

109TH CONGRESS
1ST SESSION

S. 436

To require the Secretary of Energy to assess the economic implications of the dependence of the State of Hawaii on oil as the principal source of energy for the State.

IN THE SENATE OF THE UNITED STATES

FEBRUARY 17, 2005

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

A BILL

To require the Secretary of Energy to assess the economic implications of the dependence of the State of Hawaii on oil as the principal source of energy for the State.

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. HAWAII ENERGY ASSESSMENT.**

4 (a) ASSESSMENT.—The Secretary of Energy shall as-
5 sess the economic implications of the dependence of the
6 State of Hawaii on oil as the principal source of energy
7 for the State, including—

1 (1) the short- and long-term prospects for crude
2 oil supply disruption and price volatility and poten-
3 tial impacts on the economy of Hawaii;

4 (2) the economic relationship between oil-fired
5 generation of electricity from residual fuel and re-
6 fined petroleum products consumed for ground, ma-
7 rine, and air transportation;

8 (3) the technical and economic feasibility of in-
9 creasing the contribution of renewable energy re-
10 sources for generation of electricity, on an island-by-
11 island basis, including—

12 (A) siting and facility configuration;

13 (B) environmental, operational, and safety
14 considerations;

15 (C) the availability of technology;

16 (D) effects on the utility system including
17 reliability;

18 (E) infrastructure and transport require-
19 ments;

20 (F) community support; and

21 (G) other factors affecting the economic
22 impact of such an increase and any effect on
23 the economic relationship described in para-
24 graph (2);

1 (4) the technical and economic feasibility of
2 using liquefied natural gas to displace residual fuel
3 oil for electric generation, including neighbor island
4 opportunities, and the effect of the displacement on
5 the economic relationship described in paragraph
6 (2), including—

7 (A) the availability of supply;

8 (B) siting and facility configuration for on-
9 shore and offshore liquefied natural gas receiv-
10 ing terminals;

11 (C) the factors described in subparagraphs
12 (B) through (F) of paragraph (3); and

13 (D) other economic factors;

14 (5) the technical and economic feasibility of
15 using renewable energy sources (including hydrogen)
16 for ground, marine, and air transportation energy
17 applications to displace the use of refined petroleum
18 products, on an island-by-island basis, and the eco-
19 nomic impact of the displacement on the relationship
20 described in (2); and

21 (6) an island-by-island approach to—

22 (A) the development of hydrogen from re-
23 newable resources; and

24 (B) the application of hydrogen to the en-
25 ergy needs of Hawaii

1 (b) CONTRACTING AUTHORITY.—The Secretary of
2 Energy may carry out the assessment under subsection
3 (a) directly or, in whole or in part, through 1 or more
4 contracts with qualified public or private entities.

5 (c) REPORT.—Not later than 300 days after the date
6 of enactment of this Act, the Secretary of Energy shall
7 prepare, in consultation with agencies of the State of Ha-
8 waii and other stakeholders, as appropriate, and submit
9 to Congress, a report detailing the findings, conclusions,
10 and recommendations resulting from the assessment.

11 (d) AUTHORIZATION OF APPROPRIATIONS.—There
12 are authorized to be appropriated such sums as are nec-
13 essary to carry out this section.

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