JAN 2 3 2020

A BILL FOR AN ACT

RELATING TO HYDROFLUOROCARBONS.

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

- 1 SECTION 1. The legislature finds that hydrofluorocarbons,
- 2 or HFCs, are synthetic gases that pose a significant risk to our
- 3 environment and therefore should be phased out and replaced with
- 4 available alternatives that are safer and more cost-effective.
- 5 Hydrofluorocarbons are greenhouse gases that are hundreds to
- 6 thousands of times more potent than carbon dioxide in
- 7 contributing to climate change. If left unchecked,
- 8 hydrofluorocarbon emissions will increase to seven to nineteen
- 9 per cent of global greenhouse gas emissions by 2050.
- 10 Hydrofluorocarbons are widely used as cooling agents in air
- 11 conditioners and refrigerators and in aerosol propellants,
- 12 solvents, and foaming agents. These gases enter the environment
- 13 through the manufacture, leakage, and disposal of these
- 14 products.
- 15 Prior to the use of hydrofluorocarbons, chlorofluorocarbons
- 16 (CFCs) were used for these applications. Beginning in 1987,
- 17 chlorofluorocarbons were globally phased out by the Montreal



- 1 Protocol due to the role of these gases in ozone depletion.
- 2 Hawaii banned the sale and release of chlorofluorocarbons
- 3 through Act 77, Session Laws of Hawaii 1989; Act 316, Session
- 4 Laws of Hawaii 1990; and Act 264, Session Laws of Hawaii 1992;
- 5 however, hydrofluorocarbons were excluded from these
- 6 prohibitions.
- 7 Now, following nearly three decades of widespread use,
- 8 there is an increased awareness of the significant impacts that
- 9 hydrofluorocarbons have on climate change. While
- 10 hydrofluorocarbons do not deplete ozone like
- 11 chlorofluorocarbons, they are long-lived and have more than a
- 12 thousand times more warming potential than carbon dioxide.
- 13 Given this understanding, there has been action nationally and
- 14 internationally to phase out the use of hydrofluorocarbons.
- 15 California and Washington have both passed legislation to
- 16 replace hydrofluorocarbons with safer alternatives, and the
- 17 Kigali Amendment to the Montreal Protocol provides a framework
- 18 to transition from hydrofluorocarbons to substances having low
- 19 to zero global warming potential.
- 20 Given Hawaii's efforts to reduce greenhouse gas emissions
- 21 and mitigate the effects of climate change, the phase-out of

- 1 hydrofluorocarbons aligns with many existing goals and
- 2 priorities. This is especially important now because federal
- 3 action to address hydrofluorocarbons has stalled. Although the
- 4 United States Environmental Protection Agency, recognizing the
- 5 impacts of hydrofluorocarbons on climate change, previously
- 6 implemented a rule under the Clean Air Act that imposed stricter
- 7 requirements on hydrofluorocarbons emission monitoring and
- 8 disposal, the agency subsequently proposed a reversal of this
- 9 rule, thereby jeopardizing the increased regulation of
- 10 hydrofluorocarbons at the federal level.
- In the absence of federal action, states must provide
- 12 leadership by addressing hydrofluorocarbons now because the
- 13 impacts of climate change will not wait for federal law to
- 14 regulate these harmful emissions. The legislature finds that
- 15 substituting or reducing the use of hydrofluorocarbons with the
- 16 highest global warming potential will provide a significant
- 17 boost to the State's efforts to reduce its greenhouse gas
- 18 emissions to established limits. The legislature also finds
- 19 that hydrofluorocarbons will be comparatively easy to reduce and
- 20 eliminate without widespread detriment to industry consumers.

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2	reducing greenhouse gas emissions, disposal of
3	hydrofluorocarbons currently in use is also a necessary
4	consideration. Because the State does not regulate
5	hydrofluorocarbons in the same way that it regulates
6	chlorofluorocarbons, there are currently no standards addressing
7	the disposal of products containing hydrofluorocarbons.
8	However, hydrofluorocarbons are recyclable and it is estimated
9	that if thirty per cent of hydrofluorocarbons currently in use
10	globally were recycled, approximately eighteen billion metric
11	tons of carbon dioxide-equivalent emissions would be prevented
12	over the next twenty-five years.
13	The purpose of this Act is to:
14	(1) Preserve federal regulations on the use of
15	hydrofluorocarbons in state law;

