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	hiah	cost	of
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- 2 living in Hawaii adds to the importance of adopting policies
- 3 that promote and encourage energy efficiency, which can provide
- 4 relief for families and businesses faced with high utility
- 5 bills. In 2019, the legislature took the notable step of
- 6 establishing minimum energy and water efficiency standards for
- 7 certain products sold, leased, or rented in the State. These
- 8 standards are estimated to result in \$169,700,000 in cumulative
- 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
- 13 at Red Hill that have led to the closure of the Halawa shaft,
- 14 which previously provided twenty per cent of the water supply
- 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 mill	ions of dollars on utility bills annually and can offe
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 enforcement 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	noncompli	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			

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 portable
6	electric spas, residential ventilating fans, toilets,
7	urinals, and water coolers.
8	SECTION 2. Section 196-81, Hawaii Revised Statutes, is
9	amended as follows:
10	1. By adding eight new definitions to be appropriately
11	inserted and to read:
12	""Chief energy officer" means the chief energy officer of
13	the Hawaii state energy office.
14	"Plumbing fixture" means an exchangeable device that
15	connects to a plumbing system to deliver and drain away water
16	and waste.
17	"Portable electric spa" means a factory-built electric spa
18	or hot tub, which may include any combination of integral
19	controls, water heating, or water circulating equipment.
20	"Residential ventilating fan" means a ceiling or wall-
21	mounted fan, or remotely mounted in-line fan, designed to be

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

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

handheld showerheads and any other showerhead[, including a

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

(9) Urinals; and

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2	(10)	Water coolers."
3	SECT	ION 5. Section 196-85, Hawaii Revised Statutes, is
4	amended t	o read as follows:
5	"[+]	§196-85[] Appliance] Minimum efficiency standards.
6	[(a)] Th	e following minimum efficiency standards shall apply to
7	products	listed or incorporated in section 196-84:
8	(1)	Computers and computer monitors shall meet the
9		requirements set forth in California Code of
10		Regulations, Title 20, Section 1605.3, as amended;
11	(2)	Faucets shall meet the minimum efficiency standards
12		set forth in California Code of Regulations, Title 20,
13		Section 1605.1, as amended;
14	(3)	High color rendering index fluorescent lamps shall
15		meet the minimum efficacy requirements contained in
16		[Section] title 10 Code of Federal Regulations section
17		430.32(n)(4) [of Title 10 of the Code of Federal
18		Regulations], as in effect on January 3, 2017, as
19		measured in accordance with [Appendix] title 10 Code
20		of Federal Regulations part 430, appendix R to
21		[Subpart] subpart B [of Part 430 of Title 10 of the

1		Code of Federal Regulations] - "Uniform Test Method for
2		Measuring Average Lamp Efficacy (LE), Color Rendering
3		Index (CRI), and Correlated Color Temperature (CCT) of
4		Electric Lamps"—as amended;
5	(4)	Portable electric spas shall meet the requirements of
6		the American National Standard for Portable Electric
7		Spa Energy Efficiency (ANSI/APSP/ICC 14-2019);
8	(5)	In-line residential ventilating fans shall have a fan
9		motor efficacy of no less than 2.8 cubic feet per
10		minute per watt. All other residential ventilating
11		fans shall have a fan motor efficacy of no less than
12		1.4 cubic feet per minute per watt for airflows less
13		than ninety cubic feet per minute and no less than 2.8
14		cubic feet per minute per watt for other airflows when
15		tested in accordance with Home Ventilation Institute
16		Publication 916 "HVI Airflow Test Procedure";
17	[- (-4)-]	(6) Showerheads shall meet the minimum efficiency
18		standards set forth in California Code of Regulations,
19		Title 20, Section 1605.1, as amended; [and
20	. (5)]	(7) Spray sprinkler bodies that are not specifically
21		excluded from the scope of the Environmental

1		Protection Agency's WaterSense Specification for Spray
2		Sprinkler Bodies, Version 1.0, shall include an
3		integral pressure regulator and shall meet the water
4		efficiency and performance criteria and other
5		requirements of that specification, as amended $[\cdot]$:
6	(8)	Toilets, water closets, and urinals, other than those
7		designed and marketed exclusively for use at prisons
8		or mental health facilities, shall meet the standards
9		shown in subparagraphs (A) to (D) when tested in
10		accordance with title 10 Code of Federal Regulations
11		Part 430, appendix T to subpart B "Uniform Test
12		Method for Measuring the Water Consumption of Water
13		Closets and Urinals" and toilets shall pass the
14		waste extraction test for water closets (Section 7.9)
15		of the American Society of Mechanical Engineers
16		A112.19.2/CSA B45.1-2018:
17		(A) Wall-mounted urinals, except for trough-type
18		urinals and urinals designed and marketed
19		exclusively for use in prisons and mental health
20		care facilities, shall have a maximum flush
21		volume of 0.5 gallon per flush;

