A BILL FOR AN ACT

RELATING TO TRANSPORTATION.

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

1 SECTION 1. The legislature finds that transportation is 2 the State's largest source of lifecycle greenhouse gas emissions 3 and that the tourism industry is the State's largest economic 4 driver and biggest transportation sector consumer. The 5 legislature further finds that better management of waste and 6 resources is critical to environmental stewardship and a clean 7 fuel standard is central to reducing the State's lifecycle 8 greenhouse gas emissions while also protecting the State's 9 economic competitiveness, public health, and the environment. 10 To prompt the use of clean fuels and zero-emission vehicles, 11 other states like California, Oregon, and Washington have 12 successfully implemented programs that reduce the carbon 13 intensity of their transportation fuels.

14 The legislature also finds that without policy specific to 15 the transportation sector, emissions reductions will not be 16 achieved in a timeframe consistent with the State's goals. 17 Therefore, a clean fuel standard that is technology-neutral and

2025-1376 SB1120 SD1 SMA.docx

S.B. NO. ¹¹²⁰ S.D. 1

market-based is an effective policy for reducing emissions in
the transportation sector while also achieving other
co-benefits.

4 The legislature additionally finds that by creating a clean 5 fuel standard that rewards environmental performance, the State will incentivize the creation of jobs in various sectors, 6 7 including construction, agriculture, waste management, landscape restoration, forestry, and transportation. A clean fuel 8 9 standard can create new markets for what is usually considered 10 waste, including but not limited to municipal solid waste; construction and demolition debris; used cooking oil from food 11 12 processing; agricultural and forestry residuals; industrial 13 emissions; invasive species biomass from landscape restoration 14 projects; and renewable electricity. Furthermore, the demand 15 created for alternative fuels and cleaner forms of mobility under a clean fuel standard will not only help reduce greenhouse 16 17 gas emissions but may also have a co-benefit of reducing air 18 pollution, improving the health of citizens of the State.

19 It is the intent of the legislature to support the20 deployment of clean transportation fuel technologies through a

2025-1376 SB1120 SD1 SMA.docx

S.B. NO. ¹¹²⁰ S.D. 1

1	carefully	designed program that reduces the carbon intensity of	
2	fuel used	in the State to:	
3	(1)	Reduce lifecycle greenhouse gas emissions;	
4	(2)	Stimulate the local, state, and regional economies,	
5		thereby providing economic development;	
6	(3)	Promote public and environmental health by increasing	
7		sustainability and encouraging a circular economy and	
8		landscape restoration activities; and	
9	(4)	Support existing jobs in the clean fuel industry and	
10		create new jobs in new innovative clean fuel	
11		technologies.	
12	Therefore, the purpose of this Act is to require the		
13	department of transportation to adopt rules governing a clean		
14	fuel standard for alternative fuels in the State.		
15	SECTION 2. (a) The department of transportation shall		
16	adopt rules pursuant to chapter 91, Hawaii Revised Statutes,		
17	governing a clean fuel standard for alternative fuels in the		
18	State. The rules shall include:		
19	(1)	A schedule to phase-in the implementation of the clean	
20		fuel standard for alternative fuels in a manner that	
21		reduces the average carbon intensity by at least ten	

2025-1376 SB1120 SD1 SMA.docx

S.B. NO. $^{1120}_{S.D. 1}$

1		per cent below 2019 levels by 2035 and at least fifty
2		per cent below 2019 levels by 2045, including the
3		establishment of annual carbon intensity standards for
4		alternative fuels;
5	(2)	An implementation date for the clean fuel standard for
6		diesel and gasoline on or before January 1, 2027;
7	(3)	Standards for measuring lifecycle greenhouse gas
8		emissions using Argonne National Lab's GREET model
9		attributable to the production and use of diesel,
10		gasoline, and other alternative fuels throughout their
11		lifecycles, including feedstock production or
12		extraction, fuel production, and the transportation of
13		raw materials and finished fuels;
14	(4)	A mechanism by which diesel and gasoline that have a
15		carbon intensity below the annual carbon intensity
16		standard are used within the State to generate
17		credits;
18	(5)	A mechanism by which alternative fuel that has a
19		carbon intensity below the annual carbon intensity
20		standard is used within the State to generate credits;

