

JAN 23 2025

A BILL FOR AN ACT

RELATING TO NUCLEAR ENERGY.

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

1 SECTION 1. The legislature finds that the United States is
2 the world's largest producer of nuclear power. According to
3 statistics from the United States Department of Energy, nearly a
4 fifth of the nation's electricity comes from nuclear power each
5 year. In 2023, domestic nuclear power plants generated seven
6 hundred seventy-five billion kilowatt hours of electricity,
7 enough to power over seventy-two million homes. The same year,
8 nuclear energy also provided forty-eight per cent of carbon-free
9 electricity in the United States, making it the largest domestic
10 source of clean energy.

11 The legislature recognizes that nuclear energy has been
12 quietly powering the United States with clean, carbon-free
13 electricity for the last sixty years. Nuclear power plants do
14 not emit greenhouse gases while generating electricity. They
15 produce power by boiling water to create steam that spins a
16 turbine, heated by a process called fission, which makes heat by
17 splitting apart uranium atoms inside a nuclear reactor core.



1 Nuclear energy is therefore considered to be a safe and
2 efficient alternative to fossil fuels and a strong option for
3 combating climate change when managed properly.

4 The legislature further finds that nuclear energy is one of
5 the most reliable energy sources in the nation. Nuclear power
6 plants are designed to run twenty-four hours a day, seven days a
7 week and require less maintenance to operate for longer
8 stretches before refueling, typically every 1.5 to two years.

9 The legislature notes that nuclear power plants operated at full
10 capacity more than ninety-three per cent of the time in 2023,
11 making it more reliable than coal, natural gas, wind, and solar
12 plants.

13 Nuclear fuel is also extremely dense. Therefore the amount
14 of used nuclear fuel is less than one would assume. According
15 to the United States Department of Energy, the used nuclear fuel
16 produced by the United States nuclear energy industry over the
17 last sixty years could fit on a football field at a depth of
18 less than ten yards.

19 The legislature further recognizes that many states, such
20 as Georgia, Illinois, New Hampshire, and South Carolina, have
21 turned to nuclear energy as a solution to tackle energy



1 challenges and that nuclear power could also help the State
2 achieve its clean energy goals.

3 Accordingly, the purpose of this Act is to establish a
4 nuclear energy task force to study the feasibility of using
5 advanced nuclear power technologies in the State.

6 SECTION 2. (a) There is established a nuclear energy task
7 force within the Hawaii state energy office to study the
8 feasibility of using advanced nuclear power technologies in the
9 State.

10 (b) The task force shall consist of the following members:

11 (1) The chief energy officer, who shall serve as chair of
12 the task force;

13 (2) The director of health or their designee;

14 (3) The chairperson of the board of land and natural
15 resources or their designee;

16 (4) A member of the senate, to be appointed by the
17 president of the senate;

18 (5) A member of the house of representatives, to be
19 appointed by the speaker of the house of
20 representatives;



1 (6) A representative from the public utilities commission,
2 to be appointed by the chairperson of the public
3 utilities commission; and

4 (7) A representative from the university of Hawaii with
5 expertise on nuclear energy, to be appointed by the
6 president of the university of Hawaii.

7 (c) The chair of the task force shall invite the following
8 to participate as members of the task force:

9 (1) A representative from the United States Navy with
10 expertise in nuclear energy generation, to be
11 appointed by the Chief of Naval Operations of the
12 United States Navy;

13 (2) A representative from a public utility that provides
14 energy, to be appointed by the governor without regard
15 to section 26-34, Hawaii Revised Statutes; and

16 (3) A representative with expertise in nuclear energy
17 generation or nuclear waste disposal, to be appointed
18 by the governor without regard to section 26-34,
19 Hawaii Revised Statutes.

20 (d) The task force shall:



1 (1) Study the feasibility of using advanced nuclear power
2 technologies in the State;

3 (2) Evaluate the benefits, risks, and barriers to
4 developing and using advanced nuclear power
5 technologies in the State, including those relating to
6 regulatory, statutory, financial, social, and
7 environmental factors; and

8 (3) Identify potential short-term and long-term nuclear
9 energy goals for the State.

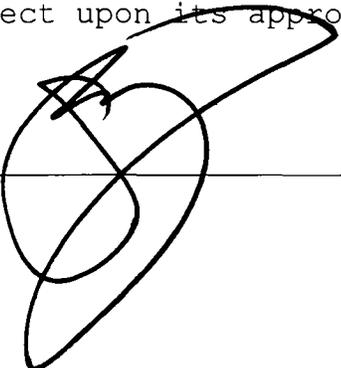
10 (e) The task force shall submit an interim report of its
11 progress, including any proposed legislation, to the legislature
12 no later than twenty days prior to the convening of the regular
13 session of 2026, and shall submit a final report of its findings
14 and recommendations, including any proposed legislation, to the
15 legislature no later than forty days prior to the convening of
16 the regular session of 2027.

17 (f) The task force shall be dissolved on December 31,
18 2027.

19 SECTION 3. This Act shall take effect upon its approval.

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INTRODUCED BY: _____

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S.B. NO. 1588

Report Title:

HSEO; Nuclear Energy Task Force; Reports

Description:

Establishes the Nuclear Energy Task Force within the Hawaii State Energy Office. Requires reports to the Legislature.

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

