

Summer 2023

Kaua'i Island Utility Cooperative

# CURRENTS

Celebrating the Anahola Service Center!



**Inside:**

*Keiki Safety Quiz  
Driving an EV Truck*



# Aloha Island Team



## KAREN L. AGUDONG, REALTOR(B)

RB-17447

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



### 3535 WAHA ROAD, KALAHEO

2 HOMES with gorgeous OCEAN VIEWS in Kalaheo!

#### FRONT HOME FEATURES:

- 3 bed, 1 bath interior (with additional toilet, sink and shower in garage)
- Large Picture windows with gorgeous ocean views
- Hardwood floors
- Master Bedroom with window A/C and sliding door leading to enclosed lanai
- 2 Car Oversized garage with storage
- Large Storage area underneath house



#### BACK HOUSE

- Sold fully furnished
- 1 bed, 1 bath inside
- Beautiful Ocean Views!
- Enclosed Lanai off of the living room, facing the ocean
- 2 Car Garage (one side is not enclosed) with Laundry room, sink and ½ bath
- outdoor shower with hot water

\$1,275,000(fs)



### 3497 KAKELA MAKAI DRIVE, KALAHEO

Gorgeous Custom built one of a kind 3 bedroom 3 bath home on 2.94 acres with Stunning ocean views and distant coffee field views! So many upgrades and features. Includes Private Swimming Pool with lounge shelf, Photovoltaic system, Air conditioned and Fully fenced yard. This beautiful home with breathtaking views is a must see. \$3,240,000(fs). Call: Lori Finch(RS) (808) 639-7022 or Karen L. Agudong, REALTOR BROKER (808) 652-0677.



### ISLANDER ON THE BEACH #241

Gorgeous fully furnished condo with Ocean and Pool Views! Beautifully decorated in Hawaiian style decor. Includes kitchenette with microwave, small refrigerator, sink, coffee pot and kitchenware. Sold Fully furnished. Almost Oceanfront property located along the gorgeous Coconut Coast in Kapaa with direct access to the bike and walking path along the ocean. \$545,000(fs).



# SOLD

### 6506-A KIPAPA ROAD- HOUSE AND GUEST HOUSE ON 1.5 ACRES

House and Guest House on 1.5 acres! 3 bedroom home with a beautiful and very private back yard. High ceilings and large picture windows. Includes a separate Guest house of approximately 500 sf, separated by trees and surrounded by lush greenery in the back. \$1,100,000(fs). Tenants have a lease through September 2023. Call: Karen L. Agudong, REALTOR(B) (808) 652-0677.

EXP REALTY • KAREN L. AGUDONG • MAILING ADDRESS: PO Box 3255, Līhu‘e, HI 96766

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

KAREN L. AGUDONG, REALTOR(B) "ALOHA ISLAND TEAM" EXP REALTY (808) 652-0677.

Branch Office Address: 4210 Hanahao Place Ste 203, Līhu‘e, HI 96766

# Kaua'i Island Utility Cooperative *Currents*

Cover Story  
Page 16



Page 28



Page 26



Chairman's Message ..... 4

Board Actions ..... 5

Storm Hardening:  
Hurricane Preparedness..... 7

KIUC Cares—  
Energy Assistance Programs ..... 9

You're Part of the Co-op Movement . . 10

Strategic Safety Plan ..... 12

Arc Flash Prevention and Safety ..... 13

KIUC Leads the Way ..... 14

Annual Fuel Mix Disclosure ..... 15

A Blessing for  
Anahola Service Center ..... 16

Are You Ready for a Storm? ..... 18

Congratulations, Graduates..... 20

Where Are They Now? ..... 24

Light Summer Fare ..... 26

JOY RIDE: Ford F-150 Lightning  
All-Electric Truck. .... 28

The Keiki Zone ..... 30

Statement of Operations ..... 31

**EDITOR**

Beth Amaro

**CONTRIBUTORS**

Stacie Dellamano, Dee Crowell, Amy J. Doubet, Cal Murashige, Shelley Paik, Jennifer Paton, Allan A. Smith, Allison Young, Peter Yukimura

**ON THE COVER**

Participating in the blessing of the Anahola Service Center on April 28 are from left, Kahu Wayne Vidinha, KipuKai Kualii, Kali Watson, David Bissell and Allan Smith.

**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 [kiuc.coop](http://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 [kiuc.coop](http://kiuc.coop) under News and Currents.

KIUC is an equal opportunity provider and employer.

# Chairman's Message

Living on an island with a relatively small population makes it easy to know our neighbors and treat each other with aloha. We are nice and decent people who really care about what is true. As a cooperative, KIUC represents you as members. The Ho'oka'ana Waiwai shared value of kupo means KIUC is committed to treating members with fairness, integrity and honesty.

KIUC works hard to share information important to our members through a variety of outlets. Whether you prefer your news online, printed on paper, or you like to talk story on the phone or in person, there are multiple ways to get accurate and timely information directly from the source:

- ❖ Find us at local events, school functions and delivering presentations for organizations.
- ❖ Currents magazine, which you are reading, is published quarterly and is one of the few remaining print resources on Kaua'i. It contains relevant news about KIUC and the community.
- ❖ Visit our website at [kiuc.coop](http://kiuc.coop) for a wide variety of information.
- ❖ Use the SmartHub app to manage your account, receive notifications and more.
- ❖ Sign up for email:
  - ♦ Residents can sign up for informational emails on the home page of our website.

- ♦ Commercial members can sign up for our Questline newsletter by contacting our Energy Services team: [energyservices@kiuc.coop](mailto:energyservices@kiuc.coop).

- ❖ Follow us on social media: Facebook, Instagram and Twitter.
- ❖ Call Member Services at 808.246.4300 during business hours.

One of the best ways to interact with KIUC and receive the latest updates is by attending the annual membership meeting. I'm excited to say that for the first time since the pandemic began, we will be holding the meeting in person. Please mark your calendars and join us:

## **KIUC Annual Membership Meeting**

Thursday, July 20

5:30-8:30 p.m.

Kaua'i Philippine Cultural Center  
4475F Nuhou Street, Lihu'e, HI

We look forward to seeing you there!  
Mahalo nui loa,  
*Allan A. Smith*



## Calling all Student Artists! It's time for the 2024 Calendar of Student Art!!

KIUC will be accepting artwork submissions for the 2024 calendar electronically. No physical submissions will be accepted, but most of our traditional rules apply.

For more information, please visit the Calendar of Student Art page on KIUC's website [kiuc.coop/calendarcontest](http://kiuc.coop/calendarcontest).

**The deadline is Wednesday, October 11, 2023.**

**Kaua'i Island  
Utility Cooperative**  
Your Touchstone Energy Cooperative

# Board Actions

*Below is a summary of some of the actions taken by the KIUC Board of Directors from March to April 2023.*

## March 27, 2023

Motion carried, Policy No. 22: providing information to directors.

Motion carried, Policy No. 27: communications by directors to the public.

Motion carried, Resolution No. 02-23: indenture debt ceiling.

Motion carried, approval of new term dates and new loan review committee members.

Motion carried, approval of exhibit two of the revolving loan fund plan regarding for-profit and not-for-profit interest policy.

## April 27, 2023

Motion carried, new staff position appointment to the CFB: Erin Tsuda, KIUC finance manager.

Motion carried, guidelines for hiring a new CEO.

Motion carried, Policy No. 5: conflicts of interest.

Motion carried, Policy No. 13: community and economic development.

Motion carried, board approval request: GT1 exciter replacement.

Motion carried, board approval request: KPS OTSG tube replacement.

## BON DANCE SCHEDULE

June 9 & 10	Kapa'a Hongwanji Mission
June 16 & 17	Kaua'i Soto Zen Temple Zenshuji
June 23 & 24	West Kaua'i Hongwanji Mission
<i>June 30 &amp; July 1 (No Bon Dance)</i>	
July 7 & 8	Lihu'e Hongwanji Mission
July 14 & 15	Waimea Shingon Mission
<i>July 21 &amp; 22 (No Bon Dance)</i>	
July 28 & 29	Waimea Higashi Hongwanji





## American Red Cross Pacific Islands Region

# Become a volunteer for The American Red Cross!

Volunteers carry out 90% of the humanitarian work of the Red Cross. Whether helping one displaced family or thousands, providing care and comfort to an ill or injured service member or veteran, or teaching others how to respond in emergencies, it's through the efforts of ordinary people that we can do extraordinary things. The Red Cross responds to an emergency every eight minutes, and our vital work is only possible because of people like you.



