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## A BILL FOR AN ACT

RELATING TO EFFICIENCY STANDARDS.

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

1 SECTION 1. The legislature finds that the high cost of living in Hawaii adds to the importance of adopting policies 2 that promote and encourage energy efficiency, which can provide 3 relief for families and businesses faced with high utility 4 5 bills. In 2019, the legislature took the notable step of establishing minimum energy and water efficiency standards for 6 7 certain products sold, leased, or rented in the State. These standards are estimated to result in \$169,700,000 in cumulative 8 9 utility bill savings for Hawaii over the next fifteen years.

10 The legislature further finds that water conservation is 11 growing in significance for a variety of reasons, including 12 increasing incidence of drought conditions and the fuel spills at Red Hill that have led to the closure of the Halawa shaft, 13 which previously provided twenty per cent of the water supply 14 15 for urban Honolulu. Water efficiency and energy efficiency are 16 closely linked, because pumping water requires energy, and water 17 conservation leads to energy conservation.

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1	The	legislature also finds that expanding the list of				
2	products requiring minimum efficiency standards can help Hawaii					
3	save millions of dollars on utility bills annually and can offer					
4	even more	benefits for Hawaii residents, businesses, the				
5	environme	nt, and the economy as a whole. Adopting additional				
6	minimum e	fficiency standards, among other benefits, could:				
7	(1)	Provide a boost to the local economy as a result of				
8		consumers and businesses spending their financial				
9		savings on other goods and services in the State;				
10	(2)	Protect consumers from manufacturers who would				
11		otherwise unload less-efficient appliances that the				
12		manufacturers could not sell in other states with				
13		heightened efficiency standards;				
14	(3)	Ensure that Hawaii residents do not miss out on				
15		potential savings while awaiting uncertain progress				
16		regarding standards to be adopted at the federal				
17		level;				
18	(4)	Conserve and protect the State's precious and				
19		vulnerable water resources, the importance of which				
20		has recently been underscored by the Red Hill water				
21		crisis;				

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1	(5)	Lower electricity bills for residents and businesses
2		by millions of dollars annually; and
3	(6)	Reduce air pollutants and greenhouse gas emissions,
4		which could result in public health benefits and help
5		the State meet its clean energy and climate change
6		mitigation targets.
7	Nume	rous states, including California, Colorado,
8	Connectic	ut, Maine, Maryland, Massachusetts, Nevada, New Jersey,
9	Oregon, R	hode Island, Vermont, and Washington, have adopted
10	robust st	ate energy and water efficiency standards to take
11	advantage	of these benefits. The legislature believes that
12	these sta	tes can serve as important sources of information for
13	the enfor	cement and implementation of new or amended energy and
14	water eff	iciency standards in Hawaii.
15	Furt	hermore, the legislature finds that most of the
16	products	encompassed by this Act are equal in cost to
17	noncomplia	ant products or have a short payback period ranging
18	from zero	to seven months.
19	Acco	rdingly, the purpose of this Act is to:
20	(1)	Authorize the chief energy officer of the Hawaii state
21		energy office, instead of the director of business,

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1	economic development, and tourism, to adopt rules to
2	enforce minimum efficiency standards for certain
3	products and adopt or amend minimum efficiency
4	standards in certain situations; and
5	(2) Regulate the minimum efficiency standards for air
6	purifiers, electric vehicle supply equipment, portable
7	electric spas, residential ventilating fans, toilets,
8	urinals, and water coolers.
9	SECTION 2. Section 196-81, Hawaii Revised Statutes, is
10	amended as follows:
11	1. By adding eleven new definitions to be appropriately
12	inserted and to read:
13	""Air purifier" or "room air cleaner" means an electric,
14	cord-connected, portable appliance whose primary function is to
15	remove particulate matter from the air and that can be moved
16	from room to room.
17	"Chief energy officer" means the chief energy officer of
18	the Hawaii state energy office.
19	"Electric vehicle supply equipment" means the conductors,
20	including the ungrounded, grounded, and equipment grounding
21	conductors; electric vehicle connectors; attachment plugs; and

