

Spring 2020

Kaua'i Island Utility Cooperative

# CURRENTS

## Keeping the Sun in Sync



**Inside:**

**2020 Board Election Results  
EV Charger Rebates**



# Aloha Island Team



## KAREN L. AGUDONG, REALTOR(B)

RB-17447

808-652-0677 • email: karen@alohaisland.com



### 4597 EHAKE STREET, LAWAI

Tons of potential for this home in Lawai Valley Estates! Very spacious 4 bedroom, 2 bath home with carport and large level yard! Sold As-is. \$674,000(fs). Call: Karen L. Agudong, REALTOR(B) 652-0677 or email: Karen@Alohasland.com.



### PIKAKE SUBDIVISION LOT #1714, LIHUE

STUNNING MOUNTAIN and GOLF COURSE VIEWS. Excellent location toward the end of the cul de sac. Flag lot enhances privacy. May qualify for an additional Guest house. Close to Kukui Grove Shopping Center, Kauai Community College, Schools and Beaches. \$499,000(fs) Call: Karen L. Agudong, REALTOR(B) 652-0677 or email: Karen@Alohasland.com.



### IN ESCROW

### 6364 KAWAIHAU RD, KAPAA

Beautiful recently renovated 4 bedroom, 3 bath home located off a shared driveway easement road off of Kawaihau Road. Main house has 3 bedrooms, 2 baths and there is an attached 1 bedroom, 1 bath apartment with separate entrance which can be used as a mother in law unit or separate rental. \$699,999(fs). Call: Karen L. Agudong, REALTOR(B) 652-0677 or email: Karen@Alohasland.com.



### IN ESCROW

### SUN VILLAGE #B408, LIHUE

Gorgeous, well maintained 2 bed, 2 bath 4th floor condominium with Beautiful Vaulted Ceilings. Ocean Views from Lanai and Stunning Mountain Views from the living room and lanai. Sun Village has numerous amenities and is located across from Wilcox Hospital and Clinic. Very close to Shopping and Beaches! \*\*One resident must be 55 years of age or older. Call: Karen L. Agudong, REALTOR(B) 652-0677 or email: Karen@Alohasland.com.



### YOUR PROPERTY HERE!

Looking to sell your home? Inventory is low and buyers are looking to purchase property. Please contact Karen for a FREE comparative market analysis of your property.

EXP REALTY • KAREN L. AGUDONG • MAILING ADDRESS: PO BOX 3255, LIHUE, HI 96766

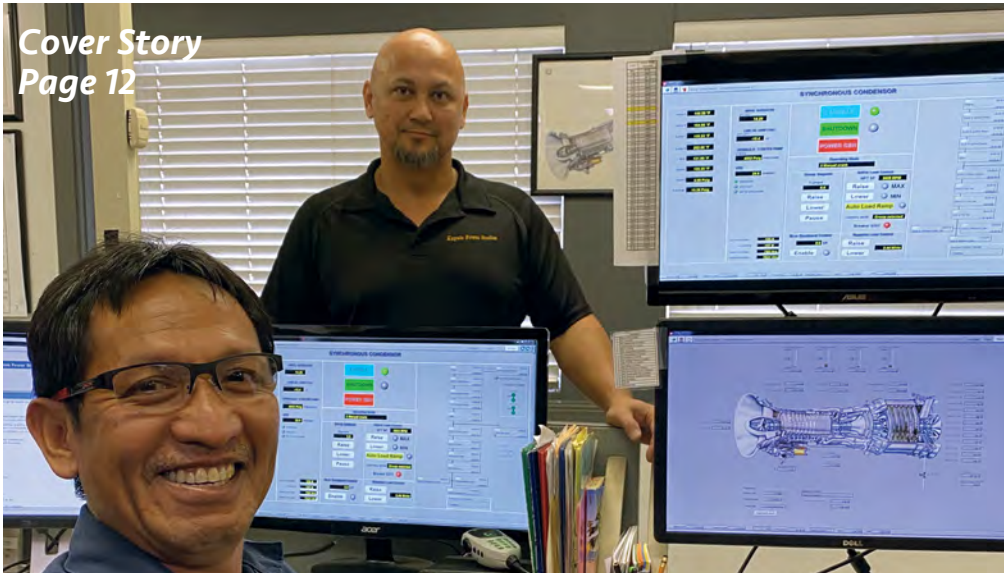
808-652-0677 • WWW.ALOHAISLAND.COM • EMAIL: KAREN@ALOHASLAND.COM

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Beth Tokioka

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**ON THE COVER**

From left, KIUC's Jonnie Reynolds, Jeff Garcia and Brooks Braun in the Kapaia Power Station control room.

**Save postage, get your Currents online**

Currents is mailed quarterly to members of Kaua'i Island Utility Cooperative. This issue and back issues also are available online at [www.kiuc.coop](http://www.kiuc.coop).

If you would like to help the cooperative save paper and postage, you can receive Currents via email or simply read it on our website. Just send a note to [currents@kiuc.coop](mailto:currents@kiuc.coop) and we will take you off the mailing list.

We're also open to story ideas, letters and suggestions. And we're always looking for new recipes. Thank you for reading Currents.



Only active KIUC members will be mailed KIUC Currents. KIUC Currents can be found online at [www.kiuc.coop](http://www.kiuc.coop) under News and Currents.

KIUC is an equal opportunity provider and employer.

# Stay in the Know

**By Allan A. Smith**

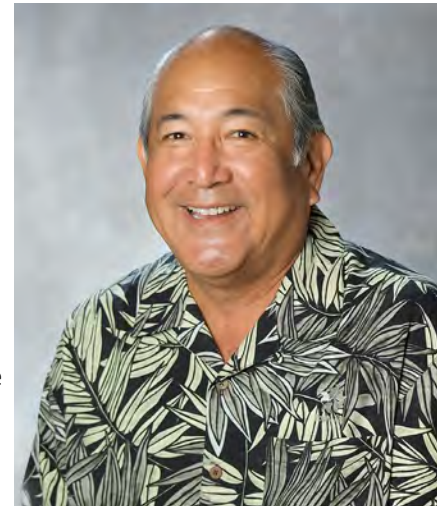
At KIUC, we strive to improve our operational efficiency so we can provide the most reliable electric service possible for our members.

We rely on data for nearly every aspect of our operations, which is why we need your help. By making sure we have your most accurate and complete contact information, we can continue to provide the high level of service you expect and deserve. Accurate information helps us improve customer service and enhance communications for reporting and repairing outages. It also allows co-op members to receive information about other important programs, events and important news, such as preparations for impending storms.

While we do our best to maintain service, we occasionally plan outages to update, repair or replace equipment. In these instances, we can provide advance notification to affected members through phone calls, mail or email if we have your updated contact information and communication preferences.

