

MAR 07 2025

SENATE CONCURRENT RESOLUTION

REQUESTING THE OFFICE OF PLANNING AND SUSTAINABLE DEVELOPMENT TO COMMISSION A STUDY OF THE DIFFERENT ENERGY CONSUMPTION SECTORS TO DETERMINE WHICH SECTOR CAN BE MOST QUICKLY AND COST-EFFECTIVELY DECARBONIZED THROUGH ADDITIONAL PUBLIC INVESTMENT IN COMBUSTION-FREE ALTERNATIVES.

1 WHEREAS, it is important to use Hawaii taxpayer funds
2 wisely to create the most benefit for the State without
3 speculative investments, unnecessary subsidies, or promotion of
4 energy technologies or fuels that conflict with the State's
5 climate change goals or the peoples' constitutional right to a
6 clean and healthful environment under article XI, section 9 of
7 the Hawaii State Constitution; and

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9 WHEREAS, the settlement to *Navahine F. v. Hawaii Department*
10 *of Transportation*, Civ. No. 1CCV-22-0000631 requires that the
11 State establish a Greenhouse Gas Reduction Plan that can achieve
12 a goal of zero greenhouse gas emissions across all
13 transportation modes within the State, including ground
14 transportation and sea and air interisland transportation no
15 later than 2045; and

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17 WHEREAS, combustion of hydrocarbons of any sort, even if
18 derived from biomass or waste, releases greenhouse gases and
19 cannot be considered zero emissions; and

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21 WHEREAS, the goal of the Greenhouse Gas Reduction Plan can
22 only be accomplished by electrifying all transportation modes
23 and by ensuring that the State's electric grid is also zero
24 greenhouse gas emissions (i.e. combustion-free); and

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26 WHEREAS, there are three sectors of energy use as tracked
27 by the United States Energy Information Administration:
28 electricity, transportation, and heating, with heating further
29 broken down into industrial, commercial, and residential
30 sectors; and



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2 WHEREAS, technology exists today to fully meet the needs of
3 the electricity sector using conservation, energy efficient
4 appliances, and solar, wind, and energy storage, which can be
5 made as firm as needed through decentralization and adequate
6 storage capacity; and

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8 WHEREAS, residential and commercial cooking, and space and
9 water heating needs are easily electrified with existing
10 technology, such as ground- and air-source heat pumps and hybrid
11 electric water heaters; and

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13 WHEREAS, it is possible to fully electrify land-based
14 transportation, including heavy trucking, so that trucks and
15 other land-based transportation modes can be powered by clean,
16 non-burn, electricity sources; and

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18 WHEREAS, it is possible to fully electrify ocean-based
19 transportation, including international cargo ships, with
20 batteries and even stationary wind masts; and

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22 WHEREAS, inter-island air-travel can be accomplished with
23 electric sea gliders, as Hawaiian Airlines is already exploring;
24 and

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26 WHEREAS, inter-continental air travel remains the one
27 sector that is hardest to convert to clean energy, though Airbus
28 aims to bring to market the world's first hydrogen-powered
29 commercial aircraft by 2035; and

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31 WHEREAS, combustible carbon-based fuels release greenhouse
32 gases as well as other harmful air pollutants, and the
33 production of burnable fuels has many other environmental
34 implications, including the use of precious land for fuel
35 instead of food, depletion of water and soils, spread of
36 genetically modified organisms, and, if using waste streams to
37 make fuel, release of toxic chemicals and solid waste
38 byproducts; and

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40 WHEREAS, hydrogen energy production and use contains many
41 of the same production problems unless green hydrogen is
42 produced through the electrolysis of water using wind and solar



1 power; however, the energy losses in converting water to green
2 hydrogen are so significant that it makes no sense to use clean
3 energy to produce green hydrogen until the electric grid is
4 running almost entirely on clean energy and there is excess of
5 wind and solar energy to spare, which can be stored as green
6 hydrogen when not needed directly; and
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8 WHEREAS, Hawaii's renewable portfolio standard law requires
9 electric utilities in the State to provide one hundred percent
10 renewable energy by 2045, and the State was close to reaching a
11 renewable portfolio standard of thirty-five percent in 2023; and
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13 WHEREAS, technologies that turn waste into fuels are highly
14 speculative, controversial, and polluting, and typically fail to
15 operate at a commercial scale, usually falling apart
16 technically, economically, or both; and
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18 WHEREAS, when all carbon releases are properly accounted
19 for, the climate impacts of biomass and waste-based biofuels are
20 close to, or greater than the climate impacts of the petroleum
21 products they would replace; and
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23 WHEREAS, investing in infrastructure intended to transition
24 to cleaner options in later years is an investment dead end that
25 makes it more difficult politically and economically to progress
26 into replacing combustion-based fuels that are currently
27 marketed as clean or sustainable fuels; and
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29 WHEREAS, it is wise to allocate limited public funding
30 first on existing, clean, combustion-free solutions, focusing on
31 energy sectors where those solutions are not yet fully
32 implemented; now, therefore,
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34 BE IT RESOLVED by the Senate of the Thirty-third
35 Legislature of the State of Hawaii, Regular Session of 2025, the
36 House of Representatives concurring, that the Office of Planning
37 and Sustainable Development is requested to commission a study
38 of the different energy consumption sectors to determine which
39 sector can be most quickly and cost-effectively decarbonized
40 through additional public investment in combustion-free
41 alternatives; and
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1 BE IT FURTHER RESOLVED that certified copies of this
2 Concurrent Resolution be transmitted to the Governor and
3 Director of the Office of Planning and Sustainable Development.
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OFFERED BY:



