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## A BILL FOR AN ACT

RELATING TO CLIMATE CHANGE MITIGATION.

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

1           SECTION 1. The legislature finds that cement is the  
2 primary binding component of conventional concrete products and  
3 accounts for approximately seven per cent of all annual global  
4 carbon emission. The legislature also finds that lower carbon  
5 concrete technologies exist to make concrete stronger and reduce  
6 the volume of materials required. Further, the highways  
7 division of the department of transportation has adopted these  
8 technologies to achieve a cost-neutral reduction in carbon  
9 emitted by all state highway projects. The legislature  
10 acknowledges that the State also uses a large amount of concrete  
11 in other public works projects. The legislature believes that  
12 adopting a similar strategy to the highways division will  
13 provide an opportunity to help the State to achieve its goal of  
14 becoming carbon neutral by 2045 at no additional cost.

15           The legislature notes that other jurisdictions, including  
16 Colorado; New York; Portland, Oregon; Marin County, California;  
17 and Langford, British Columbia, have established, or are in the



1 process of establishing, standards for low-carbon concrete.  
2 Additionally, in 2019, the city and county of Honolulu adopted a  
3 resolution that "requests the city administration to consider  
4 using carbon dioxide mineralization concrete for all future city  
5 infrastructure projects utilizing concrete."

6 The department of transportation has detailed engineering  
7 standard specifications that have been applied successfully in  
8 highway projects with materials supplied by local concrete  
9 businesses on Oahu. The legislature believes that these same  
10 standards should be adopted for public works projects. The  
11 legislature notes that the standards provide that "[p]rojects on  
12 Oahu will utilize CO<sub>2</sub> Mineralization technology or equivalent.  
13 Supplementary cementitious materials . . . , CSH-SEA or  
14 equivalent or combination thereof the previously mentioned  
15 methods may also be used. Concrete design shall allow a  
16 reduction of portland cement content while maintaining the  
17 concrete design strength, durability and other requirements."

18 Accordingly, the purpose of this Act is to require that all  
19 public works construction projects conform to certain carbon  
20 concrete standards.



# H.B. NO. 2423

1 SECTION 2. Chapter 103, Hawaii Revised Statutes, is  
 2 amended by adding a new section to part II to be appropriately  
 3 designated and to read as follows:

4 "§103- Carbon concrete standards. Each public works  
 5 project shall conform to the applicable carbon concrete  
 6 standards contained in division 600 of the highways division of  
 7 the department of transportation's special provisions for  
 8 standard specifications dated July 10, 2020."

9 SECTION 3. New statutory material is underscored.

10 SECTION 4. This Act shall take effect upon its approval.

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INTRODUCED BY: *Lisa Matos*  
 JAN 26 2022



# H.B. NO. 2423

**Report Title:**

Construction; Public Work Projects; Carbon Concrete Standards

**Description:**

Requires all public works construction projects to conform to certain carbon concrete standards.

*The summary description of legislation appearing on this page is for informational purposes only and is not legislation or evidence of legislative intent.*