Many of you have been co-op members for years, and it's likely your account information hasn't been updated for some time. Many members use a cellphone as their primary phone service, and we might not have that number in our system.

Be assured, we will safeguard your information and only use it to send important information to you. Please take a moment to confirm or update your contact information by logging into your SmartHub account, or call our office at 808-246-4300 during regular business hours for assistance. By doing so, you will help us improve service and efficiency so we can better serve you and all co-op members. 🌀



**Share the Meals, Share the Love!** One of the best ways to build stronger bonds with your children is to share regular family meals together. Simply sharing meals together (any meal of the day), as a family, 3-5 times per week can reduce stress, improve your child's academic success, improve physical health, strengthen family relationships, and help your child navigate life's sometimes choppy waters.

**Unplugged and Uninterrupted** How do you create quality mealtimes with your family? Try these tips:

- Turn off the TV, video games, and other electronic devices. This includes cell phones. Quality mealtime is a special time to reconnect with one another share with each other. It is a time to ask about your child's day, listen, and show support and encouragement.
- Try to keep the meal simple but nutritious. You can ask your children to help in setting the table or in the kitchen. Don't forget the veggies!
- Some families experience tension around mealtime, but avoid criticism or discipline. Consider using conversation starters to spark new discussions and get to know your family members on a different level. There are other great tips to "Tame the Tension" at [www.thefamilydinnerproject.org](http://www.thefamilydinnerproject.org)

For more information, visit <https://keikitocareer.org/callto-action/sharefamilymeals/>

**THE Kaua'i Resilience Project**

The Kaua'i Resilience Project is a partnership of 30 organizations and businesses that are working together to build youth resilience and to combat youth suicide. For more tips on helping kids thrive, visit [www.kauaiskidsareyourkids.org](http://www.kauaiskidsareyourkids.org).



# Board Actions

*Below is a summary of some of the actions taken by the KIUC Board of Directors in December 2019, January and February 2020.*

## February 27, 2020 Board Meeting

Motion carried, 2019 professional services budget increase, additional \$160,000.

Motion carried, 2019 property insurance budget increase, additional \$145,000.

Motion carried, 2020 property insurance budget increase, additional \$200,000.

Motion carried, HCP professional expenses budget increase, additional \$275,000.

Motion carried, 2019 corporate performance results.

Motion carried, 2020 corporate performance targets.

Motion carried, Board Policy No. 13, community and economic development; reviewed, no substantive changes.

Motion carried, Board Policy No. 15, strategic planning; reviewed, no substantive changes.

## January 30, 2020 Board Meeting

Motion carried, Board Policy No. 5, conflicts of interest and conduct of interested persons; reviewed, no substantive changes.

Motion carried, Board Policy No. 19, anti-retaliation and whistleblowing; reviewed, no substantive changes.

Motion carried, extending the requirement to obtain CCD for Director Kass for one year.

## December 17, 2019 Board Meeting

Motion carried, 2020 board committee and monthly meeting dates.

Motion carried, substation transformer Green Energy, additional \$406,000.

Motion carried, long-term easement and conservation agreement–Upper Manoa.

Motion carried, underground system improvement, additional \$150,000.

Motion carried, line replacements > \$4,000–underground, additional \$163,000.

Motion carried, IES Downstream LLC and KIUC fuel supply agreement; reviewed.

Motion carried, Resolution 03-19, 2020 Results of Operations budget.

Motion carried, Resolution 04-19, 2020 capital budget.

Motion carried, Resolution 05-19, update salary definition.

# 2020 KIUC Board of Directors Election



**Dee Crowell    Jim Mayfield    Allan A. Smith**

Kaua'i Island Utility Cooperative's incumbent directors Allan A. Smith, Dee Crowell and Jim Mayfield have been re-elected to the KIUC board. These three directors will each serve for a three-year term ending March 2023.

Merriman River Group submitted the official results for the 2020 Board of Directors election. The results are as follows:

- 1. Allan A. Smith . . . . . 3,448
- 2. Dee Crowell . . . . . 3,205
- 3. Jim Mayfield . . . . . 2,989
- 4. Steve Parsons . . . . . 1,844

KIUC mailed 26,359 ballots and received 4,681 responses.

Merriman River Group, a Connecticut-based election management firm, conducted the election. ♻️



## Know the Warning Signs of Child Abuse

**STAND UP  
FOR  
CHILDREN**



- Unexplained or suspicious bruises, welts, burns, or fractures
- Unkempt or malnourished appearance
- Depression, anxiety, or sudden mood swings
- Disturbed sleep
- Abrupt changes in behavior (eating habits, school performance, withdrawal, aggression)
- Fear of a certain person or place
- Self-harm or suicide attempts
- Wetting or soiling accidents not related to toilet training
- Pain during urination and/or bowel movements
- Sexually transmitted diseases or urinary tract infections
- Discoloration or scarring of genital area
- Unusual knowledge of body parts or sex
- Acting out sexually with toys or other children

**Always take seriously children's talk of being abused. Call 911 or child protective services immediately! If you have questions or are unsure what to do, call the Childhelp National Child Abuse Hotline at 1-800-4-A-CHILD.**

## There's No Excuse for Child Abuse

FRIENDS OF THE  
CHILDREN'S JUSTICE CENTER OF KAUAI  
HAWAII REPORTING HOTLINE  
**888-380-3088**

# Making the Switch

## By Cal Murashige

Growing up on Kaua'i in the 1950s, our family home in Lihue had a switch in the house that allowed us to turn off the electric water heater after the last person in the house had showered and hot water was not needed until the next day.

After moving back to Kaua'i in the mid-1970s and building our own house, one of the gadgets we installed to reduce our electrical use was a timer for our electric water heater. The timer turned on the heater around 5 p.m. and turned it off around 9 p.m. This rather inexpensive device reduced our electric use and monthly electric bill.



In the early 1980s, we installed a solar water heater that further reduced our monthly electric bill. The water heater was considerably more expensive but paid for itself in about six years.

We also have reduced our electric use by conscientiously turning off lights in any unoccupied rooms and by changing our incandescent lightbulbs to LEDs, thanks to the giveaways from KIUC.

Being a KIUC board member has raised my awareness of the many ways our cooperative can help members manage their energy use and perhaps even lower their monthly bills. The KIUC website has many programs and informational resources. Just click on the member services page and start browsing.

Perhaps the most important step is to sign up for our Smart Hub service. With Smart Hub, you can monitor and analyze your energy use, pay your bill online, report outages, connect and disconnect service and much more—all from the convenience of home or wherever you may be. The link to Smart Hub is on the homepage of the KIUC website, or you can download an app on your phone.

