A BILL FOR AN ACT

RELATING TO LONG DURATION CLEAN ENERGY STORAGE.

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

SECTION 1. The legislature finds that extreme weather
 exacerbated by climate change affects the supply and
 availability of all forms of energy, including local renewable
 resources and imported fuels.

5 The legislature also finds that the ability to store 6 locally produced clean energy can mitigate the supply 7 disruptions that could result from extreme weather or other 8 events that might disrupt the flow of imported energy 9 commodities or the availability of local renewable resources.

10 The legislature recognizes that the United States
11 Department of Energy has a goal of reducing the cost of long
12 duration storage by ninety per cent by 2031, and intends to make
13 available significant levels of funding to support its energy
14 storage grand challenge roadmap.

15 The legislature further finds that the vast majority of 16 utility-scale energy storage capacity in the United States is

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1	pumped st	orage hydroelectric capacity, due to its relatively low
2	water con	sumption, capital cost, and land requirements.
3	The	purpose of this Act is to:
4	(1)	Rename the Hawaii renewable hydrogen program to the
5		Hawaii renewable hydrogen and long duration clean
6		energy storage program;
7	(2)	Amend the required activities of the program,
8		including conducting engineering and economic
9		evaluations of potential locations for long duration
10		clean energy storage and pumped storage hydroelectric
11		projects; and
12	(3)	Rename the hydrogen investment special fund to the
13		hydrogen and long duration clean energy storage
14		investment capital special fund.
15	SECT	ION 2. Section 196-10, Hawaii Revised Statutes, is
16	amended t	o read as follows:
17	"[+]	<pre>§196-10[+] Hawaii renewable hydrogen and long duration</pre>
18	<u>clean ene</u>	rgy storage program . There is established, within the
19	departmen	t of business, economic development, and tourism, a
20	Hawaii re	newable hydrogen and long duration clean energy storage
21	program t	o manage the State's transition to a renewable hydrogen

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1	economy.	The program shall design, implement, and administer
2	activitie	s that include:
3	(1)	Strategic partnerships for the research, development,
4		testing, and deployment of renewable hydrogen and long
5		duration clean energy storage technologies;
6	(2)	Engineering and economic evaluations of Hawaii's
7		potential for renewable hydrogen use and long duration
8		clean energy storage, including near-term project
9		opportunities for the State's renewable energy
10		resources;
11	(3)	Electric grid reliability and security projects that
12		will enable the integration of a substantial increase
13		of electricity from renewable energy resources on the
14		island of Hawaii;
15	(4)	Hydrogen and long duration clean energy storage
16		demonstration projects, including infrastructure for
17		the production, storage, and refueling of hydrogen
18		vehicles;
19	(5)	A statewide hydrogen and long duration clean energy
20		storage economy public education and outreach plan
21		focusing on the island of Hawaii, to be developed in

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1		coor	dination with Hawaii's public education
2		inst	itutions;
3	(6)	Prom	otion of Hawaii's renewable hydrogen <u>and long</u>
4		dura	tion clean energy storage resources to potential
5		parti	ners and investors;
6	[(7)	A pla	an, for implementation during the years 2007 to
7		2010 ,	, to more fully deploy hydrogen technologies and
8		infra	astructure capable of supporting the island of
9		Hawa:	ii's energy needs, including:
10		(A)	Expanded installation of hydrogen production
11			facilitics;
12		(B)	Development of integrated energy systems,
13			including-hydrogen-vehicles;
14		(C)	Construction of additional hydrogen refueling
15			stations; and
16		(D)	Promotion of building design and construction
17			that fully incorporates clean energy assets,
18			including reliance on hydrogen-fueled energy
19			generation;
20	(8)	A pla	an, for implementation during the years 2010 to
21		2020 ,	- to transition the island of Hawaii to a

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1		hydr	ogen-fueled economy and to extend the application
2		of-t	he plan throughout the State; and
3	(9)]	(7)	Evaluation of policy recommendations to:
4		(A)	Encourage the adoption of long duration clean
5			energy storage and potential customers of that
6			storage, including hydrogen-fueled vehicles;
7		(B)	Continually fund the hydrogen and long duration
8			clean energy storage investment capital special
9			fund; and
10		(C)	Support investment in hydrogen and long duration
11			clean energy storage infrastructure[, including
12			production, storage, and dispensing facilities.];
13			and
14	(8)	Engi	neering and economic evaluations of potential
15		loca	tions for long duration clean energy storage,
16		incl	uding pumped storage hydroelectric projects as a
17		prio	rity, and hydrogen that:
18		<u>(A)</u>	Maximize the positive ecological, social, and
19			economic benefits to nearby resources, including
20			agricultural and recreational land use; and

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1		(B) Minimize or avoid negative impacts on cultural
2		heritage, productive agricultural land, and
3		habitat."
4	SECT	ION 3. Section 206M-63, Hawaii Revised Statutes, is
5	amended t	o read as follows:
6	"[+]	<pre>§206M-63[] Hydrogen and long duration clean energy</pre>
7	<u>storage</u> i	nvestment capital special fund. (a) There shall be
8	establish	ed the hydrogen and long duration clean energy storage
9	investmen	t <u>capital</u> special fund, into which shall be deposited:
10	(1)	Appropriations made by the legislature to the fund;
11	(2)	All contributions from public or private partners;
12	(3)	All interest earned on or accrued to moneys deposited
13		in the special fund; and
14	(4)	Any other moneys made available to the special fund
15		from other sources.
16	(b)	Moneys in the fund shall be expended by the
17	developme	nt corporation:
18	(1)	To provide seed capital for and venture capital
19		investments in private sector and federal projects for
20		research, development, testing, and implementation of
21		the Hawaii renewable hydrogen and long duration clean

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1	energy storage program, as set forth in section 196-
2	10; and
3	(2) For any other purpose deemed necessary to carry out
4	the purposes of section 196-10."
5	SECTION 4. There is appropriated out of the energy
6	security special fund established in section 201-12.8, Hawaii
7	Revised Statutes, the sum of \$3,500,000 or so much thereof as
8	may be necessary for fiscal year 2025-2026 for the activities
9	described in section 196-10, Hawaii Revised Statutes, as amended
10	in this Act, including the establishment of temporary positions
11	that may be needed to support actions related to the activities
12	of this Act.
13	The sum appropriated shall be expended by the Hawaii state
14	energy office for the purposes of this Act.
15	SECTION 5. Statutory material to be repealed is bracketed
16	and stricken. New statutory material is underscored.
17	SECTION 6. This Act shall take effect on May 13, 2040.



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Report Title:

Hawaii State Energy Office; Renewable Energy; Energy Storage; Hawaii Renewable Hydrogen and Long Duration Clean Energy Storage Program; Hydrogen and Long Duration Clean Energy Storage Investment Capital Special Fund; Appropriation

Description:

Renames the Hawaii Renewable Hydrogen Program to the Hawaii Renewable Hydrogen and Long Duration Clean Energy Storage Program (Program). Amends the required activities of the Program, including conducting engineering and economic evaluations of potential locations for long duration clean energy storage and pumped storage hydroelectric projects. Renames the Hydrogen Investment Special Fund to the Hydrogen and Long Duration Clean Energy Storage Investment Capital Special Fund. Effective 5/13/2040. (SD1)

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

