#### 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 (IPCC) 2018 report concludes that Hawai'i
- 6 has less than fifteen years to address permanent climate change
- 7 and sea level rise and their associated high level of disruption
- 8 to the islands of Hawai'i.
- 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- 12 reduction task force, now repealed, and create a year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 (Act 234, Session
- 14 Laws of Hawaii, 2007);
- 15 (2) Sequester greenhouse gases with carbon offsets on
- 16 state lands and require a plan to evaluate the

1		feasibility and implications of establishing a carbon
2		offset program for Hawai'i (2019);
3	(3)	Consider greenhouse gas impacts in government
4		decisions and orders (e.g., environmental assessments,
5		environmental impact statements, and decisions from
6		the public utilities commission);
7	(4)	Establish the Hawai'i climate change mitigation and
8		adaptation commission;
9	(5)	Achieve a net-zero greenhouse gas emissions economy by
10		the year 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.

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 Hawai'i will start to
10		come under the mandate established by the
11		International Civil Aviation Organization's (ICAO)
12		Carbon Offset and Reduction Scheme for International
13		Aviation (CORSIA) to reduce their aviation greenhouse
14		gas emission to fifty per cent below 2005 levels by
15		2050;
16	(4)	Transportation is the single largest producer of
17		greenhouse gas emissions in Hawaiʻi;
18	(5)	Renewable fuels must be part of a balanced portfolio
19		and state action plan to effect certified greenhouse
20		gas reduction in the near term, in addition to carbon
21		offsets;

1	(6)	Sustainable aviation fuels have been demonstrated at
2		commercial scale in the continental United States and
3		can be manufactured in six different American Society
4		for Testing Manuals (ASTM) approved and Federal
5		Aviation Administration (FAA) certified ways from
6		agricultural, animal, municipal, and construction
7		wastes as well as purpose-grown crops and forest
8		materials;

- (7) The ICAO CORSIA mandate is a significant requirement on airlines serving Hawai'i, for which the State should establish a task force and "flight plan" to map out public and private actions to cost-effectively reduce greenhouse gas emissions;
- (8) The ICAO CORSIA, United States' federal Renewable Fuel Standard (RFS), State of California's Low-Carbon Fuel Standard (LCFS), and State of Oregon's Clean Fuels Program (CFP) are all market-based measures to quantify, incentivize, and monetize industry action to reduce greenhouse gas emissions by the transportation sector. These measures are also flexible and effective ways to quantify and monetize the benefits

1		of renewable fuels, carbon offsets, hydrogen and fuel
2		cells, and transportation electrification based upon
3		lifecycle greenhouse gas emissions performance; and
4	(9)	Market-based policy measures more directly stimulate
5		innovation, economic growth, and meaningful behavioral
6		change than the state-level policies Hawai'i has in
7		place today (barrel tax, carbon tax, environmental
8		permitting/impact statements, and incentives which
9		require annual appropriation). The federal RFS which
10		Hawai'i opted in to has directly led to a reduction of
11		greenhouse gas in the ground transportation sector by
12		thousands of barrels per day. California's LCFS has
13		reduced greenhouse gases emissions in California over
14		fifty million metric tons through just second quarter
15		of 2019. Seventy-five per cent of venture capital
16		investment in clean transportation in the United
17		States has been directed to California. LCFS has
18		helped investors to justify one hundred and three
19		hundred dollar million investments to build new
20		renewable fuel production plants. LCFS-stimulated
21		economic development currently at over three hundred

1	companies and twenty thousand workers and decreased
2	greenhouse gas emissions per GDP by forty percent.
3	Therefore, the legislature concludes that the development
4	of sustainable aviation fuel capability in Hawai'i continues to
5	exercise leadership in global greenhouse gas emission reduction
6	actions, and also has the potential to reduce dependence on
7	foreign sources of fossil fuels, promote economic development,
8	increase the limited options for waste disposal and re-use,
9	facilitate invasive species removal and landscape restoration,
10	and overall improve environmental sustainability in Hawai'i.
11	The purpose of this Act is to establish a task force to
12	develop a state action plan to reduce the greenhouse gas
13	emissions generated by international air transportation from
14	Hawaiʻi.
15	SECTION 2. (a) There is established a sustainable
16	aviation fuel task force within the department of business,
17	economic development, and tourism's Hawaii state energy office
18	for administrative purposes. The purpose of the sustainable
19	aviation fuel task force is to:
20	(1) Prepare a work plan and regulatory scheme for
21	implementing the maximum practically and technically