Better managing our energy use can be as easy as flipping a switch, changing your water heater or logging into your Smart Hub account. Check into the many resources KIUC provides and start saving today. 🌱



# Rebates for Electric Vehicle Charging Stations Available







## By Susan Tai, Hawai'i Energy

Odds are, you're starting to see more electric vehicles on the road than you would have just five years ago. Because of that, the demand for publicly available charging stations is going up. In January 2020, the number of passenger EVs in the state was 11,081 (a 31.4% increase from the same month last year), 1,342 of which were on Kaua'i (a 20% increase from the same month last year).

It's clear the demand for EVs is growing on the Garden Isle. More charging stations are critical to encouraging drivers to make the switch to EVs and advance clean transportation on Kaua'i.

Enter Hawai'i Energy, a local energy-efficiency program working on behalf of the Hawai'i Public Utilities Commission. Its new EV charging station rebate offer incentivizes local businesses, organizations, retail centers and multifamily dwellings such as condos and apartment complexes to install charging stations on their properties and reap the benefits. Installing a networked charger can often enhance property value, drive customer traffic and increased sales while an EV is charging, and even build customer loyalty through added value and EV-friendly convenience to green-minded residents, businesses and visitors.

With approximately 40 charging ports currently on Kaua'i, primarily in Līhu'e, it is hoped others will take advantage of this special funding to install more chargers island-wide. EV drivers who can confidently travel from Waimea to Wainiha will be grateful.

Kaua'i isn't usually a benefactor of Hawai'i Energy offerings because the program is funded by electric utility customers in Honolulu, Maui and Hawai'i counties. But recent legislation at the state level (Act 142, 2019) allocated \$400,000 to fund charging station installations statewide, Kaua'i included. Hawai'i Energy administers the program on behalf of the state to deploy more charging stations statewide, to encourage EV ownership and as a grid service. Placing more chargers at workplaces and retail centers helps shift electricity use away from peak loads in the early evening to daytime hours, stabilizing the demands on the electrical grid.

The EVCS incentive program provides the following rebates:

- Networked level 2 multiport charging stations: \$4,500 (first-time installation) and \$3,000 (retrofit); and
- Networked direct current fast-charging stations: \$35,000 (first-time installation) and \$28,000 (retrofit).

To qualify, stations must be publicly available, serve multiple tenants, employees or customers, and/or serve EV fleets. Businesses may submit their applications within 12 months of the date a station was installed, activated and available for use between January 1, 2020, and June 30, 2021. Rebates are available on a first-come, first-served basis, as funding lasts.

For more information on how to apply, or if you know businesses and multifamily dwellings that could use an EV charging station, visit [hawaiienergy.com/evcharging](http://hawaiienergy.com/evcharging) for rebate applications, program requirements and answers to frequently asked questions. For a list of installation contractors serving Kaua'i, contact Susan Tai at [susan.tai@leidos.com](mailto:susan.tai@leidos.com) or 808-848-8566. ♻️





### ***By Makani Taniguchi and Kyle Cremer, KIUC's EnergyWise Guys***

Earth Day may be April 22, but every day is Earth Day at KIUC. In Energy Services, our goal is to help our members and commercial and industrial rate customers save money and become energy efficient.

One of the ways you can help us help you is by signing up for an assessment learning experience, the HALE program, or the commercial retrofit program.

The HALE program determines the causes of high energy consumption. During the home visit, we collect appliance and demographic information to see if high consumption is justified

and investigate the cause of high consumption. If needed, we provide low-cost energy saving devices such as LEDs, smart plugs and smart power strips.

For the commercial retrofit program, we offer incentives ranging from 50% to 100%. We also educate members and commercial and industrial rate customers on SmartHub and how it can help them understand their electric bills.

There are other ways you can help our environment:

- Change out your old lightbulbs with LED bulbs.

- Wash your clothes in cold water.
- Hang your clothes out on a line instead of using a clothes dryer.
- Connect items such as computers, printers and game consoles to power strips. Turn off the power strips when not in use.
- Turn off fans when leaving home.
- Install a timer on your electric water heater.
- Set your electric water heater to 120 F.
- Turn off the air conditioner when leaving home or raise the temperature to 74 F. ♻️

***We're here to help.***

***For more information on how to save energy, call us at 246-4300.***

# Sunny Days Ahead!

**By Beth Tokioka**

If it's a sunny afternoon on Kaua'i, there's a better-than-ever chance whatever electricity you're using is powered 100% by renewable energy.

"That's a pretty remarkable achievement," said David Bissell, KIUC president and CEO.

In 2019, KIUC's power mix included 55% renewable generation, exceeding the 50% mark for the first time since the cooperative formed, and up from 8% in 2010. The addition of the AES Lāwa'i solar-plus-storage facility in January 2019 provided a large boost. The facility has the capacity to generate up to 100 megawatt hours of electricity after sunset.

"Getting the Lāwa'i facility up and running was one of the factors that gave us confidence to push the needle on what we could do with renewables," said Brad Rockwell, KIUC executive manager of operations.

From late November through mid-December 2019, KIUC's power supply team began shutting down conventional generating units and running the island's grid solely on power supplied by the cooperative's solar, hydro and biomass plants on days with plenty of sunshine.

"We didn't use a drop of fossil fuel for a cumulative total of more than 32 hours during that initial time frame," Bissell said. "Now it's a routine occurrence, and we're sometimes running seven hours or more on pure renewables. We believe this is a unique accomplishment for a stand-alone electrical grid relying on small-scale renewable generation."

The largest portion of KIUC's renewable portfolio comes from solar. Deployment of utility-scale solar projects—both direct-to-grid and coupled with storage—are delivering financial benefits as well. The use of utility-scale solar instead of diesel saved KIUC members \$3.8 million in 2019. That equates to roughly \$50 in savings for the average residential customer during the year.

KIUC's Board of Directors has set a strategic goal of reaching 70% renewable by 2030, and Bissell predicts it will be achieved within the next four years. KIUC is also on track to meet the state of Hawai'i mandate that all electric utilities reach 100% renewable by 2045.

"We want to produce the cleanest electricity possible, but we have to do so in a manner that is safe, reliable and reasonably priced," Bissell explained. "KIUC is well ahead of most utilities in this arena, and we should all be proud of what we've accomplished." 🌞



***The use of utility-scale solar instead of diesel saved KIUC members \$3.8 million in 2019.***

**AES Lāwa'i Solar+Storage Facility.**  
Photo credit: AES Distributed Energy



Back row from left: Jeff Garcia, Brooks Braun; Front row from left: Julius Balisacan, Dynamite Lee, Roger Balaan, Wilber Villanueva

# Staying in Sync

By Jan TenBruggencate

One challenge of running an electrical grid on increasing amounts of solar power is the grid can get increasingly fragile.

The grid protects itself by shutting down if there is a significant fault on the system, such as from an albizia tree taking down a transmission line. These instances are rare, but they do happen. How KIUC engineers help prevent that shutdown is a groundbreaking story in renewable energy.

