
A BILL FOR AN ACT

RELATING TO ENERGY.

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

1 SECTION 1. The legislature finds that Hawaii's dependence
2 on imported fossil fuels drains the state economy of billions of
3 dollars each year. The volatility of imported fuel prices
4 creates significant risks for the economy and adds to costs for
5 local families. The legislature further finds that the use of
6 fossil fuel reduces air quality and leads to increased
7 greenhouse gas emissions in the atmosphere. This contributes to
8 climate change, which poses a serious threat to Hawaii's
9 economic well-being, public health, natural resources, and
10 environment. Climate change harms marine ecosystems and causes
11 sea levels to rise, which results in the displacement of coastal
12 residences and businesses. Climate change also poses a serious
13 threat to public health by increasing the incidence of
14 infectious diseases, asthma, and other health-related problems.

15 The legislature notes that on a per-mile basis, it is
16 significantly less expensive to commute in an electric vehicle
17 than it is to commute in a gas-powered automobile. Residents



1 can lower their cost of living by relying on local renewable
2 energy for transportation and transitioning to less-expensive
3 renewable vehicles and transportation systems. The legislature
4 further finds that autonomous electric vehicles already
5 operating on public roads in cities around the country signal an
6 approaching revolution in transportation that has the potential
7 to dramatically reduce costs for consumers and change the way
8 people commute. However, in order for local consumers and
9 families to benefit from these changes and properly transition
10 away from expensive fossil fuel vehicles, Hawaii must be
11 prepared with critical infrastructure elements, such as electric
12 vehicle charging stations.

13 The purpose of this Act is to, among other things, begin
14 the transition to one hundred per cent clean ground
15 transportation in Hawaii by:

- 16 (1) Establishing clean ground transportation benchmark
17 framework, including a near term 2025 target
18 supporting Hawaii's goal for the reduction and
19 ultimate elimination of the use of imported fuels for
20 ground transportation by 2045; and



1 (2) Directing the department of transportation to
2 collaborate with the state energy office to identify a
3 plan and develop recommendations to support the
4 achievement of benchmarks leading to the ultimate
5 elimination of imported fuels for ground
6 transportation.

7 SECTION 2. Chapter 196, Hawaii Revised Statutes, is
8 amended by adding a new section to part I to be appropriately
9 designated and to read as follows:

10 "§196- Hawaii clean ground transportation initiative.

11 (a) The department of transportation, in collaboration with the
12 state energy office of the department of business, economic
13 development, and tourism, shall:

14 (1) Identify a plan to establish a goal for the reduction
15 and ultimate elimination of the use of fossil fuels
16 for ground transportation by 2045 and to make progress
17 toward the one hundred per cent clean ground
18 transportation goals identified in section
19 196-10.5(a)(8);



1 (2) Develop recommendations regarding the additional steps
2 necessary to help achieve the goals of this section;
3 and

4 (3) Convene stakeholders in a clean ground transportation
5 forum to solicit and incorporate input on the
6 department of transportation's clean ground
7 transportation activities to help achieve the goals of
8 this section.

9 (b) In its annual report submitted to the legislature
10 pursuant to part II of Act 100, Session Laws of Hawaii 1999, the
11 department of transportation shall include recommendations as
12 developed pursuant to this section.

13 (c) For purposes of this section, "clean ground
14 transportation" means ground transportation that avoids fossil
15 fuel consumption.

16 (d) The clean ground transportation forum established by
17 the department of transportation in this section shall not be
18 subject to chapter 92."

19 SECTION 3. Section 196-10.5, Hawaii Revised Statutes, is
20 amended by amending subsection (a) to read as follows:



1 "(a) There is established within the department of
2 business, economic development, and tourism, a Hawaii clean
3 energy initiative program to manage the State's transition to a
4 clean energy economy. The clean energy program shall design,
5 implement, and administer activities that include:

6 (1) Strategic partnerships for the research, development,
7 testing, deployment, and permitting of clean and
8 renewable technologies;

9 (2) Engineering and economic evaluations of Hawaii's
10 potential for near-term project opportunities for the
11 State's renewable energy resources;

12 (3) Electric grid reliability and security projects that
13 will enable the integration of a substantial increase
14 of electricity from renewable-energy resources;

15 (4) A statewide clean energy public education and outreach
16 plan to be developed in coordination with Hawaii's
17 institutions of public education;

18 (5) Promotion of Hawaii's clean and renewable resources to
19 potential partners and investors;



