

JAN 20 2023

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# A BILL FOR AN ACT

RELATING TO AN ATMOSPHERIC CARBON CAPTURE PLANT.

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

1           SECTION 1. The legislature finds that the threat posed by  
2 climate change is of serious concern to the State and the world.  
3 Proactive measures are needed to combat rising record  
4 temperatures and more frequent incidences of extreme weather.  
5 According to the Emissions Database for Global Atmospheric  
6 Research, more than thirty billion tons of carbon dioxide has  
7 been released into the atmosphere every year since 2005. While  
8 the State has set the goal to reach one hundred per cent  
9 renewable energy use by 2045, the State must take additional  
10 climate action beyond the adoption of renewable energy.

11           The legislature further finds that, in addition to reducing  
12 carbon emissions through the use of renewable energy, the State  
13 must utilize carbon offsetting strategies and technologies.  
14 According to the Intergovernmental Panel on Climate Change,  
15 limiting global warming to 1.5 degrees Celsius will be  
16 impossible without the use of carbon capture technologies.  
17 Currently, the most common method of carbon offsetting is the



1 planting of trees. Alternatively, carbon capture plants require  
2 substantially less land to remove an equivalent amount of carbon  
3 dioxide. Advances in technology now allow for carbon to be  
4 scrubbed from the atmosphere with a combination of high-powered  
5 fans and filters and to be stored underground. In 2021, a  
6 carbon capture plant using that technology began operation in  
7 Iceland, removing four thousand tons of carbon dioxide from the  
8 atmosphere each year. Another Icelandic plant is being built  
9 that will capture thirty-six thousand tons, and the state of  
10 Wyoming is preparing for the world's largest direct air carbon  
11 capture plant to begin operation in 2023, which is projected to  
12 remove five million tons of atmospheric carbon dioxide annually.  
13 Future advances in carbon capture technology will likely expand  
14 those capabilities significantly. The legislature also finds  
15 that the U.S. Department of Energy has announced funding for  
16 carbon capture technologies, and this Act may assist the State  
17 in obtaining federal funds.

18 The purpose of this Act is to direct the Hawai'i state  
19 energy office in conjunction with the Hawai'i natural energy  
20 institute to develop and submit a strategy interim report and  
21 final report no later than forty days prior to the convening of



1 the regular sessions of 2024 and 2025, respectively, for the  
2 construction of at least one atmospheric carbon capture plant in  
3 the State by 2028.

4 SECTION 2. The Hawai'i state energy office, in conjunction  
5 with the Hawai'i natural energy institute, shall develop a  
6 strategy for the construction of an atmospheric carbon capture  
7 plant in the State to be constructed by 2030. The strategy  
8 shall detail the type of construction, proposed location,  
9 estimated costs, staffing requirements, and estimated annual  
10 carbon dioxide capture rate of potential atmospheric carbon  
11 capture plants.

12 SECTION 3. The Hawai'i state energy office shall submit:

13 (1) An interim report of its progress on developing a  
14 strategy for the construction of an atmospheric carbon  
15 capture plant in the State by 2028 to the legislature  
16 no later than forty days prior to the convening of the  
17 regular session of 2024; and

18 (2) Its final report regarding the recommended strategy  
19 for the construction of at least one atmospheric  
20 carbon capture plant in the State by 2028, including  
21 any proposed legislation, to the legislature no later





# S.B. NO. 1002

**Report Title:**

Hawaii State Energy Office; Hawaii Natural Energy Institute;  
Atmospheric Carbon Capture Plant

**Description:**

Directs the Hawaii State Energy Office, in conjunction with the Hawaii Natural Energy Institute, to develop and submit a strategy to the Legislature by 2025 for the construction of at least one atmospheric carbon capture plant in the State by 2030.

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