A BILL FOR AN ACT

RELATING TO RENEWABLE ENERGY.

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

1	SECTION 1. Section 196-6.5, Hawaii Revised Statutes, is
2	amended to read as follows:
3	"§196-6.5 Solar water heater system required for new
4	single-family residential construction. (a) On or after
5	January 1, 2010, no building permit shall be issued for a new
6	single-family dwelling that does not include a solar water
7	heater system that meets the standards established pursuant to
8	section 269-44, unless the coordinator approves a variance. A
9	variance application shall only be accepted if submitted by an
10	architect or mechanical engineer licensed under chapter 464, who
11	attests that:
12	(1) Installation is impracticable due to poor solar
13	resource;
14	(2) Installation is cost-prohibitive based upon a life
15	cycle cost-benefit analysis that incorporates the
16	average residential utility bill and the cost of the

1		new solar water heater system with a life cycle that
2		does not exceed fifteen years;
3	(3)	A renewable energy technology system[, as defined in
4		section 235-12.5,] is substituted for use as the
5		primary energy source for heating water; or
6	(4)	A demand water heater device approved by Underwriters
7		Laboratories, Inc., is installed; provided that at
8		least one other gas appliance is installed in the
9		dwelling. For the purposes of this paragraph, "demand
10		water heater" means a gas-tankless instantaneous water
11		heater that provides hot water only as it is needed.
12	(b)	A request for a variance shall be submitted to the
13	coordinat	or on an application prescribed by the coordinator and
14	shall inc	lude a description of the location of the property and
15	justifica	tion for the approval of a variance using the criteria
16	establish	ed in subsection (a). A variance shall be deemed
17 .	approved	if not denied within thirty working days after receipt
18	of the va	riance application. The coordinator shall publicize:
19	(1)	All applications for a variance within seven days
20		after receipt of the variance application; and

1	(2) The disposition of all applications for a variance
2	within seven days of the determination of the variance
3	application.
4	(c) The director of business, economic development, and
5	tourism may adopt rules pursuant to chapter 91 to impose and
6	collect fees to cover the costs of administering variances under
7	this section. The fees, if any, shall be deposited into the
8	energy security special fund established under section 201-12.8.
9	(d) Nothing in this section shall preclude any county from
10	establishing procedures and standards required to implement this
11	section.
12	(e) Nothing in this section shall preclude participation
13	in any utility demand-side management program or public benefits
14	fee program under part VII of chapter 269.
15	(f) As used in this section, "renewable energy technology
16	system" means a new system that captures and converts a
17	renewable source of energy, such as solar or wind energy, into:
18	(1) A usable source of thermal or mechanical energy;
19	(2) Electricity; or
20	(3) Fuel."

1	SECTION 2. Section 235-12.5, Hawaii Revised Statutes, is
2	amended to read as follows:
3	"§235-12.5 [Renewable energy technologies;] Solar energy,
4	energy storage, wind energy system; income tax credit. (a)
5	When the requirements of subsection $[\frac{d}{d}]$ (c) are met, each
6	individual or corporate taxpayer that files an individual or
7	corporate net income tax return for a taxable year may claim a
8	tax credit under this section against the Hawaii state
9	individual or corporate net income tax. [The tax credit may be
10	claimed for every eligible renewable energy technology system
11	that is installed and placed in service in the State by a
12	taxpayer during the taxable year.] The tax credit may be
13	claimed as follows:
14	(1) For each solar energy system[+] that is used
15	exclusively to heat water and is installed and first
16	placed in service in the State by a taxpayer during
17	the taxable year: thirty-five per cent of the [actual
18	cost or the cap amount determined in subsection (b),
19	whichever is less; or] basis up to the applicable cap
20	amount, which is determined as follows:

