A BILL FOR AN ACT

RELATING TO RENEWABLE ENERGY.

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

1	PART I
2	SECTION 1. The legislature finds that as a result of
3	pursuing its goal to reach one hundred per cent renewable energy
4	by 2045, Hawaii now leads other states in nearly every category
5	of renewable electricity. Currently, thirty-three per cent of
6	electricity in the State is generated from rooftop solar, and
7	there are sixty utility-scale renewable energy projects feeding
8	into the State's power grids. Despite great progress, the State
9	continues to depend heavily upon imported petroleum for its
10	energy needs, and it still falls far short of its ambitious
11	renewable energy goals.
12	The legislature further finds that the State must continue
13	to support established renewable energy sources and those
14	emerging from new technological innovations to meet its
15	expansive renewable energy goals. Currently, the State's
16	definition of "renewable energy" is too narrow to account for
17	some technological innovations that produce renewable energy

1 resources. Broadening the definition of "renewable energy" to 2 include other self-replenishing non-fossil fuel resources could 3 significantly advance the State's clean energy goals and produce 4 considerable environmental and economic benefits for the State. 5 Accordingly, the purpose of this Act is to: Amend the definition of "renewable energy" as used in 6 (1) 7 the public utilities commission law to include 8 additional self-replenishing non-fossil fuel, non-9 nuclear resources; and 10 (2) Amend the renewable energy technologies income tax 11 credit. 12 PART II 13 SECTION 2. Section 269-91, Hawaii Revised Statutes, is 14 amended by amending the definition of "renewable energy" to read 15 as follows: 16 ""Renewable energy" means energy generated or produced 17 using [the following sources]: 18 (1) Wind; 19 (2) The sun; 20 (3) Falling water;

1	(4)	Biogas, including landfill and sewage-based digester
2		gas;
3	(5)	Geothermal;
4	(6)	Ocean water, currents, and waves, including ocean
5		thermal energy conversion;
6	(7)	Biomass, including biomass crops, agricultural and
7		animal residues and wastes, and municipal solid waste
8		and other solid waste $[+]$, but not including mono-
9		cultured wood crops;
10	(8)	Biofuels; [and]
11	(9)	Hydrogen produced from renewable energy sources [-];
12		and
13	(10)	Other self-replenishing non-fossil fuel, non-nuclear
14		resources."
15		PART III
16	SECT	ION 3. Section 23-92, Hawaii Revised Statutes, is
17	amended b	y amending subsection (c) to read as follows:
18	"(c)	This section shall apply to the following:
19	(1)	Sections 235-12.5 and 241-4.6Credit for renewable
20		energy [technologies and commercial
21		seawater air conditioning system installed and placed

1	in service in the State. For the purpose of section
2	23-91(b)(5), this credit shall be deemed to have been
3	enacted for an economic benefit; and
4	(2) Section 235-17Credit for qualified production costs
5	incurred for a qualified motion picture, digital
6	media, or film production."
7	SECTION 4. Section 235-12.5, Hawaii Revised Statutes, is
8	amended to read as follows:
9	"§235-12.5 Renewable energy technologies[+] and commercia]
10	seawater air conditioning system; income tax credit. (a) When
11	the requirements of subsection (d) are met, each individual or
12	corporate taxpayer that files an individual or corporate net
13	income tax return for a taxable year may claim a tax credit
14	under this section against the Hawaii state individual or
15	corporate net income tax. [The tax credit may be claimed for
16	every eligible renewable energy technology system that is
17	installed and placed in service in the State by a taxpayer
18	during the taxable year.] The tax credit may be claimed as
19	follows:
20	(1) For each solar energy system[+] that is used
21	exclusively to heat water and is installed and first

1	placed in service in the State by a taxpayer during
2	the taxable year: thirty-five per cent of the [actual
3	cost or the cap amount determined in subsection (b),
4	whichever is less; or] basis up to the applicable cap
5	amount, which is determined as follows:
6	(A) \$2,000 per solar energy system for a single-
7	family residential property;
8	(B) \$700 per unit per solar energy system for a
9	multi-family residential property; and
10	(C) \$225,000 per solar energy system for a commercial
11	property;
12 (2) For each grid-connected solar energy system that is
13	used primarily to generate electricity:
14	(A) Thirty-five per cent of the basis for grid-
15	connected solar energy systems first placed in
16	service after December 31, 2019, and before
17	January 1, 2021, up to the applicable cap amount
18	under subsection (b); provided that a grid-
19	connected solar energy system that has:
20	(i) An executed customer service contract dated
21	prior to June 30, 2018, and is installed and

