorize partnerships with existing Federal departments and agen-6 7 cies, including the Department of Labor, the Department 8 of Defense, the National Guard Bureau, the Department 9 of the Interior, the Department of Agriculture, the Army 10 Corps of Engineers, the Department of Transportation, the Department of Energy, the Environmental Protection 11 Agency, and other Federal Governmental corporations. 12

13 SEC. 532. BOARD OF DIRECTORS OF THE CLIMATE RESIL14 IENCY CORPS.

15 (a) VOTING MEMBERSHIP OF THE BOARD OF DIREC-16 TORS.—

17 (1) IN GENERAL.—The Climate Resiliency
18 Corps shall have a Board of Directors (hereinafter
19 referred to as the Board of Directors) consisting
20 of—

21 (A) 7 voting members appointed by the
22 President, by and with the advice and consent
23 of the Senate, not more than 4 of whom shall
24 be from the same political party; and

1	(B) the chief executive officer of the Cli-
2	mate Resiliency Corps.
3	(2) CHAIRPERSON.—One of the voting members
4	of the Board of Directors shall be designated by the
5	President to serve as Chairperson thereof.
6	(3) Congressional recommendations.—Not
7	later than 30 days after the date of enactment of
8	this Act, the majority leader of the Senate, the mi-
9	nority leader of the Senate, the Speaker of the
10	House of Representatives, and the minority leader of
11	the House of Representatives shall each submit a
12	recommendation to the President for appointment of
13	a voting member of the Board of Directors, after
14	consultation with the appropriate committees of
15	Congress.
16	(b) Powers and Duties of the Board of Direc-
17	TORS.—The Board of Directors shall—
18	(1) as soon as is practicable after the date on
19	which all members are appointed, approve or dis-
20	approve senior management appointed by the chief
21	executive officer;
22	(2) not later than 180 days after the date on
23	which all members are appointed—
24	(A) develop and approve the bylaws of the
25	Climate Resiliency Corps, including bylaws for

1	the regulation of the affairs and conduct of the
2	business of the Climate Resiliency Corps;
3	(B) establish subcommittees, including an
4	audit committee that is composed solely of
5	members of the Board of Directors who are
6	independent of the senior management of the
7	Corps;
8	(C) develop and approve, in consultation
9	with senior management, a conflict-of-interest
10	policy for the Board of Directors and for senior
11	management;
12	(D) approve or disapprove internal policies
13	that the chief executive officer shall submit to
14	the Board of Directors; and
15	(E) approve or disapprove a 1-year busi-
16	ness plan and budget for the Climate Resiliency
17	Corps;
18	(3) ensure that the Climate Resiliency Corps is
19	at all times operated in a manner that is consistent
20	with this part, by—
21	(A) monitoring and assessing the effective-
22	ness of the Corps;
23	(B) periodically reviewing internal policies;
24	(C) reviewing and approving annual busi-
25	ness plans, annual budgets, and long-term

1	strategies submitted by the chief executive offi-
2	cer;
3	(D) reviewing and approving annual re-
4	ports submitted by the chief executive officer;
5	(E) engaging one or more external audi-
6	tors; and
7	(F) reviewing and approving all changes to
8	the organization of senior management;
9	(4) establish such other criteria, requirements,
10	or procedures as the Board of Directors may con-
11	sider to be appropriate in carrying out this part;
12	(5) serve as the primary liaison for the Climate
13	Resiliency Corps in interactions with Congress, the
14	executive branch, and State and local governments,
15	and to represent the Climate Resiliency Corps in
16	such interactions and others;
17	(6) approve by a vote of 5 of the 7 voting mem-
18	bers of the Board of Directors any changes to the
19	bylaws or internal policies of the Climate Resiliency
20	Corps;
21	(7) have the authority and responsibility—
22	(A) to oversee entering into and carry out
23	such contracts, leases, cooperative agreements,
24	or other transactions as are necessary to carry
25	out this part with—

- 1 (i) any Federal department or agency; 2 (ii) any State, territory, or Tribe of the United States; and 3 4 (iii) any individual, public-private partnership, firm, association, or corpora-5 6 tion; 7 (B) to approve of the acquisition, lease, 8 pledge, exchange, and disposal of real and per-9 sonal property by the Climate Resiliency Corps 10 and otherwise approve the exercise by the Cli-11 mate Resiliency Corps of all of the usual inci-12 dents of ownership of property, to the extent 13 that the exercise of such powers is appropriate 14 to and consistent with the purposes of the 15 Corps; 16 (C) to determine the character of, and the 17 necessity for, the obligations and expenditures 18
 - necessity for, the obligations and expenditures of the Climate Resiliency Corps, and the manner in which the obligations and expenditures will be incurred, allowed, and paid, subject to this part and other Federal law specifically applicable to wholly owned Federal corporations;