2025-1376 SB1120 SD1 SMA.docx

1	(6)	A mechanism to adjust the carbon intensity of
2		alternative fuel when the alternative fuel is used in
3		a powertrain that is not equal in efficiency to that
4		of the reference fuel and drivetrain combination;
5	(7)	A mechanism by which diesel or gasoline that has a
6		carbon intensity above the annual carbon intensity
7		standard would generate a deficit;
8	(8)	A mechanism by which an alternative fuel that has a
9		carbon intensity above the annual carbon intensity
10		standard would generate a deficit;
11	(9)	A mechanism that requires diesel, gasoline, or other
12		alternative fuel that is exported from the State to
13		retire any associated credit or debit;
14	(10)	Exemptions for diesel, gasoline, or other fuels used
15		by aircraft, railroad locomotives, military vehicles,
16		and interstate waterborne vessels;
17	(11)	Procedures for verifying credits and deficits
18		generated under the clean fuel standard; and
19	(12)	A schedule by which the department of transportation
20		shall review and update the lifecycle greenhouse gas

2025-1376 SB1120 SD1 SMA.docx

S.B. NO. ¹¹²⁰ S.D. 1

modeling every three years based on a review of the 1 best available scientific literature. 2 The department of transportation may adopt rules that 3 (b) 4 include: A cost containment mechanism designed to allow for 5 (1)sufficient compliance flexibility and maximum 6 greenhouse gas reductions; 7 Mechanisms whereby an electric utility or an energy 8 (2) producer can generate credits for electricity for 9 gaseous fuels used in transportation; provided that 10 the department of transportation shall develop these 11 12 mechanisms based on best practices in use in other states and in consultation with industry stakeholders; 13 Mechanisms whereby exempt end-uses, such as aviation, 14 (3) marine, rail, and military, can opt in to the program 15 to generate credits when using alternative fuel; 16 Mechanisms whereby alternative fuel users can opt in 17 (4) to the clean fuel program to generate credits when it 18 displaces the combustion of gasoline or diesel in 19 off-road, heating, cooling, and temporary power 20 21 generation;



S.B. NO. ¹¹²⁰ S.D. 1

A schedule to phase in the implementation of the 1 (5) standards for alternative fuels that have achieved a 2 predominant market share and have an average carbon 3 intensity that exceeds the annual diesel or gasoline 4 carbon intensity standard; 5 A program to support the deployment of infrastructure 6 (6) for the distribution of electricity as a vehicle fuel 7 8 based on a mechanism by which not more than per cent of the annual deficits can be allocated; 9 A program to support the deployment of new 10 (7) technologies and infrastructure for the distribution 11 12 or production of liquid or gaseous alternative fuels 13 based on a mechanism by which not more than per cent of the annual deficits can be allocated; 14 (8) Any standards, specifications, testing requirements, 15 16 and other measures as needed to ensure the quality of gasoline, diesel, and alternative fuels used in 17 accordance with the clean fuel standard; 18 Linking the clean fuel standard to similar policies in 19 (9) other jurisdictions, including but not limited to 20 California, Oregon, and Washington; 21

2025-1376 SB1120 SD1 SMA.docx

S.B. NO. ¹¹²⁰ S.D. 1

(10) A method to utilize the carbon intensity pathways 1 2 already approved in other states like California, Oregon, and Washington to reduce the burden of 3 administering and certifying the carbon intensity of 4 transportation fuels in the clean fuel program; 5 Mechanisms that allow credits to be traded and to be 6 (11)7 banked for future compliance periods; and (12) Exemptions for diesel, gasoline, and alternative fuels 8 9 that are used in volumes below thresholds established 10 by the department of transportation. 11 (c) For the purposes of this section: 12 "Alternative fuel" means any fuel that is not gasoline or diesel and is used for transportation purposes, including but 13 not limited to ethanol, biomass-based diesel, renewable diesel, 14 sustainable aviation fuel, electricity, biomethane, biogasoline, 15 16 renewable natural gas, fuels from carbon capture and utilization, electrofuels, and hydrogen. 17 "Carbon intensity" means that quantity of lifecycle 18 greenhouse gas emissions per unit of fuel energy, expressed in 19

20 grams of carbon dioxide equivalent per megajoule.

2025-1376 SB1120 SD1 SMA.docx

1 "Clean fuel standard" means standards for the reduction of greenhouse gas emissions, on average, per unit of fuel energy. 2 "Greenhouse gas" means carbon dioxide, methane, nitrous 3 oxide, hydrofluorocarbons, perfluorocarbons, sulfur 4 hexafluoride, and any other gas or gases designated by the 5 department of transportation or the Hawaii state energy office 6 7 by rule. SECTION 3. This Act shall take effect on July 1, 2050. 8

9

Page 9



Report Title:

DOT; Clean Fuel Standard; Greenhouse Gases; Alternative Fuels; Rules

Description:

Requires the Department of Transportation to adopt rules governing a clean fuel standard for alternative fuels in the State. Effective 7/1/2050. (SD1)

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

