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(Original	Signature	of Member)

118th CONGRESS 2D Session



To direct the Secretary of Transportation to establish a program to support the research, development, demonstration, and deployment of zero-emission vessels and retrofit or replacement of existing vessels with zeroemission technologies and charging or fueling infrastructure, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

Ms. BARRAGÁN introduced the following bill; which was referred to the Committee on _____

A BILL

- To direct the Secretary of Transportation to establish a program to support the research, development, demonstration, and deployment of zero-emission vessels and retrofit or replacement of existing vessels with zero-emission technologies and charging or fueling infrastructure, 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,

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1 SECTION 1. SHORT TITLE.

2 This Act may be cited as the "Zero-Emission Vessel3 Innovation Act".

4 SEC. 2. ZERO-EMISSION VESSEL INNOVATION FUND.

5 (a) IN GENERAL.—The Secretary of Transportation shall establish a program to be known as the "Zero-Emis-6 7 sion Vessel Innovation Program" (in this section referred to as the "Program") to support the research, design, de-8 velopment, demonstration, and deployment of zero-emis-9 sion vessels and retrofit or replacement of existing vessels 10 11 with zero-emission technologies and charging or fueling in-12 frastructure.

(b) MECHANISMS.—In carrying out the Program, the
Secretary may provide eligible entities with finance mechanisms to support eligible projects, including grants, lowinterest loans, and loan guarantees.

(c) PRIORITIZATION.—In carrying out the Program,
the Secretary shall prioritize eligible projects that—

19 (1) advance the efficiency and reliability, and
20 reduce the costs, of zero-emission vessel develop21 ment;

(2) improve the components, controls, manufacturing, materials, and infrastructure that support
zero-emission vessels;

25 (3) reduce underwater noise emissions from ves-26 sels;

3
(4) emphasize technologies with environmental
co-benefits such as biofouling reduction;
(5) advance synergies between offshore renew-
able energy development and maritime
decarbonization and ocean noise, such as through
the deployment of zero-emission and quiet offshore
wind support vessels;
(6) utilizes a project labor agreement or com-
munity benefits agreement;
(7) advance environmental justice and engage
communities affected by maritime transport in all
phases of the project including the development,
planning, and execution of the project; and
(8) support workforce training and development
for the research, development, demonstration, de-
ployment, and maintenance of zero-emission and
clean alternative fuel vessels and charging or fueling
infrastructure.

19 (d) TRANSPARENCY.—In carrying out the Program, the Secretary shall make publicly available each year on 20 the website of the Department of Transportation applica-21 tions submitted for funding mechanisms under this sec-22 tion, including applications selected and not selected for 23 24 funding.

(e) COORDINATION AND LEVERAGING OF RE SOURCES.—In carrying out the Program, the Secretary
 shall, to the maximum extent practicable—

- 4 (1) coordinate with each relevant office in the
 5 Department and any other Federal agency;
- 6 (2) leverage existing resources and programs of
 7 the Department and other relevant Federal agencies;
 8 (3) leverage public-private partnerships; and
- 9 (4) engage and solicit input from environmental
 10 justice communities and environmental organizations
 11 on project impacts and benefits.

(f) ADMINISTRATIVE COSTS.—The Secretary may use
up to 10 percent of the amounts made available to carry
out this section for administrative costs for carrying out
the program under this section.

16 (g) WAGES.—All laborers and mechanics employed by a subgrantee of an eligible entity, and any subgrantee 17 thereof at any tier, to perform construction, alteration, in-18 19 stallation, or repair work that is assisted, in whole or in part, by funding awarded under this section shall be paid 20 21 wages at rates not less than those prevailing on similar 22 construction, alteration, installation, or repair work in the 23 locality as determined by the Secretary of Labor in accord-24 ance with subchapter IV of chapter 31 of title 40, United States Code. 25

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(h) FUNDING.—There is authorized to carry out the
 program under this section \$1,000,000,000 for each of fis cal years 2025 through 2034.

4 (i) PROHIBITION.—No funds made available to carry
5 out this section shall be spent for the study, design, imple6 mentation, or installation of automated vessels, automated
7 vessel operating systems, automated cargo handling sys8 tems on a vessel, or automated cargo handling systems
9 for loading or unloading vessels.