1		<u>(A)</u>	\$2,250 per solar energy system for single-lamily		
2			residential property;		
3		(B)	\$350 per unit per solar energy system for multi-		
4			family residential property; and		
5		<u>(C)</u>	\$250,000 per solar energy system for commercial		
6			property;		
7	(2)	For	each solar energy system that is used primarily to		
8		gene	rate electricity and is installed and first placed		
9		in s	service in the State by a taxpayer during the		
10		taxa	taxable year:		
11		(A)	Twenty-five per cent of the basis for solar		
12			energy systems first placed in service after		
13			December 31, 2018, and before January 1, 2024, up		
14			to the applicable cap amount, which is determined		
15			as follows:		
16			(i) \$5,000 per solar energy system for single-		
17			family residential property; provided that		
18			if all or a portion of the solar energy		
19	•		system is used to fulfill the substitute		
20			renewable energy technology requirement		
21			pursuant to section 196-6.5(a)(3), the		

1		credit shall be reduced by twenty-five per
2		cent of the basis or \$2,250, whichever is
3	·	less;
4	<u>(ii)</u>	\$350 per unit per solar energy system for
5		multi-family residential property; and
6	<u>(iii)</u>	\$500,000 per solar energy system for
7		commercial property;
8	prov	ided that a solar energy system that has an
9	exec	uted customer service contract dated prior to
10	June	30, 2018, and is installed and first placed
11	<u>in s</u>	ervice before December 31, 2019, shall
12	rece	ive thirty-five per cent of the basis for the
13	sola	r energy system, up to the applicable cap
14	amou	nt as described in this subparagraph;
15	(B) Twen	ty per cent of the basis for solar energy
16	syst	ems first placed in service after
17	Dece	mber 31, 2023, and before January 1, 2025, up
18	to t	he applicable cap amount, which is determined
19	as f	ollows:
20	<u>(i)</u>	\$5,000 per solar energy system for single-
21		family residential property; provided that

1	if all or a portion of the solar energy
2	system is used to fulfill the substitute
3	renewable energy technology requirement
4	pursuant to section 196-6.5(a)(3), the
5	credit shall be reduced by twenty per cent
6	of the basis or \$2,250, whichever is less;
7	(ii) \$350 per unit per solar energy system for
8	multi-family residential property; and
9	(iii) \$500,000 per solar energy system for
10	commercial property; and
11	(C) Fifteen per cent of the basis for solar energy
12	systems first placed in service after
13	December 31, 2024, up to the applicable cap
14	amount, which is determined as follows:
15	(i) \$5,000 per solar energy system for single-
16	family residential property; provided that
17	if all or a portion of the solar energy
18	system is used to fulfill the substitute
19	renewable energy technology requirement
20	pursuant to section 196-6.5(a)(3), the

1		credit shall be reduced by fifteen per cent
2		of the basis or \$2,250, whichever is less;
3		(ii) \$350 per unit per solar energy system for
4		multi-family residential property; and
5		(iii) \$500,000 per solar energy system for
6		commercial property;
7	(3)	For each solar energy system that is used primarily to
8		generate electricity and is installed and first placed
9		in service in the State by a taxpayer during the
10		caxable year; provided that the solar energy system is
11		grid-connected and incorporates an energy storage
12		system:
13		(A) Twenty-five per cent of the basis for solar
14		energy systems first placed in service after
15		December 31, 2018, and before January 1, 2024, up
16		to the applicable cap amount, which is determined
17		as follows:
18		(i) \$10,000 per solar energy system for single-
19		family residential property; provided that
20		if all or a portion of the solar energy
21		system is used to fulfill the substitute

1		renewable energy technology requirement
2		pursuant to section 196-6.5(a)(3), the
3		credit shall be reduced by twenty-five per
4		cent of the basis or \$2,250, whichever is
5		<pre>less;</pre>
6	<u>(ii)</u>	\$700 per unit per solar energy system for
7		multi-family residential property; and
8	<u>(iii)</u>	\$500,000 per solar energy system for
9		commercial property;
10	prov	ided that a solar energy system that has an
11	exec	uted customer service contract dated prior to
12	June	30, 2018, and is installed and first placed
13	in s	ervice before December 31, 2019, shall
14	rece	ive thirty-five per cent of the basis for the
15	sola	r energy system, up to the applicable cap
16	amou	nt as described in this subparagraph;
17	(B) Twen	ty per cent of the basis for solar energy
18	syst	ems first placed in service after
19	Decei	mber 31, 2023, and before January 1, 2025, up
20	to t	he applicable cap amount, which is determined
21	as f	ollows:

1	<u>(i)</u>	\$10,000 per solar energy system for single-
2		family residential property; provided that
3		if all or a portion of the solar energy
4		system is used to fulfill the substitute
5		renewable energy technology requirement
6		pursuant to section 196-6.5(a)(3), the
7		credit shall be reduced by twenty per cent
8		of the basis or \$2,250, whichever is less;
9	<u>(ii)</u>	\$700 per unit per solar energy system for
10		multi-family residential property; and
11	<u>(iii)</u>	\$500,000 per solar energy system for
12		commercial property; and
13	(C) Fifte	een per cent of the basis for solar energy
14	syste	ems first placed in service after
15	Decen	ber 31, 2024, up to the applicable cap
16	amour	nt, which is determined as follows:
17	<u>(i)</u>	\$10,000 per solar energy system for single-
18		family residential property; provided that
19		if all or a portion of the solar energy
20		system is used to fulfill the substitute
21		renewable energy technology requirement

1			pursuant to section 196-6.5(a)(3), the
2			credit shall be reduced by fifteen per cent
3			of the basis or \$2,250, whichever is less;
4		<u>(ii)</u>	\$700 per unit per solar energy system for
5			multi-family residential property; and
6		<u>(iii)</u>	\$500,000 per solar energy system for
7			commercial property;
8	(4)	For each	energy storage system that is installed and
9		first pla	ced in service in the State by a taxpayer
10		during th	e taxable year, if the cost of the energy
11		storage s	ystem is not also included in the basis of a
12		solar or	wind energy system under paragraphs (2), (3),
13		or (6):	
14		(A) Twen	ty-five per cent of the basis for energy
15		stor	age systems first placed in service after
16		Dece	mber 31, 2018, and before January 1, 2024, up
17		to t	he applicable cap amount, which is determined
18		as f	ollows:
19		<u>(i)</u>	\$5,000 per energy storage system for single-
20			family residential property;

1	(ii) \$350 per unit per energy storage system for
2	multi-family residential property; and
3	(iii) \$500,000 per energy storage system for
4	commercial property;
5	provided that an energy storage system that has
6	an executed customer service contract dated prior
7	to June 30, 2018, and is installed and first
8	placed in service before December 31, 2019, shall
9	receive thirty-five per cent of the basis for the
10	energy storage system, up to the applicable cap
11	amount as described in this subparagraph;
12	(B) Twenty per cent of the basis for energy storage
13	systems first placed in service after
14	December 31, 2023, and before January 1, 2025, up
15	to the applicable cap amount, which is determined
16	as follows:
17	(i) \$5,000 per energy storage system for single-
18	family residential property;
19	(ii) \$350 per unit per energy storage system for
20	multi-family residential property; and

1		(iii) \$500,000 per energy storage system for
2		commercial property; and
3		(C) Fifteen per cent of the basis for energy storage
4		systems first placed in service after
5		December 31, 2024, up to the applicable cap
6		amount, which is determined as follows:
7		(i) \$5,000 per energy storage system for single
8		family residential property;
9		(ii) \$350 per unit per energy storage system for
10		multi-family residential property; and
11		(iii) \$500,000 per energy storage system for
12		commercial property;
13	(5)	For each combined energy storage and solar energy
14		system that is installed and first placed in service
15		in the State by a taxpayer during the taxable year,
16		the applicable credit available for an energy storage
17		system under paragraph (4) plus one-half of the
18		applicable credit for a solar energy system under
19		paragraph (2) or (3); and
20	[-(2) -]	(6) For each [wind-powered] wind energy system[+],
21		twenty per cent of the [actual cost or the cap amount

