

Fall 2021

Kaua'i Island Utility Cooperative

Currents

Kaua'i Community Science Center
Teaching the Future



Inside:
2020 Annual Report
KIUC Named Electric Cooperative of the Year





KAREN L. AGUDONG, REALTOR(B)

RB-17447

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



IN ESCROW

HALELANI VILLAGE Q203

Beautiful upgraded 2nd floor condominium at Halelani Village with mountain views from the lanai. Many upgrades including: laminate flooring, tiled lanai, newer ceiling fans, bathroom vanity and hallway light fixtures. Windows and lanai slider have been tinted to keep the apartment cooler on hot days. \$399,000(fs). Call: Karen L. Agudong, REALTOR BROKER (808) 652-0677.



IN ESCROW

SUN VILLAGE C312

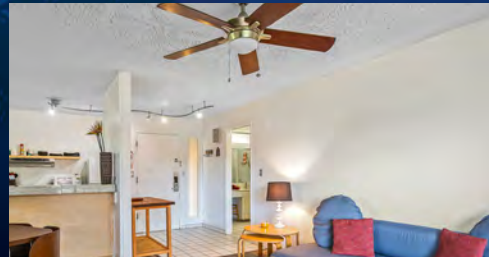
Leasehold property. Beautifully remodeled and partially furnished one bedroom condominium at Sun Village. Lowest priced Sun Village currently available! Nice renovations including hickory cabinets, solid surface counters, cook top, tiled shower/bath with grab bars, newer doors and solar film on the windows to keep things cool. Beautiful condominium designed to be a true one bedroom. \$209,900(lh). Call: Karen L. Agudong, REALTOR BROKER (808) 652-0677.

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

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

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

Branch Office Address: 4210 Hanahao Place Ste 203, Lihue, HI 96766



SOLD!!

PLANTATION HALE A-4

Excellent Opportunity to work from home for an affordable condo on Kauai! Beautiful ground floor corner condominium located on the Coconut Coast! Sold completely furnished and turn key and ready to move in. \$278,000(fs). Call: Karen L. Agudong, REALTOR BROKER (808) 652-0677.



SOLD!!

1199 NOHEA STREET, KALAHEO

Gorgeous 5 bedroom Custom home with over 3200 sf of living area. Beautiful Ocean and Mountain Views, located in the Kakela Makai Oceanview Subdivision on the South side! Many upgraded features! Call: Karen L. Agudong, REALTOR BROKER (808) 652-0677.



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.

Kaua'i Island Utility Cooperative
Currents

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EDITOR

Beth Tokioka

CONTRIBUTORS

Dee Crowell, Amy Doubet-Devitt, Karissa Jonas, Janet Kass, Jim Mayfield, Shelley Paik, Jennifer Paton, Allan A. Smith

ON THE COVER

Kaua'i Community Science Center Industry Partnership Program interns, from left, are Jo Ann Canty, Kaori Koerte, Joveline Alvarez, Hali'a Moriguchi, Benedict Uri, Joseph Sams and Brielle Lo. Not pictured: Areck Yamamoto. Photo by Sarah Styan

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.

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 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 under News and *Currents*.

KIUC is an equal opportunity provider and employer.

Chairman's Message

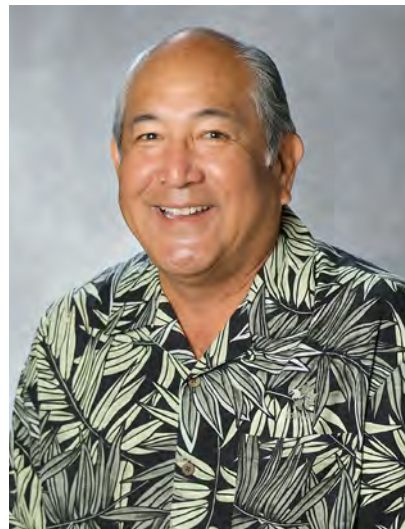
As we head into fall, our leaders in Washington, D.C., are poised to pass a bill that will dedicate billions of dollars in coming years to much-needed infrastructure upgrades and expansion.

The so-called infrastructure bill has been debated and discussed. We hope it will soon become law. The bill includes many opportunities for funding support for energy storage, renewable technologies, electric vehicles, broadband and more.

At KIUC, we are actively researching projects and initiatives for which federal support could be requested. Undoubtedly, other entities on Kaua'i and throughout the state are doing the same.

KIUC's members are fortunate because our Congressional delegation is aware of our cooperative's successes as well as our needs. During the past six months, all three of our representatives—Sens. Mazie Hirono and Brian Schatz and Congressman Kai Kahele—have reached out to us to discuss our needs relative to operations, renewables and more.

We will continue to work with our partners at the local, state and federal levels to access funding and policy support wherever possible.



Be safe and be well,
Allan A. Smith

Board Actions

Below is a summary of some of the actions taken by the KIUC Board of Directors in June and July 2021.

June 30, 2021, Annual Meeting of the Board

Motion carried, approval of the 401K plan amendment.

Motion carried, approval of the 2022 board election date of Saturday, March 19.

Motion carried, approval of the 2021-2023 Moss Adams proposal.

Motion carried, Board Policy No. 14, KIUC policy procedure and practice formulation, review and approval; reviewed, approved with proposed change.

Motion carried, Board Policy No. 18, board member qualifications and eligibility; reviewed, approved with proper change.

Motion carried, Board Policy No. 3, rules governing board meetings; reviewed, approved to eliminate.

July 27, 2021, Board Meeting

Motion carried, approval of CBRE power purchase agreement.

Motion carried, approval of 2021 budget variance request on Aepo feeders, additional \$100k (Eng BAR).