1		first placed in service before December 31,
2		2019, shall receive thirty-five per cent of
3		the basis for the grid-connected solar
4		energy system, up to the applicable cap
5		amount of \$500,000 per solar energy system;
6		<u>or</u>
7	<u>(ii)</u>	A power purchase agreement dated prior to
8		December 31, 2019, and first placed in
9		service before December 31, 2024, shall
10		receive thirty-five per cent of the basis
11		for the grid-connected solar energy system,
12		up to the applicable cap amount of \$500,000
13		per solar energy system;
14	(B) Thir	ty per cent of the basis for grid-connected
15	sola	r energy systems first placed in service
16	afte	er December 31, 2020, and before January 1,
17	2022	, up to the applicable cap amount under
18	subs	ection (b);
19	(C) Twen	ty-five per cent of the basis for grid-
20	conn	ected solar energy systems first placed in
21	serv	rice after December 31, 2021, and before

1		January 1, 2023, up to the applicable cap amount
2		under subsection (b);
3	(D)	Twenty per cent of the basis for grid-connected
4		solar energy systems first placed in service
5		after December 31, 2022, and before January 1,
6		2024, up to the applicable cap amount under
7		<pre>subsection (b);</pre>
8	<u>(E)</u>	Fifteen per cent of the basis for grid-connected
9		solar energy systems first placed in service
10		after December 31, 2023, and before January 1,
11		2025, up to the applicable cap amount under
12		<pre>subsection (b);</pre>
13	<u>(F)</u>	Ten per cent of the basis for grid-connected
14		solar energy systems first placed in service
15		after December 31, 2024, and before January 1,
16		2026, up to the applicable cap amount under
17		subsection (b); and
18	(G)	Five per cent of the basis for grid-connected
19		solar energy systems first placed in service
20		after December 31, 2025, and before January 1,

1			2027, up to the applicable cap amount under
2			subsection (b);
3	[(2)]	<u>(3)</u>	For each [wind-powered] grid-connected wind
4		ener	gy system[:], twenty per cent of the [actual cost
5		or t	he cap amount determined in subsection (b),
6		whic	hever is less; basis, up to the applicable cap
7		amou	nt, which is determined as follows:
8		(A)	\$1,500 per grid-connected wind energy system for
9			a single-family residential property; provided
10			that if all or a portion of the grid-connected
11			wind energy system is used to fulfill the
12			substitute renewable energy technology
13			requirement pursuant to section 196-6.5(a)(3),
14			the credit shall be reduced by twenty per cent of
15			the basis or \$1,500, whichever is less;
16		<u>(B)</u>	\$700 per unit per grid-connected wind energy
17	,		system for a multi-family residential property;
18			and
19		<u>(C)</u>	\$500,000 per grid-connected wind energy system
20			for a commercial property; provided that a grid-
21			connected wind energy system that has:

1	<u>(i)</u>	An executed customer service contract dated
2		prior to June 30, 2018, and is installed and
3		first placed in service before December 31,
4		2019, shall receive thirty per cent of the
5		basis for the grid-connected wind energy
6		system, up to the applicable cap amount as
7		described in this subparagraph; or
8	<u>(ii)</u>	A power purchase agreement dated prior to
9		December 31, 2019, and first placed in
10		service before December 31, 2024, shall
11		receive thirty per cent of the basis for the
12		grid-connected wind energy system, up the
13		applicable cap amount as described in this
14		subparagraph; and
15	(4) For each	commercial seawater air conditioning system,
16	twenty pe	ercent of the basis of connecting the
17	commercia	l seawater air conditioning system to the
18	seawater	air conditioning district cooling system up
19	to the ap	plicable cap amount of \$100,000.
20	[provided that mult	iple] Multiple owners of a single system
21	shall be entitled t	o a single tax credit; [and] provided