While phasing out hydrofluorocarbons is essential to

19 (3) Direct the state energy office and the environmental
20 management division of the department of health to
21 study how to increase the use of refrigerants with low

(2) Establish a preference for products that do not

contain hydrofluorocarbons in the state procurement

code; and

1	global warming potential and recommend how to
2	establish a state program that supports the
3	elimination of legacy uses of hydrofluorocarbons.
4	SECTION 2. Chapter 342B, Hawaii Revised Statutes, is
5	amended by adding a new part to be appropriately designated and
6	to read as follows:
7	"PART . REGULATION OF HYDROFLUOROCARBONS
8	§342B-A Definitions. As used in this part, unless the
9	context otherwise requires:
10	"Class I substance" and "class II substance" means those
11	substances listed in 42 United States Code section 7671a, as it
12	read on November 15, 1990, or those listed in Appendix A or B of
13	Subpart A of 40 Code of Federal Regulations part 82, as those
14	read on January 3, 2017.
15	"Consumer refrigeration product" shall have the same
16	meaning as in 10 Code of Federal Regulations section 430.2, as
17	that section read on January 3, 2017.
18	"Greenhouse gas" includes carbon dioxide, methane, nitrous
19	oxide, hydrofluorocarbons, perfluorocarbons, sulfur
20	hexafluoride, and any other gas designated by the department by
21	rule.

- 1 "Hydrofluorocarbons" means a class of greenhouse gases that
- 2 are saturated organic compounds containing hydrogen, fluorine,
- 3 and carbon.
- 4 "Manufacturer" means a person that produces, imports, or
- 5 distributes a product that contains or uses hydrofluorocarbons.
- 6 "Retrofit" shall have the same meaning as in 40 Code of
- 7 Federal Regulations section 82.152 section 152, as that section
- **8** read on January 3, 2017.
- 9 "Substitute" means a chemical, product substitute, or
- 10 alternate manufacturing process, whether existing or new, that
- 11 is used to perform a function previously performed by a class I
- 12 substance or class II substance and any substitute subsequently
- 13 adopted to perform that function, including but not limited to
- 14 hydrofluorocarbons; provided that the term shall not include 2-
- 15 BTP or any compound as applied to its use in aerospace fire
- 16 extinguishing systems.
- 17 §342B-B Regulation of hydrofluorocarbons. (a) No person
- 18 shall offer any product or equipment for sale, lease, rent, or
- 19 installation, or otherwise cause the product or equipment to
- 20 enter commerce in the State if that equipment or product

1	consists of, u	ses, or will use a substitute, consistent with the
2	deadlines esta	blished in subsection (b).
3	(b) The	restrictions under subsection (a) for the
4	following prod	ucts and equipment identified in Appendixes U and
5	V, Subpart G o	f 40 Code of Federal Regulations Part 82, as those
6	read on Januar	y 3, 2017, shall take effect beginning:
7	(1) Janu	ary 1, 2021, for:
8	(A)	Propellants;
9	(B)	Rigid polyurethane applications and spray foam,
10		flexible polyurethane, integral skin
11		polyurethane, flexible polyurethane foam,
12		polystyrene extended sheet, polyolefin, phenolic
13		insulation board, and bunstock; and
14	(C)	Supermarket systems, remote condensing units,
15		standalone units, and vending machines;
16	(2) Janu	ary 1, 2022, for:
17	(A)	Refrigerated food processing and dispensing
18		equipment;

(B) Compact consumer refrigeration products; and

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1		(C) Polystyrene extruded boardstock and billet, and
2		rigid polyurethane low-pressure two component
3		spray foam;
4	(3)	January 1, 2023, for consumer refrigeration products
5		other than compact and built-in consumer refrigeration
6		products;
7	(4)	July 1, 2023, for cold storage warehouses;
8	(5)	July 1, 2024, for built-in consumer refrigeration
9		products;
10	(6)	July 1, 2024, for centrifugal chillers and positive
11		displacement chillers; and
12	(7)	On either July 1, 2022, or the effective date of the
13		restrictions identified in appendixes U and V, Subpart
14		G of 40 Code of Federal Regulations Part 82, as those
15		read on January 3, 2017, whichever is later, for all
16		other applications and end uses for substitutes not
17		covered by the categories listed in paragraphs (1)
18		through (6) of this subsection.
19	(c)	Except where existing equipment is retrofit, nothing
20	in this s	ection shall be deemed to require a person who acquired
21	a restric	ted product or equipment prior to the effective date of

