### A BILL FOR AN ACT

RELATING TO GREENHOUSE GAS EMISSIONS.

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

1	SECTION 1. The legislature finds that there is a need for
2	a holistic plan of action for Hawai'i regarding policy,
3	technology, funding, and facilitation of public and private
4	actions on climate change mitigation. The Intergovernmental
5	Panel on Climate Change 2018 report concludes that Hawaiʻi has
6	less than fifteen years to address permanent climate change and
7	sea level rise and their associated high level of disruption to
8	the islands of Hawaiʻi.
9	The legislature has established requirements to:
10	(1) Reduce greenhouse gas emissions from the state economy
11	to 1990 levels; establish a greenhouse gas emissions
12	reduction task force, now repealed; and create a year
13	2020 statewide framework of action pursuant to Act
14	234, Session Laws of Hawaii 2007;
15	(2) Sequester greenhouse gases with carbon offsets on
16	state lands and require a plan to evaluate the

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1		feasibility and implications of establishing a carbon
2		offset program for Hawaiʻi;
3	(3)	Consider greenhouse gas impacts in government
4		decisions and orders, such as environmental
5		assessments, environmental impact statements, and
6		decisions from the public utilities commission;
7	(4)	Establish the Hawaiʻi climate change mitigation and
8		adaptation commission;
9	(5)	Achieve a net-zero greenhouse gas emissions economy by
10		2050;
11	(6)	Establish a one hundred per cent renewable electricity
12		portfolio standard by 2045; and
13	(7)	Resolve to integrate food, fuel, and waste reduction
14		and re-use activities toward greater economic
15		viability and environmental sustainability highlighted
16		in S.C.R. No. 121, Regular Session of 2017.
17	Howe	ver, up to this point, these requirements and goals
18	have been	focused on the electricity and ground transportation
19	sectors a	nd on group and point sources of greenhouse emissions.
20	These req	uirements do not regard the emissions from other forms
21	of transp	ortation or other major economic drivers.

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1	The	legislature further finds that the Hawaiʻi Aviation and
2	Climate A	ction Summit held in December 2019 issued the following
3	findings:	
4	(1)	Nearly a third of the energy consumed in the State is
5		for jet fuel, a higher proportion of energy
6		consumption than for any other energy sector;
7	(2)	Over one-third of the flights are to and from
8		international destinations;
9	(3)	International flights to and from Hawaiʻi will start to
10		come under the mandate established by the
11		International Civil Aviation Organization's Carbon
12		Offset and Reduction Scheme for International Aviation
13		to reduce their aviation greenhouse gas emission to
14		fifty per cent below 2005 levels by 2050;
15	(4)	Transportation is the single largest producer of
16		greenhouse gas emissions in Hawaiʻi;
17	(5)	Renewable fuels must be part of a balanced portfolio
18		and state action plan to effect certified greenhouse
19		gas reduction in the near term, in addition to carbon
20		offsets;

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1 Sustainable aviation fuels have been demonstrated at (6) 2 commercial scale in the continental United States and 3 can be manufactured in six different American Society 4 for Testing Manuals approved and Federal Aviation 5 Administration certified ways from agricultural, 6 animal, municipal, and construction wastes as well as 7 purpose-grown crops and forest materials; 8 (7) The International Civil Aviation Organization's Carbon 9 Offset and Reduction Scheme for International Aviation 10 mandate is a significant requirement on airlines 11 serving Hawai'i, for which the State should establish a 12 task force and "flight plan" to map out public and 13 private actions to cost-effectively reduce greenhouse 14 gas emissions; 15 (8) The International Civil Aviation Organization's Carbon 16 Offset and Reduction Scheme for International 17 Aviation, United States' federal Renewable Fuel 18 Standard, State of California's Low-Carbon Fuel 19 Standard, and State of Oregon's Clean Fuels Program 20 are all market-based measures to quantify, 21 incentivize, and monetize industry action to reduce

