

114TH CONGRESS
1ST SESSION

H. R. 2220

To promote research, development, and demonstration of marine and hydrokinetic renewable energy technologies, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MAY 1, 2015

Mr. DEUTCH introduced the following bill; which was referred to the
Committee on Science, Space, and Technology

A BILL

To promote research, development, and demonstration of marine and hydrokinetic renewable energy technologies, 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 “Marine and
5 Hydrokinetic Renewable Energy Act of 2015”.

6 **SEC. 2. DEFINITION OF MARINE AND HYDROKINETIC RE-**
7 **NEWABLE ENERGY.**

8 Section 632 of the Energy Independence and Security
9 Act of 2007 (42 U.S.C. 17211) is amended in the matter
10 preceding paragraph (1) by striking “electrical”.

1 **SEC. 3. MARINE AND HYDROKINETIC RENEWABLE ENERGY**
2 **RESEARCH AND DEVELOPMENT.**

3 Section 633 of the Energy Independence and Security
4 Act of 2007 (42 U.S.C. 17212) is amended to read as
5 follows:

6 **“SEC. 633. MARINE AND HYDROKINETIC RENEWABLE EN-**
7 **ERGY RESEARCH AND DEVELOPMENT.**

8 “The Secretary, in consultation with the Secretary of
9 the Interior, the Secretary of Commerce, and the Federal
10 Energy Regulatory Commission, shall carry out a program
11 of research, development, demonstration, and commercial
12 application to accelerate the introduction of marine and
13 hydrokinetic renewable energy production into the United
14 States energy supply, giving priority to fostering acceler-
15 ated research, development, and commercialization of
16 technology, including—

17 “(1) to assist technology development to im-
18 prove the components, processes, and systems used
19 for power generation from marine and hydrokinetic
20 renewable energy resources;

21 “(2) to establish critical testing infrastructure
22 necessary—

23 “(A) to cost effectively and efficiently test
24 and prove the efficacy of marine and
25 hydrokinetic renewable energy devices; and

1 “(B) to accelerate the technological readi-
2 ness and commercialization of those devices;

3 “(3) to support efforts to increase the efficiency
4 of energy conversion, lower the cost, increase the
5 use, improve the reliability, and demonstrate the ap-
6 plicability of marine and hydrokinetic renewable en-
7 ergy technologies by participating in demonstration
8 projects;

9 “(4) to investigate variability issues and the ef-
10 ficient and reliable integration of marine and
11 hydrokinetic renewable energy with the utility grid;

12 “(5) to identify and study critical short- and
13 long-term needs to create a sustainable marine and
14 hydrokinetic renewable energy supply chain based in
15 the United States;

16 “(6) to increase the reliability and survivability
17 of marine and hydrokinetic renewable energy tech-
18 nologies;

19 “(7) to verify the performance, reliability, main-
20 tainability, and cost of new marine and hydrokinetic
21 renewable energy device designs and system compo-
22 nents in an operating environment;

23 “(8) to coordinate and avoid duplication of ac-
24 tivities across programs of the Department and
25 other applicable Federal agencies, including National

1 Laboratories, and to coordinate public-private col-
2 laboration in all programs under this section;

3 “(9) to identify opportunities for joint research
4 and development programs and development of
5 economies of scale between—

6 “(A) marine and hydrokinetic renewable
7 energy technologies; and

8 “(B) other renewable energy and fossil en-
9 ergy programs, offshore oil and gas production
10 activities, and activities of the Department of
11 Defense; and

12 “(10) to support in-water technology develop-
13 ment with international partners using existing co-
14 operative procedures (including memoranda of un-
15 derstanding)—

16 “(A) to allow cooperative funding and
17 other support of value to be exchanged and le-
18 veraged; and

19 “(B) to encourage international research
20 centers and international companies to partici-
21 pate in the development of water technology in
22 the United States and to encourage United
23 States research centers and United States com-
24 panies to participate in water technology
25 projects abroad.”.

1 **SEC. 4. NATIONAL MARINE RENEWABLE ENERGY RE-**
2 **SEARCH, DEVELOPMENT, AND DEMONSTRA-**
3 **TION CENTERS.**

4 Section 634(b) of the Energy Independence and Se-
5 curity Act of 2007 (42 U.S.C. 17213(b)) is amended to
6 read as follows:

7 “(b) PURPOSES.—A Center (in coordination with the
8 Department and National Laboratories) shall—

9 “(1) advance research, development, demonstra-
10 tion, and commercial application of marine and
11 hydrokinetic renewable energy technologies;

12 “(2) support in-water testing and demonstra-
13 tion of marine and hydrokinetic renewable energy
14 technologies, including facilities capable of testing—

15 “(A) marine and hydrokinetic renewable
16 energy systems of various technology readiness
17 levels and scales;

18 “(B) a variety of technologies in multiple
19 test berths at a single location; and

20 “(C) arrays of technology devices; and

21 “(3) serve as information clearinghouses for the
22 marine and hydrokinetic renewable energy industry
23 by collecting and disseminating information on best
24 practices in all areas relating to developing and
25 managing marine and hydrokinetic renewable energy
26 resources and energy systems.”.

1 **SEC. 5. AUTHORIZATION OF APPROPRIATIONS.**

2 Section 636 of the Energy Independence and Security
3 Act of 2007 (42 U.S.C. 17215) is amended by striking
4 “2008 through 2012” and inserting “2016 through
5 2019”.

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