A BILL FOR AN ACT

RELATING TO ENERGY RESOURCES.

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

- 1 SECTION 1. The legislature finds that Hawaii is replete
- 2 with renewable sources of energy, including wind, wave,
- 3 geothermal, and solar. With such resources, there is a
- 4 compelling state interest for every resident to use solar energy
- 5 devices. According to the U.S. Energy Information
- 6 Administration, the State spent an estimated \$7,796,000,000 on
- 7 oil in 2012. The State's dependence on fossil fuels is not
- 8 sustainable.
- 9 The legislature further finds that the goal of the Hawaii
- 10 Clean Energy Initiative is to achieve seventy per cent clean
- 11 energy by 2030 with thirty per cent from efficiency measures and
- 12 forty per cent from locally generated renewable sources. In
- 13 response to the Clean Energy Initiative, the legislature finds
- 14 that individual residents wish to do their part to help meet the
- 15 goals of the Clean Energy Initiative.
- The legislature further finds that solar energy is a proven
- 17 clean and renewable energy. Solar energy provides benefits to



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- 1 residents by lowering the cost of living, maintaining money in
- 2 the local economy, and protecting our environment.
- 3 The legislature also finds that solar water heating systems
- 4 are a renewable energy technology that uses solar collectors
- 5 placed on roofs to heat water. These systems decrease reliance
- 6 on imported oil used to generate electricity to heat water
- 7 because they use less energy than the electric hot water heating
- 8 system replaced. Furthermore, the legislature finds that the
- 9 up-front cost of installation is a barrier preventing many
- 10 Hawaii residents from installing solar water heating systems,
- 11 and therefore the State should provide residents the ability to
- 12 take advantage of this renewable energy resource.
- Accordingly, the purpose of this Act is to require all
- 14 existing single-family homes to be retrofitted with solar energy
- 15 systems and aid in meeting the Clean Energy Initiative.
- 16 SECTION 2. Chapter 196, Hawaii Revised Statutes, is
- 17 amended by adding a new section to be appropriately designated
- 18 and to read as follows:
- 19 "§196- Solar water heater system; retrofit. (a) No
- 20 later than January 1, 2020, each owner of a single-family
- 21 residence that has an electrical or gas-powered system for



1	heating water shall retrofit the residence with a solar water						
2	heater system that meets the standards established pursuant to						
3	section 269-44, unless the energy resources coordinator approves						
4	a variano	variance. A variance shall only be approved if an architect					
5	or engine	eer licensed under chapter 464 attests that:					
6	(1)	Installation is impracticable due to poor solar					
7		resource;					
8	(2)	Installation is cost-prohibitive based upon a life					
9		cycle cost-benefit analysis that incorporates the					
10		average residential utility bill and the cost of the					
11		new solar water heater system with a life cycle that					
12		does not exceed fifteen years;					
13	<u>(3)</u>	A substitute renewable energy technology system, as					
. 14		defined in section 235-12.5, is used as the primary					
15		energy source for heating water; or					
16	(4)	A demand water heater device approved by Underwriters					
17		Laboratories, Inc., is installed; provided that at					
18		least one other gas appliance is installed in the					
19		dwelling. For the purposes of this paragraph, "demand					
20		water heater" means a gas-tankless instantaneous water					
21		heater that provides hot water only as it is needed.					

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1	(b) A request for a variance shall be submitted to the
2	energy resources coordinator on an application prescribed by the
3	energy resources coordinator and shall include, but not be
4	limited to, a description of the location of the property and
5	justification for the approval of a variance using the criteria
6	established in subsection (a). A variance shall be deemed
7	approved if not denied within thirty working days after receipt
8	of the variance application.
9	(c) An individual may claim a renewable energy
10	technologies income tax credit for a solar water heater system
11	under section 235-12.5.
12	(d) Any individual not claiming a renewable technologies
13	income tax credit under subsection (c) may receive a loan for up
14	to \$5,000 from the green infrastructure loan program under part
15	IV of chapter 196 to be used for compliance with this section.
16	(e) An individual who does not qualify for a loan under
17	the green infrastructure loan program under part IV of chapter
18	196 shall be exempted under this section.
19	(f) Nothing in this section shall preclude any county from
20	establishing procedures and standards required to implement this
21	section.