### How can you help?

#### Available High Need Positions: Kauai

**Disaster Action Team Member (DAT)**—Disaster action team members are second responders who provide 24-hour emergency response to local disasters, particularly house fires, ensuring that those affected have access to resources for basic necessities, such as food, shelter and clothing.

**Emergency Evacuation Shelter Worker**—Shelter service associates are assigned to work in person in a Red Cross shelter before, during and/or after a disaster event. They complete tasks necessary for shelter operations and interact with clients to ensure their needs are met. They support the day-to-day activities within a shelter, which can include working in reception, registration, feeding, dormitory, information or other areas.

**Disaster Preparation Team Member**—Team members work in our community to teach and help others prepare for disasters before they strike. Our teams install free fire alarms for those in our community who need them and teach individuals how to safely evacuate their homes in two minutes or less. They also work with children in grades K-5, teaching them how to escape home fires and remain calm in disaster situations.

Scan with cell phone  
camera to Apply



OR go to:  
[redcross.org/volunteer](https://redcross.org/volunteer)

To learn more, please contact our Sr. Volunteer Recruitment Specialist:

[Mary.finley@redcross.org](mailto:Mary.finley@redcross.org)  
808-284-6849

# Storm Hardening: Hurricane Preparedness

By Dee Crowell

Last year, Kaua'i marked the 30th anniversary of Hurricane 'Iniki. Many of our members vividly remember the physical and personal damages caused by the storm, as well as the extended period of time without electricity.

I remember at night in Waimea, everyone had generators to power their lights and refrigerators for a few hours. At 9 p.m., the generators would go off, and it was really quiet. I was inspired that everyone put their noses to the grindstone and got back to work instead of feeling sorry for themselves. We had gone through this before with Hurricane Iwa in 1982 and knew life goes on.

A lot has changed since 1992. Local community members bought Kaua'i Electric Co. in 2002, and it became a member-based, not-for-profit cooperative. Originally, community members were motivated to gain more autonomy over utility operations and rates. Throughout the years, diversifying power sources to improve reliability and address climate change concerns also became a priority.

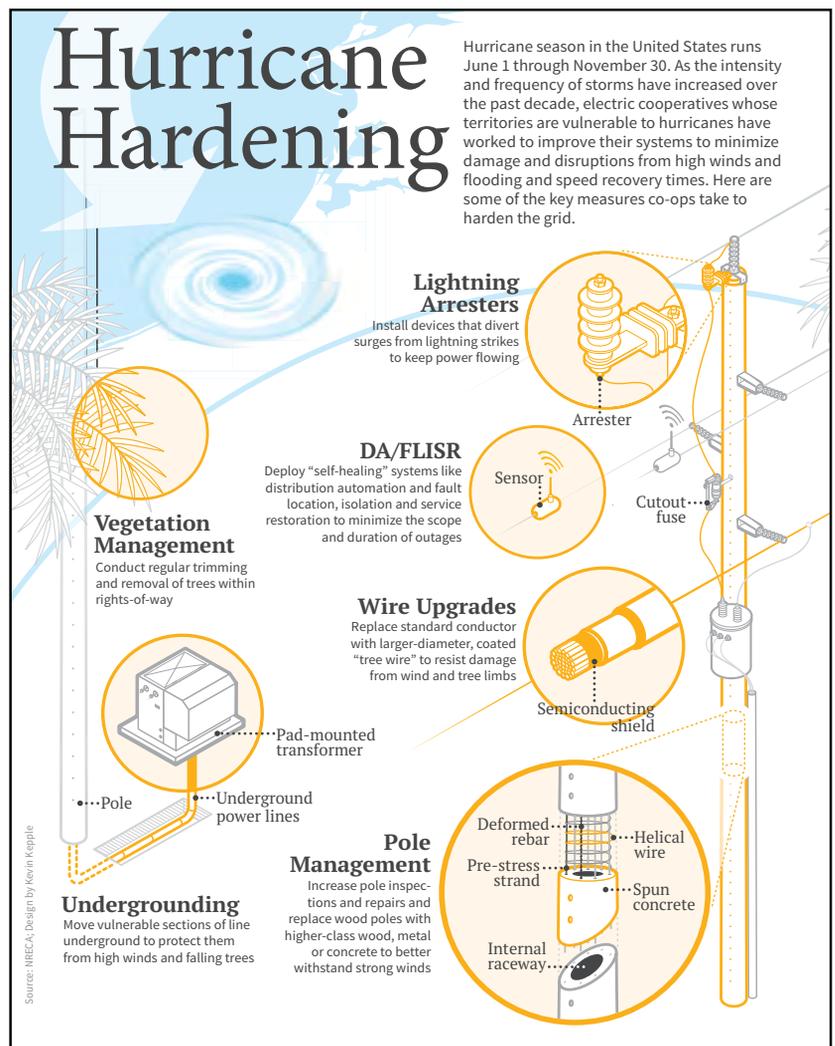
June 1 marks the start of hurricane season. Many weather experts think 2023 may be an El Niño year, which could produce more hurricanes. Turn to page 18 for hurricane preparedness tips.

KIUC has worked on *storm hardening*—physical improvements that can make utility infrastructure more resistant to weather—to increase resiliency and reliability in the event of a severe storm in the following ways:

- ❖ Diversified power sources from solar, hydro and biomass, and added KIUC's largest conventional generating unit (Kapaia Power Station).
- ❖ Upgraded 80% of transmission circuits to steel poles, which are stronger than wood. Twenty percent of the remaining transmission circuits on wood poles have storm guy wires.
- ❖ Increased size standards for all wood poles.
- ❖ Moved KIUC's administrative offices to Lihu'e in a hurricane-resistant building.
- ❖ Instituted use of satellite phones, which allow staff to communicate in times of crisis.

- ❖ Deployed IT infrastructure, such as advanced metering infrastructure and an outage management system, which automatically sends the co-op information about outages rather than having to physically inspect each one.
- ❖ Signed a memorandum of understanding with Hawaiian Electric Co. to mutually assist each other in the event of an emergency.

KIUC has reported some of the best reliability statistics in the state in recent years. We are always seeking ways to improve technology, infrastructure and communication. Planning and preparing for all types of catastrophic events is just one of the many tasks our staff works on to continue to provide the best service to our members. 🌍





**SAVE THE DATE**

16th Annual  
**NEVER FORGET  
SANDY G.**  
Golf Tournament

Sunday, August 6, 2023  
The Ocean Course at Hōkūala

eliminating racism  
empowering women

**ywca**

Kaua'i

# KIUC Cares— Energy Assistance Programs

By *Peter Yukimura*

KIUC truly cares. Our member services division has representatives who work every day to serve members with all of their questions and service needs.

Recently, three of our representatives, Giselle Bucao (who has since moved to accounting), Gezmynn Viquelia and Makani Taniguchi received a discouraging note from a member about her high electric bill and how it was negatively affecting her life. After a home energy audit, where Makani was able to speak to the member face-to-face and share ways to reduce her bill, the member was truly grateful for the personalized assistance she received.

In addition to going above and beyond to provide excellent service, KIUC has a range of programs to help our members manage their energy use and stay current in their billing.

## **SmartHub**

Analyze your energy use by the hour, day or month, and find ways to reduce your consumption using the tools in SmartHub. SmartHub has useful features such as automated payments, outage notifications and going paperless. Fifty-six percent of KIUC members are enrolled in SmartHub. If interested, visit [kiuc.smarthub.coop](http://kiuc.smarthub.coop) or download SmartHub in your mobile app store.

