

AMENDMENT TO RULES COMMITTEE PRINT 117–

31

OFFERED BY MR. KILMER OF WASHINGTON

At the end of title VI of division B, add the following:

1 **Subtitle G—Integrated Blue Econ-**
2 **omy and Blue Energy Tech-**
3 **nologies Program**

4 **SEC. 10671. INTEGRATED BLUE ECONOMY AND BLUE EN-**
5 **ERGY TECHNOLOGIES PROGRAM.**

6 (a) IN GENERAL.—The Secretary of Energy shall es-
7 tablish and carry out a program, to be known as the “Inte-
8 grated Blue Economy and Blue Energy Technologies Pro-
9 gram”, under which the Secretary of Energy shall provide
10 funding for research and development of blue energy tech-
11 nologies for purposes of—

12 (1) decarbonizing activities that contribute to
13 the blue economy, including—

14 (A) improving port and other maritime
15 transportation infrastructure;

16 (B) producing marine algae for use as a
17 biofuel, and for other applications; and

1 (C) operating ocean- and water-based tour-
2 ism industries;

3 (2) increasing blue energy generation capacity
4 while reducing the cost to produce such energy;

5 (3) improving performance of blue energy tech-
6 nologies;

7 (4) capturing, removing, and sequestering
8 greenhouse gases, including carbon dioxide and
9 methane, generated or emitted in an aquatic envi-
10 ronment;

11 (5) developing new blue energy market opportu-
12 nities;

13 (6) promoting job creation in the blue economy
14 and blue energy sectors;

15 (7) supporting the development of a skilled, di-
16 verse, and inclusive blue economy and blue energy
17 workforce;

18 (8) remediating and improving coastal and
19 aquatic ecosystems; and

20 (9) addressing technical and development chal-
21 lenges that are unique to operating in marine and
22 freshwater environments, including by—

23 (A) developing tools, sensors, and models
24 to collect and represent baseline information on
25 metocean, geotechnical, geophysical, and bio-

1 logical conditions in marine and freshwater en-
2 vironments;

3 (B) advancing social science related to
4 community and industry engagement to inform
5 future development;

6 (C) conducting feasibility analyses for en-
7 ergy storage and microgrid deployments;

8 (D) planning for power transmission and
9 distribution;

10 (E) advancing technologies for anchoring
11 and mooring systems;

12 (F) addressing challenges of integrating
13 with the bulk-power system, especially in deep
14 water environments;

15 (G) deploying energy storage and charging
16 infrastructure; and

17 (H) developing advanced materials capable
18 of enduring harsh environmental conditions.

19 (b) CROSSCUT BUDGET.—In carrying out the Inte-
20 grated Blue Economy and Blue Energy Technologies Pro-
21 gram, the Secretary of Energy shall prepare a crosscut
22 budget based on the research and development activities
23 conducted by relevant Department of Energy offices, in-
24 cluding the following:

1 (1) The Office of Energy Efficiency and Renew-
2 able Energy.

3 (2) The Office of Science.

4 (3) The Office of Electricity.

5 (4) The Office of Cybersecurity, Energy Secu-
6 rity, and Emergency Response.

7 (5) The Advanced Research Projects Agency—
8 Energy.

9 (6) The Office of Clean Energy Demonstra-
10 tions.

11 (c) AUTHORIZATION OF APPROPRIATIONS.—

12 (1) IN GENERAL.—There is authorized to be
13 appropriated \$75,000,000 for each of fiscal years
14 2022 through 2032 to carry out this section.

15 (2) SUPPLEMENT AND NOT SUPPLANT.—The
16 amounts authorized to be appropriated under this
17 subsection shall supplement, and not supplant, any
18 other amounts made available to the Department of
19 Energy.

20 **SEC. 10672. BLUE ECONOMY CENTER OF EXCELLENCE.**

21 (a) ESTABLISHMENT.—The Secretary of Energy
22 shall establish a Blue Economy Center of Excellence to
23 support the Integrated Blue Economy and Blue Energy
24 Technologies Program established in section 10671.