- 1 the restrictions in subsection (b) to cease use of that product
- 2 or equipment. A product or equipment manufactured prior to the
- 3 applicable effective date of the restrictions specified in
- 4 subsection (b) may be sold, imported, exported, distributed,
- 5 installed, and used after the specified effective date.
- 6 (d) The department may adopt rules pursuant to chapter 91
- 7 to:
- 8 (1) Modify the effective date of a prohibition established
- 9 in subsection (b) if the department determines that
- 10 the rule reduces the overall risk to human health or
- 11 the environment and reflects the earliest date that a
- substitute is currently or potentially available;
- 13 (2) Prohibit the use of a substitute if the department
- 14 determines that the prohibition reduces the overall
- 15 risk to human health or the environment and that a
- lower risk substitute is currently or potentially
- 17 available;
- 18 (3) Adopt a list of approved substitutes, use conditions,
- or use limits, if any;
- 20 (4) Add or remove substitutes, use conditions, or use
- limits to or from the list of approved substitutes if

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1	the depa	artmen	to	determi	ines t	hose	subst	titutes	reduce	the
2	overall	risk	to	human	healt	h and	l the	enviror	ment;	and

- (5) Designate acceptable uses of hydrofluorocarbons for medical uses that are exempt from the requirements of subsection (b).
- 6 Within twelve months of another state's enactment or 7 adoption of restrictions on substitutes applicable to new light 8 duty vehicles, the department may adopt restrictions applicable 9 to the sale, lease, rental, or other introduction into commerce 10 by a manufacturer of new light duty vehicles consistent with the 11 restrictions identified in Appendix B, Subpart G of 40 Code of 12 Federal Regulations Part 82, as it read on January 3, 2017. The 13 department shall not adopt restrictions that take effect prior 14 to the effective date of the restrictions adopted or enacted in 15 at least one other state.
- (f) If the United States Environmental Protection Agency
 approves a previously prohibited hydrofluorocarbon blend with a
 global warming potential of seven hundred fifty or less for foam
 blowing of polystyrene extruded boardstock and billet and rigid
 polyurethane low-pressure two-component spray foam pursuant to
 the significant new alternatives policy program under 42 United

1	States Code sec	ction /6/1k, the department shall adopt rules to
2	conform its rul	les to that federal action as soon as practicable.
3	§342B-C	Disclosure of the use of substitutes. A
4	manufacturer sl	hall disclose the substitutes used in its products
5	or equipment in	n the form of:
6	(1) A la	bel on the product or equipment that meets the
7	requ	irements established by the department by rule;
8	prov	ided that:
9	(A)	To the extent practicable, the department shall
10		recognize existing labeling that provides
11		sufficient disclosure of the use of substitutes
12		in the product or equipment;
13	(B)	The department shall consider labels required by
14		state building codes and other safety standards
15		when adopting rules pursuant to this paragraph;
16		and
17	(C)	The department shall not require the labeling of
18		aircraft and aircraft components subject to
19		certification requirements of the Federal
20		Aviation Administration: and

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1	(2)	Submitting information about the use of substitutes to
2		the department, upon request; provided that the
3		submission meets the following deadlines:

- (A) By December 31, 2021, all manufacturers shall notify the department of the status of each product class utilizing hydrofluorocarbons or other substitutes restricted under section 342B-A that the manufacturer sells, offers for sale, leases, installs, or rents in the State. This status notification shall identify the substitutes used by the products or equipment in each product or equipment class in a manner determined by rule;
- (B) Within one hundred twenty days of the date a restriction is put in place pursuant to this section, any manufacturer affected by the restriction shall provide an updated status notification, which shall indicate whether the manufacturer has ceased the use of hydrofluorocarbons or substitutes restricted under this section within each product class and,

