

## A SPRUCED UP ENERGY CODE FOR HAWAII

By Howard Wiig, Energy Code Specialist, Hawaii State Energy Office

Building codes are borne of disaster. The 1911 Triangle Shirtwaist Factory fire in Greenwich Village which burned 146 women to death sparked outrage and the rapid expansion of building codes in America. Today the "earth on fire" is sparking increasingly effective building energy codes which lower CO2 emissions, reducing energy use in homes and buildings while improving the comfort and safety of occupants. Hawaii is among states aiming for "ZNE" (zero net energy) energy building codes which are carbon-neutral. A ZNE building is one designed to greatly reduce energy needs. In a ZNE building efficiency gains have been made such that the balance of energy needs can be supplied with renewable sources.

America's building energy codes have their roots in the 1973-74 Arab Oil Embargo. Congress established State Energy Offices in every state and Hawaii's Energy Office opened in May 1976. The first national energy codes for commercial buildings were adopted in the 1980's. In 1994 Hawaii, in conjunction with many other states, adopted its first residential energy code. National law allowed the amendment of codes by states, and Hawaii adapted its code to Hawaii's mild climate. The International Codes Council (ICC) was formed in 1994 for the purpose of writing and publishing numerous building codes. Hawaii's counties later adopted the ICC's 2006 International Energy Conservation Code (IECC).

The 2007 Hawaii State Legislature, recognizing that the counties were adopting disparate building codes and making compliance difficult, formed the State Building Code Council (SBCC) for the purpose of convening the county building managers and adopting unified building codes statewide. The statute (HRS 107-22), however, did not require the counties to update codes. As a result, they lagged behind the national code cycle, which requires updating codes every three years to keep pace with rapidly improving technologies. Further delaying code adoption was the fact that the legislature allotted the SBCC funding to hire an administrator, but the funding was never released, leaving already fully employed volunteers to devote unpaid hours to the best of their ability. Honolulu, for instance, was still following the 2006 IECC until the City Council approved the updated 2015 code in September 2020.

Failure to keep pace with the national code cycle prompted the 2017 legislature to amend HRS 107 to require the SBCC and the counties

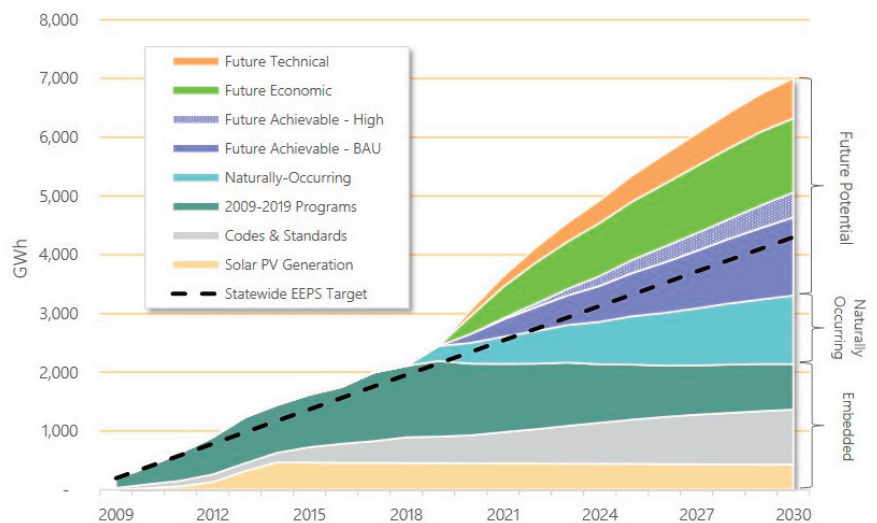
to adhere to the three-year national cycle. This spurred county adoption of the 2015 IECC and other codes.

Meanwhile, the Hawaii State Energy Office (HSEO) had been very active in national hearings for the 2009, 2012, 2015, 2018 and 2021 IECC updates. The hearings for the 2012 and 2015 code updates were extremely successful, resulting in a 15 percent energy improvement over the previous code, or a 30 percent improvement in six years. The improvements included added insulation for basements, walls and roofs, improved window performance, greater building tightness, duct and pipe insulation and bringing ducts into conditioned areas. In warmer climate zones, commercial buildings were required to have reflective roofs. The Hawaii delegation played an active role in testifying on behalf of the most aggressive and cost-effective proposals.