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1 greenhouse gas emissions by the transportation sector. 2 These measures are also flexible and effective ways to 3 quantify and monetize the benefits of renewable fuels, carbon offsets, hydrogen and fuel cells, and 4 5 transportation electrification based upon lifecycle 6 greenhouse gas emissions performance; and 7 (9) Market-based policy measures more directly stimulate 8 innovation, economic growth, and meaningful behavioral 9 change than the state-level policies Hawai'i has in 10 place today (barrel tax, carbon tax, environmental 11 permitting/impact statements, and incentives which 12 require annual appropriation). The federal Renewable 13 Fuel Standard that Hawai'i opted in to has directly led 14 to a reduction of greenhouse gas in the ground 15 transportation sector by thousands of barrels per day. 16 California's Low-Carbon Fuel Standard has reduced 17 greenhouse gases emissions in California over fifty 18 million metric tons through just second quarter of 19 2019. Seventy-five per cent of venture capital 20 investment in clean transportation in the United 21 States has been directed to California. California's

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1 Low-Carbon Fuel Standard has also helped investors to 2 justify one hundred and three hundred dollar million 3 investments to build new renewable fuel production 4 plants. Low-Carbon Fuel Standard-stimulated economic 5 development currently at over three hundred companies 6 and twenty thousand workers and decreased greenhouse 7 gas emissions per gross domestic product by forty per 8 cent.

9 Therefore, the legislature concludes that the development 10 of sustainable aviation fuel capability in Hawai'i continues to 11 exercise leadership in global greenhouse gas emission reduction 12 actions and also has the potential to reduce dependence on 13 foreign sources of fossil fuels, promote economic development, 14 increase the limited options for waste disposal and re-use, 15 facilitate invasive species removal and landscape restoration, 16 and overall improve environmental sustainability in Hawai'i.

17 The purpose of this Act is to establish a task force to
18 develop a state action plan to reduce the greenhouse gas
19 emissions generated by international air transportation from
20 Hawai'i.

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1 SECTION 2. (a) There is established a sustainable 2 aviation fuel task force within the department of business, 3 economic development, and tourism's Hawaii state energy office 4 for administrative purposes. The purpose of the sustainable 5 aviation fuel task force is to: 6 Prepare a work plan and regulatory scheme for (1)7 implementing the maximum practically and technically 8 feasible and cost-effective reductions in greenhouse 9 gas emissions from transportation sources or categories of sources of greenhouse gases to help 10 11 commercial airlines serving Hawaii meet the mandate 12 set for international commercial aviation by the 13 International Civil Aviation Organization, 14 specifically the Carbon Offset and Reduction Scheme 15 for International Aviation to reduce aviation 16 greenhouse gas emission to fifty per cent below 2005 17 levels by 2050; 18 (2) Further the development of sustainable aviation fuel 19 as a productive industry in Hawaii, using as a 20 foundation the results from the Hawaii Aviation and 21 Climate Action Summit held in December 2019 and the

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1		best practices shared by the federal Aviation
2		Administration's Aviation Sustainability Center and
3		Commercial Aviation Alternative Fuel Initiative;
4	(3)	Facilitate communication and coordination among
5		sustainable aviation fuel stakeholders;
6	(4)	Provide a forum for discussion and problem-solving
7		regarding potential and current barriers related to
8		technology development, production, distribution,
9		supply chain development, and commercialization of
10		sustainable aviation fuel;
11	(5)	Provide recommendations to the legislature on
12		potential legislation that will facilitate the
13		technology development, production, distribution, and
14		commercialization of sustainable aviation fuel;
15		facilitate and streamline the permitting process for
16		new facilities and the expansion of existing
17		facilities; and provide access to low-cost financing
18		through the issuance of revenue bonds and matching
19		funds through the Hawaii technology development
20		corporation; and