The traditional answer has been to keep a big rotating engine running—a

fuel-eating turbine or a big generator tied to a diesel engine. That running engine adds inertia to the grid.

When the grid takes a hit, instead of voltage and frequency collapsing, the inertia of the generator's tons of spinning metal keeps it running. The generator pumps out something called VARs—voltage-ampere reactive—and stabilizes the grid, keeping the lights on.

But the problem with using fossil fuel-powered inertia is it doesn't get us to a 100% renewable grid. We're still burning some diesel.

Before 2019, KIUC engineers generally were running our biggest generation unit to provide that needed inertia. This is a 27-megawatt GE LM2500 gas turbine at Kapaia Power Station. It is effectively a giant jet engine bolted to a generator. Its inertia is provided by 24,000 pounds of spinning metal.

But even running it at a very low speed, it takes a lot of fuel. What if there was a way to spin it without running the jet engine? It took consultation with manufacturer GE

***A synchronous condenser, also sometimes called a synchronous capacitor or synchronous compensator, is not a new concept. Elsewhere, they have been used to support voltage on long transmission lines and in places where large loads can suddenly depress voltage. They have the ability to add current as voltage drops.***

and \$700,000 in upgrades, but KIUC's crews configured the Kapaia plant to run as a synchronous condenser. That means it spins and provides inertia but doesn't use any liquid fuel. Instead, it runs off the renewable energy from KIUC's solar fields, hydroelectric plants and Green Energy's biomass plant.

With the Kapaia plant running as a synchronous condenser, it was theoretically possible to run our island's electrical grid without any fossil fuels. Early in 2019, KIUC touched 100% renewable islandwide for a few seconds. Days later, we ran that way for a few minutes. Then it was 25 minutes on February 25, 2019, as engineers fine-tuned the system.

In late November, they began running the island without any fossil fuels for a few hours at a time. On December 10, the island ran on 100% renewables for a new record of five hours. Purists might argue there were still carbon emissions, since the Green Energy plant was burning wood.

Then on December 18, the grid was able to run 100% with the Green Energy plant offline, operating only on solar and hydroelectric power. That meant the island was being powered entirely on solar and water but nothing burning—not diesel, not naphtha, not wood chips.

It is difficult to overstate what a leap forward this is for renewables. Running a stable, resilient grid entirely on intermittent generation sources is a huge advance.

There is a lot more to be done. Synchronous condensers are one solution, but may not be the best solution, and may not be the only solution long-term.

We still need to solve the major problem of long-term storage of electrical energy. Batteries are good and cost effective for overnight use, but when the sun is blanked out by

storm clouds for days at a time, we do not yet have an alternative to our tanks of stored liquid fossil fuels, diesel and naphtha.

KIUC's engineering staff is knocking down one challenge after another. In 2019, we passed the benchmark of providing 50% of our electricity from renewables. By the end of this year, we should pass 60%.

We are still not sure exactly what a long-term 100% renewable grid looks like, but we're starting to get hints. And the synchronous condenser is one piece of that picture. 🌞



*Brooks points at the light that shows that the synchronous condenser is on.*



# Your Spare Change Could Make a Big Impact

KIUC members can make a small monthly gift that could lead to significant donations for charitable causes on Kaua'i.

The Makana program is voluntary. To participate, KIUC members agree to round up their electric bill to the next highest dollar and donate that amount to the program, which is administered by the KIUC Charitable Foundation. The rounded amount is shown on your monthly electric statement.

Learn more about the Makana program at  
[www.kiuc.coop](http://www.kiuc.coop) under "Community"

## SIGN UP FOR SMARTHUB TODAY

*Account Management at Your Fingertips*



### Register for Online Access

Visit [www.kiuc.coop](http://www.kiuc.coop) and enroll in SmartHub on the web. To get started, click on the blue SmartHub icon. Click on the "NEW USER? Sign up to use our self-service site" button. You will then be prompted to enter the last four digits of your Social Security Number or Federal Identification Number (businesses), mailing address zip code as stated on your electric bill and select a security question. Your temporary password will then be emailed to you.



### Sign Up for Mobile Access

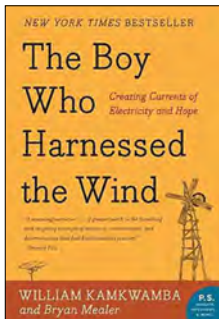
Download the free mobile app for your Apple or Android smartphone or tablet. Once you've downloaded the application, you'll be prompted to search by location or name. Click on name and search for your service provider, Kaua'i Island Utility Cooperative. Press the search key on your phone. Click on Kaua'i Island Utility Cooperative and select confirm. You will be prompted to create an account if you haven't already registered for SmartHub. If you already signed up, enter your email address and password.



# "Got Energy Literacy?"

By Carolyn Larson

*Knowledge is power. Līhu'e Public Library partners with KIUC to bring you a broad range of book titles on energy topics available through your Kaua'i neighborhood library. While promoting energy literacy, titles will cover many viewpoints and are not meant to reflect the policies of KIUC or the public library.*



## **The Boy Who Harnessed the Wind**

*Creating Currents of Electricity and Hope*

By William Kamkwamba and Bryan Mealer

**Call Number:** 621.31213 Ka

A hero for our age, author William Kamkwamba was born in Malawi, an African country where magic ruled and modern science was mystery. It was also a land withered by drought and hunger, and a place where hope and opportunity were hard to find.

Kamkwamba read about windmills in a book and dreamed of building one that would bring electricity and water to his village and change his life and the lives of those around him. Enchanted by the workings of electricity as a boy, his goal to study science in a boarding school was toppled when famine struck Malawi in 2002 and left his family destitute and unable to pay the tuition for his education. Kamkwamba was forced to drop out and help his family forage for food as thousands across the country starved and died.

But Kamkwamba gathered his science textbooks along with his curiosity and determination. Using scrap metal, tractor parts and bicycle halves, he forged a crude yet operable windmill that powered four lights for his family. A second machine turned a water pump that could battle the drought that loomed every season. Soon Kamkwamba's "electric wind" spread beyond the borders of his home, and the boy who was once called crazy became an inspiration to those around the world.

This well-told story is about wind energy and what one person, with an inspired idea, can do to tackle crises. It's about harnessing the power not just of the wind, but of imagination and ingenuity.

There are also children's versions of this book with the same title. 🌱



## **Considering a career in civil, mechanical or electrical engineering, construction management or architecture?**

# **SCHOLARSHIPS AVAILABLE**

### **Contractors Association of Kaua'i (CAK) Scholarship Program**

Applications available at Waimea High, Island School, Kaua'i High, Kapa'a High, Kamehameha Schools Kaua'i region office, Kaua'i Community College trades program staff, or by calling the Contractors Association of Kaua'i at (808) 246-2662.