(D) to sue or be sued in the corporate capacity of the Climate Resiliency Corps in any
court of competent jurisdiction; and

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1	(E) to review all projects recommended by
2	the chief executive officer for funding and to
3	approve, postpone, or deny the same by major-
4	ity vote; and
5	(8) delegate to the chief executive officer those
6	duties that the Board of Directors determines appro-
7	priate.
8	(c) VOTING RIGHTS.—Each voting member of the
9	Board of Directors shall have an equal vote in all decisions
10	of the Board of Directors.
11	(d) QUALIFICATIONS OF VOTING MEMBERS.—Each
12	voting member of the Board of Directors shall—
13	(1) be a citizen of the United States; and
14	(2) have significant demonstrated expertise in—
15	(A) the management and administration of
16	an institution or program relevant to the oper-
17	ation of the Climate Resiliency Corps; or
18	(B) the financing, development, or oper-
19	ation of infrastructure projects.
20	(e) TERMS.—
21	(1) IN GENERAL.—Except as otherwise pro-
22	vided in this part, each voting member of the Board
23	of Directors shall be appointed for a term of 4 years.
24	(2) INITIAL STAGGERED TERMS.—Of the voting
25	members first appointed to the Board of Directors—

1	(A) the initial Chairperson and 3 of the
2	other voting members shall each be appointed
3	for a term of 4 years; and
4	(B) the remaining 3 voting members shall
5	each be appointed for a term of 2 years.
6	(3) DATE OF INITIAL NOMINATIONS.—The ini-
7	tial nominations for the appointment of all voting
8	members of the Board of Directors shall be made
9	not later than 60 days after the date of enactment
10	of this Act.
11	(4) BEGINNING OF TERM.—The term of each of
12	the initial voting members appointed under this sec-
13	tion shall commence immediately upon the date of
14	appointment, except that, for purposes of calculating
15	the term limits specified in this subsection, the ini-
16	tial terms shall each be construed as beginning on
17	January 22 of the year following the date of the ini-
18	tial appointment.
19	(5) VACANCIES.—A vacancy in the position of
20	a voting member of the Board of Directors shall be
21	filled by the President, and a member appointed to
22	fill a vacancy on the Board of Directors occurring
23	before the expiration of the term for which the pred-
24	ecessor was appointed shall be appointed only for
25	the remainder of that term.

1 (f) MEETINGS.—

2	(1) OPEN TO THE PUBLIC; NOTICE.—Except as
3	provided in paragraph (3), all meetings of the Board
4	of Directors shall be—
5	(A) open to the public; and
6	(B) preceded by a public notice of at least
7	14 days.
8	(2) FREQUENCY.—The Board of Directors shall
9	meet not later than 60 days after the date on which
10	all members of the Board of Directors are first ap-
11	pointed, at least quarterly thereafter, and otherwise
12	at the call of either the Chairperson or 5 voting
13	members of the Board of Directors.
14	(3) EXCEPTION FOR CLOSED MEETINGS.—The
15	voting members of the Board of Directors may, by
16	majority vote, close a meeting to the public if, dur-
17	ing the meeting to be closed, there is likely to be dis-
18	closed proprietary or sensitive information regarding
19	an infrastructure project under consideration for as-
20	sistance pursuant to this part. The Board of Direc-
21	tors shall prepare minutes of any meeting that is
22	closed to the public, and shall make such minutes
23	available as soon as practicable, not later than 1
24	year after the date of the closed meeting, with any

necessary redactions to protect any proprietary or
 sensitive information.

3 (4) QUORUM.—For purposes of meetings of the
4 Board of Directors, 5 voting members of the Board
5 of Directors shall constitute a quorum.

6 (g) Compensation of Members.—Each voting 7 member of the Board of Directors shall be compensated 8 at a rate equal to the daily equivalent of the annual rate 9 of basic pay prescribed for level III of the Executive 10 Schedule under section 5314 of title 5, United States Code, for each day (including travel time) during which 11 the member is engaged in the performance of the duties 12 of the Board of Directors. 13

(h) CONFLICTS OF INTEREST.—A voting member of
the Board of Directors may not participate in any review
or decision affecting a project under consideration under
this part, if the member has or is affiliated with an entity
who has a financial interest in such project.

