
SENATE RESOLUTION

REQUESTING THE DEPARTMENT OF HEALTH TO CONDUCT A FEASIBILITY
STUDY ON THE IMPLEMENTATION OF CONTINUOUS MONITORING AND
SAMPLING TECHNOLOGIES IN WASTE COMBUSTION FACILITIES AND
MUNICIPAL SOLID WASTE LANDFILLS.

1 WHEREAS, waste combustion facilities are among the largest
2 sources of industrial air pollution; and

3
4 WHEREAS, in many cases, the current technology used to
5 monitor pollutants in the State is obsolete and fails to produce
6 accurate data on the types and amounts of pollutants emitted;
7 and

8
9 WHEREAS, at waste combustion facilities in the State, only
10 four air pollutants are typically monitored on a continuous
11 basis, while others, if tested at all, are tested only once per
12 year under optimal operating conditions; and

13
14 WHEREAS, this lack of continuous monitoring and sampling
15 means that pollutants are not being monitored during startup,
16 shutdown, and malfunction conditions, when certain pollutants
17 are known to be released in higher amounts; and

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19 WHEREAS, dioxins are one of the most toxic man-made
20 chemicals known to science; and

21
22 WHEREAS, the failure to deploy continuous sampling
23 technology in the United States results in underestimating
24 dioxin emissions by 460 to 1,290 times; and

25
26 WHEREAS, continuous monitoring and sampling technologies
27 must be implemented at waste combustion facilities and solid
28 waste landfills to ensure that owners or operators frequently
29 monitor, sample, and report the emissions of contaminants,
30 including at times when higher levels of pollutants may be
31 released; now, therefore,
32



1 BE IT RESOLVED by the Senate of the Thirty-second
 2 Legislature of the State of Hawaii, Regular Session of 2024,
 3 that the Department of Health (Department) is requested to study
 4 the feasibility of requiring waste combustion facilities and
 5 municipal solid waste landfills to implement continuous
 6 monitoring and sampling technologies that have been tested and
 7 verified by the United States Environmental Protection Agency;
 8 and
 9

10 BE IT FURTHER RESOLVED that the study is requested to
 11 consider the feasibility of requiring:
 12

- 13 (1) The owner or operator of any waste combustion facility
 14 to develop plans to continuously monitor or sample
 15 emissions of the following contaminants:
 16
 - 17 (A) Carbon dioxide;
 - 18
 - 19 (B) Carbon monoxide;
 - 20
 - 21 (C) Sulfur dioxide;
 - 22
 - 23 (D) Nitrogen oxides;
 - 24
 - 25 (E) Ammonia;
 - 26
 - 27 (F) Hydrochloric acid;
 - 28
 - 29 (G) Hydrofluoric acid;
 - 30
 - 31 (H) Particulate matter (total, PM10, and PM2.5);
 - 32
 - 33 (I) Volatile organic compounds (VOCs);
 - 34
 - 35 (J) Polycyclic aromatic hydrocarbons (PAHs);
 - 36
 - 37 (K) Dioxins or furans;
 - 38
 - 39 (L) Polychlorinated biphenyls (PCBs);
 - 40
 - 41 (M) Per- and polyfluoroalkyl substances (PFAS);
 - 42



- 1 (N) Arsenic;
- 2
- 3 (O) Beryllium;
- 4
- 5 (P) Cadmium;
- 6
- 7 (Q) Hexavalent chromium;
- 8
- 9 (R) Lead;
- 10
- 11 (S) Manganese;
- 12
- 13 (T) Mercury;
- 14
- 15 (U) Nickel;
- 16
- 17 (V) Selenium; and
- 18
- 19 (W) Zinc;
- 20

21 (2) The owner or operator of any municipal solid waste
 22 landfill to develop a plan to continuously monitor or
 23 sample emissions of a separate list of contaminants
 24 that the Department establishes; and

25
 26 (3) The Department to host an emissions data disclosure
 27 website to collect emissions data and alert owners or
 28 operators, the Department, and any other parties who
 29 enroll to be notified of any violations of data
 30 availability requirements or exceedances of air
 31 pollution limitations; and

32
 33 BE IT FURTHER RESOLVED that the Department is requested to
 34 submit a report of its findings and recommendations, including
 35 any proposed legislation, to the Legislature no later than
 36 twenty days prior to the convening of the Regular Session of
 37 2025; and

38
 39 BE IT FURTHER RESOLVED that the Department is requested to
 40 seek funding from users of waste facilities to fund the
 41 development of the emissions data disclosure website; and

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- 1 BE IT FURTHER RESOLVED that a certified copy of this
- 2 Resolution be transmitted to the Director of Health.