At the hearings, Hawaii successfully lobbied to add the "Tropical Zone" to the 2015 national code, allowing Hawaii-specific design elements to reduce home energy use by up to 47 percent compared to a code-compliant centrally air-conditioned home of the same size.

Meanwhile, the HSEO has conducted numerous energy code trainings statewide and served as Technical Advisor to answer code-related questions in Hawaii. The HSEO commissioned the publication of *Analyses and Proposal of Hawaii Amendments to the 2015 International Conservation Code*

Cumulative Persistent Energy Savings (GWh), 2009-2030, *EEPS Perspective*



published in May 2016. The study projects a savings of \$1.4 billion over a 20-year period resulting from Hawaii's adoption of energy codes, making codes one of the largest contributors to Hawaii's goal of 100 percent clean electrical energy by the year 2045. The attached graph indicates the large contribution to Hawaii's aggressive energy independence goals made by energy codes and standards. Honolulu County pressed for and was partially successful in including electric vehicle (EV)-ready provisions for commercial buildings, high-rise residences and single-family residences.

The HSEO also maintains an energy code website offering numerous sources of local and national information. For more information go to: <https://energy.hawaii.gov/hawaii-energy-building-code>. An HSEO staff member chairs the SBCC and invites other organizations to attend the SBCC's monthly meetings and potentially partner with the SBCC to further code adoption. An HSEO staff member also hosts Code Green, a YouTube program sponsored by ThinkTech Hawaii, and interviews guests with energy and energy efficiency expertise.

With the 2015 IECC now adopted by all counties, The SBCC is currently reviewing proposals to improve Hawaii's 2018 IECC from about 3 percent to 5 percent, primarily through upgrading lighting standards.



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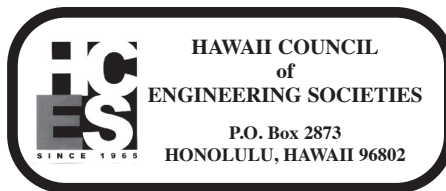
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**WILIKI MAILING LIST**

Additions and/or corrections to the Wiliki mailing list should indicate the proper society, institution or association. Corrections to email addresses should be submitted to your society coordinator.



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**2021 HCES LIFETIME ACHIEVEMENT AWARD**

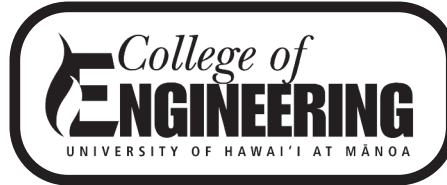
CALL FOR NOMINATIONS – Deadline: 18 December 2020

The "HCES Lifetime Achievement Award (LTAA)" is provided annually to recognize the lifetime achievements of an outstanding retired engineer and is bestowed upon this individual who has contributed significantly to the development of engineering in the State of Hawaii, and who has made a noteworthy impact to the local engineering community. This award will be presented at the HCES Engineers Week Banquet on 20 Feb 2021.

The LTAA Selection Committee will select the recipient. Nomination packages shall be preferably submitted via email to [bill.lee@coffman.com](mailto:bill.lee@coffman.com) or may be mailed to:

Coffman Engineers  
745 Fort St, Suite 400  
Honolulu, Hawaii 96813  
Attention: Bill Lee

**Nominations must be received via email or postmarked prior to 18 December 2020.**



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**UH to develop Aspiring Engineers Academy with NASA grant**

The University of Hawaii'i at Mānoa's **College of Engineering** will soon launch a new academy designed to provide engineering opportunities for Hawaii's underrepresented and underserved students, thanks to an approximately \$50,000 grant from NASA.

"Planning and Development for a Sustainable STEM-Outreach Program: Hawaii's Aspiring Engineers Academy," was one of 14 proposals selected by NASA nationwide through its Minority University Research and Education Project (MUREP), part of the agency's Office of STEM Engagement, and in partnership with the National Science Foundation.

The UH team, led by **Mechanical Engineering Department** Associate Professor **Dilmurat Azimov**, will develop a strategic plan for an aerospace academy that will foster aspiring engineers—the next generation of diverse, qualified candidates to contribute to the groundbreaking work of NASA and strengthen Hawaii's skilled workforce in the aerospace market. The grant will help cover the costs of organizing project meetings, supporting undergraduate and graduate research, covering team salaries, and supporting visits to NASA and project collaborators. The team aims to submit the strategic plan for approval within four months.

"There is a growing interest among the student populations, including the minority and underrepresented students of UH, in the areas of aerospace engineering, especially with problems relevant to space missions," Azimov said. "In this regard, we are working on a unique thematic curriculum with differentiated instruction for multi-age, multi-ability participants to gain knowledge and skills in the relevant areas."

The concept originated as a response to the trend towards STEM-related careers, with the goal of engaging students in the areas of aerospace engineering by further developing the educational and research pathways established at UH Mānoa through the existing NASA-funded **Hawaii's Engaged STEM Pathways project**. The team's goal is to align these pathways with NASA's 2024 Artemis Program, Mars Sample Return mission and other research priorities of the Space Technology and Human Exploration and Operations Mission Directorates.

**About MUREP**

NASA's **MUREP** was established to strengthen and develop the research capacity and infrastructure of minority-serving institutions (MSIs) in areas of strategic importance and value to NASA's mission and

national priorities. It supports the training and development of students and faculty at MSIs in STEM fields by providing opportunities for research and education that inspire and prepare minority students for STEM careers.

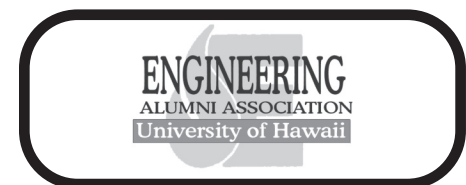


<http://www.hawaiispe.org/>

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Big Island Dir., NICET Chair '19-'20:	Curtis Beck <a href="mailto:curtbegood@mail.com">curtbegood@mail.com</a>

Nominations for the **Engineer of the Year AND Young Engineer of the Year** candidates will be accepted beginning in November of 2020. Nomination forms will be available on the HCES website at <http://hceshawaii.org/> or by contacting Kurt Kunimune. The awardee will be presented at the Engineer's Week Banquet in February of 2021. Please contact Kurt Kunimune of HSPE at [kkunimune@bowersandkubota.com](mailto:kkunimune@bowersandkubota.com) for nomination forms or with any questions. Nominations will be due by December 30, 2020. Mahalo!



Po Box 12204 Honolulu, HI 96828  
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email: [kstreet@ascehawaiiymf.org](mailto:kstreet@ascehawaiiymf.org)

### EXECUTIVE COMMITTEE MEETING

Last held: September 10, 2020  
Next meeting: October 7, 2020

### ASCE HAWAII SECTION DINNER MEETINGS

The continued health and safety of our membership is our top priority and we will continue to monitor the COVID-19 pandemic. Future in-person ASCE Hawaii Section events, including our section dinner meetings, are still temporarily on hold. We will keep you informed via e-blasts and/or notices posted on our website at [ascehawaii.org](http://ascehawaii.org) when they will be scheduled. Please continue to stay safe, watch out for each other, especially our kupuna, and continue to be vigilant about best health practices.

### COMMITTEE POSITIONS

ASCE Hawaii is looking for volunteers to fill the following committee positions: One (1) Student Practitioner Advisor (Senior Engineer, Life Member, or Retired professional preferred). If you are interested or have questions on any of these positions, please contact President Dayna Nemoto-Shima, [dnemoto@ascehawaii.org](mailto:dnemoto@ascehawaii.org).

### MEMBERSHIP

If you haven't already done so, please renew your ASCE membership. You can renew your membership at [www.asce.org](http://www.asce.org).

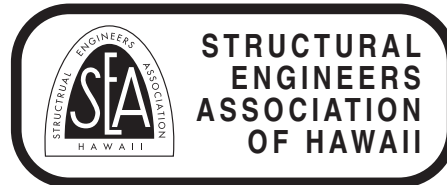
### ASCE JOB LISTINGS

The following job listings are currently posted on the ASCE Hawaii Section website:

- **AECOM** (Civil Engineer II)
- **Booz Allen Hamilton** (Senior Civil Engineer and Wastewater Specialist)
- **City and County of Honolulu** (Civil Engineer III, IV, V, Mechanical Engineer V, & Electrical Engineer V)
- **DR Horton** (Land Development Project Manager)
- **G70** (Civil Designer, Civil Engineer, Civil Project Manager, Construction Manager)
- **HDR** (Senior Civil Engineers, Senior Federal Project Manager, Project Manager – Transportation Group, & Water/Wastewater Engineer)
- **Hirata & Associates** (Geotechnical/Civil Engineer – Project Engineer)
- **Jacobs** (Civil Engineer)
- **Kennedy/Jenks Consultants** (Project Manager, Staff Engineer for Honolulu Office and Staff Engineer for Hawaii Office)
- **Nagamine Okawa Engineers Inc.** (Structural

