## A BILL FOR AN ACT

RELATING TO ENERGY.

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

- 1 SECTION 1. The legislature finds that pursuant to Act 97,
- 2 Session Laws of Hawaii 2015, Hawaii has committed to achieving a
- 3 one hundred percent renewable portfolio standard by December 31,
- 4 2045. This transition away from imported fossil fuels toward
- 5 locally available renewable energy sources is critical for
- 6 ensuring the State's energy independence, economic
- 7 sustainability, and environmental resilience.
- 8 The legislature further finds that the transition to a
- 9 clean energy economy requires customer-friendly processes to
- 10 enable widespread adoption of distributed energy resources and
- 11 electrification technologies. Current interconnection and
- 12 utility service upgrade processes have led to delays, unexpected
- 13 costs, and increased customer dissatisfaction, hindering
- 14 progress toward achieving the State's clean energy goals. These
- 15 challenges also result in localized power quality issues and
- 16 power outages when customers increase loads without informing
- 17 the utility.



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- 1 The legislature finds that establishing streamlined and
- 2 transparent interconnection processes will encourage consumer
- 3 adoption, enable proactive utility planning, and ensure
- 4 reliability and cost-effectiveness in the power system. The
- 5 integration of smart inverters and other customer-sited
- 6 technologies is critical to minimizing grid investments and
- 7 achieving a clean, sustainable energy future.
- 8 Accordingly, the purpose of this Act is to establish a
- 9 grid-ready home interconnection process that supports the rapid
- 10 adoption of clean energy technologies, facilitates smart utility
- 11 investments, and ensures power system reliability.
- 12 SECTION 2. Section 269-141, Hawaii Revised Statutes, is
- 13 amended by adding a new definition to be appropriately inserted
- 14 and to read as follows:
- ""Grid-ready home" means a residential property equipped or
- 16 modified to anticipate and streamline the integration of clean
- 17 electrification technologies such as electric vehicle chargers
- 18 and heat pumps, distributed energy resources such as
- 19 photovoltaic systems, batteries leveraging current national
- 20 standards for functionality such as UL 1741, and advanced grid
- 21 modernization technology."



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1 SECTION 3. Section 269-142, Hawaii Revised Statutes, is 2 amended to read as follows: 3 "[+] \$269-142[+] Reliability standards; interconnection requirements; adoption and development; force and effect[-]; 4 5 streamlined grid-ready home interconnection process. (a) The commission may adopt, by rule or order, reliability standards 6 7 and interconnection requirements. Reliability standards and 8 interconnection requirements adopted by the commission shall 9 apply to any electric utility and any user, owner, or operator 10 of the Hawaii electric system. The commission shall not 11 contract for the performance of the functions under this 12 subsection to any other entity as provided under section 269-147. 13 14 The commission may develop reliability standards and 15 interconnection requirements as it determines necessary or upon 16 recommendation from any entity, including an entity contracted 17 by the commission to serve as the Hawaii electricity reliability 18 administrator provided for under this part, for the continuing 19 reliable design and operation of the Hawaii electric system. 20 Any reliability standard or interconnection requirement 21 developed by the commission shall be adopted by the commission

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- 1 in accordance with subsection (a) in order to be effective. The
- 2 commission shall not contract for the performance of the
- 3 functions under this subsection to any other entity as provided
- **4** under section 269-147.
- 5 (c) The commission shall have jurisdiction over matters
- 6 concerning interconnection requirements and interconnections
- 7 located in the State between electric utilities, any user,
- 8 owner, or operator of the Hawaii electric system, or any other
- 9 person, business, or entity connecting to the Hawaii electric
- 10 system or otherwise applying to connect generation or equipment
- 11 providing ancillary services to, or operate generation and
- 12 equipment providing ancillary services in parallel with the
- 13 Hawaii electric system under processes established in accordance
- 14 with section 269-145. Nothing in this subsection is intended to
- 15 give the commission general supervision authority over any user,
- 16 owner, or operator of the Hawaii electric system or any other
- 17 person, business, or entity that is not a public utility as
- 18 defined in section 269-1.
- 19 (d) No later than October 1, 2026, the commission shall
- 20 establish a streamlined grid-ready home interconnection process

1	for grid-	tied renewable energy generation and storage systems.
2	The proce	ss shall include:
3	(1)	A streamlined notification and approval process for
4		customers seeking to install distributed energy
5		resources systems using UL 1741 or equivalent
6		certified functionality;
7	(2)	A cost-sharing fee of \$ to address service
8		upgrades where necessary, to be paid by the asset
9		<pre>owner;</pre>
10	(3)	Requirements obligating regulated electric utilities
11		to process notifications and grant interconnection to
12		grid-ready homes within two weeks for systems with
13		electrical permits for the grid-ready improvements
14		that have been approved by the appropriate authority;
15	(4)	Provisions to allow distributed energy resources
16		operation with managed power export/import where
17		service upgrades are required;
18	(5)	Protocols for virtual commissioning and
19		interconnection agreement issuance within one week of
20		the submission of a commissioning packet; and

