
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. The Hawaii natural energy institute shall
2 conduct a study to examine the State's ability to advance
3 hydrogen production from local renewable energy resources. The
4 study shall consider:

5 (1) Hydrogen resource availability and the feasibility to
6 produce and use hydrogen locally;

7 (2) Water usage needed for hydrogen production;

8 (3) Potential end-user markets;

9 (4) Permitting and regulatory hurdles, including
10 infrastructure planning;

11 (5) Implementation pathways needed to facilitate the
12 production, storage, and delivery mechanisms
13 throughout the State;

14 (6) Opportunities to combine utility and resource needs
15 for hydrogen production and usage of waste products or
16 renewable energy resources around the State;



1 (7) Whether the construction of hydrogen projects in each
2 county of the State is feasible, considering physical
3 layouts of project sites, geographic limitations, and
4 utility requirements; and

5 (8) The technical feasibility, economic viability, and
6 permitting requirements of local hydrogen production
7 from renewable resources and the transportation of end
8 use points compared to the importation and
9 distribution of bulk green hydrogen into the State
10 from the United States and other countries.

11 SECTION 2. (a) The Hawaii natural energy institute shall
12 develop a Hawaii hydrogen strategic plan utilizing the results
13 of its study required by section 1 of this Act, which shall:

14 (1) Develop a long-term hydrogen plan for 2024 through
15 2050 that is clearly integrated with other long-term
16 energy planning in the State. This plan shall
17 include:

18 (A) Costs, benefits, and impacts;

19 (B) An evaluation of the use of hydrogen as both a
20 transportation fuel and a grid-level resource;



- 1 (C) Technical and economic feasibility and
- 2 environmental benefits of using hydrogen in key
- 3 areas to resolve resilience issues; and
- 4 (D) Economic impact as an export commodity or other
- 5 revenue generating opportunity;
- 6 (2) Field non-governmental organization stakeholder input
- 7 and identify implementation and deployment strategies
- 8 to successfully build hydrogen production, storage,
- 9 distribution, and fueling infrastructure across the
- 10 State;
- 11 (3) Review existing permitting application and review
- 12 processes and identify amendments that may be
- 13 necessary to develop standards for the construction of
- 14 facilities that support hydrogen production, storage,
- 15 transport, and dispensing;
- 16 (4) Propose policies to encourage production and usage of
- 17 hydrogen utilizing economic incentives, tax credits,
- 18 tariffs, or other methods, to grow the supply of
- 19 available hydrogen;
- 20 (5) Provide recommendations that would facilitate
- 21 implementation of the hydrogen plan, including



1 legislation and necessary regulatory and economic
2 investments; and

3 (6) Specify strategies to reduce emissions, address
4 disproportionate energy and transportation costs in
5 neighbor island communities, and improve resiliency
6 for the State.

7 (b) The Hawaii natural energy institute shall review and
8 update the plan required in subsection (a) every four years,
9 beginning in 2028.

10 SECTION 3. In conducting the study and developing the
11 Hawaii hydrogen strategic plan required by sections 1 and 2 of
12 this Act, respectively, and any updates thereto, the Hawaii
13 natural energy institute shall, as appropriate, consult with the
14 department of business, economic development, and tourism; the
15 state energy office; public utilities commission; or any other
16 applicable state or county agency, which shall cooperate and
17 provide necessary resources as requested by the Hawaii natural
18 energy institute. The Hawaii natural energy institute shall
19 further consult with other electric and gas utilities and
20 industry stakeholders, who are encouraged to cooperate and
21 provide information or input.



1 SECTION 4. The Hawaii natural energy institute shall
2 submit an interim progress report of its findings and
3 recommendations, including any proposed legislation, to the
4 legislature no later than twenty days prior to the convening of
5 the regular session of 2023. The Hawaii natural energy
6 institute shall submit a report of its findings and
7 recommendations, including any proposed legislation, to the
8 legislature no later than twenty days prior to the convening of
9 the regular session of 2024, and for every year in which the
10 Hawaii hydrogen strategic plan is reviewed, amended, or updated.

11 SECTION 5. This Act shall take effect on July 1, 2022.



Report Title:

Hawaii Hydrogen Strategic Plan; Hawaii Natural Energy Institute;
Study

Description:

Requires the Hawaii Natural Energy Institute to conduct a study to examine the State's ability to advance hydrogen production from local renewable energy resources and develop the Hawaii Hydrogen Strategic Plan utilizing the results of its study, which shall be reviewed and updated every four years. Requires reports to the Legislature. (SD1)

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