Motion carried, Board Policy No. 6, employment of related persons, review and approval; reviewed, approved with proposed change.

Motion carried, confirm Region 9 appointments of Dee Crowell on Resolutions Committee, Peter Yukimura as voting delegate and Jim Mayfield on Nominating Committee.



Storage Is the Question—and the Answer

By Janet Kass

KIUC has been buying and using batteries to store solar energy for several years. So, do we have enough storage now? How do we measure how much storage we have and if we have enough?

Measuring how much energy storage we have is the easy part. There are standard ways to do that. We have 47 megawatts of storage capacity associated with our large solar facilities that can provide us with up to 230 megawatt hours of electricity each day. But is that enough? And how do we measure “enough”?

Our annual peak electrical demand generally occurs around 8 p.m. on a weekday evening in the summer as a result of people going inside as it gets dark and turning on their air conditioners, ovens and lights. Peak demand occurs when we have a lot of visitors on the island—coupled with abnormally warm and humid weather—requiring a lot of electric use.

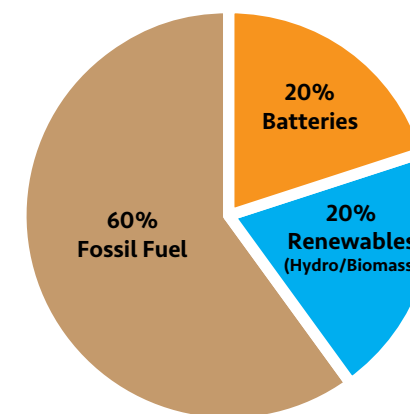
In recent years, our annual peak use has been between 75 to 80 MW. On most sunny days, our solar farms are able to charge batteries to full capacity. For that annual peak hour of demand, our energy storage can meet about 60% of our

electricity needs. But that's just one hour out of the year.

There must be a better way to answer the question.

Let's try a more nuanced query. If we look at the average energy consumed during all nighttime hours, how much of that consumption can be met by the solar energy stored in our batteries? Here are the actual numbers for 2020:

Sources of Nighttime Power in 2020



As you can see, there is still a large gap to fill to reach 100% renewable. But there is good news. Our newest solar-plus-storage array at the Pacific Missile Range Facility, which came online this year, has

added up to 74 MWh of renewable power to our overnight dispatch capability.

For our next project, KIUC plans to use a different type of energy storage facility. The West Kaua'i Energy Project will use solar energy to pump water uphill during the day, where it will be stored in a reservoir instead of a lithium ion battery. During the night, we will release the water back downhill to generate electricity with new hydroelectric turbines. The process is called pumped storage hydro.

When WKPE becomes fully operational, it will meet 40% of our nighttime energy needs, significantly offsetting fossil fuel consumption. When we count the contribution of WKPE, 80% of our nighttime energy needs and 100% of our daytime energy needs will be met by a combination of renewable resources.

Will that be enough storage? Probably not. We still need to plan for extended periods of cloudy days and for additional growth in energy use—particularly from electric vehicles—but it is a great start. Our KIUC family has some fun, worthwhile challenges to keep working on as we move closer to our goal of 100% renewable energy. 🌞



Making Powerful Connections

By Beth Tokioka

Interns meet with industry partners via Zoom.

It's a project that could change the look of renewable energy across the globe, with a group of Kaua'i students positioning themselves as experts in the groundbreaking technology that will power it.

"We were so excited to partner with KIUC and AES on the West Kaua'i Energy Project," said Sarah Styan, founder of Kaua'i Community Science Center.

KCSC was awarded a County of Kaua'i Innovation Grant earlier this year, which allows a group of eight students to explore how solar can couple with pumped storage hydro technology to create renewable energy on Kaua'i's west side. Students from Waimea High School, Kaua'i High School and the University of Phoenix comprise the innovation grant cohort.

Industry Partnership Program

Collaborating under the umbrella of KCSC with support from Sciencecenter in Ithaca, New York, and STE(A)M Truck out of Atlanta, the students first spent time with personnel from KIUC and its renewable partner AES to understand how pumped storage hydro powered by solar energy will work. The cohort built a model of the project using recycled materials and created an informational PowerPoint presentation critiqued by the partners and edited accordingly.

"It's so important for the public to understand the West Kaua'i Energy Project and to be engaged as it moves forward through various approvals and stages of development," said KIUC Engineering and Technology Manager Cameron Kruse. "Working with these students is really inspiring. They have

great questions, learn very quickly and can now explain the project in ways the general public can easily understand."

The next step is for the students to develop innovative ways for KIUC and AES to reach out to the community and foster deeper understanding of the importance of the project and its benefits.

"The students are so creative, and they have access to incredible tools, such as 3D printers, laser cutters and drones," Sarah said. "We can't wait to share what we're doing with the greater community."

Joveline Alvarez, a sophomore at Waimea High School, says the collaboration with partners has been an incredible experience.

"Learning about the WKEP and the groundbreaking technology behind it has been so beneficial in broadening my knowledge of renewable energy and its importance," she said. "I can't wait for what the rest of this project has in store for us."

What is KCSC?

Kaua'i Community Science Center is a 501(c)(3) organization that focuses on connecting science and community by increasing access to science, growing science literacy, promoting climate change awareness and creating a safe and respectful environment for its team and the community. KCSC puts students in the lead when developing programs, content and activities through project-based learning experiences that model and promote the 21st century learning skills of collaboration, communication, critical thinking and creativity.

KCSC offers numerous science- and technology-based programs, serving all age groups from K-12. One example is HOTspot events, which are held at neighborhood centers throughout the island. HOTspots offer students, teachers and parents access to Wi-Fi, allowing them to connect with each other over fun, informal science activities.

