
HOUSE RESOLUTION

REQUESTING THE DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES AND
THE DEPARTMENT OF TRANSPORTATION TO EXPLORE THE FEASIBILITY
OF USING THE CLEANCEM PROCESS IN STATE PROCEDURES AND
PROJECTS.

1 WHEREAS, the State of Hawaii supports innovation that
2 contributes to a safer environment and recognized that the
3 preservation of national resources is beneficial to the local
4 community and economy; and
5

6 WHEREAS, trends toward more sustainable construction
7 materials are intensifying and are now a \$30 billion dollar
8 market in the nation alone, growing at a 5-year compound annual
9 growth rate of 45%, and
10

11 WHEREAS, close to 10% of all commercial projects are
12 expected to be made with sustainable construction materials in
13 2010, with cement substitution playing an important role in
14 green construction, as cement production is ranked as the 4th
15 most polluting industry by carbon dioxide emissions, with every
16 ton of cement that is manufactured, close to 0.85 tons of carbon
17 dioxide are released in the atmosphere; and
18

19 WHEREAS, coal fired power plants have emerged as a major
20 cause in the debate about global warming and carbon footprint,
21 but also, along with other ash generating industries, for the
22 large quantities of ash derived from the burning of coal; and
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24 WHEREAS, the total quantity of ash generated in the
25 production of electricity has grown steadily over the last
26 decades, with, in 2007, over 50 million tons of fly ash, bottom
27 ash and boiler slag were deposited in landfills in the US, with
28 an estimated total disposal cost in excess of \$1 billion, and
29 close to 60% of total ash generated are still land filled today;
30 and
31



1 WHEREAS, Ash Improvement Technology (AIT) was created in
2 2008 as a response to the trends of more adequate regulation to
3 protect our environment, and for the growing need for "green"
4 materials in the construction industry and has developed the
5 CLEANCEM process, an efficient and cost effective way to convert
6 ash that would otherwise be land filled into a sustainable
7 building material used as a cement substitute; and
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9 WHEREAS, by virtue of substituting cement, each ton of
10 CLEANCEM avoids not only the disposal and storage of coal ash,
11 but also carbon dioxide emissions, as the manufacturing of
12 cement releases on average 0.85 tons of carbon dioxide per ton
13 of cement produced; and
14

15 WHEREAS, the benefits of using the CLEANCEM process
16 include:

- 17 1) the avoidance of placing potential hazardous materials
- 18 in landfills
- 19 2) a net revenue generator
- 20 3) a way to trap heavy metals when used in concrete
- 21 4) a process to enhance pollution control of sulfur oxide
- 22 5) a substantial decrease of carbon dioxide emissions; and
23

24 WHEREAS, by "going green" we reduce the carbon footprint of
25 built structures and this is a key objective of sustainable
26 building standards; now, therefore
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28 BE IT RESOLVED by the House of Representatives of the
29 Twenty-fifth Legislature of the State of Hawaii, Regular Session
30 of 2010, that the Department of Accounting and General Services
31 and the Department of Transportation research the feasibility of
32 using the CLEANCEM process in procedures and projects; and
33

34 BE IT FURTHER RESOLVED that certified copies of this
35 Resolution be transmitted to the Governor, the Director of the
36 Department of Accounting and General Services, the Director of
37 the Department of Transportation, the Department of
38 Transportation Services, the Hawaii Public Housing Authority,
39 the Department of Business, Economic Development, and Tourism's
40 Strategic Industries Division, the Mayor of the City and County



1 of Honolulu, the Mayor of the County of Hawaii, the Mayor of the
2 County of Maui, and the Mayor of the County of Kauai.

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OFFERED BY:

Prince W. L. Cling

~~*[Signature]*~~

Tom Brown

Wynn Snow

[Signature]

[Signature]

[Signature]

Samuel Marmont

John R. [Signature]

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Michael J. Mayrow

MAR 10 2010