S.B. NO. S.D. 2

1	dete	rmined in subsection (b), whichever is less;				
2	basi	s, up to the applicable cap amount, which is				
3	determined as follows:					
4	(A)	\$1,500 per wind energy system for single-family				
5		residential property; provided that if all or a				
6		portion of the system is used to fulfill the				
7		substitute renewable energy technology				
8		requirement pursuant to section 196-6.5(a)(3),				
9		the credit shall be reduced by twenty per cent of				
10		the basis or \$1,500, whichever is less;				
11	(B)	\$200 per unit per wind energy system for multi-				
12		family residential property; and				
13	<u>(C)</u>	\$500,000 per wind energy system for commercial				
14		property.				
15	[provided that	multiple Multiple owners of a single system				
16	shall be entitled to a single tax credit[+], and [provided					
17	further that]	the tax credit shall be apportioned between the				
18	owners in proportion to their contribution to the cost of the					
19	system.					
20	In the case of a partnership, S corporation, estate, or					
21	trust, the tax	credit allowable is for every eligible [renewable				

S.B. NO. S.D. 2

1	energy technology solar or wind energy system that is installed
2	and placed in service in the State by the entity. The cost upon
3	which the tax credit is computed shall be determined at the
4	entity level. Distribution and share of credit shall be
5	determined pursuant to section [235-110.7(a).] 704(b) of the
6	Internal Revenue Code.
7	[(b) The amount of credit allowed for each eligible
8	renewable energy technology system shall not exceed the
9	applicable cap amount, which is determined as follows:
10	(1) If the primary purpose of the solar energy system is
11	to use energy from the sun to heat water for household
12	use, then the cap amounts shall be:
13	(A) \$2,250 per system for single family residential
14	property;
15	(B) \$350 per unit per system for multi-family
16	residential property; and
17	(C) \$250,000 per system for commercial property;
18	(2) For all other solar energy systems, the cap amounts
19	shall be:
20	(A) \$5,000 per system for single-family residential
21	property; provided that if all or a portion of

1			the system is used to fulfill the substitute
2			renewable energy technology requirement pursuant
3			to section 196-6.5(a)(3), the credit shall be
4			reduced by thirty-five per cent of the actual
5			system cost or \$2,250, whichever is less;
6	~	(B)	\$350 per unit per system for multi-family
7			residential property; and
8		(C)	\$500,000 per system for commercial property; and
9	(3)	For	all wind powered energy systems, the cap amounts
10		shal	l-be:
11		(A)	\$1,500 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 twenty per cent of the actual system
17			cost or \$1,500, whichever is less;
18		(B)	\$200 per unit per system for multi family
19			residential property; and
20		(C)	\$500,000 per system for commercial property.
21	-(e)]	(b)	For the purposes of this section:

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1
          ["Actual cost" means costs related to the renewable energy
 2
    technology systems under subsection (a), including accessories
 3
    and installation, but not including the cost of consumer
 4
    incentive premiums unrelated to the operation of the system or
 5
    offered with the sale of the system and costs for which another
 6
    credit is claimed under this chapter.
 7
         "Household use" means any use to which heated water is
    commonly put in a residential setting, including commercial
8
9
    application of those uses.
10
         "Renewable energy technology system" means a new system
11
    that captures and converts a renewable source of energy, such as
12
    solar or wind energy, into:
13
         (1) A usable source of thermal or mechanical energy;
14
         (2) Electricity; or
15
         (3) Fuel.
16
         "Basis" means costs related to the solar energy, wind
17
    energy, or energy storage system under subsection (a), including
18
    accessories, energy storage, and installation, but does not
19
    include the cost of consumer incentive premiums unrelated to the
20
    operation of the energy system or offered with the sale of the
21
    energy system and costs for which another credit is claimed
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1 under this chapter. Any cost incurred and paid for the repair, 2 construction, or reconstruction of a structure in conjunction 3 with the installation and placing in service of a solar or wind energy system, such as the reroofing of single-family 4 5 residential property, multi-family residential property, or 6 commercial property, shall not constitute a part of the basis for 7 the purpose of this section; provided that costs incurred for the 8 physical support of the solar or wind energy system, such as 9 racking and mounting equipment and costs incurred to seal or 10 otherwise return a roof to its pre-installation condition shall 11 constitute part of the basis for the purposes of this section. **12** The basis used under this section shall be consistent with 13 the use of the term "basis" in section 25D or section 48 of the 14 Internal Revenue Code. 15 "Energy storage system" means any identifiable facility, 16 equipment, apparatus, or the like, including a battery, grid-17 interactive water heater, or ice storage air conditioner, that 18 is permanently fixed to a site and electrically connected to a 19 site distribution panel by means of installed wiring, and that 20 receives electricity generated from various sources, stores that 21 electricity as electrical, chemical, thermal, or mechanical