1 (g) Nothing in this section shall preclude participation 2 in any utility demand-side management program or public benefits 3 fund under part VII of chapter 269. 4 The public utilities commission may authorize 5 electrical utilities to collect a yearly surcharge of \$20.00 6 from customers who are not in compliance with this section. The 7 surcharge collected shall be deposited into the Hawaii green 8 infrastructure special fund under section 196-65." 9 SECTION 3. Section 235-12.5, Hawaii Revised Statutes, is 10 amended to read as follows: 11 "\$235-12.5 Renewable energy technologies; income tax 12 credit. (a) When the requirements of subsection (d) are met, 13 each individual or corporate taxpayer that files an individual 14 or corporate net income tax return for a taxable year may claim 15 a tax credit under this section against the Hawaii state 16 individual or corporate net income tax. The tax credit may be 17 claimed for every eligible renewable energy technology system 18 that is installed and placed in service in the State by a 19 taxpayer during the taxable year. The tax credit may be claimed 20 as follows:

1	(1) For each solar energy system: [thirty-five] fifty per
2	cent of the actual cost or the cap amount determined
3	in subsection (b), whichever is less; or
4	(2) For each wind-powered energy system: twenty per cent
5	of the actual cost or the cap amount determined in
6	subsection (b), whichever is less;
7	provided that multiple owners of a single system shall be
8	entitled to a single tax credit; and provided further that the
9	tax credit shall be apportioned between the owners in proportion
10	to their contribution to the cost of the system.
11	In the case of a partnership, S corporation, estate, or
12	trust, the tax credit allowable is for every eligible renewable
13	energy technology system that is installed and placed in service
14	in the State by the entity. The cost upon which the tax credit
15	is computed shall be determined at the entity level.
16	Distribution and share of credit shall be determined pursuant to
17	section 235-110.7(a).
18	(b) The amount of credit allowed for each eligible
19	renewable energy technology system shall not exceed the
20	applicable cap amount, which is determined as follows:

1	(1)	If the primary purpose of the solar energy system is
2		to use energy from the sun to heat water for household
3		use, then the cap amounts shall be:
4		(A) $[\$2,250]$ $\$5,000$ per system for single-family
5		residential property;
6		(B) \$350 per unit per system for multi-family
7		residential property; and
8		(C) \$250,000 per system for commercial property;
9	(2)	For all other solar energy systems, the cap amounts
10		shall be:
11		(A) \$5,000 per system for single-family residential
12		property; provided that if all or a portion of
13		the system is used to fulfill the substitute
14		renewable energy technology requirement pursuant
15		to section 196-6.5(a)(3), the credit shall be
16		reduced by thirty-five per cent of the actual
17		system cost or \$2,250, whichever is less;
18		(B) \$350 per unit per system for multi-family
19		residential property; and
20		(C) \$500,000 per system for commercial property; and

Ţ	(3)	For a	all wind-powered energy systems, the cap amounts
2		shall	be:
3		(A)	\$1,500 per system for single-family residential
4			property; provided that if all or a portion of
5			the system is used to fulfill the substitute
6			renewable energy technology requirement pursuant
7			to section 196-6.5(a)(3), the credit shall be
8			reduced by twenty per cent of the actual system
9			cost or \$1,500, whichever is less;
10		(B)	\$200 per unit per system for multi-family
11			residential property; and
12		(C)	\$500,000 per system for commercial property.
13	(c)	For t	the purposes of this section:
14	"Actı	ual co	st" means costs related to the renewable energy
15	technolog	y syst	ems under subsection (a), including accessories
16	and instal	llatic	on, but not including the cost of consumer
17	incentive	premi	ums unrelated to the operation of the system or
18	offered w	ith th	e sale of the system and costs for which another
19	credit is	claim	ned under this chapter.

- 1 "Household use" means any use to which heated water is
- 2 commonly put in a residential setting, including commercial
- 3 application of those uses.
- 4 "Renewable energy technology system" means a new system
- 5 that captures and converts a renewable source of energy, such as
- 6 solar or wind energy, into:
- 7 (1) A usable source of thermal or mechanical energy;
- **8** (2) Electricity; or
- **9** (3) Fuel.
- 10 "Solar or wind energy system" means any identifiable
- 11 facility, equipment, apparatus, or the like that converts solar
- 12 or wind energy to useful thermal or electrical energy for
- 13 heating, cooling, or reducing the use of other types of energy
- 14 that are dependent upon fossil fuel for their generation.
- 15 (d) For taxable years beginning after December 31, 2005,
- 16 the dollar amount of any utility rebate shall be deducted from
- 17 the cost of the qualifying system and its installation before
- 18 applying the state tax credit.
- 19 (e) The director of taxation shall prepare any forms that
- 20 may be necessary to claim a tax credit under this section,
- 21 including forms identifying the technology type of each tax