### **Application deadline: Thursday, April 30, 2020**

Applicants: High school seniors intending to major in a construction related field of study, college undergraduates with a declared major in a construction field of study or post-graduate students doing advance degree work in a construction related field. Construction related field of study includes: civil, mechanical or electrical engineering, construction management, architecture, landscape architecture or design, construction trades.

# Where Are They Now?

By Beth Tokioka

Did you know the late Sen. Daniel K. Inouye had an affinity for Kaua'i's chickens? Neither did we until we sat down to catch up with Beau Acoba, an alumnus of KIUC's Youth Tour. Now a project specialist with Grove Farm Co., Beau recently shared with us what's happened since he traveled to Washington, D.C., with KIUC a decade ago.

**Tell us about your background. Where did you go to school/college? What year did you participate in Youth Tour?**

**BA:** I participated in Youth Tour in 2010 and graduated from Waimea High School in 2011. I attended the University of Oregon and graduated with a degree in journalism and communications.

**What made you interested in participating in Youth Tour?**

**BA:** My high school counselor urged me to apply. I looked into the program and talked with 2009 delegate Natasha Abadilla. It was a fantastic opportunity to go to our nation's capital, meet our representatives and learn about different energy cooperatives around the country.

**What do you remember most about the trip?**

**BA:** A memory I will always cherish was meeting the late Sen. Inouye. I was so nervous when we walked into his office. He sat us down in his chambers, and we talked about his hope for our generation to move Hawai'i in a positive direction, how much Hawai'i changed and his love for Kaua'i chickens.

**Wait ... what? Chickens?**

**BA:** He recalled a trip to the island shortly after Hurricane 'Iniki and said one of the main reasons for the chicken population explosion was because the storms blew over the chicken coops. He found them odd but fascinating creatures, and compared them to squirrels on the mainland. The end of the conversation came, and it felt like he was one of the uncles I used to talk story with outside of Kekaha Food Mart growing up.

**How has Youth Tour impacted your life in the ensuing years?**

**BA:** Youth Tour made me realize that everyone I meet has a different upbringing and view of the world. I met people that wanted to own a 100-acre grain farm, and I met a barrel race national champion, future doctors, engineers, etc. One common thing is that we all wanted to make some difference



2010 Hawai'i delegates, Beau Acoba, Taylor Langstaff, Morgan Azeka & Erin-Marie Navarro

in our community. All we needed was an encouraging shove from our workshop leaders and chaperones to get us moving in the right direction.

**Now you're back on Kaua'i. How does it feel to be back?**

**BA:** I love it here. Growing up, I knew I wanted to move back to Kaua'i. My grandpa would always give back to the community, whether it be his time volunteering or cooking for events. He would tell me, "No waste. No waste, your talents and your knowledge. Pass it on to the next generation like the ones before you." Now, I coach soccer at Island School and the club Onipa'a in Hanapepe. I also teach taiko drumming to kids on the west side. I'm still using the leadership skills I learned from Youth Tour to try and motivate the kids and young adults I teach.

**What do you enjoy most about working for Grove Farm?**

**BA:** In my current position at Grove Farm, I enjoy working with people trying to make Kaua'i more sustainable. Projects range from sustainable energy like solar, biomass, and hydroelectric power to educating students about STEM (science, technology, engineering and math) opportunities



here on the island to meeting farmers and ranchers providing Kaua'i with fresh meats and produce. We're an office of 13 at Grove Farm, so we're a close family. I truly believe this company has the best interest of the public and the island at heart.

**What are your future goals and plans?**

**BA:** I don't have my plans set in stone yet. I do know I want to buy a house on Kaua'i. Everything else I'm taking it day by day. As far as goals, I still want to be coaching soccer and teaching taiko drumming in the future.

**What do you think are the biggest challenges facing our community?**

**BA:** More housing, more sustainable energy projects and more agricultural opportunities need to happen to be a self-sufficient island, yet society gets uncomfortable with the unknown and refuses to adapt. Only the negative is seen in the beginning to suppress development, not realizing all the good that could come with it in the future.



*Beau Acoba with Youth Tour director Shelley Paik at a recent charity golf tournament on Kaua'i.*

**Can you share any words of wisdom with young people who are soon to graduate high school to pursue a career of some kind?**

**BA:** Don't feel the pressure to go to college. Trade school is just as important as a college education in some aspects. As long as you keep working to better yourself in whatever trade or degree you decide on, you'll be fine. 🌟



*The 2010 Kansas-Hawaii Youth Tour Delegation.*

**National Rural Electric Cooperative Association's Youth Tour to Washington, D.C., is one way KIUC invests in our youth. KIUC sends four students, selected via a rigorous application and interview process, on this trip of a lifetime to visit our nation's capital. Youth Tour participants are in their junior year of high school and return to Kaua'i as stronger leaders, confident they can make a difference.**



**American Red Cross**  
Hawaii



# Free Smoke Alarm Installation

You may have as little as  
**2 minutes**  
to escape a burning home  
**before it's too late**



**Want to help?**

**Join the effort**

**Call or go to**  
***[soundthealarm.org](https://redcrosshawaii.wufoo.com/forms/z12y8gbi170d9zc/)***

Every day, 7 people in this  
country will perish in a home fire.

A working smoke alarm can cut  
your risk of death in a house fire  
in half.

We will be installing free smoke  
alarms in homes from:

**March 1<sup>st</sup> to June 15<sup>th</sup>**

**3 easy ways to get your free smoke alarms  
installed by a Red Cross Volunteer**

1. **Call:**  
**808-245-4919**
2. **Online:**  
<https://redcrosshawaii.wufoo.com/forms/z12y8gbi170d9zc/>
3. **E-mail:** [padraic.gallagher@redcross.org](mailto:padraic.gallagher@redcross.org)

# Share Facts About COVID-19

Know the facts about coronavirus disease 2019 (COVID-19) and help stop the spread of rumors.

FACT  
1

Diseases can make anyone sick regardless of their race or ethnicity.

Fear and anxiety about COVID-19 can cause people to avoid or reject others even though they are not at risk for spreading the virus.

FACT  
2

For most people, the immediate risk of becoming seriously ill from the virus that causes COVID-19 is thought to be low.

Older adults and people of any age with underlying health conditions, such as diabetes, lung disease, or heart disease, are at greater risk of severe illness from COVID-19.

FACT  
3

Someone who has completed quarantine or has been released from isolation does not pose a risk of infection to other people.

For up-to-date information, visit CDC's coronavirus disease 2019 web page.

FACT  
4

There are simple things you can do to help keep yourself and others healthy.