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1	<u>(B)</u>	Floor-mounted urinals, except for trough-type
2	-	urinals and urinals designed and marketed
3		exclusively for use in prisons and mental health
4		care facilities, shall have a maximum flush
5		volume of 0.5 gallon per flush;
6	<u>(C)</u>	Toilets, except for dual-flush tank-type toilets
7		and toilets designed and marketed exclusively for
8		use in prisons and mental health care facilities,
9		shall have a maximum flush volume of 1.28 gallons
10		per flush; and
11	(D)	Dual-flush tank-type toilets shall have a maximum
12		dual-flush effective flush volume of 1.28 gallons
13		per flush. As used in this subparagraph, "dual-
14		flush effective flush volume" means the average
15		flush volume of two reduced flushes and one full
16		flush; and
17 (9)	Wate	r coolers included in the scope of the ENERGY STAR
18	Prog	ram Requirements Product Specification for Water
19	Cool	ers, Version 2.0, shall have an on mode with no
20	wate	r draw energy consumption less than or equal to

ı	the	following values as measured in accordance with
2	the	test requirements of that program:
3	(A)	0.16 kilowatt-hour per day for cold-only units
4		and cook and cold units. As used in this
5		subparagraph, "cold-only units" means water
6		cooler units that dispense cold water only;
7	<u>(B)</u>	0.87 kilowatt-hour per day for storage-type hot
8		and cold units. As used in this subparagraph:
9		"Hot and cold units" means water coolers
10		that dispense hot and cold water.
11		"Storage-type" means water cooler units in
12		which thermally conditioned water is stored in a
13		tank in the water cooler and is available
14		instantaneously, including point-of-use, dry
15		storage compartment, and bottled water coolers;
16		and
17	(C)	0.18 kilowatt-hour per day for on-demand hot and
18		cold units. As used in this subparagraph:
19		"Hot and cold units" means water coolers
20		that dispense both hot and cold water.

1	"On-demand" means a water cooler unit in
2	which water is heated as it is requested, which
3	typically takes a few minutes to deliver.
4	[(b) When adopting standards for appliances pursuant to
5	section 196-84(a), the director shall set appliance efficiency
6	standards upon a determination that increased efficiency
7	standards would serve to promote energy or water conservation in
8	the State and would be cost effective for consumers who purchase
9	and use such new products.]"
10	SECTION 6. Section 196-86, Hawaii Revised Statutes, is
11	amended to read as follows:
12	"[+]\$196-86[+] Implementation. (a) On or after
13	January 1, 2021, no new computer or computer monitor, faucet,
14	high color rendering index fluorescent lamp, showerhead, or
15	spray sprinkler body [may] shall be sold or offered for sale,
16	lease, or rent in the State unless the efficiency of the new
17	product meets or exceeds the efficiency standards provided in
18	section 196-85.
19	(b) On or after January 1, 2025, no new air purifier,
20	electric vehicle supply equipment, portable electric spa,
21	residential ventilating fan, toilet, urinal, or water cooler

- 1 that is manufactured on or after January 1, 2025, shall be sold
- 2 or offered for sale, lease, or rent in the State unless the
- 3 efficiency of the new product meets or exceeds the efficiency
- 4 standards provided in section 196-85.
- 5 [\(\frac{(b)}{}\)] (c) One year after the date upon which the sale or
- 6 offering for sale of certain products becomes subject to the
- 7 requirements of [subsection] subsections (a) [, no such] and (b),
- 8 these products [may] shall not be installed for compensation in
- 9 the State unless the efficiency of the new product meets or
- 10 exceeds the efficiency standards provided in section 196-85."
- 11 SECTION 7. Section 196-88, Hawaii Revised Statutes, is
- 12 amended to read as follows:
- "[+]\$196-88[+] Testing, certification, and labeling.
- 14 Manufacturers shall test, certify, and label products meeting
- 15 the standards set forth in section 196-85 and may utilize
- 16 testing, certification, and labeling programs of other states
- 17 and federal agencies with similar standards, including the Home
- 18 Ventilating Institute's certified products directory
- 19 certification program, for purposes of compliance under this
- 20 part. Products listed in California's Modernized Appliance

- 1 Efficiency Database System shall be deemed to be in compliance
- with this part."
- 3 SECTION 8. Statutory material to be repealed is bracketed
- 4 and stricken. New statutory material is underscored.
- 5 SECTION 9. This Act shall take effect on June 30, 3000.

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 portable electric spas, residential ventilating fans, toilets, urinals, and water coolers. Allows manufacturers to utilize the Home Ventilating Institute's certified products directory certification program to meet certain standards. Effective 6/30/3000. (HD1)

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