"We're really trying to address the so-called STEM talent crisis by partnering with students, private industry and others to promote 21st century learning skills," Sarah said.

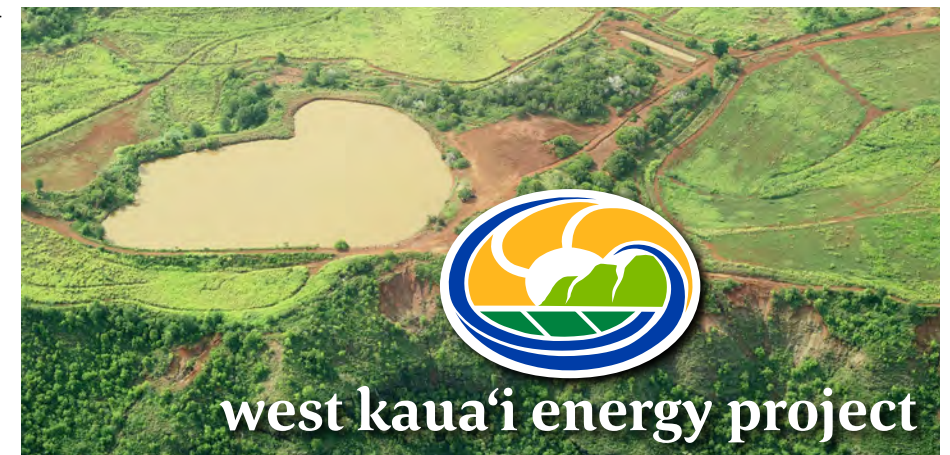
What's next?

The KCSC IP cohort is working toward making community presentations on the technology that will power WKEP, along with refining community outreach strategies that KIUC and AES can use in the future.

"The students are also looking forward to visiting some existing KIUC and AES facilities and attending upcoming WKEP Talk Story Tuesday sessions on the west side," Sarah said. "It'll help deepen their understanding of how Kaua'i is transforming to a 100% renewable grid."

The County Innovation Grant will fuel the partnership through April of next year.

"We're excited about making this a win-win-win for students, our cooperative and the community at large," Sarah said. 🌱



west kaua'i energy project

talk story tuesdays

4:30 p.m.

September 14
October 12

November 9
December 14

Join representatives from KIUC and AES
for an open discussion on this
important renewable project.

Please check KIUC's Facebook page for meeting locations.



Shopping for an EV

Should you buy an electric vehicle? Yes. But when? It depends.

By Jim Mayfield

In the next five to six years, it will make sense for almost all of us to own an electric vehicle. But when should you buy an EV?

If you live in a house with an electric outlet—or a potential outlet—in your garage, carport or where you park your vehicle, “when” is sooner than later. If not, you probably should wait until there is a more robust network of EV chargers on Kaua’i.

Is your taxable income at a level that allows you to use the current or proposed future federal tax credits? If yes, don’t wait too long. You never know when the tax credits will end. Up to \$7,500 is a lot of money.

Do you own a business that allows you to apply a substantial tax deduction toward the purchase price? If yes, think sooner than later.

How important is it to you to make Kaua’i quieter and know you’ve done something to minimize worldwide climate change? If it’s important, start looking now. Including the additional CO2 required to mine the lithium for the battery, EVs emit roughly one-third the CO2 as internal combustion engine vehicles in the first five years. Because 65% to 70% of KIUC’s electricity is produced by renewable resources, the purchase of an EV on Kaua’i does more to reduce CO2 emissions than almost any car purchased in the United States today.

How many years until you buy a new vehicle? Will it be new or a used vehicle? If you’re looking for new, many EV models are coming out in the next 12 months, including SUVs and trucks from more than half of all major national/

international manufacturers. There’s no need to wait more than one to two years.

If you will be buying a used vehicle, you can wait five years or more, because the current availability of used EVs is modest. Plus, the 2020-2025 EVs should have a much larger battery with extended range than older models.

Will your next new vehicle be a truck, SUV or sedan? If a truck, wait a year or two. The first three trucks—including the iconic Ford F-150 and Tesla Cybertruck—should hit the market in late 2022. If you’re looking for a sedan or SUV, start window shopping now. There are a number of new model EV sedans coming in the next five months.*

How many years do you expect to keep your next car? If five years or longer, start thinking about which EV is best for you. The savings in maintenance and energy costs will likely offset most, if not all, the additional cost of the vehicle. That excludes the federal tax credits. Consumer Reports stated last year, “Owning an electric vehicle will save the typical driver \$6,000 to \$10,000 over the life of the vehicle compared to owning a comparable gas-powered vehicle.”

Newer-model EVs should have the same level of depreciation as ICE vehicles during their initial five years, after taking into consideration the initial federal tax credits.

Whether you should start shopping for an EV in the next few months or within the next five years, you should absolutely start planning now.

*These are U.S. release dates, which may differ for Hawai’i availability. 🌱



Board Chair Allan Smith checks out a Tesla vehicle at an open house event.

KIUC Annual Membership Meeting Highlights

By Beth Tokioka

More than 100 KIUC members joined the board of directors for the cooperative’s Annual Membership Meeting on July 21. The meeting was held via Zoom for the second year in a row.

“We so look forward to meeting with our members face-to-face again,” said Board Chair Allan Smith. “Next year will be KIUC’s 20th anniversary, and we expect that to be a very special celebration.”

During the meeting, CEO David Bissell expressed gratitude to KIUC’s members and employees for weathering a particularly challenging year in 2020.

“In spite of the numerous challenges of COVID-19, there were many great things to appreciate last year and so far in 2021,” Bissell said.