## **Low Income Home Energy Assistance Program (LIHEAP)**

LIHEAP is a federal program that provides qualifying low-income households with a one-time credit paid directly to KIUC to help with energy costs. Applicants may apply once per program year for one of two types of credit: energy credit or emergency crisis intervention.

❖ **Energy credit:** Applications are only accepted in **June**.

The applicant must have an active electric account.

❖ **Emergency crisis intervention:** Applications are accepted throughout the year, and applicants must meet the same criteria as the energy credit. The purpose of emergency crisis intervention is to restore or prevent disconnection of electric service at the current residence.

Find eligibility requirements and application information for LIHEAP at [humanservices.hawaii.gov/bessd/liheap/](http://humanservices.hawaii.gov/bessd/liheap/)



*From left, KIUC member services representatives Giselle Bucao, Makani Taniguchi and Gezmynn Viquelia*

Kaua'i Economic Opportunity is accepting applications in June for LIHEAP. Call KEO at 808.245.4077 ext. 242 or email [liheap@keoinc.org](mailto:liheap@keoinc.org).

## **Catholic Charities Hawai'i Utility Assistance**

Funded by the KIUC Charitable Foundation, this program helps Kaua'i families and individuals with a one-time credit once every 12-month period. Low income is 300% of the poverty level. The maximum subsidy may not exceed \$300.

To apply or for more information, call Catholic Charities Hawai'i at 808.241.4673.

## **Give the Gift of Energy**

During challenging times or just as a practical gift, the Gift of Energy is something you can give, for any occasion. You can make a payment toward a friend or family member's energy bill as long as the recipient is a KIUC member.

To give the Gift of Energy, visit [kiuc.coop/gift-energy](http://kiuc.coop/gift-energy). You can give any amount if you have a specific recipient in mind. If you don't have a specific someone in mind, but wish to help a KIUC member with electric payments or support local nonprofit organizations, you can donate to the KIUC Charitable Foundation's Makana Program.

Your KIUC Gift of Energy is applied as a credit to the member's KIUC electric account. We will send you an acknowledgement letter when the payment has been applied. Please allow two business days for processing. This gift is not tax-deductible. ☺

# You're Part of the Co-op Movement

by Allison Young

Did you know that as a member of KIUC, you are part of the cooperative movement happening in Hawai'i, across the United States and around the world?

KIUC was formed as a co-op in 2002. It is now one of almost 900 electric co-ops and one of 40,000 co-ops in the United States!

Starting with a co-op business model means serving the community. Over time, this model propelled KIUC to become a utility that provides the cleanest, most reliable and lowest-priced electricity in Hawai'i.

In addition to these accomplishments, KIUC can be depended upon to give back to its members through participation at local events, youth programs, sponsorships and charitable donations.

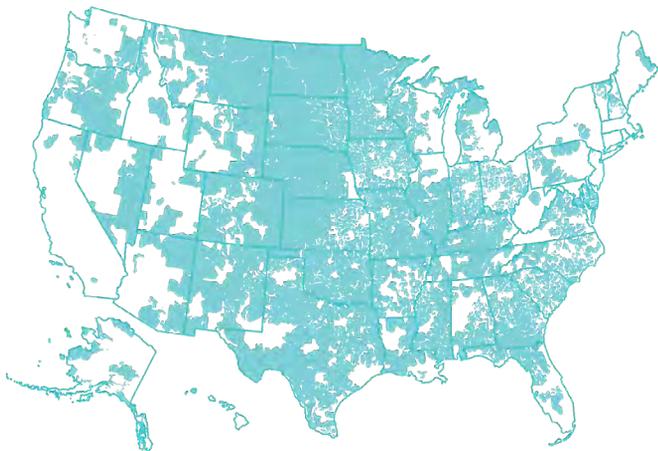
KIUC frequently convenes with other electric co-ops at National Rural Electric Cooperative Association events to stay up-to-date on new technology, issues affecting utilities and skills needed for employees. NRECA represents 895 distribution, generation and transmission co-ops from around the country.

"The cooperative business model is the best business model on earth," says Adam Schwartz, founder of The Cooperative Way and a frequent speaker at NRECA events. "There's a co-op for everything you can imagine."

There are many examples of different types of cooperatives:

- ❖ **Consumer co-ops** are owned by the members who use the co-op to buy the goods or services that they need. KIUC is a member-owned cooperative.
- ❖ **Worker co-ops** are owned by their employees to provide themselves with employment and full control of their work environment.
- ❖ **Financial/credit unions** provide a full range of financial and insurance services. They often offer lower interest car loans and mortgage rates than traditional banks.
- ❖ **Producer co-ops** are owned by people who produce similar types of goods or services to negotiate prices more effectively and to access larger markets, such as farmers.
- ❖ **Purchasing/shared services co-ops** combine member demand to achieve better pricing, availability, and delivery of products or services.
- ❖ **Housing co-ops** are owned by people who wish to provide and jointly own their housing.
- ❖ **Mutual/insurance co-ops** are owned by policy holders.

For more information about the cooperative movement, or if you are interested in starting a co-op business, visit [ica.coop](http://ica.coop) or [start.coop](http://start.coop). 🌐



*Co-ops power 56% of the nation's landmass and serve 42 million people, including 92% of persistent poverty counties in 48 states.*



*There are approximately 40,000 co-ops in the United States.*

# UNDERSTANDING THE SEVEN COOPERATIVE PRINCIPLES

Cooperatives around the world operate according to the same set of core principles and values, adopted by the International Co-operative Alliance.

These principles are a key reason why America's electric cooperatives operate differently from other electric utilities, putting the needs of our members first.



## VOLUNTARY AND OPEN MEMBERSHIP

Membership in a cooperative is open to all people who can reasonably use its services and stand willing to accept the responsibilities of membership, regardless of race, religion, gender or economic circumstances.



## DEMOCRATIC MEMBER CONTROL

Cooperatives are democratic organizations controlled by their members, who actively participate in setting policies and making decisions. Representatives (directors/trustees) are elected among members and are accountable to them. In primary cooperatives, members have equal voting rights (one member, one vote); cooperatives at other levels are organized in a democratic manner.



## MEMBERS' ECONOMIC PARTICIPATION

Members contribute equitably to, and democratically control, the capital of their cooperative. At least part of that capital remains the common property of the cooperative. Members allocate surpluses for any or all of the following purposes: developing the cooperative; setting up reserves; benefiting members in proportion to their transactions with the cooperative; and supporting other activities approved by the membership.



## AUTONOMY AND INDEPENDENCE

Cooperatives are autonomous, self-help organizations controlled by their members. If they enter into agreements with other organizations, including governments, or raise capital from external sources, they do so on terms that ensure democratic control as well as their unique identity.



## EDUCATION, TRAINING AND INFORMATION

Education and training for members, elected representatives (directors/trustees), CEOs and employees help them effectively contribute to the development of their cooperatives. Communications about the nature and benefits of cooperatives, particularly with the general public and opinion leaders, help boost cooperative understanding.



## COOPERATION AMONG COOPERATIVES

By working together through local, national, regional and international structures, cooperatives improve services, bolster local economies and deal more effectively with social and community needs.



## CONCERN FOR COMMUNITY

Cooperatives work for the sustainable development of their communities through policies supported by the membership.

THESE ARE  
THE WORDS  
WE LIVE BY.



The National Rural Electric Cooperative Association (NRECA) is the national service organization for more than 900 not-for-profit rural electric cooperatives and public power districts providing retail electric service to more than 42 million consumers in 48 states and whose retail sales account for approximately 12 percent of total electricity sales in the United States. Learn more at [electric.coop](http://electric.coop)



*Line crews receive continuous safety training.*

# Strategic Safety Plan

**By Beth Amaro**

Working for an electric utility like KIUC is exciting and rewarding, but delivering electric service to consumer-members can expose employees to hazards.

These hazards do not exist just for lineworkers working in bucket trucks or power plant employees, but also for office, engineering and warehouse workers. These employees are exposed to the risks of slips, trips and falls, along with ergonomic injuries caused by bending, lifting, twisting and turning.

“Creating and maintaining a safety culture here at KIUC is among our highest priority initiatives,” says President and CEO David Bissell.