1	[further] that the tax credit shall be apportioned between the
2	owners in proportion to their contribution to the cost of the
3	system.
4	In the case of a partnership, S corporation, estate, or
5	trust, the tax credit allowable is for every eligible renewable
6	energy technology and commercial seawater air conditioning
7	system, as defined in this section, that is installed and placed
8	in service in the State by the entity. The cost upon which the
9	tax credit is computed shall be determined at the entity level.
10	Distribution and share of credit shall be determined pursuant to
11	section [235-110.7(a).] 704(b) of the Internal Revenue Code, as
12	amended.
13	(b) [The amount of credit allowed for each eligible
14	renewable energy technology system shall not exceed the
15	applicable cap amount, which is determined as follows:
16	(1) If the primary purpose of the solar energy system is
17	to use energy from the sun to heat water for household
18	use, then the cap amounts shall be:
19	(A) \$2,250 per system for single family residential
20	property;

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

1			to section 196 6.5(a)(3), the credit shall be
2			reduced by twenty per cent of the actual system
3			cost or \$1,500, whichever is less;
4		(B)	\$200 per unit per system for multi-family
5			residential property; and
6		(C)	\$500,000 per system for commercial property.]
7	The cap a	mount	for each grid-connected solar energy system that
8	is used p	rimar	ily to generate electricity pursuant to subsection
9	(a)(2) sh	all b	<u>e:</u>
10	(1)	For (eligible systems claiming credits for taxable
11		year	s 2019 or 2020:
12		(A)	\$5,000 per grid-connected solar energy system for
13			a single-family residential property; provided
14			that if all or a portion of the grid-connected
15			solar energy system is used to fulfill the
16			substitute renewable energy technology
17			requirement pursuant to section 196-6.5(a)(3),
18			the credit shall be reduced by twenty-five per
19			cent of the basis or \$2,250, whichever is less;
20		(B)	\$700 per unit per grid-connected solar energy
21			system for multi-family residential property; and

1		<u>(C)</u>	\$500,000 per grid-connected solar energy system
2			for commercial property; and
3	(2)	For	eligible systems claiming credits for taxable
4		year	s 2021 through 2026:
5		(A)	\$2,500 per grid-connected solar energy system for
6			a single-family residential property; provided
7			that if all or a portion of the grid-connected
8			solar energy system is used to fulfill the
9			substitute renewable energy technology
10			requirement pursuant to section 196-6.5(a)(3),
11			the credit shall be reduced by twenty-five per
12			cent of the basis or \$1,875, whichever is less;
13		(B)	\$700 per unit per grid-connected solar energy
14			system for multi-family residential property; and
15		(C)	\$250,000 per grid-connected solar energy system
16			for commercial property.
17	(c)	For	the purposes of this section:
18	["Ac	tual	cost" means costs related to the renewable energy
19	technolog	y sys	tems under subsection (a), including accessories
20	and insta	llati	on, but not including the cost of consumer
21	incentive	pre n	niums unrelated to the operation of the system or

1 offered with the sale of the system and costs for which another 2 credit is claimed under this chapter. 3 "Household use" means any use to which heated water is 4 commonly put in a residential setting, including commercial 5 application of those uses.] 6 "Basis" means costs related to the solar energy, wind 7 energy, or commercial seawater air conditioning system under 8 subsection (a), including accessories, installation, energy 9 storage, and cost of construction to connect to a seawater air 10 conditioning district cooling system, but does not include the 11 cost of consumer incentive premiums unrelated to the operation 12 of the energy system or offered with the sale of the energy 13 system and costs for which another credit is claimed under this 14 chapter. Any cost incurred and paid for the repair, 15 construction, or reconstruction of a structure in conjunction 16 with the installation and placing in service of a solar energy, **17** wind energy, or commercial seawater air conditioning system, such 18 as the reroofing of single-family residential property, multi-19 family residential property, or commercial property, shall not **20** constitute a part of the basis for the purpose of this section; 21 provided that costs incurred for the physical support of the

- 1 solar or wind energy system, such as racking and mounting
- 2 equipment and costs incurred to seal or otherwise return a roof
- 3 to its pre-installation condition, shall constitute part of the
- 4 basis for the purposes of this section.
- 5 The term "basis" used under this section shall be
- 6 consistent with the use of the term "basis" in section 25D or
- 7 section 48 of the Internal Revenue Code, as amended.
- 8 "Commercial seawater air conditioning system" means a
- 9 building air conditioning system for commercial, office, or
- 10 residential buildings connected to a seawater air conditioning
- 11 district cooling system.
- "First placed in service" has the same meaning as in title
- 13 26 Code of Federal Regulations section 1.167(a)-11(e)(1), as
- 14 amended.
- "Grid-connected" means that the individual or corporate
- 16 taxpayer has obtained an approved interconnection agreement from
- 17 an electric utility for the solar or wind energy system and the
- 18 system is connected and normally operated in parallel with the
- 19 electric grid.