KIUC's Jonah Knapp, left, and Cory Gokan unload cases of rice for delivery.

The CEO’s presentation included financial and project updates. Highlights from 2020 included:

- ❖ The number of rooftop solar systems on Kaua’i increased from 388 in 2010 to more than 5,400 in 2020.
- ❖ KIUC shifted approximately 19,923 megawatt hours of generation from fossil fuel to renewable energy and led the state with 67% renewable generation.
- ❖ KIUC led the state in reliability, logging 99.9891%—the best ever in the cooperative’s 19 years of operation.
- ❖ The KIUC board retired \$1.1 million in patronage capital credits to members to assist during these economically challenging times.

Bissell described recent efforts to minimize the impact of power lines on endangered bird species. Throughout 2020 and continuing this year, power lines are being reconfigured around the island to reduce bird strikes. So-called “bird diverters” are being installed on spans where line strikes are most likely to occur. The diverters are small reflective devices that alert birds to the presence of lines as they fly from mauka to makai after dark.

As was done last year, KIUC donated rice to Kaua’i’s two food banks prior to the meeting and awarded gift cards from local grocery stores to members who registered for the meeting via random draw.

A video of the meeting can be found on the homepage of KIUC’s website, www.kiuc.coop. 🌱



LED diverter.

Save Our Shearwaters

SEPT. 15-DEC. 15

This time of year, seabirds leave their nests at night and they are guided by the light of the moon out to sea. Unfortunately, light from urbanization on Kaua'i results in fallout. This is when birds are attracted to artificial lights by mistake and fall to the ground. Once grounded, these birds have difficulty taking flight on their own. This makes them susceptible to predators or being hit by vehicles.

Save Our Shearwaters is located next to the Kaua'i Humane Society and rehabilitates all native Hawaiian birds and the Hawaiian Hoary Bat. If you find a grounded bird, please drop the bird off at the nearest aid station (listed below).



CALL (808) 635-5117 OR GO TO SAVEOURSHEARWATERS.ORG FOR ASSISTANCE

AID STATION LOCATIONS

CENTRAL-EAST	NORTH	SOUTH	WEST
KAIĀKEA FIRE STATION KAPA'A FIRE STATION LĪHU'E FIRE STATION KAUA'I HUMANE SOCIETY	KĪLAUEA MEDICAL GROUP HANAIEI FIRE STATION HANAIEI LIQUOR STORE	KŌLOA FIRE STATION	WAIMEA FIRE STATION HANAPĒPĒ FIRE STATION KALĀHEO FIRE STATION

  @SAVEOURSHEARWATERS




DONATE TODAY



POWERING THROUGH A PANDEMIC

STAYING CONNECTED – STAYING SAFE

KIUC 2020 ANNUAL REPORT



A MESSAGE FROM THE CHAIRMAN AND CEO

Aloha!

When we sat down to write KIUC's story of 2020, we realized it was a year like no other. Some important milestones were reached:

- ❖ **Renewables:** Achieving 67% renewable would have seemed unthinkable ten short years ago, when our renewable production was still in single digits. And yet, in 2020, KIUC once again led the state in renewable production.
- ❖ **Reliability:** KIUC also led the state in system reliability: for the third time in the past five years. Reliability for 2020 was the highest it's been since KIUC became a cooperative in 2002.

Yet, these traditional measurements of success cannot fully capture the less-quantifiable efforts we've been focused on in 2020 as a result of the COVID-19 pandemic.

Literally overnight, KIUC's information technology and senior management teams transformed our workplace so that employees could either telework or operate safely from our facilities. Our member services personnel didn't miss a beat in maintaining a personal touch while assisting customers from a distance. The Energy Services team stepped up efforts working with commercial and residential members to save money via energy efficiency. Line crews adopted safety protocols to ensure addressing outages and restoring power was a seamless process.

We could go on and on, but you get the picture. Statistics certainly tell a story, but to measure the success of our efforts in 2020 we'll have to look far beyond the numbers.

KIUC's board and staff resolved to meet the challenges of COVID-19 head on. It's what we do in good times and bad, and it's what will bring us out of this unique moment in history stronger and more connected than ever.

Mahalo nui loa,



Allan A. Smith
Chairman



David J. Bissell
President and CEO



2 ■ KAUAI ISLAND UTILITY COOPERATIVE

AT A GLANCE

259.2 MEGAWATTS (MW)
GENERATION CAPACITY

74.8 MW
2020 PEAK DEMAND

MILES OF LINE

171 MILES TRANSMISSION
1,345 DISTRIBUTION

117 MW
OIL FIRED
GENERATION CAPACITY

142.2 MW
RENEWABLE
GENERATION CAPACITY

NUMBER OF METERS: 38,257
RESIDENTIAL: 77%

145.1 MILLION
TOTAL REVENUE 2020

415,291
MEGAWATT HOURS
SOLD IN 2020

JANUARY



David Bissell,
President & CEO, Kaua'i Island Utility Cooperative



KIUC's renewable accomplishments are featured in Blue Planet Hawaii's "We are 100" campaign

Construction bids are received for the new PMRF substation



A group of students and professors from Iwate, Hosei, and Nagoya Universities, hosted by Kaua'i Community College, visit KIUC to learn more about the cooperative and its progress on renewables



Island school students learn about energy at Kapaia Power Station



Members from the United Nations International Labor Organization tour the AES Lāwai solar+storage facility

CEO David Bissell reports to the KIUC Board the cooperative is closely monitoring the Coronavirus

FEBRUARY

4 ■ KAUAI ISLAND UTILITY COOPERATIVE

MARCH



KIUC staff participates in Kapa'a Elementary School Career Day



KIUC staff participates in Kaua'i Emergency Management Agency Coronavirus meetings

