

106TH CONGRESS
2D SESSION

S. 3196

To reauthorize and amend the Spark M. Matsunaga Hydrogen Research, Development, and Demonstration Act of 1990, and for other purposes.

IN THE SENATE OF THE UNITED STATES

OCTOBER 12 (legislative day, SEPTEMBER 22), 2000

Mr. AKAKA (for himself, Mr. MURKOWSKI, Mr. BINGAMAN, Mr. BAYH, Mr. REID, and Mr. INOUE) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

A BILL

To reauthorize and amend the Spark M. Matsunaga Hydrogen Research, Development, and Demonstration Act of 1990, 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 “George E. Brown, Jr.
5 Hydrogen Future Act”.

6 **SEC. 2. PURPOSES.**

7 Section 102(b)(2) of the Spark M. Matsunaga Hydro-
8 gen Research, Development, and Demonstration Act of
9 1990 (42 U.S.C. 12401(b)(2)) is amended by striking

1 “among the Federal agencies and aerospace, transpor-
2 tation, energy, and other entities” and inserting “, includ-
3 ing education, among the Federal agencies and industry,
4 transportation entities, energy entities, and other enti-
5 ties”.

6 **SEC. 3. REPORT TO CONGRESS.**

7 Section 103 of the Spark M. Matsunaga Hydrogen
8 Research, Development, and Demonstration Act of 1990
9 (42 U.S.C. 12402) is amended—

10 (1) in subsection (a), by striking “1999,” and
11 inserting “2003,”;

12 (2) in subsection (b), by striking paragraph (1)
13 and inserting the following:

14 “(1) an analysis of hydrogen-related activities
15 throughout the United States Government to iden-
16 tify productive areas for increased intergovernmental
17 collaboration; and”;

18 (3) by adding at the end the following:

19 “(c) REQUIREMENTS.—The report under subsection
20 (a) shall—

21 “(1) be based on a comprehensive coordination
22 plan for hydrogen energy prepared by the Depart-
23 ment with other Federal agencies; and

24 “(2) to the extent practicable, include State and
25 local activities.”.

1 **SEC. 4. TECHNOLOGY TRANSFER.**

2 Section 106 of the Spark M. Matsunaga Hydrogen
3 Research, Development, and Demonstration Act of 1990
4 (42 U.S.C. 12405) is amended—

5 (1) in subsection (b)—

6 (A) in the first sentence—

7 (i) in paragraph (1), by striking “an
8 inventory” and inserting “an update of the
9 inventory”; and

10 (ii) in paragraph (2), by inserting
11 “other Federal agencies as appropriate,”
12 before “and industry”; and

13 (B) by striking the second and third sen-
14 tences; and

15 (2) by adding at the end the following:

16 “(c) INFORMATION EXCHANGE PROGRAM ACTIVI-
17 TIES.—The information exchange program under sub-
18 section (b)—

19 “(1) may consist of workshops, publications,
20 conferences, and a database for the use by the public
21 and private sectors; and

22 “(2) shall foster the exchange of generic, non-
23 proprietary information and technology, developed
24 under this Act, among industry, academia, and the
25 Federal Government, to help the United States econ-

1 omy attain the economic benefits of the information
2 and technology.”.

3 **SEC. 5. TECHNICAL PANEL REVIEW.**

4 Section 108(d) of the Spark M. Matsunaga Hydrogen
5 Research, Development, and Demonstration Act of 1990
6 (42 U.S.C. 12407(d)) is amended—

7 (1) in the matter preceding paragraph (1), by
8 striking “the following items”;

9 (2) in paragraph (1), by striking “and” at the
10 end;

11 (3) in paragraph (2), by striking the period at
12 the end and inserting “; and”; and

13 (4) by adding at the end the following:

14 “(3) the plan developed by the interagency task
15 force under section 202(b) of the Hydrogen Future
16 Act of 1996.”.

