
A BILL FOR AN ACT

RELATING TO THE HAWAII HYDROGEN STRATEGIC PLAN.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1 SECTION 1. (a) The Hawaii natural energy institute shall
2 conduct a study to examine the potential for the production and
3 use of renewable hydrogen in the State and the potential role of
4 renewable hydrogen in achieving a local, affordable, reliable,
5 and decarbonized energy system and economy. The study shall
6 consider:

- 7 (1) The feasibility of producing renewable hydrogen
8 locally;
- 9 (2) The power sources available for renewable hydrogen
10 production and their relative costs;
- 11 (3) Water usage needed for renewable hydrogen production;
- 12 (4) The feasibility of storing renewable hydrogen and the
13 safety considerations associated with renewable
14 hydrogen production and storage;
- 15 (5) Costs, benefits, and impacts compared to other fuel
16 sources;
- 17 (6) Potential end-user markets;



- 1 (7) Permitting and regulatory hurdles, including
2 infrastructure planning;
- 3 (8) Use cases in which hydrogen would provide the most
4 benefit, including considering power supply and
5 transportation sectors;
- 6 (9) The potential for locally produced renewable hydrogen
7 as an export commodity or other revenue generating
8 opportunity;
- 9 (10) The technical feasibility, economic viability, and
10 permitting requirements of local renewable hydrogen
11 compared to the importation and distribution of bulk
12 green hydrogen into the State from the United States
13 and other countries; and
- 14 (11) Other considerations deemed relevant and necessary.
- 15 (b) The results of the study shall be used to inform
16 energy planning, which may include a Hawaii hydrogen strategic
17 plan, decarbonization efforts, and other ongoing work being
18 undertaken by the Hawaii state energy office.
- 19 (c) For the purposes of this section, "renewable hydrogen"
20 means hydrogen produced entirely from renewable sources that



1 have lifecycle emissions of no more than fifty grams of carbon
2 dioxide per kilowatt hour.

3 SECTION 2. In conducting the study, the Hawaii natural
4 energy institute shall, as appropriate, consult with the
5 department of business, economic development, and tourism;
6 Hawaii state energy office; public utilities commission; or any
7 other applicable state or county agency. The Hawaii natural
8 energy institute shall further consult with electric and gas
9 utilities and other industry stakeholders, who are encouraged to
10 cooperate and provide information or input.

11 SECTION 3. The Hawaii natural energy institute shall
12 submit a report of its findings and recommendations, including
13 any proposed legislation, from the study to the legislature no
14 later than twenty days prior to the convening of the regular
15 session of 2024.

16 SECTION 4. This Act shall take effect on July 1, 2100.

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H.B. NO. 1937 H.D. 1

Report Title:

Hawaii Natural Energy Institute; Study; Renewable Hydrogen

Description:

Requires the Hawaii Natural Energy Institute to conduct a study to examine the potential for the production and use of renewable hydrogen in the State and the potential role of renewable hydrogen in achieving a local, affordable, reliable, and decarbonized energy system and economy. Requires a report to the legislature. Effective 7/1/2100. (HD1)

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