1 (b) LOCATION.—The Blue Economy Center of Excel-
2 lence shall be co-located at an existing research facility
3 that—

4 (1) is working to develop blue energy tech-
5 nologies;

6 (2) hosts a blue energy research and develop-
7 ment program;

8 (3) is able to investigate and resolve environ-
9 mental and policy-related questions associated with
10 the generation of blue energy; and

11 (4) has direct access to natural ocean-based re-
12 sources and test sites.

13 (c) FACILITIES.—The Secretary of Energy may con-
14 struct new facilities or expand and upgrade existing facili-
15 ties to establish the Blue Economy Center of Excellence
16 under subsection (a).

17 (d) AUTHORIZATION OF APPROPRIATIONS.—There is
18 authorized to be appropriated \$90,000,000 to carry out
19 this section and such amount is authorized to remain
20 available until expended.

21 **SEC. 10673. INTERAGENCY COORDINATION, REPORTING,**
22 **AND OVERSIGHT.**

23 (a) COORDINATION.—In carrying out this subtitle,
24 the Secretary of Energy shall coordinate with—

1 (1) other Federal agencies that share mission
2 objectives with the Integrated Blue Economy and
3 Blue Energy Technologies Program, including the
4 Maritime Administration of the Department of
5 Transportation, the National Science Foundation,
6 the Economic Development Administration of the
7 Department of Commerce, the Bureau of Ocean En-
8 ergy Management, the National Marine Fisheries
9 Service, the United States Army Corps of Engineers,
10 the Bureau of Reclamation, the National Oceanic
11 and Atmospheric Administration, and the National
12 Institute of Standards and Technology; and

13 (2) State and Tribal government agencies, insti-
14 tutions of higher education, nonprofit research insti-
15 tutions, and National Laboratories.

16 (b) ANNUAL BUDGET MATERIALS.—The Secretary of
17 Energy shall include in the Department of Energy’s an-
18 nual budget materials submitted to the Office of Manage-
19 ment and Budget pursuant to section 1105 of title 31,
20 United States Code, a report on—

21 (1) with respect to the fiscal year preceding the
22 fiscal year for which such budget materials are sub-
23 mitted, the amount of funds obligated and expended
24 for research and development of blue energy tech-

1 nologies across all line offices and programs of the
2 Department of Energy; and

3 (2) the projected expenditures necessary to fill
4 any gaps in funding for research and development of
5 blue energy technologies across all line offices and
6 programs of the Department of Energy.

7 **SEC. 10674. DEFINITIONS.**

8 In this subtitle:

9 (1) **BLUE ECONOMY.**—The term “blue econ-
10 omy” means the sustainable use of ocean and aquat-
11 ic resources to grow the economy, improve liveli-
12 hoods, and create jobs in a manner that preserves
13 the health of ocean and aquatic ecosystems.

14 (2) **BLUE ENERGY TECHNOLOGY.**—The term
15 “blue energy technology” means any technology
16 that—

17 (A)(i) derives or generates energy from a
18 renewable energy resource; or

19 (ii) captures, removes, and sequesters
20 greenhouse gases; and

21 (B) is located in an aquatic environment.

22 (3) **BULK-POWER SYSTEM.**—The term “bulk-
23 power system” has the meaning given such term in
24 section 215(a) of the Federal Power Act (16 U.S.C.
25 824o(a)).

1 (4) NATIONAL LABORATORY.—The term “Na-
2 tional Laboratory” has the meaning given such term
3 in section 2 of the Energy Policy Act of 2005 (42
4 U.S.C. 15801).

5 (5) RENEWABLE ENERGY RESOURCE.—The
6 term “renewable energy resource” has the meaning
7 given such term in section 403 of the Energy Secu-
8 rity Act (42 U.S.C. 7372).