1	energy, and delivers the energy back to an electric utility or				
2	the user of the electric system at a later time.				
3	"First placed in service" has the same meaning as in title				
4	26 Code of Federal Regulations section 1.167(a)-11(e)(1).				
5	"Grid-connected" means that the individual or corporate				
6	taxpayer has obtained an approved interconnection agreement from				
7	an electric utility for the solar energy system or whose				
8	facility does not have an existing tie to the electric grid.				
9	"Solar or wind energy system" means any identifiable				
10	facility, equipment, apparatus, or the like that converts solar				
11	or wind energy to useful thermal or electrical energy for				
12	heating, cooling, or reducing the use of other types of energy				
13	that are dependent upon fossil fuel for their generation $[-]_{\underline{i}}$				
14	<pre>provided that:</pre>				
15	(1) The construction, reconstruction, or erection of the				
16	solar or wind energy system is completed by the				
17	taxpayer; or				
18	(2) The solar or wind energy system is acquired by the				
19	taxpayer if the original use of the solar or wind				
20	energy system commences with the taxpayer.				

1 $[\frac{1}{2}]$ (c) For taxable years beginning after December 31, 2 2005, the dollar amount of any utility rebate shall be deducted 3 from the [cost] basis of the qualifying system and its 4 installation before applying the state tax credit. 5 [+(e)-] (d) The director of taxation shall prepare any forms 6 that may be necessary to claim a tax credit under this section, 7 including forms identifying the technology type of each tax 8 credit claimed under this section [, whether for solar or wind]. 9 The director may also require the taxpayer to furnish reasonable information to ascertain the validity of the claim for credit 10 11 made under this section and may adopt rules necessary to 12 effectuate the purposes of this section pursuant to chapter 91. 13 $\left[\frac{f}{f}\right]$ (e) If the tax credit under this section exceeds the taxpayer's income tax liability, the excess of the credit over 14 15 liability may be used as a credit against the taxpayer's income 16 tax liability in subsequent years until exhausted, unless 17 otherwise elected by the taxpayer pursuant to subsection (f) or (q) [or (h)]. All claims for the tax credit under this section, 18 including amended claims, shall be filed on or before the end of 19 the twelfth month following the close of the taxable year for 20 21 which the credit may be claimed. Failure to comply with this

1 subsection shall constitute a waiver of the right to claim the 2 credit. 3 $\left[\frac{g}{g}\right]$ (f) For solar or wind energy systems, a taxpayer may 4 elect to reduce the eliqible credit amount by thirty per cent 5 and if this reduced amount exceeds the amount of income tax 6 payment due from the taxpayer, the excess of the credit amount 7 over payments due shall be refunded to the taxpayer; provided 8 that tax credit amounts properly claimed by a taxpayer who has 9 no income tax liability shall be paid to the taxpayer; and 10 provided further that no refund on account of the tax credit 11 allowed by this section shall be made for amounts less than \$1. 12 The election required by this subsection shall be made in a 13 manner prescribed by the director on the taxpayer's return for 14 the taxable year in which the solar or wind energy system is 15 installed and first placed in service. A separate election may 16 be made for each separate solar or wind energy system that 17 generates a credit. An election once made is irrevocable. $[\frac{h}{g}]$ (q) Notwithstanding subsection $[\frac{g}{g}]$ (f), for any 18 19 [renewable energy technology] solar or wind energy system, an 20 individual taxpayer may elect to have any excess of the credit