- Wash your hands often with soap and water for at least 20 seconds, especially after blowing your nose, coughing, or sneezing; going to the bathroom; and before eating or preparing food.
- Avoid touching your eyes, nose, and mouth with unwashed hands.
- Stay home when you are sick.
- Cover your cough or sneeze with a tissue, then throw the tissue in the trash.

FACT  
5

You can help stop COVID-19 by knowing the signs and symptoms:

- Fever
- Cough
- Shortness of breath

Seek medical advice if you

- Develop symptoms

AND

- Have been in close contact with a person known to have COVID-19 or if you live in or have recently been in an area with ongoing spread of COVID-19.



For more information: [www.cdc.gov/COVID19](http://www.cdc.gov/COVID19)



**Know what's below.  
Call before you dig.**

*Our crew had to dig out a manhole cover that was covered with landscaping in order to work on an underground fault. When access to our facilities is blocked by shrubs, fences, walls or other landscaping, it takes precious time away from restoring power.*

# Responsible Planning, Planting and Pruning— Don't Just Look Up, Call Before You Dig!

**By Shelley Paik**

Trees are beneficial in many ways. They can beautify your landscape and provide shade but can also pose a potential hazard to your electrical service. This is especially true when tall, fast-growing trees are planted under or right next to power lines. KIUC spends more than \$1 million annually on tree trimming.

Vegetation grows quickly on Kaua'i, where rainfall averages 41 inches per year. Dense foliage, trees, shrubs and hedges make it difficult to get to power lines or electrical equipment to repair or maintain them and make the already difficult job of maintaining our system even more hazardous to line crews.

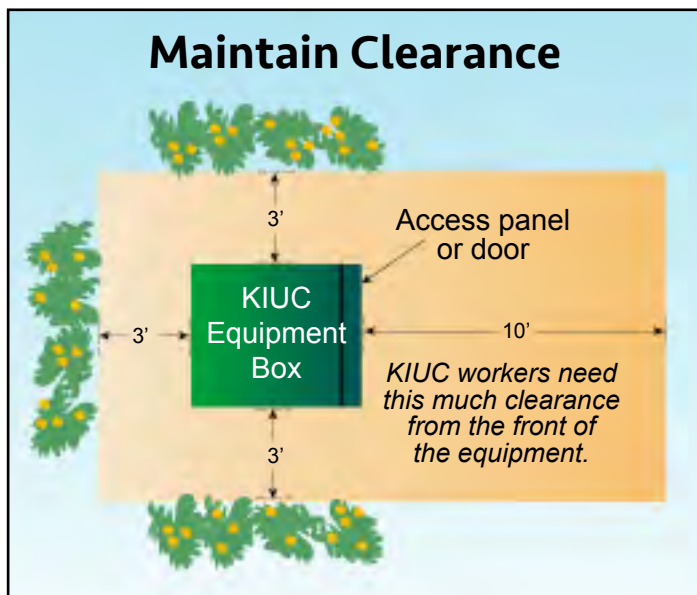
Bad weather such as heavy winds and torrential rains can blow tree branches and other debris onto power lines, cause extended outages and sometimes take down utility poles.

Trees growing under or near power lines could create a potential path for electricity to travel to the ground. People who encounter this path—by touching, climbing, trimming or cutting down the trees—put themselves at risk of being electrocuted or receiving electrical burns. Trees don't have to physically touch an energized power line to be dangerous. Electricity can arc from the power line to nearby trees and cause a fire or electrocution. Arcing can cause power outages. In dry weather conditions, leaves or branches touching lines can catch fire.

If property owners have trees planted under or near power lines, they should contract a certified tree trimmer to remove them.

Underground utilities can be at risk when you're digging and planting trees. To make sure you do not accidentally dig into any lines and risk serious injury, death or a costly outage, never assume utility lines are buried deeper than you plan to dig.

Call 811 or the Hawai'i One Call Center toll free at 1-866-423-7287 at least five days before you dig. 🌱



### ***Tree-related power outages are more than an inconvenience. They can be deadly.***

Always look for nearby power lines before cutting down a tree. Treat all power lines as energized. Never climb or attempt to cut a tree that has a limb caught in a power line. You may not see any visible evidence the tree is electrified or dangerous. Property owners should never cut trees that could reach a power line. Maintain clearances between any equipment and power lines. If equipment comes into contact or a tree falls onto a power line, stop, stay clear, and call 911 or KIUC!

### ***What You Can Do to Help***

Property owners can help prevent potential power outages. If you're planting trees on your property, don't plant them under the power lines or near electrical equipment. Shrubs, hedges and other plants should be kept away from utility poles and the area around electrical equipment. There should be a 10-foot clearance on the front (open) side of a transformer—a green or gray box on a cement slab—and a 3-foot clearance on all other sides from fences, shrubs and structures.



# Mahalo, KIUC

To our generous donors  
at Share Aloha Foundation,  
We at KMHA would like  
to thank you for support-  
ing our Healing Mental  
Health Art projects

Here's looking forward to  
another wonderful year  
of partnerships,  
Mahalo,  
Bel

To: the KIUC  
Aloha Committee

# THANK YOU!

for helping us  
preserve our  
uniforms!

2019 Waimea High School B  
David Leong



West Kauai Business & Professional Association  
a 501(c)(6) Organization



## MAHALO TO ALL OF OUR 2019 HOLIDAY SPONSORS AND DONORS

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County of Kauai, Beck's Hybrids, Garden Island Disposal, Gay and Robinson, Inc., Hartung Brothers, Paradise Lua, Pioneer HI-Bred International, Inc., The Tow Truck, LLC.

### SILVER FLAKE:

KIUC, Waimea Shell Station, Castle and Cooke, Waimea Subway, Gather FCU.

### CRYSTAL FLAKE:

Aunty Liliko'i, M and H Service, Umi's Store, Shrimp Station, Times Big Save, Rose's Sea Shell Diamond Gallery, Inc.

### SNOW FLAKE:

Aloha n Paradise

### REFRESHMENT DONORS:

KVMH, Kauai Kookie, Mane Event, Ocean Amulet

Thank you  
-Pauline R

Mahalo Nui Loa  
for keeping  
the music alive!  
-Sam BOSHICK

Thanksss!  
-vittu  
-Alyson

Thank you!  
-Jenna

Thank you!  
-Hana Mangrubs

Thank you!  
-Rachel

Thank you!  
-Chloe

Thank you!  
-Sarah

Thank you!  
-Nick H

Thank you so much  
-Zobe Ritz Aguilar

Thank you!  
-Dianne

Thank you  
-Jillian

Thank You  
-Crystal

Thank you!  
-John  
-Bueno

Thank you  
-Lillian

Thank You  
-Crystal



Waimea Project Grad  
 P.O. Box 952 • Waimea, HI 96796  
 • Email: [waimaprojgrad@gmail.com](mailto:waimaprojgrad@gmail.com)  
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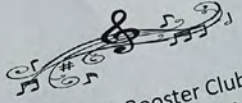
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January 20, 2020

Ka...

