118TH CONGRESS	C	
2nd Session	D.	

To require the Administrator of the National Oceanic and Atmospheric Administration to establish a Climate Change Education Program, and for other purposes.

IN THE SENATE OF THE UNITED STATES

Mr. Markey (for himself, Mr. Blumenthal, Mr. Booker, Ms. Butler, Mr. Cardin, Mr. Durbin, Mr. Heinrich, Ms. Hirono, Ms. Klobuchar, Mr. Luján, Mr. Menendez, Mr. Merkley, Mr. Murphy, Mr. Padilla, Mr. Sanders, Ms. Smith, Ms. Stabenow, Mr. Van Hollen, Ms. Warren, Mr. Welch, and Mr. Wyden) introduced the following bill; which was read twice and referred to the Committee on

A BILL

To require the Administrator of the National Oceanic and Atmospheric Administration to establish a Climate Change Education Program, 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.
- 4 This Act may be cited as the "Climate Change Edu-
- 5 cation Act".
- 6 SEC. 2. FINDINGS.
- 7 Congress makes the following findings:

1	(1) The evidence for human-induced climate
2	change is overwhelming and undeniable.
3	(2) According to the Fifth National Climate As-
4	sessment, atmospheric carbon can be significantly
5	reduced through conservation, by shifting to renew-
6	able energy sources such as solar, wind, tidal, and
7	geothermal, and by increasing the efficiency of build-
8	ings, including domiciles, and transportation.
9	(3) Providing clear information about climate
10	change, in a variety of forms, can remove the fear
11	and the sense of helplessness and encourage individ-
12	uals and communities to take action.
13	(4) Implementation of measures that promote
14	energy efficiency, conservation, and renewable en-
15	ergy will greatly reduce human impacts on the envi-
16	ronment.
17	(5) Informing people of new technologies and
18	programs as they become available will ensure max-
19	imum understanding and maximum effect of those
20	measures.
21	(6) More than 3,500,000 students graduate
22	from high schools and colleges in the United States
23	each year, armed with attitudes, skills, and knowl-
24	edge about the climate that inform their actions.

1 (7) The effect on the climate, positive or nega-2 tive, of each of those 3,500,000 students lasts be-3 yond a lifetime. 4 (8) Those students need to be prepared to im-5 plement changes in professional and personal prac-6 tices, to support and help develop new technology 7 and policy, and to address the coming social and 8 economic challenges and opportunities arising from a 9 changing climate. 10 (9) It has been demonstrated that the people of 11 the United States overwhelmingly support teaching 12 students about the causes, consequences, and poten-13 tial solutions to climate change in all 50 States and 14 more than 3,000 counties across the United States. 15 (10) Only 30 percent of middle school science 16 teachers and 45 percent of high school science teach-17 ers understand the extent of the scientific consensus 18 on climate change. 19 (11) Section 4002(a) of the America COM-20 PETES Act (33 U.S.C. 893a(a)) requires the Na-21 tional Oceanic and Atmospheric Administration to 22 "conduct, develop, support, promote, and coordinate 23 formal and informal educational activities at all levels''. 24

1	(12) The existing Environmental Literacy Pro-
2	gram of the National Oceanic and Atmospheric Ad-
3	ministration was established in 2005 by the Bush
4	administration as a backbone to an agency effort to
5	advance sound environmental education for children
6	and adults.
7	(13) Expanding the popular Environmental Lit-
8	eracy Program (less than 5 percent of applications
9	in 2020 received funding) to include climate edu-
10	cation for professional educators and students is
11	within the established expertise of the National Oce-
12	anic and Atmospheric Administration and will effec-
13	tively leverage critical resources for foundational
13	
14	learning and career preparation.
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14	learning and career preparation.
14 15	learning and career preparation. SEC. 3. DEFINITIONS.
141516	learning and career preparation. SEC. 3. DEFINITIONS. In this Act:
14151617	learning and career preparation. SEC. 3. DEFINITIONS. In this Act: (1) CLIMATE CHANGE EDUCATION.—The term
14 15 16 17 18	learning and career preparation. SEC. 3. DEFINITIONS. In this Act: (1) CLIMATE CHANGE EDUCATION.—The term "climate change education" means nonformal and
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14151617181920	learning and career preparation. SEC. 3. DEFINITIONS. In this Act: (1) CLIMATE CHANGE EDUCATION.—The term "climate change education" means nonformal and formal interdisciplinary learning at all age levels about—
14 15 16 17 18 19 20 21	learning and career preparation. SEC. 3. DEFINITIONS. In this Act: (1) CLIMATE CHANGE EDUCATION.—The term "climate change education" means nonformal and formal interdisciplinary learning at all age levels about— (A) climate change, climate adaptation and
14 15 16 17 18 19 20 21 22	learning and career preparation. SEC. 3. DEFINITIONS. In this Act: (1) CLIMATE CHANGE EDUCATION.—The term "climate change education" means nonformal and formal interdisciplinary learning at all age levels about— (A) climate change, climate adaptation and mitigation, climate resilience, and climate jus-