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- 1 credit claimed under this section, whether for solar or wind.
- 2 The director may also require the taxpayer to furnish reasonable
- 3 information to ascertain the validity of the claim for credit
- 4 made under this section and may adopt rules necessary to
- 5 effectuate the purposes of this section pursuant to chapter 91.
- 6 (f) If the tax credit under this section exceeds the
- 7 taxpayer's income tax liability, the excess of the credit over
- 8 liability may be used as a credit against the taxpayer's income
- 9 tax liability in subsequent years until exhausted, unless
- 10 otherwise elected by the taxpayer pursuant to subsection (g) or
- 11 (h). All claims for the tax credit under this section,
- 12 including amended claims, shall be filed on or before the end of
- 13 the twelfth month following the close of the taxable year for
- 14 which the credit may be claimed. Failure to comply with this
- 15 subsection shall constitute a waiver of the right to claim the
- 16 credit.
- 17 (g) For solar energy systems, a taxpayer may elect to
- 18 reduce the eligible credit amount by [thirty] fifty per cent and
- 19 if this reduced amount exceeds the amount of income tax payment
- 20 due from the taxpayer, the excess of the credit amount over
- 21 payments due shall be refunded to the taxpayer; provided that



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- 1 tax credit amounts properly claimed by a taxpayer who has no
- 2 income tax liability shall be paid to the taxpayer; and provided
- 3 further that no refund on account of the tax credit allowed by
- 4 this section shall be made for amounts less than \$1.
- 5 The election required by this subsection shall be made in a
- 6 manner prescribed by the director on the taxpayer's return for
- 7 the taxable year in which the system is installed and placed in
- 8 service. A separate election may be made for each separate
- 9 system that generates a credit. An election once made is
- 10 irrevocable.
- 11 (h) Notwithstanding subsection (g), for any renewable
- 12 energy technology system, an individual taxpayer may elect to
- 13 have any excess of the credit over payments due refunded to the
- 14 taxpayer, if:
- 15 (1) All of the taxpayer's income is exempt from taxation
- 16 under section 235-7(a)(2) or (3); or
- 17 (2) The taxpayer's adjusted gross income is \$20,000 or
- less (or \$40,000 or less if filing a tax return as
- married filing jointly);
- 20 provided that tax credits properly claimed by a taxpayer who has
- 21 no income tax liability shall be paid to the taxpayer; and



- 1 provided further that no refund on account of the tax credit
- 2 allowed by this section shall be made for amounts less than \$1.
- 3 A husband and wife who do not file a joint tax return shall
- 4 only be entitled to make this election to the extent that they
- 5 would have been entitled to make the election had they filed a
- 6 joint tax return.
- 7 The election required by this subsection shall be made in a
- 8 manner prescribed by the director on the taxpayer's return for
- 9 the taxable year in which the system is installed and placed in
- 10 service. A separate election may be made for each separate
- 11 system that generates a credit. An election once made is
- 12 irrevocable.
- (i) No taxpayer shall be allowed a credit under this
- 14 section for the portion of the renewable energy technology
- 15 system required by section 196-6.5 that is installed and placed
- 16 in service on any newly constructed single-family residential
- 17 property authorized by a building permit issued on or after
- 18 January 1, 2010.
- 19 (j) To the extent feasible, using existing resources to
- 20 assist the energy-efficiency policy review and evaluation, the

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1	department shall assist with data collection on the following
2	for each taxable year:
3	(1) The number of renewable energy technology systems that
4	have qualified for a tax credit during the calendar
5	year by:
6	(A) Technology type; and
7	(B) Taxpayer type (corporate and individual); and
8	(2) The total cost of the tax credit to the State during
9	the taxable year by:
10	(A) Technology type; and
11	(B) Taxpayer type.
12	(k) This section shall apply to eligible renewable energy
13	technology systems that are installed and placed in service on
14	or after July 1, 2009."
15	SECTION 4. Statutory material to be repealed is bracketed
16	and stricken. New statutory material is underscored.
17	SECTION 5. This Act shall take effect upon its approval.

INTRODUCED BY:

Felix Ponha

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Report Title:

Energy Resources; Solar Water Heater Systems; Retrofits

Description:

Requires existing single-family homes to be retrofitted with solar water heater systems. Allows for a tax credit or loan for compliance. Authorizes the PUC to permit electrical utilities to collect a surcharge for non-compliance, to be deposited into the Hawaii green infrastructure special fund.

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