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## KMS Choir Booster Club

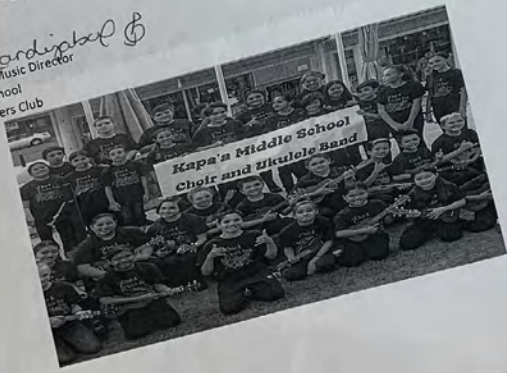
PO Box 1493, Kapa'a, HI 96746

Kaua'i Island Utility Cooperative  
 4463 Pahee Street Suite 1  
 Lihue, HI 96766

Our sincere mahalo from the Kapa'a Middle School Choir & Ukulele Band for your generous donation to support our music program through the Sharing of Aloha Grant. Our hearts are filled with much appreciation from our community. Thank you for believing in our keiki and showing your support for a wonderful group of students. Your donation will be used to help cover expenses for the students who will represent our island of Kauai in March 2020 at the Worldstrides Music Festival in Anaheim, California. This festival showcases their love for music and our island culture.

Please accept this letter as a receipt for your generous donation. KMS Choir Booster Club is an exempt organization as described in Section 501c3 of the Internal Revenue Code. No goods or services were provided in exchange for this donation.

Mahalo nui loa,  
*Mary Lardabal*  
 Mary Lardabal, Music Director  
 Kapa'a Middle School  
 KMS Choir Boosters Club



December 24, 2019

KIUC  
 4463 Pahee St #1  
 Lihue, HI 96766

To the kind people of KIUC leadership,

On behalf of all the families served by Nana's House in Waimea, I would like to thank you for approving our application for the Share the Aloha grant. We are so very grateful for your generosity and your continued support of the people in our community who are in need.

Last month, Nana's House held a Family Fun Night. Our activity included a decorating contest and a spaghetti dinner. We, through your generosity, had 58 participants, 6 volunteers and 11 staff members. The turkey contest was a family project that had parents and children coming together to decorate a picture of a turkey with various craft materials to make turkey tails. Through community donations, all participants were able to complete their hard work.

Enclosed photos of our event which include volunteers and staff members. We would like to say mahalo for your support of Child and Family Service and Nana's House.

Child & Family Service  
 Manager

"About FAMILY"  
 Promoting and Fostering the Healthy Development of Children

# A Taste of Spring

## Roasted Beets and Blueberry Salad

- 1 package spring mix lettuce, washed and dried
- 1 cup blueberries
- 2 cups sliced roasted beets
- ¾ cup feta cheese
- ½ cup coarsely chopped honey chipotle roasted almonds

### **Dressing**

- 2 tablespoons honey
- ¼ cup balsamic vinegar
- ½ cup olive oil

In a large bowl, layer the lettuce, blueberries, beets, feta and almonds. In a jar or salad dressing container, combine honey, balsamic vinegar and olive oil. Shake well and serve with salad.



## Caprese Skewers

- 1 tray grape or cherry tomatoes
- 1 bunch basil
- Ciliegine mozzarella or mozzarella cut into bite-sized pieces
- Balsamic vinegar reduction
- Serving skewers

On a skewer, place a tomato followed by a basil leaf and then a piece of mozzarella. Arrange on platter and drizzle with balsamic vinegar reduction. Serve.

## Roasted Veggies

- 1 head broccoli, chopped into 1½-inch pieces
- 1 head cauliflower, chopped into 1½-inch pieces
- 1 tray mushrooms, sliced
- 1 zucchini, cut in half and sliced
- 1 bulb of garlic, cleaned and crushed
- Sea salt
- Fresh ground pepper
- ½ teaspoon paprika
- ½ teaspoon onion powder
- ½ teaspoon garlic powder
- ¼ cup olive oil

Heat oven to 375 F. Combine the paprika, onion and garlic powder with the olive oil. In a large baking pan, combine vegetables and drizzle with oil mixture. Bake for 45 minutes, stirring the mixture about halfway through. Sprinkle with salt and pepper.





## Salami, Egg and Veggie Tri-Colored Pasta

Tri-colored pasta	1 crown broccoli
Salami or Canadian bacon	Vegetables of choice, such as bell peppers and zucchini
Olive oil	
1 onion, chopped	Parmesan cheese
3 hard-boiled eggs, cut into quarters	

Boil water and cook pasta. Add broccoli to pasta and blanch for two minutes. Drain pasta and broccoli in a colander. In a separate pan, sauté onion with salami or Canadian bacon in olive oil on low heat until golden brown. Add vegetables.

Place pasta, broccoli, onion, vegetables and salami in a large bowl. Toss. Garnish with eggs and top with Parmesan cheese.



## Veggie Kabobs

- 1 zucchini, quartered and cut into 1-inch pieces
- 1 summer squash, quartered and cut into 1-inch pieces
- 1 red bell pepper, cut into 1-inch pieces
- 1 yellow bell pepper, cut into 1-inch pieces
- 1 yellow bell pepper, cut into 1-inch pieces
- 1 tray mushrooms, washed and cut in half
- 1 tray tomatoes
- Bamboo skewers
- Olive oil
- Sea salt
- Ground pepper

Soak skewers in water while cutting vegetables. Place vegetables in any combination on the skewers. Brush with olive oil and sprinkle with salt and pepper. Grill until vegetables are charred or to your desired doneness.

*Contributed by Stacy Ricciardi*



## Furikake-baked Salmon Over Quinoa and Fresh Spinach

1 slab salmon	2 teaspoons mayonnaise
½ cup nori furikake	Cooked quinoa
¼ cup Veri Veri teriyaki sauce	Fresh spinach, washed and dried
Wasabi, to taste	

Heat oven to 400 F. Generously coat salmon with nori furikake and bake. Heat teriyaki sauce in microwave.

In a bowl, mix mayonnaise with wasabi. Place mixture in a plastic baggie. When the salmon is cooked, pour teriyaki sauce on top. Cut corner of baggie and drizzle mayonnaise wasabi mixture.

Serve by layering spinach, quinoa and salmon.

*Contributed by Stacy Ricciardi*

# Statement of Operations

For the period 01/01/2020 – 01/31/2020

We are pleased to report the KIUC results of operations through January 31, 2020, are favorable. The year-to-date electricity usage on the island is 0.4% higher than in the prior year. Even with the slight increase in sales volume, KIUC is still doing everything we can, while maintaining safety and reliability, to reduce costs in various areas in order to operate efficiently and effectively and continue to maintain a strong financial position. Revenues, expenses and net margins totaled \$13.4 million, \$12.0 million and \$1.4 million, respectively, for the one-month period ending January 31, 2020.