- 1 (6) A plan, to be implemented from 2011 to [~~2030,~~] 2045,
2 to transition the State to a clean energy economy;
3 [~~and~~]
- 4 (7) A plan, to be implemented from 2011 to [~~2030,~~] 2045,
5 to assist each county in transitioning to a clean
6 energy economy[~~-~~]; and
- 7 (8) A plan, to be implemented between 2017 and 2025 to
8 achieve a reduction of five per cent in fossil fuel
9 consumption for ground transportation relative to 2016
10 levels and shall include metrics to measure and
11 evaluate progress towards the target fossil fuel
12 reductions in ground transportation, to be established
13 by the state energy office; provided that two years
14 prior to the completion of the plan and every five
15 years thereafter, a report shall be submitted to the
16 legislature that includes:
- 17 (A) Progress towards the established target
18 benchmarks;
- 19 (B) Proposals for legislative actions to support the
20 achievement of the next fossil fuel reduction in
21 transportation benchmark; and



1 (C) A new target benchmark for the reduction of
2 fossil fuel consumption in ground transportation
3 for five years from the previous target.

4 (9) A plan, to be implemented between 2017 and 2025 to
5 achieve the deployment of electric vehicle charging
6 infrastructure to support the widespread adoption of
7 electric vehicles that shall include a target
8 benchmark of one electric vehicle charging station for
9 every five electric vehicles deployed pursuant to this
10 section or one electric vehicle charging station per
11 every thirty miles."

12 SECTION 4. Section 226-17, Hawaii Revised Statutes, is
13 amended by amending subsection (a) to read as follows:

14 "(a) Planning for the State's facility systems with regard
15 to transportation shall be directed towards the achievement of
16 the following objectives:

17 (1) An integrated multi-modal transportation system that
18 services statewide needs and promotes the efficient,
19 economical, safe, and convenient movement of people
20 and goods [-];



1 (2) A statewide transportation system that is consistent
2 with and will accommodate planned growth objectives
3 throughout the State[-]; and

4 (3) Increased energy security and self-sufficiency through
5 the reduction and ultimate elimination of imported
6 fuel consumption for ground transportation, in
7 accordance with the goal of reducing and ultimately
8 eliminating the use of fossil fuels for ground
9 transportation by 2045 and the benchmarks established
10 pursuant to section 196-10.5(a)(8)."

11 SECTION 5. Section 226-18, Hawaii Revised Statutes, is
12 amended by amending subsection (a) to read as follows:

13 "(a) Planning for the State's facility systems with regard
14 to energy shall be directed toward the achievement of the
15 following objectives, giving due consideration to all:

16 (1) Dependable, efficient, and economical statewide energy
17 systems capable of supporting the needs of the people;

18 (2) Increased energy security and self-sufficiency through
19 the reduction and ultimate elimination of Hawaii's
20 dependence on imported fuels for electrical generation
21 [~~and ground transportation~~] in accordance with the



1 goal of reducing and ultimately eliminating the use of
2 fossil fuels for ground transportation by 2045 and the
3 benchmarks established pursuant to section
4 196-10.5(a)(8);

5 (3) Greater diversification of energy generation in the
6 face of threats to Hawaii's energy supplies and
7 systems;

8 (4) Reduction, avoidance, or sequestration of greenhouse
9 gas emissions from energy supply and use; and

10 (5) Utility models that make the social and financial
11 interests of Hawaii's utility customers a priority."

12 SECTION 6. Act 168, Session Laws of Hawaii 2012, is
13 amended by amending subsection (d) of section 2 to read as
14 follows:

15 "(d) For the purposes of this Act:

16 "Electric vehicle" means:

17 (1) A neighborhood electric vehicle; [ø]

18 (2) A vehicle, with four or more wheels, that draws
19 propulsion energy from a battery with at least four
20 kilowatt hours of energy storage capacity that can be



1 recharged from an external source of electricity[-]i

2 or

3 (3) A fuel cell electric vehicle.

4 "Fuel cell electric vehicle" means a zero-emission electric
5 vehicle that uses a fuel cell to convert hydrogen gas and oxygen
6 into electricity that is used in a vehicle powertrain for
7 propulsion."

8 SECTION 7. Statutory material to be repealed is bracketed
9 and stricken. New statutory material is underscored.

10 SECTION 8. This Act shall take effect on July 1, 2030;
11 provided that section 2 shall be repealed on January 31, 2046.

12



Report Title:

Department of Transportation; Renewable Energy; Working Group

Description:

Establishes a clean ground transportation benchmark framework to maximize consumer fuel savings, including a near term 2025 target encouraging electric vehicle infrastructure buildout supporting Hawaii's goal for the reduction and ultimate elimination of the use of imported fuels for ground transportation by 2045. Extends the end date of the implementation plan to transition to a clean energy economy from 2030 to 2045. Directs the department of transportation to collaborate with the state energy office to develop recommendations to achieve those benchmarks. Requires development of a plan to install electric vehicle charging station. Amends the definition of electric vehicle to include fuel cell electric vehicles. Effective 7/1/2030. (SD1)

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