H.B. NO. 2460

A BILL FOR AN ACT

RELATING TO MICROGRIDS.

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

SECTION 1. The legislature finds that the development of renewable microgrids can aid Hawaii's transition to a clean energy economy. In this context, a microgrid is a small energy network, interconnected with an electric utility grid, or utilizing an electric utility grid, which is powered by renewable energy, and which may be islanded from the electric utility grid if needed.

8 The legislature further finds that microgrids have the 9 potential to be a testing ground for greater integration of 10 renewable energy, distributed generation, storage, and demand 11 response technology. Microgrid demonstration projects will 12 enable the State to learn how to reduce costs, increase grid 13 reliability and resiliency, reduce pollution and greenhouse gas 14 emissions, reduce the cost of infrastructure, and increase the 15 efficiency of transmission and distribution.

16 The purpose of this Act is to designate and establish 17 requirements for a microgrid demonstration project at the



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1 natural energy laboratory of Hawaii authority that can assist in 2 understanding, developing, and refining microgrid technologies 3 and policies in the State. 4 SECTION 2. Chapter 269, Hawaii Revised Statutes, is 5 amended by adding a new section to part I to be appropriately 6 designated and to read as follows: 7 "§269- Microgrid demonstration project; natural energy 8 **laboratory of Hawaii authority.** (a) The property controlled by 9 the natural energy laboratory of Hawaii authority, established 10 pursuant to chapter 227D, is designated as a microgrid 11 demonstration project. 12 The microgrid demonstration project designated by this (b) 13 section: Shall be authorized by the public utilities 14 (1) 15 commission; 16 (2) May cross property boundaries, easements, public 17 thoroughfares, transportation rights-of-way, and 18 utility rights-of-way solely within the natural energy 19 laboratory of Hawaii authority property; 20 May provide, sell, or transmit renewable energy to (3) 21 tenants or other users of the natural energy



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1		laboratory of Hawaii authority other than the person
2		who owns, controls, operates, or manages the natural
3		energy laboratory of Hawaii authority microgrid
4		demonstration project;
5	(4)	May use portions of an electric public utility's
6		transmission or distribution lines to provide, sell,
7		or transmit electricity to participants in the natural
8		energy laboratory of Hawaii authority microgrid
9		demonstration project;
10	(5)	Shall use electricity generation, located on the
11		natural energy laboratory of Hawaii authority
12		microgrid demonstration project, with a total
13		generating capacity of five megawatts or less;
14	(6)	Shall use only renewable energy, as defined in section
15		269-91, to generate electricity, except in cases of
16		emergency; and
17	(7)	May be islanded from the electric public utility grid
18		from time to time.
19	(c)	Notwithstanding any other provisions in this chapter,
20	the natura	al energy laboratory of Hawaii authority microgrid
21	demonstrat	tion project shall be exempt from the requirements of

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1	this chapter, except as may be needed to facilitate safe
2	interconnection of the natural energy laboratory of Hawaii
3	authority microgrid demonstration project to an electric public
4	utility grid. Any person who owns, controls, operates, manages,
5	or otherwise participates in the natural energy laboratory of
6	Hawaii authority microgrid demonstration project shall not be
7	considered a public utility for the purpose of participating in
8	the natural energy laboratory of Hawaii authority microgrid
9	demonstration project.
10	(d) The public utilities commission may take any steps the
11	commission deems necessary to enable and compel electric public
12	utilities to allow the development of the natural energy
13	laboratory of Hawaii authority microgrid demonstration project
14	by non-utilities. These steps may include issuing related
15	orders, amending or adopting related rules, working with
16	permitting agencies or other authorities to grant exemptions, or
17	other steps necessary to enable the development of the natural
18	energy laboratory of Hawaii authority microgrid demonstration
19	project.
20	(e) The natural energy laboratory of Hawaii authority

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21 microgrid demonstration project shall be exempt from any



1	wheeling	restrictions when the wheeling is conducted within the	
2	designate	d boundaries of the project.	
3	(f)	Any power that is sold by the natural energy	
4	laborator	y of Hawaii authority microgrid demonstration project	
5	shall be	at a price equal to or less than the electric utility	
6	<u>rates est</u>	ablished by the public utilities commission.	
7	(g)	No later than twenty days prior to the convening of	
8	the regul	ar session of 2019, the natural energy laboratory of	
9	Hawaii authority microgrid demonstration project designated		
10	pursuant to subsection (a) shall submit a report to the		
11	legislature of its findings and recommendations on the natural		
12	energy la	boratory of Hawaii authority microgrid demonstration	
13	project.	At a minimum, the report shall contain information on:	
14	(1)	The fairness of the natural energy laboratory of	
15		Hawaii authority microgrid demonstration project to	
16		all customers given the increased options for	
17		obtaining electrical power;	
18	(2)	Any safety issues when operating the integrated energy	
19		district;	

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1	(3)	Reliability of the overall electrical system in	
2		relation to the natural energy laboratory of Hawaii	
3		authority microgrid demonstration project; and	
4	(4)	Any cost shifting issues realized as a result of	
5		electrical energy being provided by the natural energy	
6		laboratory of Hawaii authority microgrid demonstration	
7		project.	
8	<u>(h)</u>	For the purposes of this section, the "natural energy	
9	laboratory of Hawaii authority microgrid demonstration project"		
10	means a group of interconnected loads and distributed energy		
11	resources within clearly defined electrical boundaries that acts		
12	as a single controllable entity with respect to the utility's		
13	electrical grid and can connect to a public utility's electrical		
14	grid to operate in grid-connected mode and can disconnect from		
15	the grid to operate in island mode, and generates and produces		
16	energy, that is solely located on property owned by the natural		
17	energy laboratory of Hawaii authority."		
18	SECT	ION 3. New statutory material is underscored.	
19	SECT	ION 4. This Act shall take effect on July 1, 2018.	
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		INTRODUCED BY: Nicke E. Long	

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JAN 2 3 2018

H.B. NO, 2460

Report Title: Renewable Energy; Microgrid Demonstration Projects

Description:

Authorizes the establishment of a Natural Energy Laboratory of Hawaii Authority (NELHA) microgrid demonstration project for the generation, storage, and distribution of renewable energy on property controlled by NELHA.

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