He notes that all employees encounter safety hazards daily, no matter where they’re working.

As a member of the National Rural Electric Cooperative Association, KIUC has access to a wide array of resources to improve safety. NRECA’s commitment to safety is rooted in two guiding principles:

- ❖ Safety is embraced as a core value of the organization.
- ❖ Cooperative leaders and employees work together to create the safest working environment possible.

“Safety systems are a shared responsibility and should continually focus on finding and reducing all possible exposures to injury,” says Bud Branham, NRECA’s director of safety programs. “In order for any safety program to be successful, employees must be involved and supported by cooperative leaders creating an environment in which all employees take ownership for safety.”



Use of personal protective equipment (PPE) is essential to maintaining a safe workplace.

Bud recently spent a full week on Kaua'i working with KIUC's leadership team to create a safety strategic plan. This included gathering input from all of the cooperative's employees and seeking opportunities to enhance the safety culture at KIUC.

Once complete, the plan will include a safety vision, values and guiding principles specific to KIUC, along with safety improvement initiatives.

Among the several topics discussed during the week were safety precautions for lineworkers to consider while responding to outages.

"When an outage happens, we want to get our members powered up as soon as we can," David says. "But safety must always come first. We are always appreciative of our members' patience, especially when the outage happens during severe weather or in an area that is difficult to access."

Social media and the outage map on KIUC's website can help keep members informed while crews work to safely restore power.

According to Bud, safety is a 100% team effort.

"The bottom line is, everyone from the CEO to frontline employees are responsible for sending every member of the co-op family home safely to their loved ones every day," he says. 🌱



Motorists can assist by using caution when driving through work zones.

## Arc Flash Prevention and Safety

By Allison Young

An *arc flash* is when an electrical current travels outside its intended path. The resulting electrical explosion emits blinding light and extreme heat, which can be fatal or cause serious injury. An arc flash blast can be as loud as a gunshot and can reach a level four times the heat of the sun. Lightning is one example of an arc flash occurring in nature.

A typical arc flash could cause:

- ❖ Burns (non-flame resistant clothing can burn onto skin).
- ❖ Fire (could spread rapidly through buildings).
- ❖ Flying objects (often molten metal).
- ❖ Blast pressure.
- ❖ Sound blast.
- ❖ Heat (can reach 35,000°F).

All KIUC employees who work on or near electric lines are educated about arc flash safety. The National Fire Protection Association sets the standards across industries in its 70E guidelines to prevent arc flashes and protect workers.

***The No. 1 most effective and foolproof way to eliminate the risk of electrical shock or arc flash is to deenergize the equipment (i.e., disconnect or turn off the voltage).***

Employees must follow the requirements of the arc flash hazard label by wearing the proper personal protective equipment (PPE), using insulated tools, following approach boundaries (distance guidelines) and other safety-related precautions. This includes not working on or near the circuit unless you are a permitted and qualified worker.

KIUC has prioritized a culture of safety and detailed many of these precautions in its strategic safety plan. 🌱

Sources:  
nfpa.org  
osha.gov

# KIUC Leads the Way

By Beth Amaro

Kaua'i Island Utility Cooperative once again leads the state in renewable generation by achieving 60.2% renewable for 2022.

"We continue to seek new ways to maximize the use of renewables and are working toward a new goal, set by our board of directors in January, to reach 100% renewable by 2033," says KIUC President and CEO David Bissell.

He notes KIUC's strategic goal accelerates the state of Hawai'i timeline of reaching 100% renewable energy by 2045 by more than a decade.

The 60.2% for 2022 was reported to the Hawai'i Public Utilities Commission in KIUC's annual renewable portfolio standards filing. The 2022 RPS figure was below the 69.5% reported in 2021. KIUC Chief of Operations Brad Rockwell explains the decrease.

"KIUC generated virtually the same amount of renewable power in 2022 as it did in 2021," he says. "However, the combination of an increase in electricity demand combined with a change in state law, which requires a new formula to calculate RPS, caused the percentage of renewables to decrease."

The RPS formula was changed pursuant to Act 240, which was signed into law in July 2022. The RPS calculation previously reflected the renewable percentage of electricity sold. Under the new formula, RPS is calculated as a percentage of electricity generated.

Solar contributed 39.8% of KIUC's generation in 2022. Approximately one-third of the solar production came from members' rooftop systems. Other renewables contributing in 2022 were hydro (10.7%) and biomass (9.8%).

"In addition to leading the state in renewables, we are proud to have recorded the lowest rates for all the islands for the past 12 months," David says. "Our high percentage of renewables has contributed significantly to the lowering and stabilization of our rates."

KIUC's next large renewable project expected to come online is the West Kaua'i Energy Project. This innovative project pairs solar+storage with pumped storage hydro and is expected to meet roughly 25% of Kaua'i's energy needs. Once operational, WKEP will bring KIUC to more than 80% renewable.

Learn more about the West Kaua'i Energy Project at [kiuc.coop/wkep](http://kiuc.coop/wkep).



**Saturday, August 12, 2023**

**Shot Gun Start 8:00 a.m. on the Puakea Golf Course**

**New Format:** Three-Person Scramble (13% of total handicap for scoring).

Three drives per player, maximum two-putts.

**Maximum Handicap:** Men-24; Women-36

Golfers 70 years of age or older with handicap of 20+ can choose to play from the forward tees.

**Registration deadline:** \$130 per golfer, includes two complimentary mulligans for registration before noon, Friday, July 28, 2023. \$140 per golfer for registration after July 28, 2023 and no complimentary mulligans.

*Notes: CAK reserves the right to adjust handicaps which are subject to verification.  
Change of partners must be made before 7:00 a.m. the day of the tournament.*

Registration Forms are available at the Puakea Golf Course & most courses on the Island.

The tournament funds scholarships for students in construction-related fields of study including: construction trades, civil, mechanical or electrical engineering, construction management, architecture, and landscape architecture or design.

Every year, KIUC is required by law to provide our ratepayers annual fuel mix and average electric cost information.

## HRS [§269-16.4] Annual Fuel Mix Disclosure

- (a) Beginning June 1, 2004, and every June 1 thereafter, each retail supplier of electricity shall disclose fuel mix information by generation category to its existing and new retail electricity customers for the prior calendar year.
- (b) Beginning June 1, 2004, and every June 1 thereafter, each retail supplier of electricity shall state the average retail price of electricity (per kilowatt-hour) for each rate class of service for the prior calendar year. The average retail price of electricity for each rate class of service shall be determined by dividing the total electric revenues for each rate class of service by the total kilowatt-hours sold to each respective rate class.
- (c) The disclosure required by this section shall be:
- (1) Printed either on the customer's bill or as a bill insert; provided that this disclosure requirement shall not result in increased costs to ratepayers; and
  - (2) Posted and updated on the suppliers Internet website, if any.
- (d) As used in this section, the term "fuel mix" means the electricity sold to retail electricity customers expressed in terms of percentage contribution by generation category. The total fuel mix included in each disclosure shall total 100%. [L 2003, c 147, §2]

### REVENUE

Rate Class of Service	Schedule	2022	2021	2020	2019	2018
Residential	D	\$75,465,976	\$67,665,717	\$59,717,210	\$63,200,462	\$65,170,080
General Lighting Service	G	\$26,093,654	\$22,610,142	\$20,151,493	\$24,116,311	\$25,055,505
General Lighting Service	J	\$19,180,115	\$16,724,413	\$14,988,419	\$16,924,144	\$17,696,698
Large Power	P	\$37,522,778	\$32,895,068	\$28,615,487	\$34,113,796	\$36,406,460
Large Power	L	\$15,393,949	\$12,897,520	\$11,635,762	\$15,334,559	\$16,782,895
Streetlight	SL	\$692,840	\$683,855	\$665,798	\$681,986	\$719,376
Irrigation		\$718,357	\$177,137	\$183,919	\$95,379	\$361,634
<b>Total Revenue</b>		<b>\$175,067,669</b>	<b>\$153,653,852</b>	<b>\$135,958,088</b>	<b>\$154,466,637</b>	<b>\$162,192,648</b>

