JAN 2 0 2023

### A BILL FOR AN ACT

RELATING TO RENEWABLE ENERGY.

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

- 1 SECTION 1. The legislature finds that the rate and
- 2 intensity of climate change is greater than predicted.
- 3 According to remarks made by the Intergovernmental Panel on
- 4 Climate Change in 2019, less than a decade remains to stop
- 5 irreversible damage and avert catastrophe from climate change.
- 6 The legislature further finds that climate change is
- 7 primarily caused by excessive greenhouse gasses in the
- 8 atmosphere. The most prevalent greenhouse gas is carbon
- 9 dioxide, which is emitted when trash, trees, coal, oil, or gas
- 10 are burned. According to the National Aeronautics and Space
- 11 Administration, once carbon dioxide is emitted, it stays in the
- 12 atmosphere for three hundred to one thousand years. Steps taken
- 13 now to reduce the emission of carbon dioxide will affect the
- 14 livability of the planet for generations.
- 15 The legislature further finds that twenty years ago, the
- 16 legislature established the State's renewable portfolio
- 17 standards model to ensure that the State's electric utility



- 1 companies transition from using fossil fuels to renewable
- 2 energy. At the time, biomass was considered a carbon neutral
- 3 energy source. However, recent data show that not to be true.
- 4 The legislature further finds that much of the biomass used
- 5 to generate electricity is wood in the form of trees or products
- 6 made from trees. Trees sequester carbon dioxide, and the
- 7 burning of trees and tree products releases carbon dioxide that
- 8 would have otherwise been sequestered. Regrowing trees takes
- 9 decades, and for this extended period, carbon dioxide that was
- 10 released stays in the atmosphere.
- 11 The legislature further finds that burning wood emits fifty
- 12 per cent more carbon on a per-unit-of-energy basis than burning
- 13 coal. Despite claims of sustainability, the biomass energy
- 14 industry is clearcutting forests that would otherwise be
- 15 extracting carbon dioxide from the atmosphere. The United
- 16 States is one of the largest suppliers of the twenty-two million
- 17 tons of wood pellets consumed by the European Union each year.
- 18 Communities in Virginia, Mississippi, and North Carolina are
- 19 battling to protect forests from being fuel farms for European
- 20 biomass burners.

1 The legislature further finds that there is presently no 2 requirement that forests cut down for biomass energy will be allowed to regrow instead of being cut again and again, or that 3 4 the land will not be developed for other uses. In short, there 5 is no guarantee that new forests will be allowed to grow large 6 enough to sequester as much carbon as the older, complex, 7 carbon-rich forests that were cut. 8 The legislature further finds that the biomass industry has 9 doubled in the last decade and is expected to expand by two 10 hundred fifty per cent in the next ten years. This expansion 11 would be a disaster for ecosystems upon which humans and animals 12 depend, and it is grossly inconsistent with the goals of the 13 Paris Climate Agreement. 14 The legislature further finds that intact forests are a 15 vital part of the climate solution because they sequester carbon 16 dioxide from the atmosphere and provide long term natural 17 storage. Instead of cutting this valuable natural resource, 18 forests should be protected and allowed to sequester carbon, be 19 a habitat for wildlife, and provide space for recreation, clean 20 air, and water.

1 The legislature further finds that waste incineration is 2 the most expensive and polluting way to manage waste or make 3 energy. For the same energy output, trash incineration produces 4 seventy per cent more pollution than burning coal. Compared to landfilling, trash burning releases twice as much carbon 5 6 pollution and is far more polluting generally. Subsidizing the 7 burning of waste and labeling it as renewable energy puts source 8 reduction, reuse, recycling, and composting at a competitive 9 disadvantage, and further encourages biomass burners to switch 10 to burning waste, which they can be paid to take. The legislature further finds that, pursuant to section 11 12 225P-5, Hawaii Revised Statutes, the State has established a 13 statewide target to sequester more atmospheric carbon and 14 greenhouse gasses than emitted within the State as quickly as 15 practicable, but no later than 2045. In order to meet this 16 target, utilities in the State should be required to meet their 17 renewable portfolio standards obligations using only clean 18 renewable energy sources, and excluding biomass and waste 19 incineration.

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         Accordingly, the purpose of this Act is to remove biomass
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    from the renewable portfolio standards definition of renewable
 3
    energy.
         SECTION 2. Section 269-91, Hawaii Revised Statutes, is
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    amended by amending the definition of "renewable energy" to read
5
6
    as follows:
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         ""Renewable energy" means energy generated or produced
    using the following sources:
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9
         (1)
              Wind;
10
              The sun;
         (2)
11
         (3)
              Falling water;
12
         (4)
              Biogas, including landfill and sewage-based digester
13
              gas;
14
         (5) Geothermal;
15
         (6)
              Ocean water, currents, and waves, including ocean
16
              thermal energy conversion;
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        [(7) Biomass, including biomass crops, agricultural and
18
              animal residues and wastes, and municipal solid waste
19
              and other solid waste;
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         (8)] (7) Biofuels; and
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        [<del>(9)</del>] (8) Hydrogen produced from renewable energy sources."
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- 1 SECTION 3. Statutory material to be repealed is bracketed
- 2 and stricken. New statutory material is underscored.
- 3 SECTION 4. This Act shall take effect upon its approval.

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INTRODUCED BY: Mile Steffer Q

#### Report Title:

Renewable Portfolio Standards; Renewable Energy; Definition; Biomass

#### Description:

Removes biomass from the renewable portfolio standard definition of renewable energy.

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