Engineer)

- **PGH Wong** (Change and Claims Manager, Change and Claims Specialist, Civil/Building Inspector, Office Engineer, & Scheduler)
  - **Stantec** (Task Order Manager, Office Engineer, Junior Office Engineer, Lead Engineer-Assistant Resident Engineer, Track Inspector, Sr. Project Scheduler)
  - **SSFm** (Civil Engineer V, Structural Engineer IV)
  - **US Army Corp of Engineers** (USACOE) (Interdisciplinary Project Manager, GS-12)
- For further information, please visit <http://www.ascehawaii.org/job-listings.html>.



PO BOX 3348, HONOLULU, HI 96801  
Web Page URL <http://www.seaoh.org>

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Director (Yr 1): Lauren Tolentino  
[lauren@bondedmaterials.net](mailto:lauren@bondedmaterials.net)

Past President: Kevin Nakamoto  
[pukapig@yahoo.com](mailto:pukapig@yahoo.com)

### PBX20

• In lieu of an annual convention this year, SEAHO will be partnering with CSI Honolulu Chapter as an industry sponsor of PBX20. The hybrid online/in-person event will take place from October 27th to 29th. Online technical sessions will include the Florida pedestrian bridge collapse and building code updates from S.K. Ghosh. For more information, go to [pbxhawaii.com](http://pbxhawaii.com) or contact Kevin Nakamoto at [pukapig@yahoo.com](mailto:pukapig@yahoo.com).

### SEAHO Golf Tournament

• The annual golf tournament, reduced in size and scope, is scheduled for October 23, 2020 at Hoakalei Country Club. Contact Craig Meierhoffer ([cmeierhoffer@baseengr.com](mailto:cmeierhoffer@baseengr.com)) for additional information.

### Membership Applications

• Student membership applications were received from Jessica Lee, Jacob Passoff, and Luke Withy-Berry. Please contact any SEAHO Board Member by November 1, 2020 to file comments regarding the applications.

**Next Meeting** on October 7, 2020. For information, contact SEAHO President Danny Fujioka.

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Nicole Nakaoka, Past President  
[nnakaoka@ascehawaiiymf.org](mailto:nnakaoka@ascehawaiiymf.org)

### YMF General Meeting

The next YMF general meeting is TBD. Due to COVID-19 and social distancing mandates, YMF general meetings will remain on hold for the foreseeable future. Please be sure to check out our website and social media channels for the most updated information and for details on virtual events. If you are interested in attending and learning more about the various professional, social and service opportunities available through YMF, please contact YMF at [ymf.hawaii@gmail.com](mailto:ymf.hawaii@gmail.com).

### Easy Peasy Virtual Art Class

On August 19th, 10 of our ASCE YMF members joined together on zoom for a virtual art class. The members unleashed their inner Bob Ross as they tackled a piece of paper with just a pencil or pen and their creativity. The artists shared what they were doing during the pandemic and welcomed some first timers of YMF socials. The artists shared some laughs and good times even while creating some happy accidents along the way.

Thank you to all the participants for their amazing creations!



### 2019-2020 ITE Officers

President: Jennylyn Tapat  
[JTapat@wilsonokamoto.com](mailto:JTapat@wilsonokamoto.com)

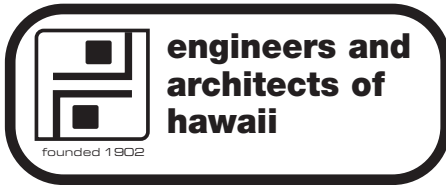
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[Kelly.akasaki@honolulu.gov](mailto:Kelly.akasaki@honolulu.gov)

Sec/Treas: Jasmine Teramae-Kaehuaea  
[jkaehuaea@atahawaii.com](mailto:jkaehuaea@atahawaii.com)

Virtual meetings – the new normal for now. First, the ITE Hawaii Section hosted a Virtual Resume Review Workshop to help University of Hawaii at Manoa's Civil & Environmental Engineering students prepare for the College of Engineering Career Faire this fall. We had 13 professionals and 19 students participate.