### KILOWATT-HOUR SALES

Rate Class of Service	Schedule	2022	2021	2020	2019	2018
Residential	D	191,954,669	186,243,561	177,182,391	181,264,409	174,726,470
General Lighting Service	G	64,503,026	60,188,554	57,698,004	67,417,715	65,473,099
General Lighting Service	J	50,969,236	48,348,244	46,668,526	51,256,543	49,854,166
Large Power	P	103,581,400	98,582,111	91,894,242	108,215,545	107,098,228
Large Power	L	44,142,800	40,153,191	39,586,355	51,265,330	51,409,785
Streetlight	SL	733,506	768,345	770,590	790,188	852,640
Irrigation		2,169,426	871,638	1,490,585	500,111	1,699,665
<b>Total kWh Sold</b>		<b>458,054,063</b>	<b>435,155,644</b>	<b>415,290,693</b>	<b>460,709,841</b>	<b>451,114,053</b>

### AVERAGE RETAIL PRICE

Rate Class of Service	Schedule	2022	2021	2020	2019	2018
Residential	D	\$0.393	\$0.363	\$0.337	\$0.349	\$0.373
General Lighting Service	G	\$0.405	\$0.376	\$0.349	\$0.358	\$0.383
General Lighting Service	J	\$0.376	\$0.346	\$0.321	\$0.330	\$0.355
Large Power	P	\$0.362	\$0.334	\$0.311	\$0.315	\$0.340
Large Power	L	\$0.349	\$0.321	\$0.294	\$0.299	\$0.326
Streetlight	SL	\$0.945	\$0.890	\$0.864	\$0.863	\$0.844
Irrigation		\$0.331	\$0.203	\$0.123	\$0.191	\$0.213

Fuel Mix Generation*	2022	2021	2020	2019	2018
Biomass	51,555,105	48,478,815	48,362,580	51,323,475	51,818,445
Fossil Fuel	210,047,359	183,227,477	179,461,177	244,529,131	299,244,542
Hydro	56,421,176	64,807,237	62,391,722	54,249,974	30,750,088
Photovoltaic**	166,139,505	161,986,631	147,300,905	133,587,078	92,197,763
<b>Total</b>	<b>484,163,145</b>	<b>458,500,160</b>	<b>437,516,384</b>	<b>483,689,658</b>	<b>474,010,838</b>

\* Gross Generation kWh

\*\* Prior reports included own-use from customer-sited generation. Starting from the 2012 calendar year report, prior and current data revised to include only surplus energy from customer-sited generation.

Fuel Mix Percentage	2022	2021	2020	2019	2018
Biomass	11%	11%	11%	11%	11%
Fossil Fuel	43%	40%	41%	50%	63%
Hydro	12%	14%	14%	11%	7%
Photovoltaic	34%	35%	34%	28%	19%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>



# A Blessing for Anahola Service Center

KIUC and partners celebrated the newly completed Anahola Service Center on April 28. Kahu Wayne Vidinha performed a blessing for the facility, which replaces the Kapa'a Service Center after more than 60 years of operations. The new facility serves as the hub of field operations for the island's east side and north shore service area. It provides much-needed garage, office and storage space.

"KIUC's priority is to provide reliable electricity to all residents of Kaua'i, and the Anahola Service Center will enable us to continue to improve the resiliency for the eastern and northern parts of Kaua'i," says KIUC CEO David Bissell. "We greatly appreciate our continuing partnership with the Department of Hawaiian Home Lands, the Anahola Hawaiian Homestead Association and the Homestead Community Development Corporation."

Work on the site was completed by all Kaua'i-based firms. Architect Avery Youn designed it; Cushnie Construction Inc. did the sitework; and Kalani Construction Inc. completed the building construction. The cost of the project was approximately \$8.5 million.

Groundbreaking on the center began in December 2020. It was built on 4 1/2 acres of land leased from the Department of Hawaiian Home Lands. The lot is included in General Lease No. 299, which also covers land that houses Anahola Solar Farm and the adjacent Anahola Substation. DHHL and the Anahola Hawaiian Homestead Association, which negotiated a community benefits agreement with KIUC when the project was proposed, were instrumental in the successful completion of the project.



*Dignitaries participate in the untying of the maile lei. From left are Kahu Wayne Vidinha, KipuKai Kualii, Kali Watson, David Bissell and Allan Smith.*



***Mahalo to...***

*Avery Youn  
Nalani Mahelona  
Esaki Surveying and Engineering, Inc.  
Cushnie Construction Company, Inc.  
Kalani Construction, Inc  
Consolidated Corporation  
Pacific Connections*

*Diamond Plumbing  
Islandwide HVAC  
Mike Goodnight  
Bryson Cummings  
Pacific Mirror and Glass  
Window Trends  
Ali'i Landscaping and Maintenance*

DHHL Chair Kali Watson attended the blessing.

"It's a shining example where different organizations can come together and coordinate the development of something like this, which will benefit the community for generations," he says. "We thank KIUC for their willingness to do that on Hawaiian Home Lands."

AHHA President KipuKai Kuali'i says the association is blessed they have the land to share.

"We also have to say 'mahalo nui loa' to KIUC and its board for working with us, for responding to us and seeing

us, for recognizing us and being willing to work with the beneficiaries directly, not just the state department in Honolulu," he says.

The new center is a staging area for transmission and distribution operations and will house KIUC's distribution planning team. The expanded site serves as a storm preparation area and equipment depot for hurricane season. Response times to outages on the north shore are expected to improve with the operational shift from Kapa'a to Anahola. 🌀



*T&D Manager John Cox and members of the East Side line crew settle in at the Anahola Service Center garage.*

# ARE YOU READY FOR A STORM?

*A serious storm can threaten the island at any time. Follow the tips below to help ensure your safety.*



Make an emergency plan, where to go, what to do and how to meet up if you are separated from your family.

Keep trees around your home trimmed. Tie down or put away loose outdoor items to prevent them from becoming flying debris and causing damage.



Know evacuation routes and shelters.

Pack an emergency kit that can sustain you and your family for three to five days. Include such items as water, food, medication, a portable radio and batteries.



Know where your electrical and gas shutoffs are located.

Protect your pets by making an emergency plan and kit for them.



Monitor media reports, and follow instructions from public safety officials.

Keep copies of important documents, such as birth and marriage certificates, Social Security cards, passports, wills, deeds, financial, insurance and immunization records in a sealed waterproof bag.



For more information on disaster and storm preparedness, visit:  
[kiuc.coop/storm-sense](http://kiuc.coop/storm-sense) | [kauai.gov/KEMA](http://kauai.gov/KEMA)  
[noaa.gov/hurricane-prep](http://noaa.gov/hurricane-prep) | [ready.gov](http://ready.gov)

# KIUC'S COMMERCIAL RETROFIT AND EQUIPMENT REPLACEMENT PROGRAMS

KIUC's Commercial Retrofit Program provides incentives ranging from 50% to 100% of the costs to install energy-efficient retrofits, such as air conditioning, motors, lighting and refrigeration.

KIUC's Commercial Equipment Replacement Program could help cover the cost of replacing equipment that has reached the end of its life with an energy-efficient model.

Contact KIUC's Commercial Energy Services Specialist at 808.246.4300 before starting any retrofit project or buying any replacement equipment to see how we can help.



**Kaua'i Island  
Utility Cooperative**

Your Touchstone Energy Cooperative



KIUC is an equal opportunity employer and provider.



