A BILL FOR AN ACT

RELATING TO SOLAR ENERGY.

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

The legislature finds that increasing local 1 SECTION 1. renewable energy production can greatly benefit Hawaii's 2 economy, energy sustainability, and the environment, while 3 4 supporting local agriculture and improving food security. 5 The legislature finds that Hawaii is dangerously dependent on imported fossil fuel, which currently supplies more than 6 ninety per cent of the State's energy. In 2012, Hawaii imported 7 approximately forty-five million barrels of petroleum fuels, 8 spending approximately \$5,000,000,000 or seven per cent of the 9 State's gross domestic product. Having previously established a 10 renewable portfolio standard of forty per cent renewable energy 11 by the year 2030, the legislature finds that while some progress 12 has been made, significantly more renewable energy capacity must 13 be brought online to achieve that goal. 14 The legislature further finds that utility scale solar 15 energy facilities can generate clean energy at significantly 16 lower cost and with less environmental impact than conventional 17

As an example, a one hundred megawatt solar energy



- 1 facility could save residents \$300,000,000 in electricity costs
- 2 over twenty years compared to the utility's current avoided
- 3 cost, while also eliminating the need to import and burn three
- 4 hundred million gallons of petroleum and the consequent emission
- 5 of 3,400,000 tons of carbon dioxide into the atmosphere.
- 6 The legislature finds that the productive use of
- 7 agricultural land is important for local food production and
- 8 that utility scale energy projects on agricultural land can
- 9 enhance a property's agricultural productivity. Energy
- 10 generation can improve the viability of land for agriculture by
- 11 providing infrastructure and subsidizing land costs for
- 12 complementary agricultural uses. Wind energy facilities are
- 13 permitted within agricultural districts with soil classified by
- 14 the land study bureau's detailed land classification as overall
- 15 (master) productivity rating class A, B, C, D, or E, and
- 16 existing wind projects have supported concurrent agricultural
- 17 uses such as grazing of livestock.
- 18 The legislature previously found that allowing solar energy
- 19 facilities within the agricultural district furthers and is
- 20 consistent with the purposes, standards, and criteria of uses
- 21 within agricultural lands, and that renewable energy facilities

- increase both the State's energy self-sufficiency and food
 security.
- 3 The purpose of this Act is to enable the complementary uses
- 4 of utility scale solar energy generation and local food
- 5 production on agricultural land with soil classified by the land
- 6 study bureau's detailed land classification as overall (master)
- 7 productivity rating class B or C.
- 8 SECTION 2. Section 205-2, Hawaii Revised Statutes, is
- 9 amended by amending subsection (d) to read as follows:
- 10 "(d) Agricultural districts shall include:
- 11 (1) Activities or uses as characterized by the cultivation
- of crops, crops for bioenergy, orchards, forage, and
- forestry;
- 14 (2) Farming activities or uses related to animal husbandry
- and game and fish propagation;
- 16 (3) Aquaculture, which means the production of aquatic
- plant and animal life within ponds and other bodies of
- 18 water;
- 19 (4) Wind generated energy production for public, private,
- 20 and commercial use;

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1	(5)	Biof	uel production, as described in section
2		205-	4.5(a)(16), for public, private, and commercial
3		use;	
4	(6)	Sola	r energy facilities; provided that:
5		(A)	This paragraph shall apply only to land with soil
6			classified by the land study bureau's detailed
7			land classification as overall (master)
8			productivity rating class B, C, D, or E; and
9		(B)	Solar energy facilities placed within land with
10	·		soil classified as overall productivity rating
11			class B or C shall not occupy more than ten per
12			cent of the acreage of the parcel, or twenty
13			acres of land, whichever is lesser[+], unless the
14			area occupied by the solar energy facilities is
15			also devoted to agricultural activities; provided
16			further that the solar energy facilities shall be
17			decommissioned and removed within twelve months
18			of the conclusion of operation; and
19		(C)	For the purposes of this paragraph, "agricultural
20			activities means the activities described in
21			paragraphs (1) to (3);