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1		if not, what hydrofluorocarbons or other
2		restricted substitutes remain in use; and
3	(C)	After the effective date of a restriction put in
4		place pursuant to this section, a manufacturer
5		shall provide an updated status notification when
6		the manufacturer introduces a new or modified
7		product or piece of equipment that uses
8		hydrofluorocarbons or changes the type of
9		hydrofluorocarbons utilized within a product
10		class affected by a restriction; provided that
11		the notification shall occur within one hundred
12		twenty days of the date the product or equipment
13		triggering the notification requirement in this
14		subparagraph is introduced into commerce in the
15		State.
16	§342B-D	Rules. The department may adopt rules pursuant to
17	chapter 91 to	implement this section; provided that:
18	(1) The	department shall seek, where feasible, to adopt
19	rule	es, including rules under section 342B-B(e), that
20	are	consistent with the regulatory standards,
21	exem	ptions, reporting obligations, disclosure

Ţ	requ	irements, and other compliance requirements of									
2	othe	er states or the federal government that have									
3	adopted restrictions on the use of hydrofluorocarbor										
4	and other substitutes; and										
5	(2) Prio	or to the adoption or update of a rule under this									
6	sect	tion, the department shall identify the sources of									
7	info	ormation it relied on, including peer-reviewed									
8	scie	ence.									
9	§342B-E	Aircraft maintenance; definition. For the									
10	purposes of in	mplementing the restrictions specified in									
11	Appendix U of	Subpart G of 40 C.F.R. Part 82, as it read on									
12	January 3, 201	.7, consistent with this section, the department									
13	shall interpre	et the term "aircraft maintenance" to mean									
14	activities to	support the production, fabrication, manufacture,									
15	rework, inspec	ction, maintenance, overhaul, or repair of									
16	commercial, c	vil, or military aircraft, aircraft parts,									
17	aerospace veh	cles, or aerospace components.									
18	§342B-F	Authority to regulate supplementary. The									
19	authority gran	nted by this part to the department to restrict the									
20	use of substit	tutes shall be supplementary to the department's									
21	authority to o	control air pollution pursuant to this chapter.									

- 1 Nothing in this part shall be construed to limit any authority
- 2 granted to the department under any other law.
- 3 §342B-G Use of commercial refrigeration equipment after
- 4 effective date of restrictions. Except where existing equipment
- 5 is retrofit, the restrictions of this part shall not apply to or
- 6 limit any use of commercial refrigeration equipment that was
- 7 installed or placed in use prior to the effective date of the
- 8 restrictions established in this part.
- 9 §342B-H Penalties. (a) The department may fine any
- 10 person not more than \$25,000 per day for each violation of any
- 11 provision of this part or any rule adopted under this part. The
- 12 director may also impose an administrative penalty of not more
- 13 than \$25,000 per day for each violation of any provision of this
- 14 part or any rule adopted under this part. Each day of each
- 15 violation shall constitute a separate offense for the purpose of
- 16 calculating the fine or penalty.
- 17 (b) Any person who fails to comply with an order issued
- 18 pursuant to this part shall be fined not more than \$25,000 for
- 19 each day of continued noncompliance.
- 20 (c) A fine or administrative penalty incurred but not paid
- 21 shall accrue interest, beginning on the ninety-first day

- 1 following the date the penalty became due, at the highest rate
- 2 allowed under chapter 478. If a fine or administrative penalty
- 3 is appealed, interest shall not begin to accrue until the
- 4 thirty-first day following the date of the final resolution of
- 5 the appeal.
- 6 (d) The maximum penalty amount established by subsection
- 7 (a) may be increased annually to adjust for inflation, as
- 8 calculated by the consumer price index or other acceptable
- 9 adjustment mechanism as determined by the rule.
- 10 (e) All fines collected under this section shall be
- 11 deposited in the environmental response revolving fund
- 12 established by section 128D-2.
- (f) A public or private entity that receives or is the
- 14 potential recipient of a grant from the department may have the
- 15 grant rescinded or withheld by the department for failure to
- 16 comply with the provisions of this part.
- 17 (g) In addition to other penalties provided by this part
- 18 or by a rule adopted pursuant to this part, any person who
- 19 knowingly underreports emissions or other information used to
- 20 set fees, or persons who are required to pay emission or permit
- 21 fees who are more than ninety days late with regard to the