**KYLEA ALAYVILLA-  
CREMER**

Kaua'i High School  
Parents Kyle & Mila Cremer



**KATHLEEN  
BISSELL-JENKINS**

University of Hawai'i at  
Mānoa William S.  
Richardson School of Law  
Parents David & Carla Bissell



**CAMERON DELLAMANO**

Colorado State University  
Civil Engineering  
Parents Stacie & Toby  
Dellamano



**KATELYN-ROSE  
GARCIA**

Associates at Kaua'i  
Community College  
Parents Bart & Cindy Garcia



**2023**  
*class of*

**Congratulations Graduates!**



**RILEY GOKAN**

University of Hawai'i at  
Mānoa Civil Engineering  
Parents Cory & Lani Gokan

**ZAYLEE RIVERS IGAYA**

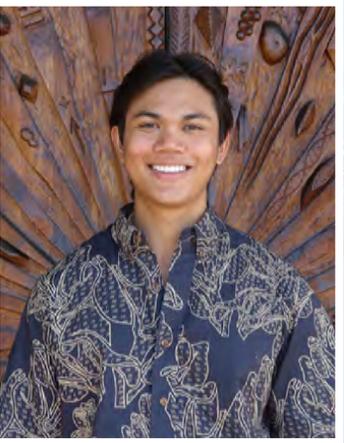
Waimea High School  
Grandparents Manny &  
Eleanor Igaya

**KELLI OKAYAMA**

University of Portland  
Bachelor of Science in  
Nursing, RN  
Parents Lynda & Dean  
Okayama

**SAREA PANIT**

Kaua'i High School  
Parents Nelson & Gaynel Panit



**BLAKE PROBASCO**

University of Portland  
Bachelor of Science  
Electrical Engineering  
Parents Lorna & Ben Probasco

**JADELYN "JADE"  
REYNOLDS**

Kaua'i High School  
Parents Jonnie & Daynes  
Reynolds

**CALVIN ROCKWELL**

Kaua'i High School  
Parents Brad & Ouyen  
Rockwell

**KANALE VIQUELIA**

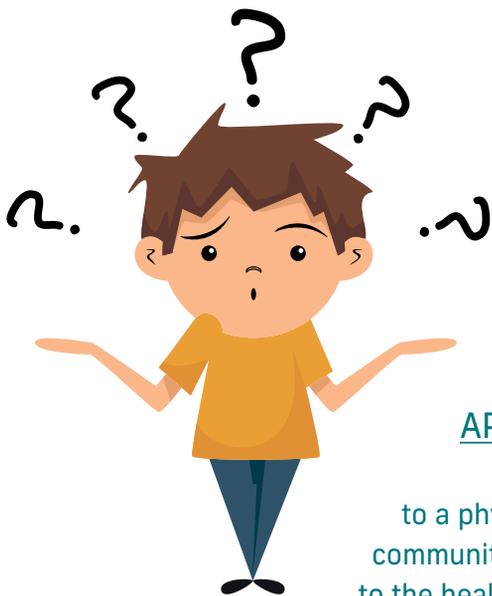
Waimea High School  
Parents Gezmynn & Levi  
Viquelia



**Kaua'i Island  
Utility Cooperative**

Your Touchstone Energy® Cooperative





HAWAI'I HEALTH SYSTEMS CORPORATION

**KAUA'I REGION**

*E Pono Mau Loa ~ Always Excellent*

## ***Who are APP's?*** **Advanced Practice Provider**

APP's are both Physician Assistants and Nurse Practitioners.

An APP provider collaboratively provides quality medical care similar to a physician, and is focused on increasing access to healthcare for our island community. They bring a wealth of academic knowledge and practical experience to the healthcare system that is struggling to fill provider positions across Hawai'i.

*"I love it when my patients come in and the first thing that they say is, "Hi Aunty! I'm not feeling well today, can you help me?"  
It makes me feel good to know that I can serve my community."*

Erin Carrington, PA-C



### **Can an APP be my primary care provider?**

**Yes!** An APP is a part of the health care team that can review medical history, take action to examination and provide diagnosis/treatment.



### **Can you prescribe medication?**

**Yes.** If appropriate, medication can be prescribed by APP's.



### **What are Physician Assistants (PA)?**

PAs complete their bachelor's degree, and often have years of experience in the medical field before completing the additional two year PA program. PAs work with a Supervising Physician, meaning that they are partners in providing care and can check in with them should they have questions about their patient.





## What are Nurse Practitioners (NP)?

All nurse practitioners must have completed a master or doctorate program and have had advanced clinical training beyond their initial professional registered nurse (RN) preparation.

### *Who are the APP's in your community?*

Physician Assistants and Nurse Practitioners offer an important and effective role as they increase patient care access for our island community. Here at the HHSC Kaua'i Region, we strive to provide quality care and currently have eight APP providers across our region.



**Erin Carrington, PA-C**  
Physician Assistant  
The Specialty Clinic at  
Kalaheo  
(808) 378-4557



**H. Michael Keiser**  
**APRN, AGNPC**  
Family Nurse Practitioner  
The Clinic at Kapaa  
(808) 823-4157



**Heidi Clouser, APRN**  
Family Nurse Practitioner  
The Clinic at Poipu  
(808) 742-0999



**Dana Michaan, PA-C**  
Physician Assistant  
Urgent Care at Poipu  
(808) 742-0999



**Lauren Riley, PA-C**  
Physician Assistant  
The Clinic at Port Allen  
(808) 335-0579  
The Clinic at Kalaheo  
(808) 332-8523



**Beverly Tumbaga, APRN**  
Family Nurse Practitioner  
The Clinic at Waimea  
(808) 338-8311



**Ryan Wada, PA-C**  
Physician Assistant  
Urgent Care at Poipu  
(808) 742-0999



**Ann Wallace**  
**NP-C, GNP-BC**  
Geriatric Nurse Practitioner  
SMMH Long Term Care  
(808) 822-4961

*Thank you for trusting your care to us! [www.kauai.hhsc.org](http://www.kauai.hhsc.org)*



From left, Michael Julian, Alyssa Nishihira Griffio, Ian Ramos and Kim Mayfield at the U.S. Capitol in 2007.

# Where Are They Now?

## Ian Ramos Youth Tour 2007

By Allison Young

*For this issue, we talked story with Ian Ramos, a Youth Tour 2007 alumnus. Born and raised on Kaua'i, Ian grew up in Kapa'a, graduated from Kapa'a High in 2008 and Embry Riddle Aeronautical University in Daytona Beach, Florida, in 2013 with a degree in aeronautics and a commercial pilot license. He lives in Honolulu and is a pilot for Hawaiian Airlines, in addition to working as a travel consultant and realtor.*

**Q: Aloha, Ian. What's your favorite memory from Youth Tour?**

**A:** Having the honor to be part of Youth Tour forever changed my perspective in life.

The opportunity to travel to our nation's capital at a young age was an unforgettable moment. I had the honor to represent the state of Hawai'i at the Youth Tour Conference

and meet with various legislators, senators and other prestigious leaders.

Coming from a small island to feeling like I was in the heart of our nation, I immediately realized that I had limited my own beliefs. This nation was primarily built by people from various backgrounds who had the courage to stand up for their beliefs, took massive action, persevered through setbacks to see their visions become reality for the greater good. Our nation's capital with its rich history clearly exemplifies the beauty of our country, providing the opportunity to achieve anything you want in life, aka "the American dream."

I took that new perspective and turned it into a blueprint for every day. With my new mindset, I was able to stick to my vision of becoming an airline pilot. I am forever grateful to KIUC and the Youth Tour program, it played a major role in my journey and blessed a kid from Kaua'i with an opportunity of a lifetime.

**Q: Tell us about your path after graduation.**

**A:** I was fascinated with airplanes and fell in love with aviation as an adolescent. With my newfound perspective I gained from the Youth Tour, I focused all my attention on becoming a professional pilot.

Despite coming from humble beginnings and having a different career from my peers, I took it upon myself to create my own aviation path. I attended Embry Riddle Aeronautical University in Daytona Beach, Florida. Through financial hardship and personal sacrifice, I graduated in 2013 with honors, achieving both my bachelor's degree in aeronautics and a commercial pilot license.

To further improve my flying skills, I spent years on the mainland as a flight instructor and worked with a regional airline company. In 2019, Hawaiian Airlines gave me the opportunity of a lifetime and my life came full circle. Bringing my dream and passion back home to serve my ohana/peers is priceless.

In addition to being an airplane pilot, I'm a travel consultant and Realtor as well. As a travel consultant, I scout and review potential hotels/cruises and create honeymoons/retirements/vacations itineraries. I became a Realtor for additional skills that will complement my real estate portfolio.