1	(6)	Requirements obligating regulated utilities to update
2		their interconnection rules by , to
3		incorporate vehicle-to-grid compliance requirements to
4		allow for the interconnection and utilization of
5		vehicle-to-grid capabilities, including vehicle-to-
6		home and vehicle-to-grid services; provided that
7		updates to the interconnection rules pursuant to this
8		subsection shall include UL 1741 SC and UL 1741 QIKP
9		certification."
10	SECT	ION 4. Section 269-145, Hawaii Revised Statutes, is
11	amended to	o read as follows:
12	"[+]:	§269-145[+] Grid access; procedures for
13	interconne	ection; dispute resolution. (a) Each user, owner, or
14	operator o	of the Hawaii electric system, or any other person,
15	business,	or entity seeking to make an interconnection on the
16	Hawaii ele	ectric system shall do so in accordance with procedures
17	to be esta	ablished by the commission by rule or order.
18	(b)	The commission shall have the authority to make final
19	determinat	tions regarding any dispute between any user, owner, or
20	operator (	of the Hawaii electric system, or any other person,
21	business,	or entity connecting to the Hawaii electric system,

•	CONCERNIN	g er	ther an existing interconnection on the hawair
2	electric	syste	em or an interconnection to the Hawaii electric
3	system cr	eatec	d under the processes established by the commission
4	under thi	s sec	tion.
5	(c)	In e	establishing a rule or order for the utility
6	interconn	ectic	on process for renewable energy and storage systems
7	for grid-	ready	homes, the commission shall ensure the process:
8	(1)	Allo	ws licensed electricians to isolate electrical
9		serv	rice at utility meters for meter panel replacement,
10		mete	r socket adapter installation, or main panel
11		upgr	ades; provided that access shall be subject to:
12		(A)	Notification by the utility provider to the owner
13			of the grid-ready home of the planned service
14			disconnection on the morning of the planned
15			service disconnection;
16		<u>(B)</u>	Confirmation of passed inspections by the
17			appropriate authority; and
18		(C)	Confirmation of reconnection procedures; and
19	(2)	<u>Esta</u>	blishes a virtual commissioning process whereby
20		syst	em installers may submit documentation confirming
21		comp	liance with filed settings and operational

1	requirements of the installed distributed energy
2	resources."
3	SECTION 5. Section 269-145.5, Hawaii Revised Statutes, is
4	amended to read as follows:
5	"\$269-145.5 Advanced grid modernization technology;
6	principles. (a) The commission, in carrying out its
7	responsibilities under this chapter, shall consider the value of
8	improving electrical generation, transmission, and distribution
9	systems and infrastructure within the State through the use of
10	advanced grid modernization technology in order to improve the
11	overall reliability and operational efficiency of the Hawaii
12	electric system.
13	(b) In advancing the public interest, the commission shall
14	balance technical, economic, environmental, and cultural
15	considerations associated with modernization of the electric
16	grid, based on principles that include but are not limited to:
17	(1) Enabling a diverse portfolio of renewable energy
18	resources;
19	(2) Expanding options for customers to manage their energy
20	use;

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1	(3)	Maximizing interconnection of distributed generation
2		to the State's electric grids on a cost-effective
3		basis at non-discriminatory terms and at just and
4		reasonable rates, while maintaining the reliability of
5		the State's electric grids, and allowing such access
6		and rates through applicable rules, orders, and
7		tariffs as reviewed and approved by the commission;
8	(4)	Determining fair compensation for electric grid
9		services and other benefits provided to customers and
10		for electric grid services and other benefits provided
11		by distributed generation customers and other non-
12		utility service providers; and
13	(5)	Maintaining or enhancing grid reliability and safety
14		through modernization of the State's electric grids.
15	<u>(c)</u>	The commission, in carrying out its responsibilities
16	under thi	s chapter, shall ensure the grid-ready home
17	interconn	ection process aligns with principles of advanced grid
18	moderniza	tion technology by:
19	(1)	Streamlining customer access to renewable energy,
20		electric vehicle charging, and storage resources;

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1	(2)	Ennancing customer participation in reliance-ennancing
2		energy programs through rapid integration; and
3	<u>(3)</u>	Optimizing grid operations to accommodate increased
4		electrification while minimizing infrastructure
5		costs."
6	SECT	ION 6. Section 269-149, Hawaii Revised Statutes, is
7	amended b	y amending subsection (b) to read as follows:
8	"(b)	The Hawaii electricity reliability administrator
9	shall rep	ort to the [commission] <u>legislature</u> each year on the
10	date of a	greement under section 269-147 following the original
11	contracti	ng between the Hawaii electricity reliability
12	administr	ator and the commission on [the]:
13	(1)	The status of its operations, financial position, and
14		a projected operational budget for the fiscal year
15		following the date of the report[-]; and
16	(2)	The status, effectiveness, and outcomes of the grid-
17		ready home interconnection process, including:
18		(A) The number of customers served under the process;
19		(B) Average timelines for interconnection approvals
20		and upgrades;

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1	(C)	Total fees collected by the electric utility
2		under the process;
3	<u>(D)</u>	Total costs recovered by the electric utility in
4		service of the process; and
5	<u>(E)</u>	Value of infrastructure upgrades deferred or
6		avoided as a result of the process."
7	SECTION 7	. Statutory material to be repealed is bracketed
8	and stricken.	New statutory material is underscored.
9	SECTION 8.	. This Act shall take effect on July 1, 3000.

#### Report Title:

Grid-ready Home Interconnection Process; Renewable Energy; Public Utilities Commission; Electricity Reliability Administrator; Electricity Reliability Surcharge

#### Description:

Requires the Public Utilities Commission to establish a streamlined grid-ready home interconnection process. Requires a report to the Legislature on the streamlined grid-ready home interconnection process. Effective 7/1/3000. (HD1)

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

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