19 SEC. 533. CHIEF EXECUTIVE OFFICER OF THE CLIMATE RE20 SILIENCY CORPS.

(a) IN GENERAL.—The chief executive officer of the
Climate Resiliency Corps (hereinafter referred to as the
"chief executive officer") shall be a nonvoting member of
the Board of Directors, who shall be responsible for directing all activities of the Climate Resiliency Corps, and shall

support the Board of Directors as set forth in this part,
 as the Board of Directors determines necessary or appro priate.

4 (b) APPOINTMENT AND TENURE OF THE CHIEF EX5 ECUTIVE OFFICER.—

6 (1) IN GENERAL.—The President shall appoint
7 the chief executive officer by and with the advice and
8 consent of the Senate.

9 (2) TERM.—The chief executive officer shall be
10 appointed for a term of 6 years.

(3) VACANCIES.—Any vacancy in the office of
the chief executive officer shall be filled by the President, and the person appointed to fill a vacancy in
that position occurring before the expiration of the
term for which the predecessor was appointed shall
be appointed only for the remainder of that term.

17 (c) QUALIFICATIONS.—The chief executive officer—

18 (1) shall have significant expertise in the fi19 nancing and development of infrastructure projects;
20 and

21 (2) may not—

(A) hold any other public office;

23 (B) have any financial interest in a project24 then being considered by the Board of Direc-

tors, unless that interest is placed in a blind trust; or

3 (C) have any financial interest in an in-4 vestment institution or its affiliates or any 5 other entity seeking or likely to seek financial 6 assistance for any infrastructure project from 7 the Climate Resiliency Corps, unless any such 8 interest is placed in a blind trust for the tenure 9 of the service of the chief executive officer plus 10 2 additional years.

(d) RESPONSIBILITIES.—The chief executive officer
shall have such executive functions, powers, and duties as
may be prescribed by this part, the bylaws of the Climate
Resiliency Corps, or the Board of Directors, including—

(1) responsibility for the development and implementation of the strategy of the Climate Resiliency Corps, including—

18 (A) the development and submission to the
19 Board of Directors of the annual business plans
20 and budget of the Climate Resiliency Corps;
21 (B) the development and submission to the

Board of Directors of a long-term strategic plan
for the Climate Resiliency Corps; and

24 (C) the development, revision, and submis-25 sion to the Board of Directors of internal poli-

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1	cies of the Climate Resiliency Corps, includ-
2	ing—
3	(i) policies regarding the application
4	and approval process for projects to be car-
5	ried out pursuant to this part, including—
6	(I) guidelines for the selection
7	and approval of projects;
8	(II) specific criteria for deter-
9	mining eligibility for project selection;
10	and
11	(III) operational guidelines; and
12	(ii) the estimated timeline for submis-
13	sion, approval, and completion of projects;
14	(2) responsibility for the management and over-
15	sight of the daily activities, decisions, operations,
16	and personnel of the Climate Resiliency Corps, in-
17	cluding—
18	(A) the appointment of senior manage-
19	ment, subject to approval by the voting mem-
20	bers of the Board of Directors, and the hiring
21	and termination of all other Climate Resiliency
22	Corps personnel;
23	(B) ensuring, in conjunction with the gen-
24	eral counsel, that all activities of the Climate

1	Resiliency Corps are carried out in compliance
2	with applicable law;
3	(C) overseeing the involvement of the Cli-
4	mate Resiliency Corps in all projects, includ-
5	ing—
6	(i) developing eligible projects;
7	(ii) determining the terms and condi-
8	tions of all infrastructure projects;
9	(iii) monitoring all infrastructure
10	projects;
11	(iv) preparing and submitting for ap-
12	proval by the Board of Directors the docu-
13	ments required under paragraph (1) ; and
14	(v) ensuring the implementation of de-
15	cisions of the Board of Directors; and
16	(D) such other activities as may be nec-
17	essary or appropriate in carrying out this part.
18	(e) Compensation.—
19	(1) IN GENERAL.—Any compensation assess-
20	ment or recommendation by the chief executive offi-
21	cer under this section shall be without regard to the
22	provisions of chapter 51 or subchapter III of chapter
23	53 of title 5, United States Code.
24	(2) Considerations.—The compensation as-
25	sessment or recommendation required under this

subsection shall take into account merit principles,
 where applicable, as well as the education, experi ence, level of responsibility, geographic differences,
 and retention and recruitment needs in determining
 compensation of personnel.