**Q: What do you like to do in your free time?**

**A:** During any down time, I take the opportunity to learn. Whether it's new skills or new knowledge, always being a student is essential in life. The pandemic woke me up and motivated me to not be complacent no matter how successful I am. It was a hard lesson — putting all my eggs in one career and one income source is not financially smart.



*Ian Ramos today.*

I'm on a quest to create additional passive income streams that fit my lifestyle.

**Q: Which one of KIUC's shared values most resonates with you?**

**A:** Ho'okela. We strive to provide the best service to our members. I will contribute my best to attain the highest level of achievement.

My mother, a strong and independent woman, primarily raised me and molded me into who I am today. One of the many valuable gems she instilled in me was, "The difference between ordinary and extraordinary is that little extra."

An attitude of no regret and giving your all is always respected, maximizes your time here on earth and pushes you beyond limiting beliefs to accomplish the unthinkable.

Always finding innovative ways to raise the bar for any task will clearly stand out. It provides a lasting impression on your peers, consumers or company you represent. It becomes a defining factor that separates you from the competition and creates new doors to opportunity and growth. I believe it's our life's mission to uncover our true abilities in order to live life to the fullest. We should all be self-motivated in striving to be at least 1% better than who we were yesterday. When looking back, that extra effort everyday will compound and ultimately create your American dream.

**Q: What message would you like to share with our keiki?**

**A:** I aspire to be a role model to keiki, especially those from Kaua'i.

Not too long ago, I was just a kid from Kapa'a who had an ambitious dream that no one believed I could achieve. A kid who silenced the noise, took massive action, had the self-confidence, grit and determination to turn that dream into reality.

Know that anything in life is achievable, don't let where you're from, your family background or surroundings dictate your goals and beliefs in what you can accomplish. Continuously strive for greatness and having your eyes set on conquering the next mountain of goals.

I can certainly confirm that the American dream is indeed real and attainable for everyone. 🌍



*Ian is an airline pilot for Hawaiian Airlines.*



# Light Summer Fare



## Dark Chocolate Peanut Butter No-Sugar Cookies

- |                            |                            |
|----------------------------|----------------------------|
| 2 cups almond flour        | ½ cup peanut butter        |
| 1½ teaspoons baking powder | 1 egg                      |
| ¼ teaspoon salt            | 1 teaspoon vanilla         |
| 1 block butter, softened   | ½ cup dark chocolate chips |

Heat oven to 350 F.

Combine almond flour, baking powder and salt. Mix in butter, peanut butter, egg and vanilla. Mix well, then add chocolate chips. Bake for 15 to 20 minutes.

If you want a sweeter cookie, add a sugar alternative, such as Splenda or monk fruit.

## Watermelon Feta Salad

Watermelon cubed into 1-inch pieces

½ cup mint leaves, chopped

½ cup basil, chopped

3 tablespoons olive oil

3 tablespoons balsamic vinegar

Combine watermelon, basil and mint in a large bowl. Drizzle with olive oil and balsamic vinegar. Chill before serving.



## Prosciutto Caprese Salad

- 1 package prosciutto
- 1 small tray grape tomatoes
- 1 bunch basil
- Mozzarella pearls
- Olive oil
- Balsamic vinegar
- Toothpicks

Cut prosciutto into 1-inch strips, and secure with a toothpick. Alternate tomatoes, basil and mozzarella pearls on the toothpicks. Drizzle with olive oil and balsamic vinegar.



## Cauliflower Salad

- 2 bags frozen cauliflower
- ½ cup plain Greek yogurt
- ¼ mayonnaise
- ¼ teaspoon salt
- ¼ teaspoon pepper
- 2 cups shredded cheddar cheese
- 1 package bacon, fried and crumbled
- Green onions, sliced

Following package instructions, cook cauliflower until tender. Drain water. Combine yogurt and mayonnaise in a large bowl, then add warm cauliflower. Stir in cheese and bacon. Sprinkle with salt and pepper. Garnish with green onions, and serve.

## Lemon Pudding Cheesecake

- 1½ packages graham crackers, crushed
- 1 block butter, melted
- 8 ounces cream cheese, softened
- 2 boxes instant lemon pudding
- 2 cups milk
- Whipped cream

In an 8-by-8-inch pan, combine graham cracker crumbs and butter. Press onto bottom of pan. In a mixer, whip cream cheese. Add lemon pudding and milk to cream cheese. Continue to stir until smooth, breaking up the lumps. Spread mixture over graham cracker crust. Chill before serving with whipped cream.



*Low Carbon foods are good for the planet by reducing greenhouse gas emissions.*



# JOY RIDE: Ford F-150 Lightning All-Electric Truck

By Allison Young



Chris Luff charges his Ford Lightning truck at the KIUC charging station.

Calling all truck lovers! The Ford F-150 Lightning is Ford's first all-electric truck. Unveiled in May 2021, Ford began production in April 2022. The base model price was originally listed at \$39,974, making it more accessible than other EV trucks on the market.

Wainiha residents Chris and Cynthia Luff visited KIUC on January 25 and used the Level II charger in the parking lot. We talked story about how they became Lightning owners and electric vehicle enthusiasts.

**Q: When did you start driving the Lightning?**

**Chris:** I got on the waiting list in the middle of the online web reveal in May 2021. I started driving in October 2022. Ford first produced 25,000, but by now the demand far outstrips supply—the waiting list has over 300,000 people. I give Ford a lot of credit for shipping out to regular people and not just family and friends.

**Q: What was your original motivation for switching to an EV?**

**Cynthia:** There were so many cool things about it. Ask any EV owner, once you have an EV, it's hard to go back. One self-reported survey said that over 90% of EV drivers don't go back to driving gas-powered vehicles. For us, it's more about convenience than anything. The closest gas station is in Princeville.

**Chris:** This is my third EV. First we had a 2016 Tesla Model S, then a 2018 Zero DSR motorcycle.

**Q: What do you think truck drivers would appreciate about the Lightning?**

**Chris:** It's an island-friendly vehicle. It has all-wheel drive, so when the rain comes you can get through muddy situations. Ford also designed the Lightning to have the same cab as its other F-models, which means that it feels like a regular truck, and many parts are the same as the F-150 for maintenance.

**Q: What's your favorite feature? Any cons?**

**Chris:** I like that we could potentially use the Lightning battery as a backup generator, although I'm still working through getting that functionality set up with my house. With its bidirectional outlet (the charge can go both ways), it can theoretically support the house for 10 days. So far, I have only used the bidirectional outlet once when scuba diving. I needed a tool to solder equipment, and was able to plug it in while at the beach.

Other features I like: Driver assist controls the speed and stays in the lane on the highway. With regenerative one-pedal braking, I barely touch the brake anymore. And I really like the 360-degree camera with bird's eye view.

My only con is that the car's software only updates through a cell network, not Wi-Fi, which is an issue in Wainiha.

**Cynthia:** I'm always cold, so I like the seat warmers. And when you back up, it plays Mariokart music!

**Q: Have you received much attention since getting it?**

**Chris:** You should see the stares when we open the "frunk" up in a parking lot. Other truck drivers approach us with curiosity. A lot of people recognize it, and the attention has been positive.

Because there is no engine in the front, a "front trunk" or "frunk" was designed for additional storage. Both the frunk and the bed have standard home outlets (2.4 kilowatts and 7.2 kW, respectively).

**Q: What is something that would make people who are skeptical about EVs want to try this one?**

**Chris:** Range anxiety is a complete nonissue. On a full charge, I can drive 350 to 400 miles and still fully charge overnight. The extra range means that you could put on a lift kit and oversized tires and still have plenty of range.

In terms of speed, it's way more speed than we need on Kaua'i. It goes to 50 mph in 3 seconds. It is a stable ride because the weight is distributed low underneath.

Like most EVs, the battery weight makes the Lightning significantly heavier—2,000 to 3,000 pounds more than the same model's combustion version—which drivers and pedestrians need to keep in mind for safety.