1	and climate justice on the environmental, en-
2	ergy, social, and economic systems of the
3	United States.
4	(2) CLIMATE JUSTICE.—The term "climate jus-
5	tice" means the fair treatment and meaningful in-
6	volvement of all people, regardless of race, color, cul-
7	ture, national origin, or income, with respect to the
8	development, implementation, and enforcement of
9	policies and projects to ensure that each person en-
10	joys the same degree of protection from the adverse
11	effects of climate change.
12	(3) CLIMATE LITERACY.—The term "climate
13	literacy" means competence or knowledge of climate
14	change, its causes and impacts, and the technical,
15	scientific, economic, and social dynamics of prom-
16	ising solutions.
17	(4) Environmental justice.—The term "en-
18	vironmental justice" means the fair treatment and
19	meaningful involvement of all people, regardless of
20	race, color, culture, national origin, or income, with
21	respect to the development, implementation, and en-
22	forcement of environmental laws, regulations, and
23	policies to ensure that each person enjoys—
24	(A) the same degree of protection from en-
25	vironmental and health hazards; and

1	(B) equal access to any Federal agency ac-
2	tion on environmental justice issues in order to
3	have a healthy environment in which to live,
4	learn, work, and recreate.
5	(5) Environmental justice community.—
6	The term "environmental justice community" means
7	a community with significant representation of com-
8	munities of color, low-income communities, or Tribal
9	and indigenous communities that experiences, or is
10	at risk of experiencing, higher or more adverse
11	human health or environmental effects as compared
12	to other communities.
13	(6) Green economy.—The term "green econ-
14	omy" means an economy that results in improved
15	human and economic well-being and social equity by
16	significantly reducing environmental risks and eco-
17	logical scarcities.
18	(7) Institution of higher education.—The
19	term "institution of higher education" has the
20	meaning given the term in section 101 of the Higher
21	Education Act of 1965 (20 U.S.C. 1001).
22	(8) Local educational agency; state edu-
23	CATIONAL AGENCY.—The terms "local educational
24	agency" and "State educational agency" have the
25	meanings given those terms in section 8101 of the

1	Elementary and Secondary Education Act of 1965
2	(20 U.S.C. 7801).
3	(9) Nonformal.—The term "nonformal"
4	means, with respect to learning, out-of-school edu-
5	cational programming carried out by nonprofit orga-
6	nizations and public agencies.
7	(10) Nonprofit organization.—The term
8	"nonprofit organization" means an organization de-
9	scribed in section $501(c)(3)$ of the Internal Revenue
10	Code of 1986 and exempt from taxation under sec-
11	tion 501(a) of that Code.
12	SEC. 4. CLIMATE CHANGE EDUCATION PROGRAM.
13	Not later than 1 year after the date of the enactment
14	of this Act, the Administrator of the National Oceanic and
15	Atmospheric Administration shall establish a Climate
16	Change Education Program within the Office of Edu-
17	cation of the Administration to—
18	(1) increase the climate literacy of the United
19	States by broadening the understanding of climate
20	change, including possible long-term and short-term
21	consequences, disproportionate impacts of those con-
22	sequences, and potential solutions;
23	(2) apply the latest scientific and technological
24	discoveries, including through the use of the sci-
25	entific assets of the Administration, to provide for-

1	mal and nonformal learning opportunities to individ-
2	uals of all ages, including individuals of diverse cul-
3	tural and linguistic backgrounds; and
4	(3) emphasize actionable information to help
5	people understand and promote implementation of
6	new technologies, jobs, career training, programs
7	and incentives related to climate change, climate ad-
8	aptation and mitigation, climate resilience, climate
9	justice, and environmental justice.
10	SEC. 5. GRANTS AND COOPERATIVE AGREEMENTS.
11	(a) In General.—Not later than 1 year after the
12	date of the enactment of this Act, as part of the Climate
13	Change Education Program established under section 4
14	the Administrator of the National Oceanic and Atmos-
15	pheric Administration shall establish a program to award
16	grants to, or establish cooperative agreements with, the
17	following:
18	(1) State educational agencies, in partnership
19	with local educational agencies and local nonprofit
20	organizations, and, subject to subsection (c), local
21	educational agencies—
22	(A) for the development and implementa-
23	tion of aspects of climate literacy plans for
24	grades 4 through 12 formal and nonformal cli-
25	mate change education that—

1	(i) are aligned with State education
2	standards; and
3	(ii) ensure that students graduate
4	from high school with climate literacy; and
5	(B) for the implementation of projects
6	that—
7	(i) in the case of State educational
8	agencies, include—
9	(I) relevant training and profes-
10	sional development for educators,
11	which may include tiered mentorship
12	frameworks;
13	(II) integration of key climate
14	change concepts into State education
15	standards for science, technology, en-
16	gineering, and mathematics (STEM),
17	civics and social studies, career and
18	technical education, and other rel-
19	evant subject areas during the next
20	revision of such standards;
21	(III) development of climate
22	change education frameworks and
23	model curricula and curation and dis-
24	semination of existing such frame-
25	works and curricula;

