THE SENATE TWENTY-FIFTH LEGISLATURE, 2010 STATE OF HAWAII

S.B. NO. ²⁴⁸⁸ S.D. 2

A BILL FOR AN ACT

RELATING TO RENEWABLE ENERGY.

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

SECTION 1. The legislature finds that net energy metering
 is uniquely helpful to Hawaii's homeowners and business owners
 because it allows them to fully hedge their future power costs
 and to know their future energy costs with certainty.

5 The legislature finds that net energy metering should 6 persist even after the public utilities commission has 7 established alternative compensation systems such as the feed in 8 tariff because net energy metering serves a different need in 9 the renewable energy marketplace.

The legislature finds that there is no technical 10 justification for setting net energy metering project size 11 12 limits at the current statutory maximum of fifty kilowatts. This is evidenced by the public utilities commission's recent 13 decision to allow feed in tariff projects as large as five 14 15 megawatts without reference to the type of circuit to which they 16 are interconnected. It is also evidenced by the Hawaiian Electric Company, Inc. and its affiliates' (HECO Companies) 17 proposals for systems that range from up to five hundred 18 2010-1387 SB2488 SD2 SMA-1.doc

Page 2

S.B. NO. ²⁴⁸⁸ S.D. 2

1 kilowatts in the feed in tariff docket to two megawatts in the public utilities host docket. The legislature further finds 2 that the HECO Companies already have a process in place to 3 manage reliability issues associated with distributed generation 4 via its Rule 14H, Interconnection of Distributed Generating 5 Facilities Operating in Parallel with the Company's Electrical 6 7 System. Because all net energy metered systems are distributed systems, Rule 14H provides a limit on the level of net energy 8 9 metering penetration that is intended to engineer out technical problems caused by distributed energy systems. 10

In conclusion, the legislature finds that net energy 11 metering should be perpetuated irrespective of the eventual 12 13 introduction and uptake level of feed in tariff systems. The existence of feed in tariffs does not in any way constitute a 14 justification for eliminating or reducing net energy metering. 15 The legislature further finds that no changes to procurement 16 17 rules or options can justify transferring customer-generators with net energy metering contracts off of those contracts. 18 19 Customer-generators with net energy metering contracts should not be removed against their will from those contracts during 20 21 the term of the contracts. Finally, the legislature finds that this Act applies only to investor-owned utilities. 22

2010-1387 SB2488 SD2 SMA-1.doc

1	SECTION 2. Chapter 269, part VI, Hawaii Revised Statutes,
2	is amended by adding a new section to be appropriately
3	designated and to read as follows:
4	"§269- Administrative efficiency. An electric utility
5	shall not unreasonably deny, burden, or delay net energy
6	metering service that is requested by an eligible customer-
7	generator."
8	SECTION 3. Section 269-101, Hawaii Revised Statutes, is
9	amended by:
10	1. Adding two new definitions to be appropriately inserted
11	and to read as follows:
12	""Net surplus customer-generator" means an eligible
13	customer-generator who has generated excess electricity, as
14	determined by the net energy metering calculation in section
15	269-105, at the end of the eligible customer-generator's
16	twelve-month reconciliation period.
17	"Net surplus electricity compensation rate" means the rate
18	established for exported energy under the feed-in tariff for
19	that project size."
20	2. By amending "eligible customer-generator" to read as

21 follows:

S.B. NO. $^{2488}_{S.D. 2}$

1	""Eligible customer-generator" means a metered residential
2	or commercial customer, including a government entity, of an
3	electric utility who owns and operates, leases, or purchases
4	electricity from a solar, wind turbine, biomass, or
5	hydroelectric energy generating facility, or a hybrid system
6	consisting of two or more of these facilities, that is:
7	(1) Located on the customer's premises;
8	(2) Operated in parallel with the utility's transmission
9	and distribution facilities;
10	(3) In conformance with the utility's interconnection
11	requirements; and
12	(4) Intended primarily to offset part or all of the
13	customer's own electrical requirements."
14	SECTION 4. Section 269-101.5, Hawaii Revised Statutes, is
15	amended to read as follows:
16	"[+]§269-101.5[+] Maximum capacity of eligible customer-
17	generator. The eligible customer-generator shall have a
18	capacity of not more than [fifty kilowatts;] two megawatts;
19	provided that the public utilities commission may increase the
20	maximum allowable capacity that eligible customer-generators may
21	have to an amount greater than [fifty-kilowatts] two megawatts
22	by rule or order."

S.B. NO. 2488 S.D. 2

1	SECTION 5. Section 269-102, Hawaii Revised Statutes, is
2	amended by amending subsection (a) to read as follows:
3	"(a) Every electric utility shall develop a standard
4	contract or tariff providing for net energy metering and shall
5	make this contract available to eligible customer-generators,
6	upon request, on a first-come-first-served basis until the time
7	that the total rated generating capacity produced by eligible
8	customer-generators [equals .5 per cent of the electric
9	utility's system peak demand;] on a distribution feeder reaches
10	fifteen per cent of that distribution feeder's penetration level
11	or the penetration level that triggers additional technical
12	study, as determined by the public utilities commission by rule
13	or order, whichever is higher; provided that [the]:
14	(1) The public utilities commission may modify, by rule or
15	order, the total rated generating capacity produced by
16	eligible customer-generators; [provided_further_that
17	the] and
18	(2) The public utilities commission shall ensure that a
19	percentage of the total rated generating capacity
20	produced by eligible customer-generators shall be
21	reserved for electricity produced by eligible
22	residential or small commercial customer-generators.

Page 6

S.B. NO. ²⁴⁸⁸ S.D. ²

1 The public utilities commission may define, by rule or 2 order, the maximum capacity for eligible residential or small 3 commercial customer-generators. Notwithstanding the generating 4 capacity requirements of this subsection, the public utilities 5 commission may evaluate, on an island-by-island basis, the 6 applicability of the generating capacity requirements of this 7 subsection and, in its discretion, may exempt an island or a utility grid system from the generating capacity requirements." 8 SECTION 6. Section 269-104, Hawaii Revised Statutes, is 9 amended to read as follows: 10 "§269-104 Additional customer-generators. Notwithstanding 11 12 section 269-102, an electric utility is not obligated to provide net energy metering to additional customer-generators in its 13 service area when the combined total peak generating capacity of 14 all eligible customer-generators served by all the electric 15 16 utilities in that service area furnishing net energy metering to eligible customer-generators [equals .5 per cent of the system 17 18 peak demand of those electric utilities;] on a distribution 19 feeder reaches fifteen per cent of that distribution feeder's 20 penetration level or the penetration level that triggers additional technical study, as determined by the public 21 22 utilities commission by rule or order, whichever is higher; 2010-1387 SB2488 SD2 SMA-1.doc

1 provided that the public utilities commission may increase, by 2 rule or order, the allowable percentage of the [electric 3 utility's system peak demand] distribution feeder's penetration 4 level produced from eligible customer-generators in the electric 5 utility's service area, whereupon the electric utility will be 6 obligated to provide net energy metering to additional eligible 7 customer-generators in that service area up to the increased 8 percentage amount." 9 SECTION 7. Section 269-106, Hawaii Revised Statutes, is 10 amended to read as follows: 11 "§269-106 Billing periods; twelve-month reconciliation. 12 (a) Billing of net energy metering customers shall be on a 13 monthly basis; provided that the last monthly bill for each 14 [twelve month] thirty-six month period shall reconcile for that [twelve month] thirty-six month period the net electricity 15 16 provided by the electric utility with: 17 (1)The electricity generated by the eligible customer-18 generator and fed back to the electric grid over the 19 monthly billing period; and 20 (2)Any unused credits for excess electricity from the 21 eligible customer-generator carried over from prior