Second, the ITE Hawaii Section held a virtual speaker meeting on September 23, 2020. We heard from Kimberly E. Leung who is an engineer at the San Francisco Municipal Transportation Agency. Kimberly's presentation was focused on the San Francisco's Slow Streets Program.

If you would like to be added to the ITE mailing list, please email Jasmine Teramae-Kaehuaea at [jkaehuaea@atahawaii.com](mailto:jkaehuaea@atahawaii.com).



**PO. Box 1901, Honolulu, HI 96805-1901**  
**An association for Hawaii's Engineers and Architects**

**WEB address:** [www.eahawaii.org](http://www.eahawaii.org)

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EAH is currently only having Zoom Meeting until further notice.

Regular meetings are held 2 times per month on Fridays. Meetings start at NOON and have ended PROMPTLY at 1:00 pm for over 110 years.

Members, guests, and the Public are welcome to join EAH meetings. Email [eahawaii@gmail.com](mailto:eahawaii@gmail.com) to get the Zoom meeting links.

#### **Next EAH Zoom Meetings**

**Friday October 9th & Friday October 23rd Programs TBA.** Visit EAH WEB page for details on EAH October Programs at [eahawaii.org](http://eahawaii.org). Both October meetings will have scheduled speakers, but one meeting will have part of the meeting reserved for networking between the members and guests.

#### **August 21st, 2020 Zoom Meeting**

**Speaker: Justin Kerr, PhD biologist Center for Global Health Science and Security**

#### **Topic: Using Analytic Technology to Comprehend Covid 19 Spread**

Dr. Kerr discussed use of analytic approaches and their power to help us understand the behavior of virus spread. Dr. Justin Kerr is Head of Research at Talus Analytics where he specializes in applying data analysis, modeling, and policy analysis to major challenges in global health, US public health and natural disaster emergency response. At Talus, he leads projects that serve the needs of the US Federal government (including CDC, FEMA, and DHS), state and local governments, non-profits, and healthcare systems. He is also a primary contributor to the ongoing collaboration between Talus Analytics and the Georgetown University Center for Global Health Science and Security. Dr. Kerr is based in Washington, DC and previously trained as a research fellow at the National Institutes of Health (NIH) and received his PhD from University of Maryland School of Medicine.

Watch Dr. Kerr's presentation on EAH YouTube Channel <https://www.youtube.com/watch?v=b005bPvi9oU>.

**September 23 Wednesday 7:00 pm to 8:00 pm**

**Program: "The Mauna Kea Summit Astronomical Site Survey, 1965-1967"**

**Guest Speaker Jim Harwood UH Institute for Astronomy (Retired)"**

Instead of EAH's usual Friday lunch time meeting EAH had a special evening Zoom

outreach event for members, guests, and household members. Jim Harwood provided a firsthand talk on how astronomy started on Mauna Kea, and the experiences of those who observed in primitive and dangerous conditions far away from any human contact night after night at very high altitude, in the cold and wind and dark, in order to determine the best site on the mountain for a major telescope. In 1965, John Harwood was charged with managing the Mauna Kea Site Survey by John Jefferies to establish the best place to build and support a major new telescope. He will share his role in the first surveys to define the roads, support facilities and the observatories that bring the stars closer to us and shared with the World. Jim's wife, Pat, also shared her experiences. Look for this meeting on EAH's YouTube Channel.



P.O. Box 31218, Honolulu, HI 96817

Web page: [www.samehonolulu.org](http://www.samehonolulu.org)

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#### **SAME Honolulu and Guam Posts 2020 Virtual Joint Indo-Pacific Industry Forum**

The SAME Honolulu and Guam Posts 2020 Virtual Joint Indo-Pacific Industry Forum was held on September 16 at Tradewinds on Joint Base Pearl Harbor Hickam (JBPPH), and simulcast live on Microsoft Teams Live. More than 200 participants from Hawaii, Guam, the Philippines, Japan, and the U.S. Mainland met together virtually for program briefings, keynote addresses, and small business networking.

This year marks the 100th anniversary of SAME, and the forum included a presentation on the history of SAME in the Pacific, as well as an address from SAME National President, Ms. Heather Wishart-Smith.

Key speakers included Brigadier General Rory Copinger-Symes and Major Seth Lorimer from INDOPACOM J44, who provided an update on the challenges the U.S. faces in this region, including competing with China and Russia, cooperating with allied nations, remaining agile to changing conditions, and working with industry to ensure a free and open Indo Pacific region.