KIUC's Information Technology staff sets up KIUC employees with the tools necessary for telework

A moratorium on service disconnections due to non-payment is announced for KIUC customer accounts



KIUC member services closes to walk-in traffic due to the Coronavirus pandemic

APRIL

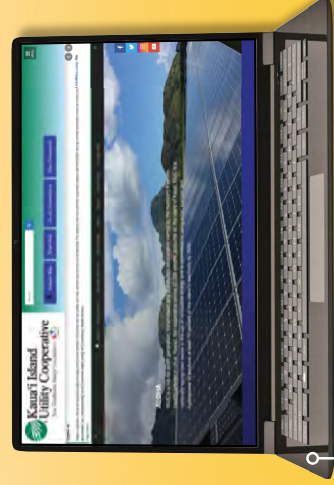
KIUC reports achieving 56% renewable for 2019 in its renewable standards portfolio report to the Hawai'i Public Utilities Commission (PUC)



Workplace safety protocols are established to protect KIUC employees from COVID-19



KIUC personnel participates in Mayor Kawakami's Kauai Economic Recovery Strategy Team meetings



KIUC's website is enhanced to provide additional payment and billing information along with COVID-19 resources

MAY



A Member Guide to Patronage Capital

KIUC's Board approves an early Patronage Capital retirement of \$1.24 million to members

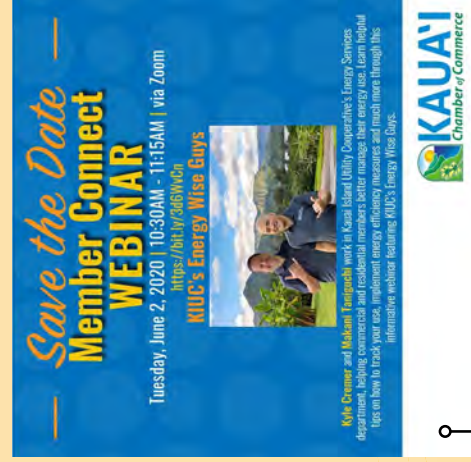
6 ■ KAUAI ISLAND UTILITY COOPERATIVE

JUNE



A Paycheck Protection Program loan is approved for KIUC to buffer COVID-related revenue losses

KIUC revenues for the month are down 15% from May 2019



KIUC's Energy Services team hosts a Kauai Chamber of Commerce webinar featuring energy saving tips for residents and businesses

Diverter installation for protection of endangered seabirds is completed in Kilauea



Line reconductoring work in Kekaha and Mānā is completed to support the new PMRF substation construction

JULY



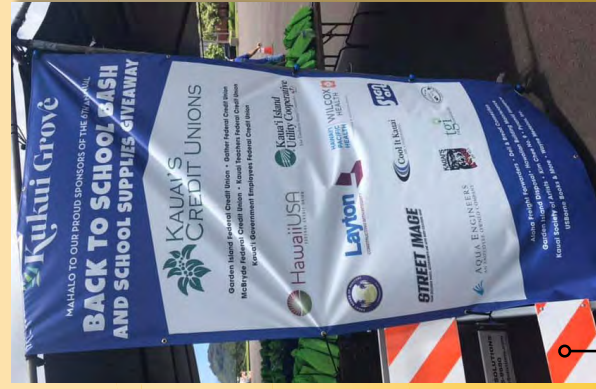
2020 Youth Tour was cancelled due to the pandemic. KIUC's delegates participated in Youth Tour Online with a weekly series of online content on leadership



KIUC conducts its first virtual Annual Membership Meeting and donates rice to Kauai's two food banks

AUGUST

KIUC and Kauai'i residents prepare for Hurricane Douglas, which thankfully minimally impacts the island



KIUC provides sponsorship support for the annual Back to School Bash hosted by Kukui Grove Shopping Center



SmartHub is enhanced to allow users to use GPS on their mobile device to send the location of an incident along with a photo.

The PUC approves KIUC's request to record and accrue lost gross margins (LGM) associated with the COVID-19 pandemic

8 ■ KAUAI ISLAND UTILITY COOPERATIVE

SEPTEMBER



KIUC's Board of Directors approves an additional \$520,000 to be spent for line configuration to protect endangered sea birds



KIUC's Calendar of Student Art goes virtual – enabling on-line artwork submissions for the 2020 contest

KIUC's call center activity has increased by 49% from 2019



Member Services reports new SmartHub registrations are up 75% year-to-date from 2019

OCTOBER



KIUC participates in National Drive Electric Week - The Future of EV's webinar



KIUC's Makana program, which enables members to contribute to the KIUC Charitable Foundation, grows to 176 members



Energy Services donates 1,000 bulbs to Alu Like for the Kumu Kahi Elderly Program

Kaua'i's COVID Resource Directory is sent to customers with October billings



358 new photovoltaic installations are completed so far in 2020

NOVEMBER



KIUC leadership meets with newly elected Congressman Kai Kahele

DECEMBER



KIUC employee donations to Kaua'i United Way hit all-time high of \$32,000

The Kaua'i Economic Opportunity Low Income Home Energy Assistance Program provides \$167,204 to assist 319 qualifying KIUC customer accounts



Construction on a new substation at the Pacific Missile Range Facility is completed, allowing for full output from the AES PMRF solar+storage facility



A development agreement is signed with AES Clean Energy for the West Kaua'i Energy Project, and a power purchase agreement for the pumped storage hydro project is filed with the PUC