1	(7)	Bona fide agricultural services and uses that support
2		the agricultural activities of the fee or leasehold
3		owner of the property and accessory to any of the
4		above activities, regardless of whether conducted on
5		the same premises as the agricultural activities to
6		which they are accessory, including farm dwellings as
7		defined in section 205-4.5(a)(4), employee housing,
8		farm buildings, mills, storage facilities, processing
9		facilities, photovoltaic, biogas, and other small-
10		scale renewable energy systems producing energy solely
11		for use in the agricultural activities of the fee or
12		leasehold owner of the property, agricultural-energy
13		facilities as defined in section 205-4.5(a)(17),
14		vehicle and equipment storage areas, and plantation
15		community subdivisions as defined in section
16		205-4.5(a)(12);
17	(8)	Wind machines and wind farms;
18	(9)	Small-scale meteorological, air quality, noise, and
19		other scientific and environmental data collection and
20		monitoring facilities occupying less than one-half

acre of land; provided that these facilities shall not

1		be used as or equipped for use as living quarters or
2		dwellings;
3	(10)	Agricultural parks;
4	(11)	Agricultural tourism conducted on a working farm, or a
5		farming operation as defined in section 165-2, for the
6		enjoyment, education, or involvement of visitors;
7		provided that the agricultural tourism activity is
8		accessory and secondary to the principal agricultural
9		use and does not interfere with surrounding farm
10		operations; and provided further that this paragraph
11		shall apply only to a county that has adopted
12		ordinances regulating agricultural tourism under
13		section 205-5;
14	(12)	Agricultural tourism activities, including overnight
15		accommodations of twenty-one days or less, for any one
16		stay within a county; provided that this paragraph
17		shall apply only to a county that includes at least
18		three islands and has adopted ordinances regulating
19		agricultural tourism activities pursuant to section
20		205-5; provided further that the agricultural tourism
21		activities coexist with a bona fide agricultural
22		activity. For the purposes of this paragraph, "bona

1	:	fide	agricultural activity" means a farming operation				
2	as defined in section 165-2;						
3	(13) Open area recreational facilities;						
4	[十](14)[十](Geotl	nermal resources exploration and geothermal				
5	:	resou	arces development, as defined under section 182-1;				
6	•	and					
7	[+](15)[+]	Agri	cultural-based commercial operations, including:				
8		(A)	A roadside stand that is not an enclosed				
9			structure, owned and operated by a producer for				
10			the display and sale of agricultural products				
11			grown in Hawaii and value-added products that				
12			were produced using agricultural products grown				
13			in Hawaii;				
14		(B)	Retail activities in an enclosed structure owned				
15			and operated by a producer for the display and				
16			sale of agricultural products grown in Hawaii,				
17			value-added products that were produced using				
18			agricultural products grown in Hawaii, logo items				
19			related to the producer's agricultural				
20			operations, and other food items; and				
21		(C)	A retail food establishment owned and operated by				
22			a producer and permitted under [title 11,]				

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1	chapter 12 of the rules of the department of
2	health that prepares and serves food at retail
3	using products grown in Hawaii and value-added
4	products that were produced using agricultural
5	products grown in Hawaii.
6	The owner of an agricultural-based commercial
7	operation shall certify, upon request of an officer or
8	agent charged with enforcement of this chapter under
9	section 205-12, that the agricultural products
10	displayed or sold by the operation meet the
11	requirements of this paragraph.
12	Agricultural districts shall not include golf courses and golf
13	driving ranges, except as provided in section 205-4.5(d).
14	Agricultural districts include areas that are not used for, or
15	that are not suited to, agricultural and ancillary activities by
16	reason of topography, soils, and other related characteristics."
17	SECTION 3. Section 205-4.5, Hawaii Revised Statutes, is
18	amended by amending subsection (a) to read as follows:
19	"(a) Within the agricultural district, all lands with soil
20	classified by the land study bureau's detailed land
21	classification as overall (master) productivity rating class A
22	or B shall be restricted to the following permitted uses:

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1	(1)	Cultivation of crops, including crops for bioenergy,
2		flowers, vegetables, foliage, fruits, forage, and
3		timber;
4	(2)	Game and fish propagation;
5	(3)	Raising of livestock, including poultry, bees, fish,
6		or other animal or aquatic life that are propagated
7		for economic or personal use;
8	(4)	Farm dwellings, employee housing, farm buildings, or
9		activities or uses related to farming and animal
10		husbandry. "Farm dwelling", as used in this
11		paragraph, means a single-family dwelling located on
12		and used in connection with a farm, including clusters
13		of single-family farm dwellings permitted within
14		agricultural parks developed by the State, or where

17 (5) Public institutions and buildings that are necessary

18 for agricultural practices;

occupying the dwelling;

agricultural activity provides income to the family

19 (6) Public and private open area types of recreational
20 uses, including day camps, picnic grounds, parks, and
21 riding stables, but not including dragstrips,

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1		airports, drive-in theaters, golf courses, golf
2		driving ranges, country clubs, and overnight camps;
3	(7)	Public, private, and quasi-public utility lines and
4		roadways, transformer stations, communications
5		equipment buildings, solid waste transfer stations,
6		major water storage tanks, and appurtenant small
7		buildings such as booster pumping stations, but not
8		including offices or yards for equipment, material,
9		vehicle storage, repair or maintenance, treatment
10		plants, corporation yards, or other similar
11		structures;
12	(8)	Retention, restoration, rehabilitation, or improvement
13		of buildings or sites of historic or scenic interest;
14	(9)	Agricultural-based commercial operations as described
15		in section [+]205-2(d)(15)[+];
16	(10)	Buildings and uses, including mills, storage, and
17		processing facilities, maintenance facilities,
18		photovoltaic, biogas, and other small-scale renewable
19		energy systems producing energy solely for use in the
20		agricultural activities of the fee or leasehold owner
21		of the property, and vehicle and equipment storage
22		areas that are normally considered directly accessory



1		to t	he above-mentioned uses and are permitted under		
2		sect	ion 205-2(d);		
3	(11)	Agricultural parks;			
4	(12)	Plan	Plantation community subdivisions, which as used in		
5		this	chapter means an established subdivision or		
6		clus	ter of employee housing, community buildings, and		
7		agri	cultural support buildings on land currently or		
8		form	erly owned, leased, or operated by a sugar or		
9		pine	apple plantation; provided that the existing		
10		structures may be used or rehabilitated for use, and			
11		new employee housing and agricultural support			
12		buildings may be allowed on land within the			
13		subdivision as follows:			
14		(A) The employee housing is occupied by employees or			
15			former employees of the plantation who have a		
16			property interest in the land;		
17		(B)	The employee housing units not owned by their		
18			occupants shall be rented or leased at affordable		
19			rates for agricultural workers; or		
20		(C)	The agricultural support buildings shall be		
21			rented or leased to agricultural business		
22			operators or agricultural support services;		

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1	(13)	Agricultural tourism conducted on a working farm, or a
2		farming operation as defined in section 165-2, for the
3		enjoyment, education, or involvement of visitors;
4		provided that the agricultural tourism activity is
5		accessory and secondary to the principal agricultural
6		use and does not interfere with surrounding farm
7		operations; and provided further that this paragraph
8		shall apply only to a county that has adopted
9	. •	ordinances regulating agricultural tourism under
10		section 205-5;
11	(14)	Agricultural tourism activities, including overnight
12		accommodations of twenty-one days or less, for any one
13		stay within a county; provided that this paragraph
14		shall apply only to a county that includes at least
15		three islands and has adopted ordinances regulating
16		agricultural tourism activities pursuant to section
17		205-5; provided further that the agricultural tourism
18		activities coexist with a bona fide agricultural
19		activity. For the purposes of this paragraph, "bona
20		fide agricultural activity" means a farming operation
21		as defined in section 165-2:

1	(15)	Wind energy facilities, including the appurtenances
2		associated with the production and transmission of
3		wind generated energy; provided that the wind energy
4		facilities and appurtenances are compatible with
5		agriculture uses and cause minimal adverse impact on
6		agricultural land;
7	(16)	Biofuel processing facilities, including the
8		appurtenances associated with the production and
9		refining of biofuels that is normally considered
10		directly accessory and secondary to the growing of the
11		energy feedstock; provided that biofuel processing
12		facilities and appurtenances do not adversely impact
13		agricultural land and other agricultural uses in the
14		vicinity.
15		For the purposes of this paragraph:
16		"Appurtenances" means operational infrastructure
17		of the appropriate type and scale for economic
18		commercial storage and distribution, and other similar
19		handling of feedstock, fuels, and other products of
20		biofuel processing facilities.
21		"Biofuel processing facility" means a facility
22		that produces liquid or gaseous fuels from organic



1		sources such as biomass crops, agricultural residues,
2		and oil crops, including palm, canola, soybean, and
3		waste cooking oils; grease; food wastes; and animal
4		residues and wastes that can be used to generate
5		energy;
6	(17)	Agricultural-energy facilities, including
7		appurtenances necessary for an agricultural-energy
8		enterprise; provided that the primary activity of the
9		agricultural-energy enterprise is agricultural
10		activity. To be considered the primary activity of an
11		agricultural-energy enterprise, the total acreage
12		devoted to agricultural activity shall be not less
13		than ninety per cent of the total acreage of the
14		agricultural-energy enterprise. The agricultural-
15		energy facility shall be limited to lands owned,
16		leased, licensed, or operated by the entity conducting
17		the agricultural activity.
18		As used in this paragraph:
19		"Agricultural activity" means any activity
20		described in paragraphs (1) to (3) of this subsection.
21		"Agricultural-energy enterprise" means an
22	•	enterprise that integrally incorporates an



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1	agricultural	activity	with	an	agricultural-energy
2	facility.				

"Agricultural-energy facility" means a facility that generates, stores, or distributes renewable energy as defined in section 269-91 or renewable fuel including electrical or thermal energy or liquid or gaseous fuels from products of agricultural activities from agricultural lands located in the State.

"Appurtenances" means operational infrastructure of the appropriate type and scale for the economic commercial generation, storage, distribution, and other similar handling of energy, including equipment, feedstock, fuels, and other products of agricultural-energy facilities;

(18) Construction and operation of wireless communication antennas; provided that, for the purposes of this paragraph, "wireless communication antenna" means communications equipment that is either freestanding or placed upon or attached to an already existing structure and that transmits and receives electromagnetic radio signals used in the provision of all types of wireless communications services;



1		provided further that nothing in this paragraph shall
2		be construed to permit the construction of any new
3		structure that is not deemed a permitted use under
4		this subsection;
5	(19)	Agricultural education programs conducted on a farming
6		operation as defined in section 165-2, for the
7		education and participation of the general public;
8		provided that the agricultural education programs are
9		accessory and secondary to the principal agricultural
10		use of the parcels or lots on which the agricultural
11		education programs are to occur and do not interfere
12		with surrounding farm operations. For the purposes of
13		this section, "agricultural education programs" means
14		activities or events designed to promote knowledge and
15		understanding of agricultural activities and practices
16		conducted on a farming operation as defined in section
17		165-2;
18	(20)	Solar energy facilities that [do not occupy more than
19		ten per cent of the acreage of the parcel, or twenty
20		acres of land, whichever is lesser; provide an area
21		of land for agricultural food production that is equal
22		to or greater than the area occupied by the solar



1	energy equipment, which equipment shall be
2	decommissioned and removed within twelve months of the
3	conclusion of the operation; provided that this use
4	shall not be permitted on lands with soil classified
5	by the land study bureau's detailed land
6	classification as overall (master) productivity rating
7	class A; or
8	[+](21)[+]Geothermal resources exploration and geothermal
9	resources development, as defined under section
10	182-1."
11	SECTION 4. Statutory material to be repealed is bracketed
12	and stricken. New statutory material is underscored.
13	SECTION 5. This Act shall take effect upon its approval.
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INTRODUCED BY:

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H.B. NO. ኔኤን

Report Title:

Agricultural Lands; Solar Energy

Description:

Allows solar energy facilities to be placed within agricultural lands with soil classified as overall productivity rating class B or C if the area occupied by the solar energy facilities is also devoted to agricultural activities and requires that the solar energy facilities be decommissioned and removed within twelve months of the conclusion of operation.

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