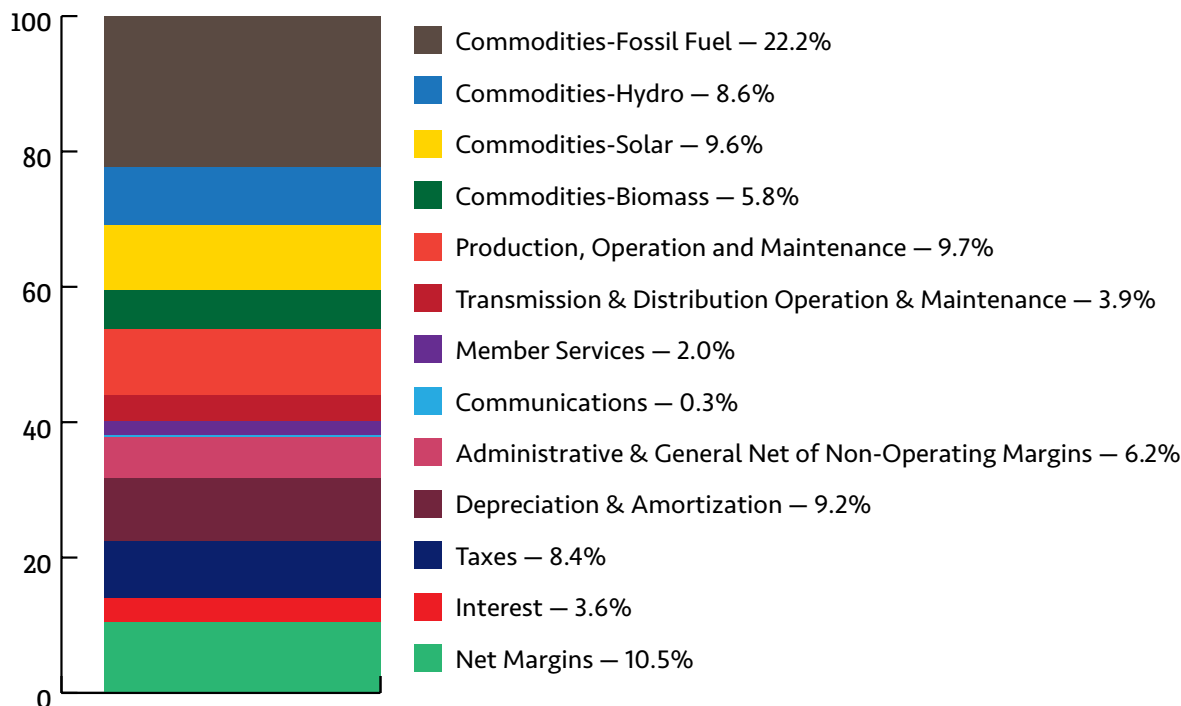
As is the case for all electric utilities, the cost of power generation is the largest expense, totaling \$7.5 million or 55.9% of revenues. Commodities, which are fuel and purchased power costs, are the largest component of power generation, totaling \$6.2 million or 46.2% of revenues. Fossil fuel is the largest component of commodities, totaling \$3 million or 22.2% of revenues. Other commodities include hydropower, totaling \$1.1 million or 8.6% of revenues; solar power, totaling \$1.3 million or 9.6% of revenues; and biomass power, totaling \$0.8 million or 5.8% of revenues. The

remaining \$1.3 million or 9.7% of revenues represents the cost of operating and maintaining the generating units.

The cost of operating and maintaining the electric lines totaled \$0.5 million or 3.9% of total revenues. The cost of servicing our members totaled \$0.3 million or 2% of revenues. The cost of keeping our members informed totaled \$0.04 million or 0.3% of revenues. Administrative and general costs, which include legislative and regulatory expenses, engineering, executive, human resources, safety and facilities, information services, financial and corporate services, and board of director expenses, totaled \$0.9 million or 6.4% of revenues.

Being capital intensive, depreciation and amortization of the utility plant costs \$1.2 million or 9.2% of revenues. Although not subject to federal income taxes, state and local taxes amounted to \$1.1 million or 8.4% of revenues. Interest on long-term debt, at a favorable sub-5% interest rate, totals \$0.5 million or 3.6% of revenues. Non-operating net margins added \$0.03 million to overall net margins. Revenues less total expenses equal margins of \$1.4 million or 10.5% of revenues. Margins are allocated to consumer members and paid when appropriate. 🌱

## PERCENTAGE OF TOTAL REVENUE



# Shaping Our Future: 2020 Decennial Census

*By Annie Sokol, partnership specialist, U.S. Census Bureau*

Every 10 years, the United States constitution mandates we conduct a population count for the purpose of reapportionment of congressional seats, redrawing of legislative districts and the distribution of more than \$675 billion of federal funding across states, counties and communities each year for the next decade.

The census touches many aspects of our lives. It affects services we rely on, such as healthcare for our kupuna, quality education for our keiki, loans or grant opportunities for college students, transportation, employment opportunities, disaster relief and many other services that benefit us all. Therefore, it is our civic duty to participate and encourage others to respond to the 2020 census. Everyone living in the United States beginning mid-March 2020, regardless of citizenship status, is counted.

Responding to the 2020 census is easier than ever. For the first time, you can complete the census online. You can also complete the census by phone, or by filling out a paper questionnaire. Beginning in mid-March, the Census Bureau encourages everyone to self-respond when they get their invitation in the

Help your community get the funding it needs for programs and services like the Supplemental Nutrition Assistance Program, or SNAP, Medicaid, health clinics, education, and much more.

Complete the 2020 Census online, by phone, or by mail. It's easy, safe, and important.



For more information, visit:  
**2020CENSUS.GOV**

mail to respond to the 2020 census. Self-response is easy and convenient because you can do it on your own time instead of waiting for an in-person interview from a census taker.

Taking the census is safe and confidential. Your answers are protected by Title 13 of the U.S Code. Your responses are used for statistical purposes only, and your personal identifiable information is not disclosed or shared with other government agencies. Disclosing any protected information by an employee can result in a fine of up to \$250,000 and/or up to five years in prison.

The Census Bureau is working with partner organizations in Kaua'i to encourage everyone to respond. There are many ways organizations can support the count. You can host census events, such as a Mobile Questionnaire Assistance events, and post information on your website and social media channels.

The goal is to count everyone only once and in the right place. Please respond to the 2020 and let us shape our shared future together. It starts with the 2020 Decennial Census.

To learn more about the census, go to <https://2020census.gov>.

Spring 2020  
Volume 17, Number 1

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