**Q: How do you charge it?**

**Chris:** I have only charged it at home (using a NEMA 14-50 Level II charger). We installed PV solar at our house with 2 batteries (Tesla Powerwalls). With the range, it hasn't been



Chris charging his equipment at the beach.

needed to charge elsewhere, and I prefer to keep the public chargers free for people that need them.

**Q: How much do you think you save on gas per month?**

**Chris:** It's complicated to calculate. I appreciate that KIUC rates were more stable during the pandemic. Charging from the grid, I may save about half the cost of gas. Our preferred method is to charge from solar, and that reduces our cost to \$0.

*Mahalo, Chris and Cynthia. To learn more about EVs, KIUC's Level II Multi-port Charger Rebate Program and other resources, visit [kiuc.coop/ev](https://kiuc.coop/ev). Chris and Cynthia sometimes participate in KauaiEV events, which you can find at [kawaiiev.org](https://kawaiiev.org).*

**KAUAI COMMUNITY SCIENCE CENTER**



**INTERNSHIP PROGRAM 2023-2024**

**OPEN TO KAUAI STUDENTS AGES 12 & UP**

No matter your interest, from art to zoology and anything in between, we would like to work with you, support you to learn more and explore potential careers related to your interests.

Learn more on the KCSC website, <https://kawaiicsc.org>.

Questions? email [info@kawaiicsc.org](mailto:info@kawaiicsc.org) or call 808-431-4332.

**JOIN US!**





## ELECTRICAL SAFETY QUIZ

Test your electrical safety knowledge by taking the quiz below!

Use the answer key if you need help.

- 1. Smoke alarms in your home should be tested \_\_\_\_\_.**
  - A. once a week
  - B. twice a year
  - C. once a month
- 2. Overloading electrical outlets and power strips can create an electrical fire hazard.**
  - A. True
  - B. False
- 3. What's the most dangerous place to use electricity?**
  - A. Outdoors
  - B. Near other electrical equipment
  - C. Near water
- 4. It's safe to run an electrical cord under a rug or carpet as long as the cord is not damaged.**
  - A. True
  - B. False
- 5. Which is safest to play near?**
  - A. Power lines
  - B. Pad-mounted transformers
  - C. Neither A or B - both are dangerous



Answer Key: 1.C 2.A 3.C 4.B 5.C



# Statement of Operations

For the period 01/01/2023 – 03/31/2023

Each quarter, the statement of operations is presented to all for review in Currents magazine. As individual accounts are reconciled and financials are analyzed each month, there is a special sense of assurance at the end of March. This is when the annual financial audit is successfully completed for the prior year.

KIUC borrows funds from Rural Utilities Service, which provides funding for the development of utilities infrastructures for electrical institutions. As an RUS borrower, KIUC is required to complete an annual audit of our prior year financial statements by an independent public accounting firm.

The purpose of a financial statement audit is to provide users—such as RUS and the Hawai'i Public Utilities Commission—with an opinion on whether our financial statements are presented fairly in all material aspects. The scrutiny and level of review from the auditors is done over a two-month period. The independent auditors visit KIUC and complete a thorough review of all financial statements and records to ensure they are accurate, complete and follow accounting principal guidelines.

The 2022 audit report is available for review on the KIUC website at [kiuc.coop/audited-financial-report](http://kiuc.coop/audited-financial-report).

Turning to 2023, KIUC has continued to provide electric service to all areas of Kaua'i with more renewable generation sources and lower residential rates than any other island in Hawai'i. It has been the mission of the KIUC team to reduce costs in various areas to operate efficiently and effectively and continue to maintain a strong financial position.

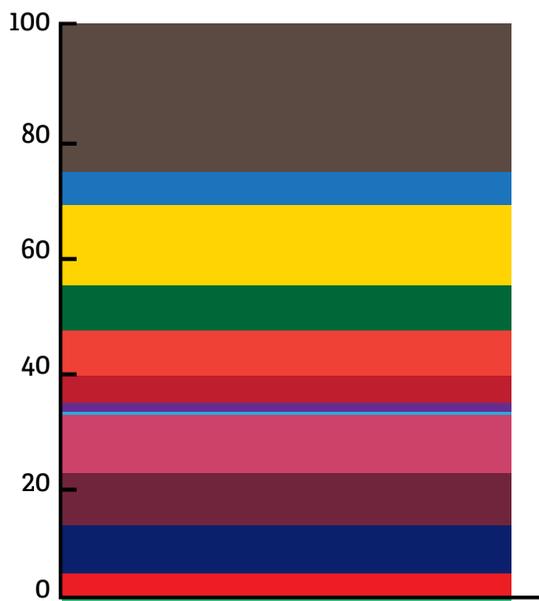
Unfortunately, as projected in our rate case filing, the first quarter of 2023 showed an overall loss in net margins. The cooperative's financial team continues to work closely with its lenders and regulators to mitigate the financial effects of the coronavirus pandemic, cost pressures, labor shortages, inflation and supply chain delays.

Revenues, expenses and net margins totaled \$40 million, \$40.5 million, and (\$0.5) million respectively, for the period ending March 31, 2023.

See the chart for the percentage of how electric revenue money from the payment of your electric bills was spent for the quarter.

For more information on our rate case filing, visit [kiuc.coop/ratecase](http://kiuc.coop/ratecase).

## PERCENTAGE OF TOTAL REVENUE



- Commodities-Fossil Fuel — 24.6%
- Commodities-Hydro — 7.4%
- Commodities-Solar — 11.8%
- Commodities-Biomass — 7.0%
- Production, Operation and Maintenance — 8.8%
- Transmission & Distribution Operation & Maintenance — 5.7%
- Member Services — 1.8%
- Communications — 0.4%
- Administrative & General Net of Non-Operating Margins — 11.5%
- Depreciation & Amortization — 9.6%
- Taxes — 8.4%
- Interest — 4.2%
- Net Margins — -1.3%

Summer 2023  
Volume 20, Number 2

**David Bissell**  
*President and CEO*

**KIUC Board of Directors**

*Chairman:* Allan A. Smith  
*Vice Chairman:* Jan TenBruggencate  
*Treasurer:* Peter Yukimura  
*1st Assistant Treasurer:* Jim Mayfield  
*2nd Assistant Treasurer:* Janet Kass  
*Secretary:* Cal Murashige  
*1st Assistant Secretary:* Phil Tacbian  
*2nd Assistant Secretary:* Dee Crowell

**Executive**

*Chairman:* Jan TenBruggencate  
*Members:* Cal Murashige, Allan A. Smith,  
Peter Yukimura

**Finance & Audit**

*Chairman:* Peter Yukimura  
*Members:* Stacie Dellamano, Janet Kass,  
Jim Mayfield, Cal Murashige, Allan A. Smith

**Government Relations/Legislative Affairs**

*Chairman:* Phil Tacbian  
*Members:* Beth Amaro, David Bissell, David Iha,  
Jim Mayfield, Peter Yukimura

**International**

*Chairman:* David Iha  
*Members:* Dee Crowell, Allan A. Smith,  
Phil Tacbian, Peter Yukimura

**Member Relations**

*Chairman:* Dee Crowell  
*Members:* Beth Amaro, Cal Murashige,  
Allan A. Smith, Phil Tacbian

**Policy**

*Chairman:* Janet Kass  
*Members:* David Bissell, Dee Crowell,  
Laurel Loo, Cal Murashige, Phil Tacbian,  
Jan TenBruggencate

**Strategic Planning**

*Chairman:* Jim Mayfield  
*Members:* David Bissell, Dee Crowell, David Iha,  
Janet Kass, Brad Rockwell, Allan A. Smith

**Loan Review**

*Chairman:* Phil Tacbian  
*Members:* Janet Kass



4463 Pahe'e Street, Suite 1  
Līhu'e, Hawai'i 96766-2000  
808.246.4300 ■ [www.kiuc.coop](http://www.kiuc.coop)  
[currents@kiuc.coop](mailto:currents@kiuc.coop)



# SAVE THE DATE

## KIUC Annual Membership Meeting

Thursday, July 20

5:30-8:30 p.m.

Kaua'i Philippine Cultural Center  
4475F Nuhou Street, Līhu'e, HI