Damon Lily and Brian Kamisato with U.S. Army Corps of Engineers (USACE), Pacific

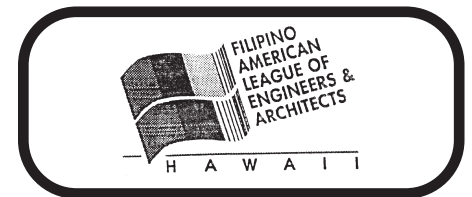
Ocean Division served as keynote luncheon speakers, and discussed how they have been working strategically with the Army, Air Force, Navy, Marine Corps, and Host Nation governments of Japan and Korea to execute the Department of Defense's MILCON and Host Nation programs, including the \$10B Korea Transformation and the \$12B Japan Defense Policy Review Initiative (DPRI) programs.

In addition, speakers from the Air Force, USACE, and NAVFAC Pacific, discussed their upcoming opportunities for the A/E/C industry. Small business representatives from NAVFAC Pacific, NAVFAC Hawaii, NAVFAC Marianas, and USACE Honolulu District provided an overview of their capabilities and services. Commander Trey Johnson from Marine Corps Base Hawaii also provided an overview of the challenges and opportunities associated with his base.

Lieutenant Commander Evans, Resident Officer in Charge of Construction (ROICC) Finegayan, and Officer in Charge of Construction (OICC) Marine Corps Marianas, provided an overview of the \$3B construction effort of the new Marine Corps Base Camp Blaz as part of DPRI to relocate 5,000 Marines from Okinawa to Guam.

Proceeds from the forum help support SAME Honolulu and Guam Posts' scholarship programs, construction camps, and youth outreach programs for Hawaii and Guam students pursuing their education in engineering or architecture.

The SAME Honolulu Post 2021 Pacific Industry Forum will be held on May 11-12, 2021. It will be an informative event with excellent networking opportunities. Please mark your calendar so you may be able to join us.



P.O. Box 4135, Honolulu, Hawaii 96812

Website: <http://www.falea.org>

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**Deadline for  
*Wiliki*  
 is October 15th**

**Energy Code,**  
continued from Page 1

Other proposals to improve Hawaii's 2018 IECC include:

- Add a "cool walls" provision to the commercial building section to reduce construction costs and lower the heat island effect.
- Pave the way for permitting tiny homes and micro homes to provide extremely energy-efficient housing for underserved communities.
- Add a Zero Net Energy appendix, allowing homes with no carbon impact to comply with the 2018 IECC
- Significantly improve lighting efficiency requirements to reduce lighting-controls expenses and lighting energy use.
- Add electric-vehicle-ready provisions to the residential and commercial building sections.
- Add photovoltaic (PV)-ready to the residential section.

Meanwhile, appliance efficiency standards are nearly as effective a means of reducing energy use while lowering costs and keeping dollars in Hawaii's economy. The Hawaii is among the states leading the way of improving appliance efficiencies, with a projected energy savings of over \$1 billion over a 20-year period.

Finally, the HSEO fosters partnerships and collaborations with the aim of combining strengths to further energy efficiency improvements. To this end, the HSEO is informally consulting with:

- Building Industry Association
- Jalousie window manufacturers
- The Masonry Institute of Hawaii
- Hawaii Energy
- US Green Building Council, Hawaii Chapter
- American Institute of Architects, Hawaii Chapter
- Illuminating Engineering Society, Hawaii Chapter
- Land Use Research Foundation

When Hawaii adopts the 2018 IECC it will become one of the nation's leaders helping bring the nation closer to a carbon-free economy. Hawaii and the nation have come a long way since the 1911 Triangle Shirtwaist fire. Building codes have long since obviated disasters like the Triangle Shirtwaist fire and now take aim at reducing CO2 levels and the incidence of fires currently scorching the American west.

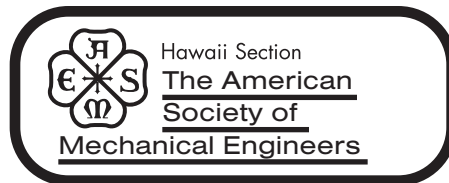


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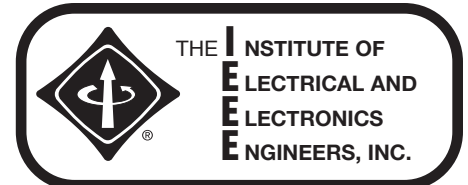
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