6 SEC. 534. SENIOR MANAGEMENT.

7 (a) APPOINTMENT OF SENIOR MANAGEMENT.—The
8 chief executive officer shall appoint such senior managers
9 as are necessary to support the chief executive officer in
10 the discharge of the responsibilities of the chief executive
11 officer, as approved by a majority vote of the voting mem12 bers of the Board of Directors.

(b) REMOVAL OF SENIOR MANAGEMENT.—Any member of senior management may be removed, either by a
majority of the voting members of the Board of Directors
upon request by the chief executive officer, or otherwise
by vote of not fewer than 5 voting members of the Board
of Directors.

19 (c) SENIOR MANAGEMENT.—

20 (1) IN GENERAL.—Each member of senior
21 management shall report directly to the chief execu22 tive officer.

- 23 (2) DUTIES AND RESPONSIBILITIES.—
 24 (A) CHIEF FINANCIAL OFFICER.—The
- 25 chief financial officer shall be responsible for all

1 financial functions of the Corps, provided that, 2 at the discretion of the Board of Directors, spe-3 cific functions of the chief financial officer may 4 be delegated externally. (B) CHIEF COMPLIANCE OFFICER.—The 5 6 chief compliance officer shall be responsible for 7 all functions of the Corps relating to internal 8 audits, accounting safeguards, and the enforce-9 ment of such safeguards and other applicable 10 requirements. 11 COUNSEL.—The general (C) General 12 counsel shall be responsible for all functions of 13 the Corps relating to legal matters and, in con-14 sultation with the chief executive officer, shall 15 be responsible for ensuring that the Corps com-16 plies with all applicable law. 17 (D) CHIEF OPERATIONS OFFICER.—The 18 chief operations officer shall be responsible for 19 all operational functions of the Corps, including 20 those relating to the continuing operations and 21 performance of all infrastructure projects. 22 (d) CONFLICTS OF INTEREST.-No individual ap-23 pointed to senior management may— 24 (1) hold any other public office; or

(2) have any financial interest in a project
 being considered by the Board of Directors, unless
 that interest is placed in a blind trust.

4 SEC. 535. GENERAL EMPLOYMENT WITHIN THE CLIMATE 5 RESILIENCY CORPS.

6 (a) EMPLOYMENT PREFERENCE.—If the President 7 determines that amounts appropriated to carry out the 8 Climate Resiliency Corps for a fiscal year will be insuffi-9 cient to employ all of the citizens of the United States 10 who are seeking or likely to seek employment in the Climate Resiliency Corps, and to continue the employment 11 12 of current employees who desire to remain in the Climate 13 Resiliency Corps, the President shall give priority to the hiring of additional persons in the Climate Resiliency 14 15 Corps to—

16 (1) energy transition workers;

17 (2) unemployed veterans of the Armed Forces
18 and unemployed members of the reserve components
19 of the Armed Forces;

20 (3) unemployed citizens who have exhausted21 their entitlement to unemployment compensation;

(4) unemployed citizens, who immediately before employment in the Climate Resiliency Corps,
are eligible for unemployment compensation payable
under any State law or Federal unemployment com-

pensation law, including any additional compensa tion or extended compensation under such laws; and
 (5) other citizens from minority groups, includ ing, religious and ethnic minorities, women, and in dividuals with disabilities.

6 (b) HOUSING AND CARE OF EMPLOYEES.—The Cli-7 mate Resiliency Corps may provide housing for persons 8 employed and furnish them with such subsistence, cloth-9 ing, medical attendance and hospitalization, and cash al-10 lowance, as may be necessary during the duration of em-11 ployment.

(c) TRANSPORTATION.—The Climate Resiliency
Corps may provide for the transportation of persons employed to and from the places of employment.

15 SEC. 536. PROJECT APPLICATIONS.

16 To be eligible for a project to be completed by the 17 Climate Resiliency Corps under this part, an entity shall 18 submit directly to the chief executive officer an application 19 in such manner and containing such information as the 20 chief executive officer may require.

21 SEC. 537. FUNDING.

There is authorized to be appropriated to carry out this part \$10,000,000,000, to remain available until expended.

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