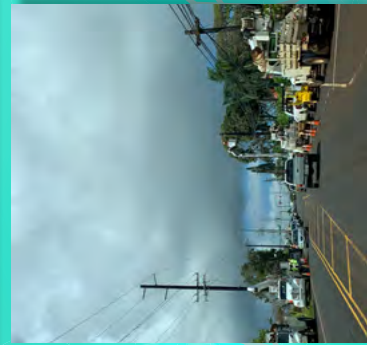
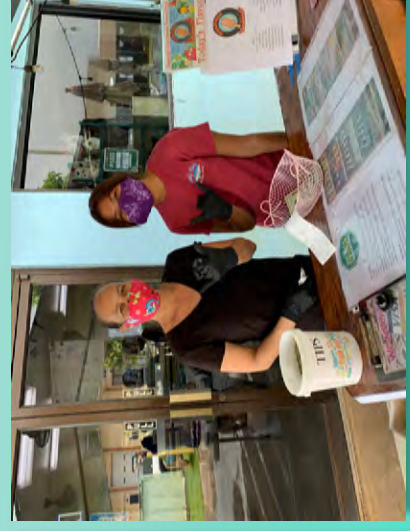
KIUC logs its best annual reliability statistics to date in 2020 and achieves 67% renewable generation for the year – leading the state in both categories



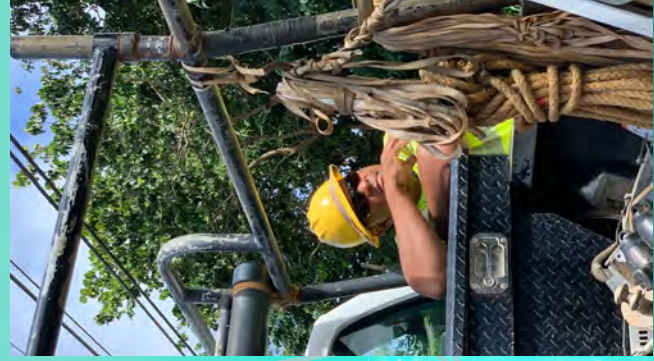
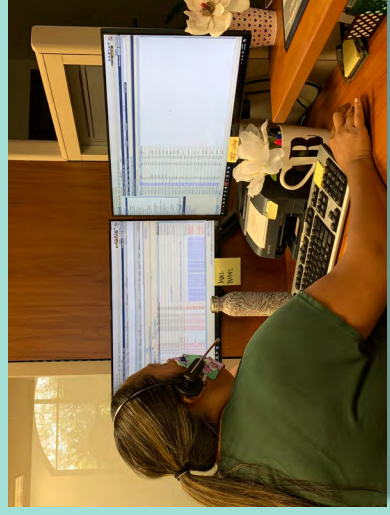
A COVID-compliant groundbreaking ceremony is held for the new \$8 million Anahola Service Center as KIUC awards the construction bids to two Kaua'i contractors

KIUC receives \$186,000 reimbursement from FEMA for expenses incurred during the April 2018 flood event

A YEAR TO REMEMBER



12 ■ KAUAI ISLAND UTILITY COOPERATIVE



Executive Board



Allan A. Smith
Chairman



Jan TenBruggencate
Vice Chair



Peter Yukimura
Treasurer



Cal Murashige
Secretary

2020 Executive Board

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
 3rd Assistant Secretary: David Iha

Board of Directors



Dee Crowell



David Iha



Janet Kass



Jim Mayfield



Phil Tacbian

2020 Board Committees

Executive

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

Finance & Audit

Chairman: Peter Yukimura
 Members: Janet Kass, Karissa Jonas,
 Jim Mayfield, Cal Murashige,
 Allan A. Smith

**Government Relations/
Legislative Affairs**

Chairman: Phil Tacbian
 Members: David Bissell, David Iha,
 Jan TenBruggencate,
 Peter Yukimura

International

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

Member Relations

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

Policy

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

Strategic Planning

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

**2021-2022 Nominating
Committee**

Chairman: Dee Crowell

For the period 01/01/2020 through 12/31/2020

KIUC achieved favorable financial results in 2020 despite the significant 9.9% decrease in electricity usage due to the severe economic downturn resulting from the COVID-19 pandemic. Revenues decreased 6.3% from the prior year, primarily due to reduced usage, along with lower fossil fuel prices and favorable purchase power pricing from the AES Lāwa'i solar plus storage facility.

In 2020, KIUC shifted approximately 19,923 MWh of generation from fossil fuel to renewable energy as compared to the prior year, leading the state with more than 67% renewable production. KIUC continues to pursue more renewable energy with a solar pumped storage hydro project, also known as the West Kauai Energy Project, which is anticipated to come on line in 2024. KIUC is working hard to reduce costs, operate efficiently and effectively, and preserve a strong financial position, while maintaining safety and reliability. Revenues, expenses, and net margins totaled \$145.1 million, \$137.7 million, and \$7.4 million, respectively, for the 12-month period.