1	(IV) creation of applied learning
2	project-based models, particularly
3	those that allow for student leadership
4	in project development and applied
5	field work, such as models making op-
6	timum use of green features improve-
7	ments, such as low-cost environmental
8	monitoring sensors, to school facilities
9	such as energy systems, lighting sys-
10	tems, food systems, water manage-
11	ment systems, waste management sys-
12	tems, and school grounds; and
13	(V) incorporation of climate
14	change mitigation and green tech-
15	nologies into new and existing high-
16	quality career and technical education
17	career pathways and work-based
18	learning experiences in high-demand
19	climate-related jobs, including devel-
20	opment of partnerships with labor or-
21	ganizations, trade organizations, and
22	apprenticeship programs; and
23	(ii) in the case of local educational
24	agencies—

1	(I) develop, modify, or implement
2	district-level plans to advance climate
3	change education that consider facili-
4	ties, curriculum, environmental health,
5	professional development for edu-
6	cators, student experiences, and eq-
7	uity; and
8	(II) support community partner-
9	ships among local educational agen-
10	cies, nonformal education providers,
11	community-based organizations, and
12	other partners to advance climate
13	change education priorities.
14	(2) Institutions of higher education and net-
15	works or partnerships of such institutions to engage
16	teams of faculty and students to develop applied cli-
17	mate research and deliver to local communities di-
18	rect services related to local climate mitigation and
19	adaptation issues, with priority given to projects
20	that—
21	(A) foster long-term campus-community
22	partnerships;
23	(B) show potential to scale work beyond
24	the term of the grant or cooperative agreement;

I	(C) involve significant student input in the
2	project development process;
3	(D) are inclusive for all segments of the
4	population; and
5	(E) promote equitable and just outcomes.
6	(3) Professional associations and academic dis-
7	ciplinary societies for projects that build capacity at
8	the State and national levels for continuing edu-
9	cation by practicing professionals and the general
10	public in green economy fields.
11	(4) Youth corps organizations to engage in
12	community-based climate mitigation and adaptation
13	work that includes a substantive educational compo-
14	nent.
15	(b) Communities of Practice.—The Climate
16	Change Education Program shall establish communities of
17	practice with respect to each of paragraphs (1) through
18	(4) of subsection (a) in order to accelerate learning.
19	(c) Local Educational Agencies.—The Adminis-
20	trator of the National Oceanic and Atmospheric Adminis-
21	tration may not award a grant to, or establish a coopera-
22	tive agreement with, a local educational agency in any fis-
23	cal year under paragraph (1) of subsection (a) unless
24	amounts appropriated for grants and cooperative agree-

1	ments under such subsection for that fiscal year exceed
2	\$5,000,000.
3	(d) Allocation of Amounts.—
4	(1) In general.—Except as provided in para-
5	graph (2), amounts appropriated for grants and co-
6	operative agreements under subsection (a) shall be
7	allocated as follows:
8	(A) 50 percent for grants and cooperative
9	agreements under paragraph (1) of such sub-
10	section.
11	(B) 30 percent for grants and cooperative
12	agreements under paragraph (2) of such sub-
13	section.
14	(C) 10 percent for grants and cooperative
15	agreements under paragraph (3) of such sub-
16	section.
17	(D) 10 percent for grants and cooperative
18	agreements under paragraph (4) of such sub-
19	section.
20	(2) Exception.—If amounts appropriated for
21	grants and cooperative agreements under subsection
22	(a) do not exceed \$5,000,000 in any fiscal year, the
23	Administrator of the National Oceanic and Atmos-
24	pheric Administration may use in that fiscal year—

1	(A) 60 percent of such amounts for grants
2	and cooperative agreements under paragraph
3	(1) of such subsection; and
4	(B) 40 percent of such amounts for grants
5	and cooperative agreements under paragraph
6	(2) of such subsection.
7	(3) Environmental justice communities.—
8	40 percent of all amounts allocated for grants and
9	cooperative agreements under paragraphs (2) and
10	(4) of subsection (a) shall be directed into environ-
11	mental justice communities.
12	(e) Grant and Cooperative Agreement Min-
13	IMUM.—If amounts appropriated for grants and coopera-
14	tive agreements under subsection (a) exceed \$5,000,000
15	in any fiscal year, any grant awarded to, or cooperative
16	agreement established with, an entity under paragraph (1)
17	of such subsection shall provide the entity a minimum of
18	\$1,000,000 in that fiscal year.
19	SEC. 6. ANNUAL REPORT.
20	Not later than 2 years after the date of the enact-
21	ment of this Act, and annually thereafter, the Adminis-
22	trator of the National Oceanic and Atmospheric Adminis-
23	tration shall submit to Congress a report that evaluates
24	the scientific merits, educational effectiveness, and broad-
25	er effects of activities carried out under this Act.

1 SEC. 7. AUTHORIZATION OF APPROPRIATIONS.

- 2 There is authorized to be appropriated to the Na-
- 3 tional Oceanic and Atmospheric Administration to carry
- 4 out this Act \$50,000,000 for each of fiscal years 2025
- 5 through 2030.