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1	all other fittings, devices, power outlets, or apparatuses
2	installed specifically for the purpose of delivering energy from
3	the premises wiring to the electric vehicle. "Electric vehicle
4	supply equipment" does not include conductors, connectors, and
5	fittings that are part of a vehicle.
6	"Industrial air purifier" means an indoor air cleaning
7	device manufactured, advertised, marketed, labeled, and used
8	solely for industrial use that is marketed solely through
9	industrial supply outlets or businesses and prominently labeled
10	as "Solely for industrial use. Potential health hazard: emits
11	ozone.".
12	"Plumbing fixture" means an exchangeable device that
13	connects to a plumbing system to deliver and drain away water
14	and waste.
15	"Portable electric spa" means a factory-built electric spa
16	or hot tub, which may include any combination of integral
17	controls, water heating, or water circulating equipment.
18	"Residential ventilating fan" means a ceiling or wall-
19	mounted fan, or remotely mounted in-line fan, designed to be
20	used in a bathroom or utility room for the purpose of moving air
21	from inside the building to the outdoors.

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1	"Toilet" or "water closet" means a plumbing fixture that
2	includes a water-containing receptor that is designed to receive
3	liquid and solid human waste through an exposed integral trap
4	into a drainage system. "Toilet" or "water closet" includes but
5	is not limited to a dual-flush toilet.
6	"Trough-type urinal" means a urinal designed for
7	simultaneous use by two or more persons.
8	"Urinal" means a plumbing fixture that is designed to
9	receive only liquid body waste and conveys the waste through a
10	trap into a drainage system. "Urinal" includes but is not
11	limited to a trough-type urinal.
12	"Water cooler" means a freestanding device that consumes
13	energy in order to dispense cold water, room-temperature water,
14	hot water, or any combination thereof. "Water cooler"
15	includes but is not limited to a storage-type water cooler and
16	an on-demand water cooler."
17	2. By amending the definition of "showerhead" to read:
18	""Showerhead" means a device through which water is
19	discharged for a shower <u>or</u> bath[ <del>. Showerhead</del> ] <u>and</u> includes
20	handheld showerheads and any other showerhead[ <del>, including a</del>
21	handheld showerhead], except a safety showerhead."



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1	3. By deleting the definitions of "department" and				
2	"director".				
3	[""Department" means the department of business, economic				
4	development, and tourism.				
5	"Director" means the director of business, economic				
6	development, and tourism."]				
7	SECTION 3. Section 196-83, Hawaii Revised Statutes, is				
8	amended to read as follows:				
9	"[+]§196-83[+] Rules. The [director] chief energy officer				
10	may adopt rules pursuant to chapter 91 to [ <del>enforce</del> ] <u>:</u>				
11	(1) Enforce the minimum efficiency standards [ <del>for the</del>				
12	types of new products] set forth in section [196-84.]				
13	196-85; and				
14	(2) Adopt or amend efficiency standards for any products				
15	as the chief energy officer deems appropriate,				
16	including but not limited to those products listed or				
17	incorporated in section 196-84(a); provided that the				
18	chief energy officer shall set efficiency standards				
19	upon a determination that new or increased efficiency				
20	standards would serve to promote energy or water				
21	conservation in the State and would be cost-effective				

1		for consumers who newly purchase and use those
2		products; provided further that no new or increased
3		efficiency standards shall become effective within one
4		year following the adoption of any amended regulations
5		establishing the increased efficiency standards."
6	SECT	ION 4. Section 196-84, Hawaii Revised Statutes, is
7	amended by	y amending subsection (a) to read as follows:
8	"(a)	[Appliance] Minimum efficiency standards are
9	establishe	ed under this part for the following [appliances,]
10	products,	if standards for these [ <del>appliances</del> ] <u>products</u> are not
11	preempted	by federal law:
12	(1)	Air purifiers;
13	[ <del>(1)</del> ]	(2) Computers and computer monitors;
14	(3)	Electric vehicle supply equipment;
15	[ <del>(2)</del> ]	(4) Faucets;
16	[ <del>(3)</del> ]	(5) High color rendering index fluorescent lamps;
17	(6)	Portable electric spas;
18	(7)	Residential ventilating fans;
19	[-(4)-]	(8) Showerheads; [and
20	<del>(5)</del> ]	(9) Spray sprinkler bodies [-];
21	(10)	Toilets;

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1	(11)	Urinals; and			
2	(12)	Water coolers."			
3	SECT	ION 5. Section 196-85, Hawaii Revised Statutes, is			
4	amended to	o read as follows:			
5	"[ <del>[</del> ]§196-85[ <del>] Appliance</del> ] <u>Minimum</u> efficiency standards.				
6	[ <del>-(a)</del> ] The	e following minimum efficiency standards shall apply to			
7	products I	listed or incorporated in section 196-84:			
8	(1)	Except for industrial air purifiers, air purifiers			
9		shall meet the certification criteria of the ENERGY			
10		STAR Product Specification for Room Air Cleaners,			
11		Version 2.0;			
12	[ <del>(1)</del> ]	(2) Computers and computer monitors shall meet the			
13		requirements set forth in California Code of			
14		Regulations, Title 20, Section 1605.3, as amended;			
15	(3)	Electric vehicle supply equipment included in the			
16		scope of the ENERGY STAR Program Requirements Product			
17		Specification for Electric Vehicle Supply Equipment,			
18		Version 1.0, shall meet the certification criteria of			
19		that specification;			

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1	[ <del>(2)</del> ]	(4) Faucets shall meet the minimum efficiency
2		standards set forth in California Code of Regulations,
3		Title 20, Section 1605.1, as amended;
4	[ <del>(3)</del> ]	(5) High color rendering index fluorescent lamps
5		shall meet the minimum efficacy requirements contained
6		in [ <del>Section</del> ] <u>title 10 Code of Federal Regulations</u>
7		section 430.32(n)(4) [of Title 10-of the Code of
8		Federal Regulations], as in effect on January 3, 2017,
9		as measured in accordance with [ <del>Appendix</del> ] <u>title 10</u>
10		Code of Federal Regulations part 430, appendix R to
11		[ <del>Subpart</del> ] <u>subpart</u> B [ <del>of Part 430 of Title 10 of the</del>
12		Code of Federal Regulations]-"Uniform Test Method for
13		Measuring Average Lamp Efficacy (LE), Color Rendering
14		Index (CRI), and Correlated Color Temperature (CCT) of
15		Electric Lamps"—as amended;
16	(6)	Portable electric spas shall meet the requirements of
17		the American National Standard for Portable Electric
18		<pre>Spa Energy Efficiency (ANSI/APSP/ICC 14-2019);</pre>
19	(7)	In-line residential ventilating fans shall have a fan
20		motor efficacy of no less than 2.8 cubic feet per
21		minute per watt. All other residential ventilating

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1		fans shall have a fan motor efficacy of no less than
2		1.4 cubic feet per minute per watt for airflows less
3		than ninety cubic feet per minute and no less than 2.8
4		cubic feet per minute per watt for other airflows when
5		tested in accordance with Home Ventilation Institute
6		Publication 916 "HVI Airflow Test Procedure";
7	[ <del>(4)</del> ]	(8) Showerheads shall meet the minimum efficiency
8		standards set forth in California Code of Regulations,
9		Title 20, Section 1605.1, as amended; [and
10	<del>-(5)</del> -]	(9) Spray sprinkler bodies that are not specifically
11		excluded from the scope of the Environmental
12	,	Protection Agency's WaterSense Specification for Spray
13		Sprinkler Bodies, Version 1.0, shall include an
14		integral pressure regulator and shall meet the water
15		efficiency and performance criteria and other
16		requirements of that specification, as amended $[-]$ ;
17	(10)	Toilets, water closets, and urinals, other than those
18		designed and marketed exclusively for use at prisons
19		or mental health facilities, shall meet the standards
20		shown in subparagraphs (A) to (D) when tested in
21		accordance with title 10 Code of Federal Regulations

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1	Part	430, appendix T to subpart B "Uniform Test
2	Meth	od for Measuring the Water Consumption of Water
3	Clos	ets and Urinals" and toilets shall pass the
4	wast	e extraction test for water closets (Section 7.9)
5	of t	he American Society of Mechanical Engineers
6	<u>A112</u>	.19.2/CSA B45.1-2018:
7	(A)	Wall-mounted urinals, except for trough-type
8		urinals and urinals designed and marketed
9		exclusively for use in prisons and mental health
10		care facilities, shall have a maximum flush
11		volume of 0.5 gallons per flush;
12	<u>(B)</u>	Floor-mounted urinals, except for trough-type
13		urinals and urinals designed and marketed
14		exclusively for use in prisons and mental health
15		care facilities, shall have a maximum flush
16		volume of 0.5 gallons per flush;
17	<u>(C)</u>	Toilets, except for dual-flush tank-type toilets
18		and toilets designed and marketed exclusively for
19		use in prisons and mental health care facilities,
20		shall have a maximum flush volume of 1.28 gallons
21		per flush; and