10 (j) DEFINITIONS.—In this section:

(1) AUTOMATED.—The term "automated"
means any vessel or cargo handling system that performs any or all core functions without human operation.

15 (2) CHARGING INFRASTRUCTURE.—The term
16 "charging infrastructure"—

17 (A) means the physical systems, equip18 ment, and facilities necessary to supply elec19 trical power to vessels for the purpose of re20 charging the batteries or energy storage sys21 tems of such vessels; and

(B) includes, with respect to zero emission
vessel technology, shore power facilities, onshore
charging stations, and any associated equip-

1	ment required to support the electrification of
2	maritime transportation.
3	(3) Community benefits agreement.—The
4	term "community benefits agreement" means an
5	agreement signed by community groups and an eligi-
6	ble entity, identifying the community or labor bene-
7	fits the entity agrees to deliver in return for commu-
8	nity support or workforce availability for a project.
9	(4) ELIGIBLE ENTITY.—The term "eligible enti-
10	ty" means—
11	(A) an owner or operator of a United
12	States-flagged vessel;
13	(B) a United States based manufacturer of
14	vessels;
15	(C) manufacturers of components, tech-
16	nologies, or materials that support zero-emis-
17	sion and clean alternative fuel vessels;
18	(D) a port authority;
19	(E) a terminal operator at a port; and
20	(F) academic institutions or nonprofit enti-
21	ties in a joint application with an entity listed
22	in subparagraphs (A) through (E).
23	(5) ELIGIBLE PROJECT.—The term "eligible
24	project" means a project to support the research,

1	design, demonstration, development, and deployment
2	of—
3	(A) zero-emission vessels;
4	(B) clean alternative fuel vessels;
5	(C) vessel energy efficiency technology
6	(such as wind assistance and systems that mini-
7	mize underwater noise emissions);
8	(D) shore power and corresponding vessel
9	technology; and
10	(E) zero-emission and clean alternative
11	fuel infrastructure, including bunkering and
12	storage, for vessels.
13	(6) Environmental co-benefits.—The term
14	"environmental co-benefits" means the additional
15	positive environmental impacts or advantages that
16	arise as a result of implementing a particular policy,
17	technology, or initiative.
18	(7) FUELING INFRASTRUCTURE.—The term
19	"fueling infrastructure" means the infrastructure
20	and facilities essential for supplying, storing, han-
21	dling, and distributing alternative fuels or energy
22	sources used for powering vessels.
23	(8) MARITIME DECARBONIZATION.—The term
24	"maritime decarbonization" means the process of re-
25	ducing or eliminating carbon dioxide emissions asso-

1 ciated with maritime transportation activities and in-2 volves implementing a range of strategies, tech-3 nologies, and policies aimed at mitigating the envi-4 ronmental impact of shipping operations, including 5 the adoption of alternative fuels, energy efficiency 6 measures, operational improvements, and regulatory 7 measures designed to promote the transition to zero 8 emission vessel technologies.

9 (9)Project LABOR AGREEMENT.—The 10 "project labor agreement" means a pre-hire collec-11 tive bargaining agreement with 1 or more labor or-12 ganization that establishes the terms and conditions 13 of employment for a specific construction project 14 and is described in section 8(f) of the National 15 Labor Relations Act (29 U.S.C. 158(f)).

16 (10) CLEAN ALTERNATIVE FUEL.—The term 17 "clean alternative fuel" means a fuel or energy 18 source that results in at least 90 percent fewer 19 greenhouse gas emissions than a baseline of conven-20 tional marine fossil fuel on a life-cycle ("well-to-21 wake") basis, measured in grams of carbon dioxide 22 equivalent emissions per unit of energy, that is prov-23 en to be safe for people, communities, and the ma-24 rine environment.

1 (11) ZERO-EMISSION VESSEL.—The term "zero-2 emission vessel" means a vessel that produces zero 3 emissions of any criteria pollutant, precursor pollut-4 ant, or greenhouse gas, other than water vapor dur-5 ing its operation, typically by utilizing renewable en-6 ergy sources such as wind, clean alternative fuels, 7 and efficiency technologies.

