

---

---

# 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. Chapter 304A, Hawaii Revised Statutes, is  
2 amended by adding a new section to part I, subpart N, to be  
3 appropriately designated and to read as follows:

4 "§304A- Hydrogen strategic plan. (a) The Hawaii  
5 natural energy institute shall conduct a study to examine the  
6 State's ability to advance hydrogen production from local  
7 renewable energy resources. The study shall consider:

- 8 (1) The availability of hydrogen resources and feasibility  
9 of producing and using hydrogen locally;  
10 (2) Water usage needed for hydrogen production;  
11 (3) Potential end-user markets;  
12 (4) Permitting and regulatory hurdles, including  
13 infrastructure planning;  
14 (5) Implementation pathways needed to facilitate  
15 production, storage, and delivery mechanisms  
16 throughout the State;



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

4       (7) The feasibility of constructing hydrogen projects in  
5       each county of the State, considering the physical  
6       layouts of project sites, geographic limitations, and  
7       utility requirements; and

8       (8) A comparison of the technical feasibility, economic  
9       viability, and permitting requirements of local  
10       hydrogen production from renewable resources and  
11       transportation of end use points, with the importation  
12       and distribution of bulk green hydrogen into the State  
13       from the continental United States and from other  
14       countries.

15       (b) The Hawaii natural energy institute shall:

16       (1) Utilize the results of the study required by  
17       subsection (a) to develop a long-term hydrogen plan  
18       for 2024 through 2050 that is clearly integrated with  
19       other long-term energy planning in the State. The  
20       Hawaii hydrogen strategic plan shall include:

21       (A) A discussion of costs, benefits, and impacts;



- 1           (B) An evaluation of the feasibility of using  
2           hydrogen as both a transportation fuel and a  
3           grid-level resource;
- 4           (C) A discussion of the technical and economic  
5           feasibility and environmental benefits of using  
6           hydrogen in key areas to resolve resilience  
7           issues; and
- 8           (D) An analysis of the economic impact of using  
9           hydrogen as an export commodity or other revenue  
10           generating opportunity;
- 11        (2) Field non-governmental organization stakeholder input  
12        and identify implementation and deployment strategies  
13        to successfully build hydrogen production, storage,  
14        distribution, and fueling infrastructure across the  
15        State;
- 16        (3) Review existing permitting application and review  
17        processes and identify any amendments that may be  
18        necessary to develop standards for constructing  
19        facilities that support hydrogen production, storage,  
20        transportation, and dispensation;



1       (4) Propose policies to encourage the production and usage  
2       of hydrogen-utilizing economic incentives, tax  
3       credits, tariffs, or other methods, to grow the supply  
4       of available hydrogen consistent with the strategic  
5       plan developed under subsection (b)(1);

6       (5) Provide recommendations to facilitate the  
7       implementation of the hydrogen plan, including any  
8       proposed legislation and any necessary regulatory or  
9       economic investments; and

10       (6) Specify strategies to reduce emissions, address  
11       disproportionate energy and transportation costs in  
12       neighbor island communities, and improve the State's  
13       resiliency.

14       (c) The Hawaii natural energy institute shall review and  
15       update the plan required by subsection (b) every four years,  
16       beginning in 2028.

17       (d) In conducting the study and developing the Hawaii  
18       hydrogen strategic plan required by subsections (a) and (b),  
19       respectively, and any updates thereto, the Hawaii natural energy  
20       institute shall consult as appropriate with the department of  
21       business, economic development, and tourism; state energy



1 office; public utilities commission; or any other applicable  
2 state or county agency, which shall cooperate and provide any  
3 necessary resources or information requested by the Hawaii  
4 natural energy institute. The Hawaii natural energy institute  
5 shall further consult with electric and gas utilities and  
6 industry stakeholders, who are encouraged to cooperate and  
7 provide information or input.

8 (e) The Hawaii natural energy institute shall submit to  
9 the legislature:

10 (1) An interim progress report of its findings and  
11 recommendations, including any proposed legislation,  
12 no later than twenty days prior to the convening of  
13 the regular session of 2023;

14 (2) A final report of its findings and recommendations,  
15 including any proposed legislation, no later than  
16 twenty days prior to the convening of the regular  
17 session of 2024; and

18 (3) A report of its findings and recommendations,  
19 including any proposed legislation, no later than  
20 twenty days prior to the convening of each regular



1           session for every year in which the Hawaii hydrogen  
2           strategic plan is reviewed, amended, or updated."

3           SECTION 2. New statutory material is underscored.

4           SECTION 3. This Act shall take effect on July 1, 2050.



**Report Title:**

Hawaii Hydrogen Strategic Plan; HNEI; 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 to use the results of its study to develop the Hawaii Hydrogen Strategic Plan. Requires the plan to be reviewed and updated every four years. Requires reports to the Legislature. Effective 7/1/2050. (SD2)

*The summary description of legislation appearing on this page is for informational purposes only and is not legislation or evidence of legislative intent.*