1	payment, may be	subject to a penalty equal to three times the							
2	amount of the o	riginal fee owed.							
3	(h) The d	epartment shall adopt rules to excuse excess							
4	emissions from	enforcement action if the emissions are							
5	unavoidable. T	he rules shall specify the criteria and							
6	procedures for	the department and local air authorities to							
7	determine wheth	er a period of excess emissions is excusable in							
8	accordance with the state implementation plan."								
9	SECTION 3.	Chapter 103D, Hawaii Revised Statutes, is							
10	amended by addi	ng a new section to part X to be appropriately							
11	designated and	to read as follows:							
12	" <u>§103D-</u>	Preference for products that do not contain							
13	hydrofluorocarb	ons. (a) The policy board shall adopt rules							
14	that provide a	preference for products that:							
15	(1) Are n	ot restricted under section 342B-B;							
16	(2) Do no	t contain hydrofluorocarbons or contain							
17	hydro	fluorocarbons with a comparatively low global							
18	warmi	ng potential;							
19	(3) Are n	ot designed to function only in conjunction with							
20	hydro	fluorocarbons characterized by a comparatively							
21	high	global warming potential; and							

	(4) Were not manufactured using hydroridorocarbons or were
2	manufactured using hydrofluorocarbons with a low
3	global warming potential.
4	(b) A government body shall not knowingly purchase a
5	product that is not accorded a preference in the purchasing and
6	procurement rules established by the policy board pursuant to
7	subsection (a) unless there is no cost-effective and
8	technologically feasible option that is accorded a preference.
9	(c) Nothing in this section shall require an agency to
10	breach an existing contract or dispose of stock that has been
11	ordered or is in the possession of the agency as of the
12	effective date of this section.
13	(d) As used in this section, "hydrofluorocarbon" shall
14	have the same meaning as in section 342B-A."
15	SECTION 4. Chapter 107, Hawaii Revised Statutes, is
16	amended by adding a new section to part II to be appropriately
17	designated and to read as follows:
18	"§107- State building codes; hydrofluorocarbons;
19	updates. (a) When adopting, amending, or updating the codes
20	and standards identified in section 107-25, the council shall
21	establish codes and standards that permit the use of substitutes

1 and do not require the use of substitutes that are restricted by 2 section 342B-B. 3 (b) As used in this section, "substitute" shall have the 4 same meaning as in section 342B-A." 5 SECTION 5. (a) The state energy office, in conjunction 6 with the environmental management division of the department of 7 health, shall conduct a study that: 8 (1) Addresses how to increase the use of refrigerants with 9 low global warming potential in mobile sources, 10 utility equipment, and consumer appliances; 11 (2) Addresses how to reduce other uses of 12 hydrofluorocarbons in the State; and 13 (3) Provides recommendations for funding, structuring, and 14 prioritizing a state program that incentivizes or 15 provides grants to support the elimination of legacy 16 uses of all hydrofluorocarbons, including 17 hydrofluorocarbons that are not regulated by section 2 18 of this Act. 19 (b) The state energy office shall submit a report of its 20 findings and recommendations, including any proposed 21 legislation, to the legislature no later than December 1, 2022.

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- 2 matured, penalties that were incurred, and proceedings that were
- 3 begun before its effective date.
- 4 SECTION 7. If any provision of this Act, or the
- 5 application thereof to any person or circumstance, is held
- 6 invalid, the invalidity does not affect other provisions or
- 7 applications of the Act that can be given effect without the
- 8 invalid provision or application, and to this end the provisions
- 9 of this Act are severable.
- 10 SECTION 8. In codifying the new sections added by section
- 2 of this Act, the revisor of statutes shall substitute 11
- 12 appropriate section numbers for the letters used in designating
- 13 the new sections in this Act.
- 14 SECTION 9. New statutory material is underscored.
- 15 SECTION 10. This Act shall take effect on July 1, 2020.

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INTRODUCED BY: MWN.M.

Report Title:

Greenhouse Gas Emissions; Hydrofluorocarbons; State Energy Office; Environmental Management Division; DOH; Phase Out; Procurement; Study

Description:

Preserves preexisting federal regulations on the use of hydrofluorocarbons in state law. Phases out hydrofluorocarbons in favor of alternatives with lower global warming potential. Establishes a preference for products that do not contain hydrofluorocarbons in the state procurement code. Directs the State Energy Office and the Environmental Management Division of the Department of Health to study how to increase the use of refrigerants with low global warming potential, reduce the use of hydrofluorocarbons, and recommend how to fund, structure, and prioritize a state program that incentivizes or provides grants to support the elimination of legacy uses of hydrofluorocarbons.

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