1 months since the last [twelve_month] thirty six reconciliation period. 2 3 [Credits] The electric utility shall compensate the (b) 4 net surplus customer generator at the net surplus electricity 5 rate compensation rate established by the public utilities commission for any credits for excess electricity from the 6 7 [eligible] net surplus customer-generator that remain unused 8 after each [twelve-month] thirty-six month reconciliation period [may not be carried over to the next twelve month period]." 9 SECTION 8. Section 269-108, Hawaii Revised Statutes, is 10 11 amended to read as follows: 12 "§269-108 Net electricity producers; excess electricity 13 credits and credit carry over. At the end of each monthly 14 billing period, where the electricity generated by the eligible 15 customer-generator during the month exceeds the electricity 16 supplied by the electric utility during that same period, the 17 eligible customer-generator is a net electricity producer and 18 the electric utility shall retain any excess kilowatt-hours generated during the prior monthly billing period; provided that 19 20 the excess electricity generated by the customer-generator, if 21 any, in each monthly billing period shall be carried over to the next month as a monetary value to the credit of the eligible 22

S.B. NO. 2488 S.D. 2

1	customer-generator, which credit may accumulate and be used to
2	offset the compensation owed the electric utility for the
3	eligible customer-generator's net kilowatt-hour consumption for
4	succeeding months within each [twelve-month] thirty-six month
5	period; provided further that the electric utility shall
6	reconcile the eligible customer-generator's electricity
7	production and consumption for each [twelve-month] thirty-six
8	month period as set forth in section 269-106. [The eligible
9	customer-generator shall not be owed any compensation for excess
10	kilowatt hours unless the electric utility enters into a
11	purchase agreement with the eligible customer generator for
12	those excess kilowatt hours.]"
13	SECTION 9. Section 269-110, Hawaii Revised Statutes, is
14	amended to read as follows:
15	"§269-110 [Termination by eligible customer-generators.]
16	Eligible customer-generators; termination; alternative credits
17	or compensation mechanisms. If an eligible customer-generator
18	terminates the customer relationship with the electric utility,
19	the electric utility shall reconcile the eligible
20	customer-generator's consumption and production of electricity,
21	including any unused credits for excess electricity from the
22	eligible customer-generator carried over from prior months, for
	2010-1387 SB2488 SD2 SMA-1.doc

1 the period following the last twelve-month reconciliation period to the date of termination of the relationship, according to the 2 3 requirements set forth in this part. If the public utilities commission, at any time, 4 establishes alternative mechanisms for crediting or otherwise 5 compensating eligible customer-generators for exported power, 6 7 eligible customer-generators with existing net energy metering contracts shall have the option of maintaining those existing 8 net energy metering contracts rather than converting to new 9 alternative credits or compensation mechanisms." 10 SECTION 10. Section 269-111, Hawaii Revised Statutes, is 11 12 amended to read as follows: "§269-111 Safety and performance standards. (a) A solar, 13 wind turbine, biomass, or hydroelectric energy generating 14 system, or a hybrid system consisting of two or more of these 15 16 facilities, used by an eligible customer-generator shall meet all applicable safety and performance standards established by 17 the National Electrical Code, the Institute of Electrical and 18 Electronics Engineers, and accredited testing laboratories such 19 as the Underwriters Laboratories and, where applicable, rules of 20 the public utilities commission regarding safety and 21 22 reliability.