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1	(6)	Evaluate the prospect of Hawaii joining the Pacific
2		Coast Collaborative of the states of California,
3		Oregon, and Washington, and British Columbia to
4		harmonize local carbon fuel and greenhouse gas
5		reduction policy and market-based measures and share
6		best practices.
7	(c)	The Hawaii state energy office shall designate task
8	force mem	bers that represent sectors involved in sustainable
9	aviation	fuel research, development, production, and
10	utilizati	on. The task force shall include but not be limited to
11	represent	atives of the following, or their designees:
12	(1)	The Federal Aviation Administration;
13	(2)	The United States Department of Agriculture;
14	(3)	The Hawaii local of the United States Commercial
15		Aviation Alternative Fuel Initiative;
16	(4)	The Hawaii state senate appointed by the president of
17		the senate;
18	(5)	The Hawaii state house of representatives appointed by
19		the speaker of the house of representatives;
20	(6)	The department of agriculture;
21	(7)	The department of health;

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1	(8)	The department of land and natural resources;
2	(9)	The department of transportation;
3	(10)	The Hawaii tourism authority;
4	(11)	The Hawaii state energy office;
5	(12)	The University of Hawaii;
6	(13)	The Hawaii natural energy institute;
7	(14)	A bioeconomy advocacy organization;
8	(15)	An international airline operator;
9	(16)	A fuel refiner;
10	(17)	Biofuels feedstock producers;
11	(18)	Sustainable transportation fuel producers;
12	(19)	A sustainable energy advocacy organization; and
13	(20)	A carbon offset project practitioner.
14	The	task force shall choose a chair from among its
15	membershi	.p.
16	(d)	The task force shall hold at least two public meetings
17	a year.	
18	(e)	The work plan of the task force shall include:
19	(1)	Consultation with state and county agencies;
20	(2)	Consultation and best practice sharing with
21		international and national organizations and other

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1		states to identify cost-effective policies and
2		methods;
3	(3)	Harmonization of market-based measures and their
4		supporting technical and quantification methods with
5		the International Civil Aviation Organization's Carbon
6		Offset and Reduction Scheme for International
7		Aviation, national, and other state peer-reviewed
8		methods and avoidance of a unique Hawaii method or
9		standard wherever practicable;
10	(4)	Development of measures of effectiveness of varying
11		techniques for greenhouse gas emissions reduction for
12		commercial aviation; and
13	(5)	Framework to evaluate the relative contribution of
14		each method or project, relative to its cost,
15		projected technical maturity between the years 2020
16		and 2050, and contributions toward other
17		sustainability objectives such as skilled job
18		creation, economic development, waste re-use, invasive
19		species removal, and landscape restoration.
20	(f)	The task force shall submit an interim report of its
21	findings	and recommendations to the legislature no later than

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forty days prior to the convening of the regular session of
 2022, and a final report of its findings and recommendations to
 the legislature no later than forty days prior to the convening
 of the regular session of 2023.

(g) The task force shall cease to exist on June 30, 2023;
provided that the Hawaii state energy office may continue the
work of the task force without the effect of this Act should the
Hawaii state energy office deem necessary.

9 (h) The Hawaii state energy office shall submit a report
10 of its findings and recommendations and data on clean
11 transportation related to aviation transportation including:
12 (1) Jet fuel consumption, imports, and local refining and
13 the greenhouse gas benchmark for jet fuel and other

14 transportation fuels; and

15 (2) Sustainable aviation fuel and carbon offset projects
16 and investments, infrastructure and financing needs,
17 supply chain development, and other opportunities and
18 challenges to reducing the greenhouse gas impacts from
19 international commercial aviation,

20 to the legislature no later than twenty days prior to the 21 convening of each regular session.

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SECTION 3. This Act shall take effect on July 1, 2050.

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#### Report Title:

Greenhouse Gas Emissions; Sustainable Aviation Fuel Task Force

#### Description:

Convenes a Sustainable Aviation Fuel Task Force within the Hawaii State Energy Office to develop a state action plan to reduce the greenhouse gas intensity of international air transportation from Hawaii. Effective 7/1/2050. (HD1)

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