

- ***THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)***

Howard C. Wiig

Hawaii State Energy Office

Energy Efficiency Charrette

May 8, 2017



ENERGY REDUCTION IMPACT OF THE 2015 IECC VS THE 2006 IECC

- 33% estimated energy savings
- Reduces electricity bills by over One Billion Dollars by 2045

ADOPTION THROUGH ADMINISTRATIVE RULE

- Governor David Y. Ige signed into law March 20, 2017
- Counties plan to adopt the code shortly
- Code applies to new and renovated homes and buildings

HAWAII'S RESIDENTIAL TROPICAL ZONE UNIQUE IN THE NATION

- Tropical Climate Zone allows naturally cooled homes and buildings
- Reduces building costs
- Energy savings up to 48%

UNIQUE TROPICAL CODE OPTIONS

- The Tropical Code offers a point system that rewards Energy Star appliances, large lanais, downsized homes and natural ventilation.
- Ceiling fan stub-ins are required. Ceiling fans use less than 5% of AC usage

SHADING AND REFLECTIVITY IN LIEU OF INSULATION

- Code allows walls to be shaded or reflective in lieu of commercial insulation
- Reflective roofs which lower roof temperatures are required

EFFICIENT LIGHTING, LANAI DOORS AND HOTEL CARD KEYS

- High efficiency lighting required
- LED's produce greatest energy savings
- Hotel lanai doors switched to disable AC when doors are open
- Hotel card keys turn off hotel room equipment when occupants exit

ENERGY CODES AS MARKET TRANSFORMERS

- The 2015 IECC is being adopted by states
- Manufacturers upgrade their products to code compliance standards
- Mass production lowers prices
- Code-compliant products become mainstream in hardware stores