1	"Renewable energy technology system" means a new system
2	that captures and converts a renewable source of energy, such as
3	solar or wind energy, into:
4	(1) A usable source of thermal or mechanical energy;
5	(2) Electricity; or
6	(3) Fuel.
7	"Seawater air conditioning district cooling system" means
8	an identifiable facility, equipment, apparatus, or the like that
9	utilizes naturally occurring cold, deep seawater as its primary
10	source of cooling for production of chilled water for
11	distribution to multiple commercial air conditioning systems.
12	"Solar or wind energy system" means any identifiable
13	facility, equipment, apparatus, or the like that converts solar
14	or wind energy to useful thermal or electrical energy for
15	heating, cooling, or reducing the use of other types of energy
16	that are dependent upon fossil fuel for their generation $[-]$;
17	provided that:
18	(1) The total output capacity requirements of the solar or
19	wind energy system shall be:
20	(A) For a single-family residential property, at
21	least five kilowatts per system;

1	<u>(B)</u>	For a multi-family residential property, at least
2		0.360 kilowatts per unit per system;
3	<u>(C)</u>	For a commercial property, at least one thousand
4		kilowatts per system; and
5	(D)	For a wind energy system for commercial property,
6		at least one thousand kilowatts per system; and
7	(2) One	of the following applies:
8	<u>(A)</u>	The construction, reconstruction, or erection of
9		the solar or wind energy system is completed by
10		the taxpayer; or
11	<u>(B)</u>	The solar or wind energy system is acquired by
12		the taxpayer if the original use of the solar or
13		wind energy system commences with the taxpayer.
14	(d) For	taxable years beginning after December 31, 2005,
15	the dollar amo	unt of any utility rebate shall be deducted from
16	the [cost] bas	<u>is</u> of the qualifying system and its installation
17	before applyin	g the state tax credit.
18	(e) The	director of taxation shall prepare any forms that
19	may be necessa	ry to claim a tax credit under this section,
20	including form	s identifying the technology type of each tax
21	gredit glaimed	under this section [whether for selar or wind]

- 1 The director may also require the taxpayer to furnish reasonable
- 2 information to ascertain the validity of the claim for credit
- 3 made under this section and may adopt rules necessary to
- 4 effectuate the purposes of this section pursuant to chapter 91.
- 5 (f) If the tax credit under this section exceeds the
- 6 taxpayer's income tax liability, the excess of the credit over
- 7 liability may be used as a credit against the taxpayer's income
- 8 tax liability in subsequent years until exhausted, unless
- 9 otherwise elected by the taxpayer pursuant to subsection (q) or
- 10 (h). All claims for the tax credit under this section,
- 11 including amended claims, shall be filed on or before the end of
- 12 the twelfth month following the close of the taxable year for
- 13 which the credit may be claimed. Failure to comply with this
- 14 subsection shall constitute a waiver of the right to claim the
- 15 credit.
- 16 (g) For solar energy systems, a taxpayer may elect to
- 17 reduce the eligible credit amount by thirty per cent and if this
- 18 reduced amount exceeds the amount of income tax payment due from
- 19 the taxpayer, the excess of the credit amount over payments due
- 20 shall be refunded to the taxpayer; provided that tax credit
- 21 amounts properly claimed by a taxpayer who has no income tax

- 1 liability shall be paid to the taxpayer; and provided further
- 2 that no refund on account of the tax credit allowed by this
- 3 section shall be made for amounts less than \$1.
- 4 The election required by this subsection shall be made in a
- 5 manner prescribed by the director on the taxpayer's return for
- 6 the taxable year in which the system is installed and placed in
- 7 service. A separate election may be made for each separate
- 8 system that generates a credit. An election once made is
- 9 irrevocable.
- 10 (h) Notwithstanding subsection (g), for any renewable
- 11 energy technology system, an individual taxpayer may elect to
- 12 have any excess of the credit over payments due refunded to the
- 13 taxpayer, if:
- 14 (1) All of the taxpayer's income is exempt from taxation
- 15 under section 235-7(a)(2) or (3); or
- 16 (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);
- 19 provided that tax credits properly claimed by a taxpayer who has
- 20 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] married couple who do not file a joint
- 4 tax return shall only be entitled to make this election to the
- 5 extent that they would have been entitled to make the election
- 6 had they filed a 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.
- 13 (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 first
- 16 placed in service on any newly constructed single-family
- 17 residential property authorized by a building permit issued on
- 18 or after January 1, 2010.
- 19 (j) The tax credit under this section shall be construed
- 20 in accordance with Treasury Regulations and judicial