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1		(D)	Dual-flush tank-type toilets shall have a maximum
2			dual-flush effective flush volume of 1.28 gallons
3			per flush. As used in this subparagraph, "dual-
4			flush effective flush volume" means the average
5			flush volume of two reduced flushes and one full
6			flush; and
7	(11)	Wate	r coolers included in the scope of the ENERGY STAR
8		Prog	ram Requirements Product Specification for Water
9		Cool	ers, Version 3.0, shall have on mode with no water
10		draw	energy consumption less than or equal to the
11		foll	owing values as measured in accordance with the
12		test	requirements of that program:
13		(A)	0.16 kilowatt-hours per day for cold-only units
14			and cook and cold units. As used in this
15			subparagraph, "cold-only units" means water
16			cooler units that dispense cold water only;
17		<u>(B)</u>	0.87 kilowatt-hours per day for storage-type hot
18			and cold units. As used in this subparagraph:
19			"Hot and cold units" means water coolers
20			that dispense hot and cold water.

1		"Storage-type" means water cooler units in
2		which thermally conditioned water is stored in a
3		tank in the water cooler and is available
4		instantaneously, including point-of-use, dry
5		storage compartment, and bottled water coolers;
6		and
7	<u>(C)</u>	0.18 kilowatt-hours per day for on-demand hot and
8		cold units. As used in this subparagraph:
9		"Hot and cold units" means water coolers
10		that dispense both hot and cold water.
11		"On-demand" means a water cooler unit in
12		which water is heated as it is requested, which
13		typically takes a few minutes to deliver.
14	[ <del>.(b) Whe</del>	n adopting standards for appliances pursuant to
15	section 196-84	(a), the director shall set appliance efficiency
16	standards upon a determination that increased efficiency	
17	<del>standards woul</del>	d serve to promote energy or water conservation in
18	the State and would be cost effective for consumers who purchase	
19	and use such n	ew-products.]"
20	SECTION 6	. Section 196-86, Hawaii Revised Statutes, is
21	amended to rea	d as follows:

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1	"[+]§196-86[+] Implementation. (a) On or after		
2	January 1, 2021, no new computer or computer monitor, faucet,		
3	high color rendering index fluorescent lamp, showerhead, or		
4	spray sprinkler body may be sold or offered for sale, lease, or		
5	rent in the State unless the efficiency of the new product meets		
6	or exceeds the efficiency standards provided in section 196-85.		
7	(b) On or after January 1, 2025, no new air purifier,		
8	electric vehicle supply equipment, portable electric spa,		
9	residential ventilating fan, toilet, urinal, or water cooler		
10	that is manufactured on or after January 1, 2025, may be sold or		
11	offered for sale, lease, or rent in the State unless the		
12	efficiency of the new product meets or exceeds the efficiency		
13	standards provided in section 196-85.		
14	$\left[\frac{b}{c}\right]$ (c) One year after the date upon which the sale or		
15	offering for sale of certain products becomes subject to the		
16	requirements of [ <del>subsection</del> ] <u>subsections</u> (a)[ <del>, no such</del> ] <u>and (b),</u>		
17	these products [may] shall not be installed for compensation in		
18	the State unless the efficiency of the new product meets or		
19	exceeds the efficiency standards provided in section 196-85."		
20	SECTION 7. Statutory material to be repealed is bracketed		
21	and stricken. New statutory material is underscored.		

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1 SECTION 8. This Act shall take effect on July 1, 2050.

#### Report Title:

Minimum Efficiency Standards; Appliances; Chief Energy Officer; Hawaii State Energy Office

#### Description:

Allows the Chief Energy Officer of the Hawaii State Energy Office to enforce minimum efficiency standards and adopt or amend efficiency standards. Sets minimum efficiency standards for air purifiers, electric vehicle supply equipment, portable electric spas, residential ventilating fans, toilets, urinals, and water coolers. 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.