1		feasible and cost-effective reductions in greenhouse
2		gas emissions from transportation sources or
3		categories of sources of greenhouse gases to help
4		commercial airlines serving Hawaii meet the mandate
5		set for international commercial aviation by the
6		International Civil Aviation Organization (ICAO),
7		specifically the Carbon Offset and Reduction Scheme
8		for International Aviation (CORSIA), to reduce
9		aviation greenhouse gas emission to fifty per cent
10		below 2005 levels by 2050;
11	(2)	Further the development of sustainable aviation fuel
12		as a productive industry in Hawaii, using as a
13		foundation the results from the Hawaii Aviation and
14		Climate Action Summit held in December 2019 and the
15		best practices shared by the federal Aviation
16		Administration's Aviation Sustainability Center and
17		Commercial Aviation Alternative Fuel Initiative;
18	(3)	Facilitate communication and coordination among
19		sustainable aviation fuel stakeholders;
20	(4)	Provide a forum for discussion and problem-solving
21		regarding potential and current barriers related to

1		technology development, production, distribution,
2		supply chain development, and commercialization of
3		sustainable aviation fuel;
4	(5)	Provide recommendations to the legislature on
5		potential legislation that will facilitate the
6		technology development, production, distribution, and
7		commercialization of sustainable aviation fuel;
8		facilitate and streamline the permitting process for
9		new facilities and the expansion of existing
10		facilities; and provide access to low-cost financing
11		through the issuance of revenue bonds and matching
12		funds through the Hawaii Technology Development
13		Corporation; and
14	(6)	Evaluate the prospect of Hawaii joining the Pacific
15		Coast Collaborative of the States of California,
16		Oregon, and Washington, and British Columbia to
17		harmonize local carbon fuel and greenhouse gas
18		reduction policy and market-based measures and share
19		best practices.
20	(c)	The Hawaii state energy office shall designate task
21	fordo mom	hora that represent seators involved in sustainable

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aviation fuel research, development, production, and
1
   utilization. The task force shall include but not be limited to
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    representatives of the following, or their designees:
3
              The Federal Aviation Administration;
4
         (1)
         (2)
              The United States Department of Agriculture;
5
              The Hawaii focal of the United States Commercial
6
         (3)
7
              Aviation Alternative Fuel Initiative;
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         (4)
              The senate;
9
         (5)
              The house of representatives;
10
         (6)
              The department of agriculture;
11
         (7)
              The department of health;
              The department of land and natural resources;
12
         (8)
13
         (9)
              The department of transportation;
14
        (10)
              The Hawaii tourism authority;
              The Hawaii state energy office;
15
        (11)
              The University of Hawaii;
16
        (12)
17
        (13)
              The Hawaii natural energy institute;
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        (14)
              A bioeconomy advocacy organization;
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        (15)
              International airline operator;
20
        (16)
             A fuel refiner;
              Biofuels feedstock producers;
21
        (17)
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2	(19)	A sustainable energy advocacy organization; and
3	(20)	A carbon offset project practitioner.
4	The	task force shall choose a chair from among its
5	membersh	ip.
6	(d)	The task force shall hold at least two public meetings
7	a year.	
8	(e)	The work plan of the task force shall include:
9	(1)	Consultation with state and county agencies
10	(2)	Consultation and best practice sharing with
11		international and national organizations, and other
12		states to identify cost-effective policies and
13		methods;
14	(3)	Harmonization of market-based measures and their
15		supporting technical and quantification methods with
16		ICAO CORSIA, national, and other state peer-reviewed
17		methods, and avoidance of a unique Hawaii method or
18		standard wherever practicable;
19	(4)	Development of measures of effectiveness of varying
20		techniques for greenhouse gas emissions reduction for
21		commercial aviation;

1 (18) Sustainable transportation fuel producers;

1	(5) Framework to evaluate the relative contribution of
2	each method or project, relative to its cost,
3	projected technical maturity between the years 2020
4	and 2050, and contributions toward other
5	sustainability objectives such as skilled job
6	creation, economic development, waste re-use, invasive
7	species removal, and landscape restoration.
8	(f) The task force shall submit an interim report of its
9	findings and recommendations to the legislature no later than
10	forty days prior to the convening of the regular session of
11	2022, and a final report of its findings and recommendations to
12	the legislature no later than forty days prior to the convening
13	of the regular session of 2023.
14	(g) The task force shall cease to exist on June 30, 2023;
15	provided that the Hawaii state energy office may continue the
16	work of the task force without the effect of this Act should the
17	Hawaii state energy office deem necessary.
18	(h) The Hawaii state energy office shall submit a report
19	of its findings and recommendations, and data on clean
20	transportation related to aviation transportation including:

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1	(1)	Jet fuel consumption, imports, and local refining and
2		the greenhouse gas benchmark for jet fuel and other
3		transportation fuels; and
4	(2)	Sustainable aviation fuel and carbon offset projects
5		and investments, infrastructure and financing needs,
6		supply chain development, and other opportunities and
7		challenges to reducing the greenhouse gas impacts from
8		international commercial aviation,
9	to the le	gislature no later than twenty days prior to the
10	convening	of each regular session.
11	SECT	TION 3. This Act shall take effect upon its approval.
12		1 11 1
		INTRODUCED BY: Liea Moster

#### 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.

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