8 SEC. 3. ZERO-EMISSION VESSEL INNOVATION ADVISORY 9 COMMITTEE.

10 (a) ESTABLISHMENT.—Not later than 180 days after 11 the date of enactment of this Act, the Secretary of Trans-12 portation, in coordination with the Executive Director of 13 the Maritime Administration, shall establish an advisory 14 committee, to be known as the "Zero-Emission Vessel In-15 novation Advisory Committee" (in this section referred to 16 as the "Committee".

17 (b) MEMBERSHIP.—

(1) APPOINTMENT.—The Committee shall be
composed of not fewer than 15 members, who shall
be appointed by the Secretary, in coordination with
the Executive Director.

(2) REPRESENTATION.—Members appointed
pursuant to paragraph (1) shall include—

1	(A) not less than 1 representative of each
2	relevant Federal agency, as determined by the
3	Secretary;
4	(B) not less than 2 representatives of labor
5	groups;
6	(C) not less than 3 representatives of the
7	research community, which shall include aca-
8	demia and National Laboratories;
9	(D) not less than 2 representatives of non-
10	governmental environmental justice organiza-
11	tions;
12	(E) not less than 2 representatives of non-
13	governmental environmental organizations;
14	(F) not less than 2 representatives of the
15	maritime industry;
16	(G) not less than 2 representatives of the
17	zero-emissions fuels industry;
18	(H) not less than 1 representative of a
19	State government;
20	(I) not less than 2 representatives from
21	United States ports; and
22	(J) any other individual whom the Sec-
23	retary, in coordination with the Director, deter-
24	mines to be necessary to ensure that the Com-
25	mittee is composed of a diverse group of rep-

1	resentatives of industry, academia, independent
2	researchers, and public and private entities.
3	(3) CHAIR.—The Secretary shall designate a
4	member of the Committee to serve as Chair.
5	(c) DUTIES.—The Committee shall advise the Sec-
6	retary and the Executive Director with respect to the
7	Zero-Emissions Vessel Innovation Fund by—
8	(1) identifying and evaluating any zero-emission
9	shipping technologies being developed by the private
10	sector or other Federal agencies;
11	(2) identifying technology gaps in the private
12	sector in zero-emissions shipping, and making rec-
13	ommendations to address those gaps through the im-
14	plementation of the Fund;
15	(3) surveying and analyzing factors that pre-
16	vent the adoption of zero-emission emissions ship-
17	ping technologies by the private sector;
18	(4) recommending technology screening criteria
19	for technology supported under the fund; and
20	(5) specifying near-term and long-term quali-
21	tative and quantitative objectives relating to the de-
22	velopment of zero-emissions shipping technologies.
23	(d) MEETINGS.—

(1) FREQUENCY.—The Committee shall meet
 not less frequently than 2 times per year, at the call
 of the Chair.
 (2) INITIAL MEETING.—Not later than 30 days

after the date on which the members are appointed
under subsection (b), the Committee shall hold a
first meeting.

8 (e) COMMITTEE REPORT.—

9 (1) IN GENERAL.—Not later than 2 years after 10 the date of enactment of this Act, and not less fre-11 quently than once every 3 years thereafter, the Com-12 mittee shall submit to the Secretary a report on the 13 progress of achieving the purposes of the program 14 described in section 2(a).

15 (2) CONTENTS.—The report under paragraph16 (1) shall include—

17 (A) a description of any technology innova18 tion opportunities identified by the Committee;
12 (D) a description of any technology innova-

19 (B) a description of any technology gaps20 identified by the Committee;

21 (C) an evaluation of the progress of the
22 program and the research, development, and
23 demonstration activities funded;

24 (D) an assessment of the extent to which25 progress has been made under the program in

1	developing commercial, cost-competitive zero-
2	emission shipping technologies; and
3	(E) an assessment of the effectiveness of
4	the program in coordinating efforts within the
5	Department and with other Federal agencies to
6	achieve the purposes of the program.
7	(f) REPORT TO CONGRESS.—Not later than 60 days
8	after receiving a report from the Committee under sub-
9	section (e), the Secretary shall submit a copy of such re-
10	port to the Committee on Transportation and Infrastruc-
11	ture of the House of Representatives and the Senate Com-
12	mittee on Commerce, Science, and Transportation of the
13	Senate.