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## HOUSE CONCURRENT RESOLUTION

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URGING THE COUNTIES TO IMPLEMENT THE RECOMMENDATIONS SET FORTH  
IN THE JUNE 2016 HAWAII ENERGY CODES COMPLIANCE STUDY.

1 WHEREAS, in the United States, buildings account for nearly  
2 forty percent of national carbon dioxide emissions, more than  
3 any other sector and larger than even the industrial and  
4 transportation sectors; and  
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6 WHEREAS, the State Building Code Council and the individual  
7 counties are tasked with implementing and enforcing building  
8 energy code standards to ensure that Hawaii's buildings are  
9 energy efficient and environmentally friendly; and  
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11 WHEREAS, Hawaii Energy commissioned a study to identify the  
12 parts of the building energy code that are subject to compliance  
13 issues, and whether there are corresponding savings  
14 opportunities available from improving compliance rates; and  
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16 WHEREAS, the Hawaii Energy Codes Compliance Study, Version  
17 Three, published in June 2016, reviewed the extent to which  
18 nonresidential and high-rise residential buildings in the County  
19 of Hawaii, County of Maui, and City and County of Honolulu  
20 comply with the building energy code; and  
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22 WHEREAS, a sample of recently permitted projects were  
23 selected in each of the reviewed counties: ten in Hawaii; ten in  
24 Maui; and twenty in Honolulu; and  
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26 WHEREAS, the projects were selected to provide a mix of  
27 large and small projects and new construction and renovation  
28 projects; and  
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30 WHEREAS, the review of each project covered the buildings'  
31 interior lighting; exterior lighting envelope; heating



1 ventilation, and air conditioning; and water heating systems;  
2 and

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4 WHEREAS, the study estimated the total energy impact of  
5 non-compliance with the building energy code to exceed seven  
6 percent, and in some categories, such as interior lighting, the  
7 study reported thirty-five percent non-compliance; and

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9 WHEREAS, when the total non-compliance impacts are applied  
10 to construction forecasts, the total loss of energy savings was  
11 estimated to be roughly 4.9 million kilowatt-hours per year,  
12 which equates to over \$1,600,000; and

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14 WHEREAS, older buildings also lag far behind current  
15 standards, and even new, efficient buildings may miss energy  
16 savings goals without regular monitoring and care; and

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18 WHEREAS, Hawaii should also consider incentivizing up-to-  
19 code improvements to realize efficiency gains throughout the  
20 current building stock; and

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22 WHEREAS, in summary, the Hawaii Energy Codes Compliance  
23 Study recommended that the counties:

- 24  
25 (1) Develop simple guidelines that show the performance  
26 information that a designer must include on the plans  
27 submitted for permit approval, as this information is  
28 often missing from the plans despite being required by  
29 the building energy code;  
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31 (2) Require that designers indicate the code that they are  
32 using for their design and also indicate the  
33 compliance path that is applied;  
34  
35 (3) Improve awareness of county building energy code  
36 amendments;  
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38 (4) Develop simple compliance guidance and incentive  
39 programs for small retail projects, especially  
40 focusing on lighting power compliance;  
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1 (5) Develop guidance for improving window compliance for  
2 projects in general;

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4 (6) Develop guidance for mechanical system commissioning;

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6 (7) Develop guidance on envelope requirements for  
7 unconditioned buildings; and

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9 (8) Prepare guidance information to support compliance  
10 with the 2015 International Energy Conservation Code;  
11 and

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13 WHEREAS, building energy codes are updated as technology  
14 advances, and recent exponential advancements in technology make  
15 it difficult for building designers to stay up-to-date with the  
16 latest requirements and trends; and

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18 WHEREAS, the recommendations set forth in the Hawaii Energy  
19 Codes Compliance Study focus heavily on keeping designers  
20 abreast of the most current energy code requirements, which in  
21 turn, will increase energy efficiency in Hawaii; now, therefore,

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23 BE IT RESOLVED by the House of Representatives of the  
24 Twenty-ninth Legislature of the State of Hawaii, Regular Session  
25 of 2018, the Senate concurring, that the counties are urged to  
26 implement the recommendations set forth in the June 2016 Hawaii  
27 Energy Codes Compliance Study; and

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29 BE IT FURTHER RESOLVED that certified copies of this  
30 Concurrent Resolution be transmitted to the Governor; Director  
31 of Business, Economic Development, and Tourism; Administrator of  
32 the Hawaii State Energy Office; Chair of the State Building Code  
33 Council; Mayor of each county; Director of the Department of  
34 Planning and Permitting, City and County of Honolulu; Director  
35 of the Department of Planning, County of Maui; Director of the  
36 Planning Department, County of Hawaii; and Director of the  
37 Department of Planning, County of Kauai.

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40 OFFERED BY: 

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