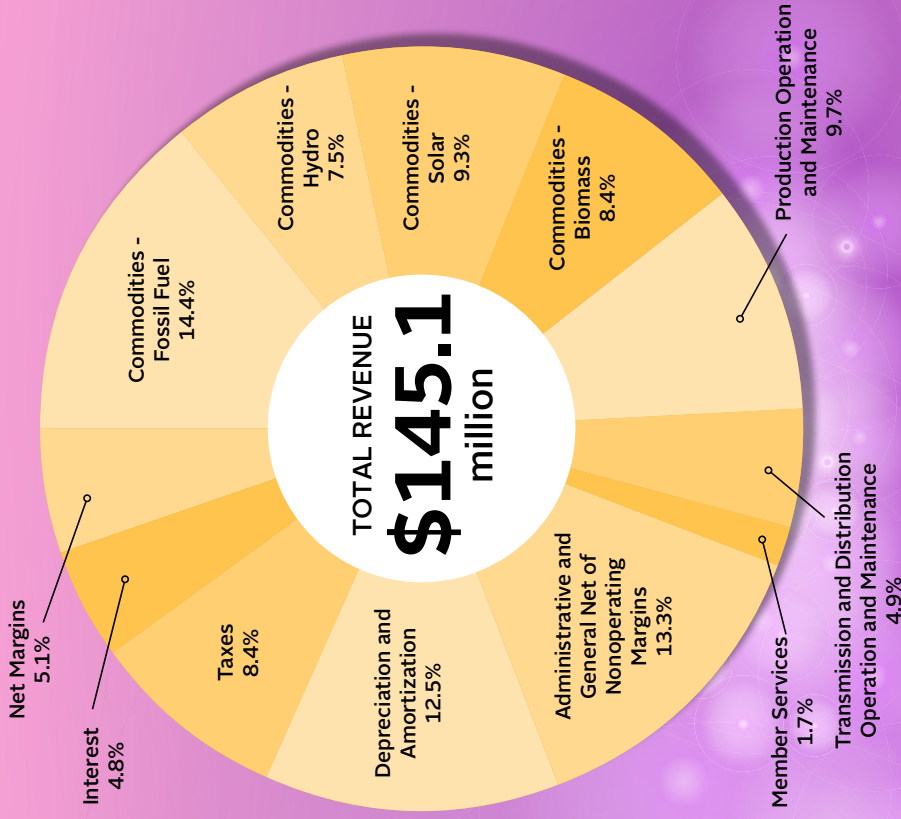
Power generation costs are KIUC's largest expense, totaling \$71.6 million or 49.3% of revenues. Commodities, which are fuel and purchased power costs, are the largest component of power generation totaling \$57.5 million. Currently, fossil fuel is the largest component of commodities, followed by solar, biomass, and hydropower. The remaining \$14.1 million represents the cost of operating and maintaining the generating units.

Expenses related to operating and maintaining the electric lines totaled \$7.0 million, while the cost of servicing our members totaled \$2.5 million. Administrative and general costs, which include legislative and regulatory expenses, engineering, executive, human resources, communications, safety and facilities, information services, financial and corporate services, and board of director expenses, totaled \$20.4 million.

The utility business is extremely capital intensive. KIUC's depreciation and amortization of the utility plant totaled \$18.1 million in 2020. Although not subject to federal income taxes, state and local taxes amounted to \$12.2 million last year. Interest on long-term debt, at a very favorable sub-5% interest rate, totaled \$7.0 million. Non-operating net margins added \$1.1 million to overall net margins. Revenues less total expenses equal margins of \$7.4 million or 5.1% of total revenue. Margins are allocated to consumer members and paid when appropriate.

Direct and non-direct financial benefits of our cooperative structure to KIUC members is significant. Since 2002, KIUC has returned \$41.9 million to members in the form of Patronage Capital Retirements and billing credits. In 2021, KIUC will return an additional \$1.1 million in patronal capital retirements. KIUC also contributed \$56,339 to local nonprofits and community organizations in 2020.

Indirect financial benefits of \$126.5 million to KIUC members, include patronage capital that is held by KIUC on behalf of its members to meet lender covenants, for investment in the utility's infrastructure and in renewable energy, and some may potentially be distributed at future dates as determined by the KIUC board.



CONSOLIDATED BALANCE SHEET

	December 31,	
	2020	2019
ASSETS		
UTILITY PLANT AT COST		
Electric Plant in Service	\$ 569,601,287	\$ 564,460,743
Electric Plant Acquisition Cost	54,852,453	54,852,453
Accumulated Depreciation and Amortization	(335,297,183)	(320,418,964)
Net Electric Plant in Service	289,156,557	298,894,232
Construction Work in Progress	30,089,269	11,514,072
Net Utility Plant	319,245,826	310,408,304
OTHER INVESTMENTS		
Investments in Associated Organizations	1,811,645	1,685,096
Rural Economic Development Loans	337,500	533,624
Total Other Investments	2,149,145	2,218,720
CURRENT ASSETS		
Cash & Cash Equivalents	17,968,559	14,965,696
Restricted Cash & Cash Equivalents	1,614,136	1,420,871
Other Investments	-	-
Accounts and Notes Receivable (Less allowance for doubtful accounts of \$879,696 in 2020 and \$90,000 in 2019)	10,881,315	10,731,858
Accrued Unbilled Revenue	7,349,891	8,186,977
Energy Rate Adjustment Clause	8,833	-
Inventories	16,334,353	15,175,032
Other Current Assets	2,012,977	2,033,572
Total Current Assets	56,170,064	52,514,006
POST-RETIREMENT BENEFIT ASSET	13,384	-
DEFERRED DEBITS	27,774,550	17,768,525
Total Assets	\$ 405,352,969	\$ 382,909,555
EQUITIES AND LIABILITIES		
EQUITIES		
Memberships	\$ 565	\$ 550
Patronage Capital	126,559,857	120,656,689
Other Equity	984,074	887,665
Post-retirement Benefit Obligation Gain (Loss)	(1,028,145)	(1,274,950)
Controlling Equity Interest	126,516,351	120,269,954
Capital Account - A&B KRS II LLC	17,827,510	18,229,782
Non-Controlling Equity Interest	17,827,510	18,229,782
Total Equities	144,343,861	138,499,736
LONG -TERM DEBT, Less Current Maturities	214,961,063	191,547,700
POSTRETIREMENT BENEFITS OBLIGATION	-	341,773
ASSET RETIREMENT OBLIGATIONS	2,740,170	2,638,910
CURRENT LIABILITIES		
Current Maturities of Long-Term Debt	14,064,298	16,638,186
Line of Credit	-	-
Accounts Payable	7,538,593	9,979,444
Energy Rate Adjustment Clause	-	239,490
Consumer Deposits	1,283,952	1,413,870
Accrued Employee Compensation	2,680,504	2,297,599
Accrued Taxes	6,221,731	7,192,948
Other Current and Accrued Liabilities	645,895	803,328
Total Current Liabilities	32,434,973	38,564,865
DEFERRED CREDITS	10,872,902	11,316,571
Total Liabilities and Equities	\$ 405,352,969	\$ 382,909,555