1	(b) For systems of [ten] <u>one hundred</u> kilowatts or less, an
2	eligible customer-generator whose solar, wind turbine, biomass,
3	or hydroelectric energy generating system, or whose hybrid
4	system consisting of two or more of these facilities, meets the
5	standards and rules under subsection (a) shall not be required
6	to install additional controls, perform or pay for additional
7	tests, or purchase additional liability insurance.
8	(c) For eligible customer-generator systems of greater
9	than [ten] kilowatts[₇] <u>on the island of Oahu</u> ,
10	kilowatts on the islands of Hawaii and Maui, and up to
11	kilowatts on the islands of Molokai and Lanai, the public
12	utilities commission[, either through] by decision and order,
13	[by] tariff adoption, or [by] rule, shall:
14	(1) Set forth safety, performance, and reliability
15	standards and requirements; and
16	(2) Establish the qualifications for exemption from a
17	requirement to install additional controls, perform or
18	pay for additional tests, or purchase additional
19	liability insurance.
20	(d) The public utilities commission shall initiate a
21	rulemaking proceeding by August 1, 2010 to adopt best practices

Page 12

1	interconnection standards for solar, wind turbine, biomass, and
2	hydroelectric energy generating facilities.
3	Upon adoption, the standards shall become the
4	interconnection requirements of each electric utility subject to
5	the jurisdiction of the public utilities commission. As part of
6	the rulemaking proceeding, the public utilities commission shall
7	consider:
8	(1) Standards for comparably-sized feed-in tariffs;
9	(2) Interconnection standards adopted by other states
10	within the twenty-four months prior to the rulemaking
11	proceeding;
12	(3) Standards adopted by the Federal Energy Regulatory
13	Commission; and
14	(4) Model standards developed by nonprofit organizations
15	whose primary purpose is to promote renewable energy.
16	The public utilities commission shall adopt best practices
17	interconnection standards no later than December 31, 2010."
18	SECTION 11. (a) The public utilities commission shall
19	establish the net surplus electricity compensation rate, as
20	defined by section 269-101, Hawaii Revised Statutes, by rule or
21	order no later than January 1, 2011. The net surplus
22	electricity compensation rate shall provide the net surplus
	2010-1387 SB2488 SD2 SMA-1.doc

customer-generator, as defined by section 269-101, Hawaii
 Revised Statutes, just and reasonable compensation for the value
 of net surplus electricity, while leaving other ratepayers
 unaffected.

5 (b) The net surplus electricity compensation rate shall 6 apply to net surplus electricity credits that have accrued for 7 any twelve-month reconciliation period that is in progress on 8 September 1, 2010, and any twelve-month reconciliation period 9 occurring thereafter.

10 (c) Payment for net surplus electricity credits that have
11 accrued between September 1, 2010, and the date of the
12 establishment of the net surplus electricity compensation rate
13 shall be made by the electric utility within sixty days from the
14 date of the establishment of the net surplus electricity
15 compensation rate.

(d) Payment for net surplus electricity credits that
accrue on or after the date of establishment of the net surplus
electricity compensation rate shall be made by the electric
utility within sixty days of the end of the applicable
twelve-month reconciliation period.

(e) For the purposes of this Act, "net surplus electricity
credits" means the credits, in kilowatt-hours, for excess

electricity generated by an eligible customer-generator at the
 end of the eligible customer-generator's twelve-month
 reconciliation period, as determined by the net energy metering
 calculation in section 269-105, Hawaii Revised Statutes.
 SECTION 12. Statutory material to be repealed is bracketed
 and stricken. New statutory material is underscored.
 SECTION 13. This Act shall take effect on July 1, 2050.



Report Title:

Net Energy Metering; Renewable Energy; PUC; Surplus Electricity Compensation;

Description:

Requires electric utilities to compensate net metering surplus customer-generators for excess electricity at the end of the twelve-month period; increases customer-generator capacity to two megawatts; permits existing net-metered customers to remain with the net metering program regardless of available alternatives; increases the total allowable generating capacity produced by customer-generators to 15% of that distribution feeder's penetration level or the penetration level that triggers additional technical study, as determined by the PUC, whichever is higher; increases the maximum number of kilowatts a customer-generator system may have before public utilities commission approval for safety and performance standards is required; directs the PUC to determine the net surplus compensation rate. Effective 7/1/50. (SD2)

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

