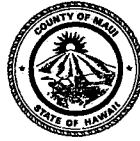


Council Chair
Mike White

Vice-Chair
Robert Carroll

Presiding Officer Pro Tempore
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Councilmembers
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Director of Council Services
Maria E. Zielinski

COUNTY COUNCIL
COUNTY OF MAUI
200 S. HIGH STREET
WAILUKU, MAUI, HAWAII 96793
www.MauiCounty.us

July 16, 2018

Mr. David Goode, Director
Department of Public Works
County of Maui
Wailuku, Hawaii 96793

Dear Mr. Goode:

SUBJECT: HAWAII STATE ENERGY CONSERVATION CODE
(PRL-12)

The Parks, Recreation, Energy, and Legal Affairs Committee is in receipt of the attached General Communication 17-10, from David Cohan, Building Energy Codes Program Manager, United States Department of Energy, Building Technologies Office, relating to the State of Hawaii's adoption of a new State Energy Conservation Code. Mr. Cohan states that the new code only applies to State buildings until it is adopted individually by each county.

The County adopted the 2006 International Energy Conservation Code, with amendments, in 2009, and it is set forth in Chapter 16.16A, Maui County Code.

May I please request your Department's response as to whether you have had the opportunity to review the referenced Code and will be transmitting a proposed bill to have the Maui County Code amended to incorporate it? If that is your intention, please advise the Committee of the estimated time frame for that to occur.

I would appreciate receiving your response by **July 31, 2018**. To ensure efficient processing, please include the relevant Committee item number in the subject line of your response.

Mr. David Goode
July 16, 2018
Page 2

Should you have any questions, please contact me or the Committee staff (Carla Nakata at ext. 7659, or Pauline Martins at ext. 8039).

Sincerely,

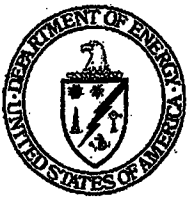
A handwritten signature in black ink, appearing to read "Don S. Guzman". The signature is fluid and cursive, with a long horizontal stroke at the end.

DON S. GUZMAN, Chair
Parks, Recreation, Energy, and Legal
Affairs Committee

prl:ltr:012apw01:cmn

Attachment

cc: Mayor Alan M. Arakawa
Frederick Redell, Energy Commissioner, Office of Economic Development



Department of Energy
Washington, DC 20585

OFFICE OF THE COUNTY CLERK
County of Maui

SEP 07 2017 9:30 am JM

August 23, 2017

Mike White, Maui County Council Chairman
200 South High St.
Wailuku, HI 96793

Re: Maui County Adoption of the Hawaii State Energy Conservation Code

Dear Chairman White:

The State of Hawaii recently adopted a new State Energy Conservation Code, replacing the previous one which was more than ten years old. However, the new code applies only to state buildings until it is adopted individually by each county.

The U.S. Department of Energy (DOE) encourages the adoption of the most recent model energy codes where they have been found cost-effective. Under the direction of DOE, Pacific Northwest National Laboratory conducted a customized analysis for Hawaii to determine the impacts of adopting the 2015 International Energy Conservation Code (2015 IECC) for residential buildings and ASHRAE Standard 90.1-2013 for commercial buildings. These are the codes that underlie the Hawaii State Energy Conservation Code. It was found that they would provide positive economic benefits to the citizens of your state. Because all of Hawaii is in the same climate zone, these results are equally applicable to Maui County.

Specifically, the analysis of the 2015 IECC concluded that moving to this code from the 2006 IECC base code is cost-effective for residential buildings throughout Hawaii. The average statewide economic impact per dwelling unit of upgrading to the 2015 IECC is shown in Table 1. The full report is available at <https://www.energycodes.gov/sites/default/files/documents/HawaiiResidentialCostEffectiveness2015.pdf>

Table 1. Economic impacts per dwelling unit from adopting the 2015 IECC

Metric	Compared to the 2006 IECC
Life-cycle cost savings of the 2015 IECC	\$12,612.63
Simple payback period of the 2015 IECC	4.3 years
Net annual consumer cash flow in year 1 of the 2015 IECC	\$747.82
Annual (first year) energy cost savings of the 2015 IECC (\$)	\$1,097.31
Annual (first year) energy cost savings of the 2015 IECC (%)	21.1%

Moving to the ASHRAE Standard 90.1-2013 edition from Standard 90.1-2010 is also cost-effective. Table 2 shows the average state-wide economic impacts per square foot that would result from this change in terms of the annual energy cost savings in dollars, additional construction cost, and life-cycle cost (LCC). These results are weighted averages for all building types throughout the state. The full report can be found at https://www.energycodes.gov/sites/default/files/documents/Cost-effectiveness_of_ASHRAE_Standard_90-1-2013-Hawaii.pdf

GENERAL COMMUNICATION NO. 17-10

Table 2. Economic impacts per square foot from adopting ASHRAE 90.1-2013.

Metric	Compared to ASHRAE 90.1-2010
Annual Cost Savings, \$/ft ²	\$0.593
Added Construction Cost, \$/ft ²	(\$0.000)
Publicly-owned scenario LCC Savings, \$/ft ²	\$11.43
Privately-owned scenario LCC Savings, \$/ft ²	\$9.71

Based on the benefits the new code would deliver to Maui County's citizens, DOE encourages you to move forward with adoption of the new Hawaii State Energy Conservation Code.

Sincerely,



David Cohan
Building Energy Codes Program Manager
US Department of Energy, Building Technologies Office
david.cohan@ee.doe.gov
503-477-0851