1 interpretations of similar provisions in sections 25D, 45, and 2 48 of the Internal Revenue Code, as amended. 3 (k) A planned community association, condominium 4 association of apartment owners, or cooperative housing 5 corporation may claim the tax credit under this section in its 6 own name for systems or facilities placed in service and located 7 on common areas. 8 (1) No credit under this section shall be allowed to any 9 federal, state, or local government or any political 10 subdivision, agency, or instrumentality thereof. 11 (m) No credit under this section shall be authorized for 12 taxable years ending after December 31, 2026. 13 $[\frac{1}{1}]$ (n) To the extent feasible, using existing resources 14 to assist the energy-efficiency policy review and evaluation, 15 the department shall assist with data collection on the 16 following for each taxable year: 17 (1) The number of renewable energy technology or 18 commercial seawater air conditioning systems that have 19 qualified for a tax credit during the calendar year 20 by:

Technology type; and

(A)

21

1	(B) Taxpayer type (corporate and individual); and
2	(2) The total cost of the tax credit to the State during
3	the taxable year by:
4	(A) Technology type; and
5	(B) Taxpayer type.
6	[(k)] (o) This section shall apply to eligible renewable
7	energy technology systems that are installed and placed in
8	service on or after July 1, 2009."
9	SECTION 5. Section 241-4.6, Hawaii Revised Statutes, is
10	amended to read as follows:
11	"§241-4.6 Renewable energy technologies[+] and commercial
12	seawater air conditioning system income tax credit. The
12 13	seawater air conditioning system income tax credit. The renewable energy technologies and commercial seawater air
13	renewable energy technologies and commercial seawater air
13 14	renewable energy technologies and commercial seawater air conditioning system income tax credit provided under section
13 14 15	renewable energy technologies <u>and commercial seawater air</u> conditioning system income tax credit provided under section 235-12.5 shall be operative for this chapter for taxable years
13 14 15 16	renewable energy technologies <u>and commercial seawater air</u> conditioning system income tax credit provided under section 235-12.5 shall be operative for this chapter for taxable years beginning after December 31, 2002; provided that the system was
13 14 15 16 17	renewable energy technologies <u>and commercial seawater air</u> <u>conditioning system</u> income tax credit provided under section 235-12.5 shall be operative for this chapter for taxable years beginning after December 31, 2002; provided that the system was installed after June 30, 2003."
13 14 15 16 17 18	renewable energy technologies <u>and commercial seawater air</u> <u>conditioning system</u> income tax credit provided under section 235-12.5 shall be operative for this chapter for taxable years beginning after December 31, 2002; provided that the system was installed after June 30, 2003." PART IV

- 1 applications of the Act that can be given effect without the
- 2 invalid provision or application, and to this end the provisions
- 3 of this Act are severable.
- 4 SECTION 7. This Act does not affect rights and duties that
- 5 matured, penalties that were incurred, and proceedings that were
- 6 begun before its effective date.
- 7 SECTION 8. Statutory material to be repealed is bracketed
- 8 and stricken. New statutory material is underscored.
- 9 SECTION 9. This Act shall take effect on July 1, 2050;
- 10 provided that part III shall apply to taxable years beginning
- 11 after December 31, 2019; provided further that section
- 12 235-12.5(a) (1) (B), (a) (2) (A), (a) (3) (B), (a) (3) (C), and (b) (2),
- 13 Hawaii Revised Statutes, shall take effect on July 1, 2050.

Report Title:

Renewable Energy; Definition; Public Utilities; Renewable Energy Technologies Income Tax Credit; Commercial Seawater Air Conditioning System

Description:

Broadens the definition of "renewable energy" as used in the public utilities commission law to include other self-replenishing non-fossil fuel, non-nuclear resources. Amends the renewable energy technologies income tax credit by including commercial seawater air conditioning systems. (Proposed SD1)

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