17 **SEC. 6. AUTHORIZATION OF APPROPRIATIONS.**

18 Section 109 of the Spark M. Matsunaga Hydrogen
19 Research, Development, and Demonstration Act of 1990
20 (42 U.S.C. 12408) is amended—

21 (1) in paragraph (8), by striking “and”;

22 (2) in paragraph (9), by striking the period at
23 the end and inserting a semicolon; and

24 (3) by adding at the end the following:

25 “(10) \$40,000,000 for fiscal year 2002;

- 1 “(11) \$45,000,000 for fiscal year 2003;
2 “(12) \$50,000,000 for fiscal year 2004;
3 “(13) \$55,000,000 for fiscal year 2005; and
4 “(14) \$60,000,000 for fiscal year 2006.”.

5 **SEC. 7. FUEL CELLS.**

6 (a) INTEGRATION OF FUEL CELLS WITH HYDROGEN
7 PRODUCTION SYSTEMS.—Section 201(a) of the Hydrogen
8 Future Act of 1996 (42 U.S.C. 12403 note; Public Law
9 104–271) is amended—

10 (1) by striking “(a) Not later than 180 days
11 after the date of enactment of this section, and sub-
12 ject” and inserting “(a) IN GENERAL.—Subject”;
13 and

14 (2) by striking “with—” and all that follows
15 and inserting “into Federal and State facilities for
16 stationary and transportation applications.”.

17 (b) COOPERATIVE AND COST-SHARING AGREE-
18 MENTS; INTEGRATION OF TECHNICAL INFORMATION.—
19 Title II of the Hydrogen Future Act of 1996 (42 U.S.C.
20 12403 note; Public Law 104–271) is amended—

21 (1) by redesignating section 202 as section 205;
22 and

23 (2) by inserting after section 201 the following:

1 **“SEC. 202. INTERAGENCY TASK FORCE.**

2 “(a) ESTABLISHMENT.—Not later than 120 days
3 after the date of enactment of this section, the Secretary
4 shall establish an interagency task force led by a Deputy
5 Assistant Secretary of the Department of Energy and
6 comprised of representatives of—

7 “(1) the Office of Science and Technology Pol-
8 icy;

9 “(2) the Department of Transportation;

10 “(3) the Department of Defense;

11 “(4) the Department of Commerce (including
12 the National Institute for Standards and Tech-
13 nology);

14 “(5) the Environmental Protection Agency;

15 “(6) the National Aeronautics and Space Ad-
16 ministration; and

17 “(7) other agencies as appropriate.

18 “(b) DUTIES.—

19 “(1) IN GENERAL.—The task force shall de-
20 velop a plan for carrying out this title.

21 “(2) FOCUS OF PLAN.—The plan shall focus on
22 development and demonstration of integrated sys-
23 tems and components for—

24 “(A) hydrogen production, storage, and
25 use in Federal buildings;

26 “(B) power generation; and

1 “(C) transportation systems.

2 “(3) PROJECTS.—The plan may provide for
3 projects to demonstrate the feasibility of—

4 “(A) hydrogen-based distributed power
5 systems;

6 “(B) systems for hydrogen-based genera-
7 tion of combined heat, power, and other prod-
8 ucts; and

9 “(C) hydrogen-based infrastructure for
10 transportation systems (including zero-emission
11 vehicles).”.

12 **“SEC. 203. COOPERATIVE AND COST-SHARING AGREE-
13 MENTS.**

14 “The Secretary shall enter into cooperative and cost-
15 sharing agreements with Federal and State agencies for
16 participation by the agencies in demonstrations at sites
17 administered by the agencies, with the aim of replacing
18 commercially available systems based on fossil fuels with
19 systems using fuel cells.

20 **“SEC. 204. INTEGRATION OF TECHNICAL INFORMATION.**

21 “The Secretary shall—

22 “(1) integrate all the technical information that
23 becomes available as a result of development and
24 demonstration projects under this title; and

1 “(2) make the information available to all Fed-
2 eral and State agencies.”.

3 (c) AUTHORIZATION OF APPROPRIATIONS.—Section
4 205 of the Hydrogen Future Act of 1996 (42 U.S.C.
5 12403 note; Public Law 104–271) (as redesignated by
6 subsection (b)) is amended by striking “this section, a
7 total of \$50,000,000 for fiscal years 1997 and 1998, to
8 remain available until September 30, 1999” and inserting
9 “this title \$50,000,000 for fiscal years 2002, 2003, and
10 2004, to remain available until September 30, 2005”.

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