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1
    over payments due refunded to the taxpayer[7] without discount,
2
    if:
3
         (1)
             All of the taxpayer's income is exempt from taxation
4
              under section 235-7(a)(2) or (3); or
5
         (2)
              The taxpayer's adjusted gross income is $20,000 or
6
              less (or $40,000 or less if filing a tax return as
7
              married filing jointly);
8
    provided that tax credits properly claimed by a taxpayer who has
9
    no income tax liability shall be paid to the taxpayer; and
10
    provided further that no refund on account of the tax credit
11
    allowed by this section shall be made for amounts less than $1.
12
         A [husband and wife] married couple who do not file a joint
13
    tax return shall only be entitled to make this election to the
14
    extent that they would have been entitled to make the election
15
    had they filed a joint tax return.
16
         The election required by this subsection shall be made in a
17
    manner prescribed by the director on the taxpayer's return for
18
    the taxable year in which the solar or wind energy system is
19
    installed and first placed in service. A separate election may
20
    be made for each separate solar or wind energy system that
21
    generates a credit. An election once made is irrevocable.
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- 1 [(i)] (h) No taxpayer shall be allowed a credit under this
 2 section for the portion of the renewable energy technology
- 3 system required by section 196-6.5 that is installed and first
- 4 placed in service on any newly constructed single-family
- 5 residential property authorized by a building permit issued on
- 6 or after January 1, 2010.
- 7 (i) The tax credit under this section shall be construed
- 8 in accordance with Treasury Regulations and judicial
- 9 interpretations of similar provisions in sections 25D, 45, and
- 10 48 of the Internal Revenue Code.
- 11 (j) A planned community association, condominium
- 12 association of owners, or cooperative housing corporation may
- 13 claim the tax credit under this section in its own name for
- 14 systems or facilities placed in service and located on common
- 15 areas.
- 16 (k) No credit under this section shall be allowed to any
- federal, state, or local government or any political
- 18 subdivision, agency, or instrumentality thereof.
- (1) No credit under this section shall be authorized for
- 20 taxable years ending after December 31, 2036.

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1
          \left[\frac{(+j)}{(+j)}\right] (m) To the extent feasible, using existing resources
2
    to assist the energy-efficiency policy review and evaluation,
3
    the department shall assist with data collection on the
4
    following for each taxable year:
5
         (1)
              The number of [renewable energy technology] solar or
6
              wind energy systems that have qualified for a tax
7
               credit during the calendar year by:
8
               (A)
                    Technology type; and
9
               (B)
                    Taxpayer type (corporate and individual); and
10
             The total cost of the tax credit to the State during
         (2)
11
               the taxable year by:
12
                    Technology type; and
               (A)
13
                    Taxpayer type.
               (B)
14
          [(k) This section shall apply to eliqible renewable energy
15
    technology systems that are installed and placed in service on
16
    or after July 1, 2009.]"
17
         SECTION 3. If any provision of this Act, or the
18
    application thereof to any person or circumstance, is held
19
    invalid, the invalidity does not affect other provisions or
    applications of the Act that can be given effect without the
20
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- 1 invalid provision or application, and to this end the provisions
- 2 of this Act are severable.
- 3 SECTION 4. This Act does not affect rights and duties that
- 4 matured, penalties that were incurred, and proceedings that were
- 5 begun before its effective date.
- 6 SECTION 5. Statutory material to be repealed is bracketed
- 7 and stricken. New statutory material is underscored.
- 8 SECTION 6. This Act shall take effect on July 1, 2050;
- 9 provided that section 2 shall apply to taxable years beginning
- 10 after December 31, 2018.

Report Title:

Renewable Energy; Solar and Wind Energy System; Energy Storage System; Tax Credit

Description:

Replaces the current renewable energy technology systems tax credit with tax credits for solar or wind energy systems and energy storage systems. Applies to taxable years beginning after 12/31/2018. 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.