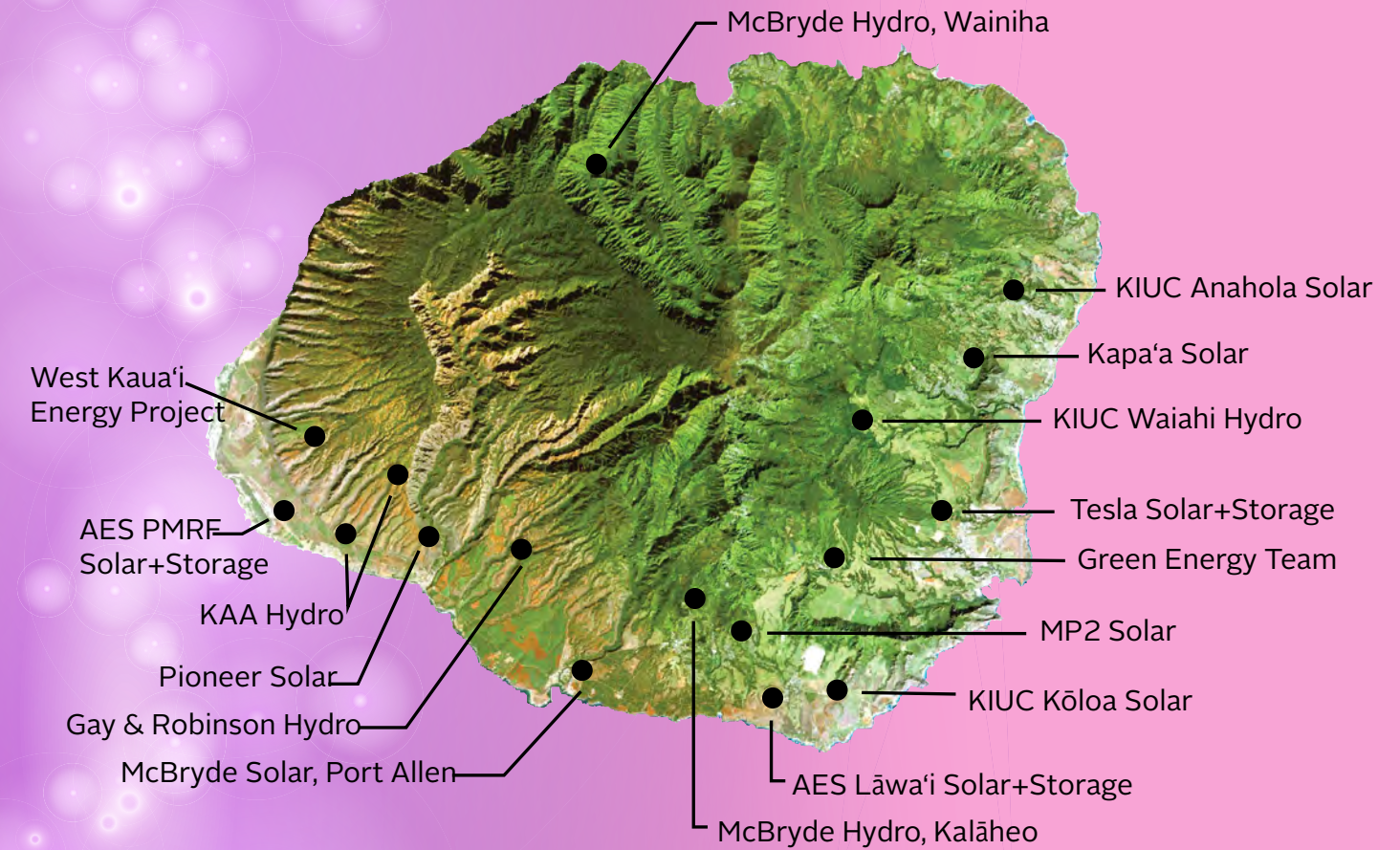
CONSOLIDATED STATEMENT OF INCOME AND PATRONAGE CAPITAL

	Year Ended December 31,	
	2020	2019
OPERATING REVENUES		
Residential	\$ 59,717,210	\$ 63,200,462
Irrigation	183,919	95,379
Commercial and Industrial	75,391,161	90,488,809
Public Street and Highway Lighting	665,798	681,986
Other Operating Revenues	9,188,729	450,840
Total Operating Revenues	145,146,817	154,917,476
OPERATING EXPENSES		
Power Cost	71,564,840	85,048,216
Transmission - Operation	346,338	467,105
Transmission - Maintenance	727,483	662,743
Distribution - Operation	1,651,701	1,412,194
Distribution - Maintenance	4,344,278	4,173,054
Customer Accounts	2,225,091	2,006,102
Customer Service and Information	268,046	288,952
Administrative and General	20,440,998	18,577,720
Depreciation and Amortization	18,087,417	17,913,329
Taxes	12,251,285	13,096,209
Accretion Expense	101,260	96,565
Other Interest Expense	-	-
Total Operating Expenses	132,008,737	143,742,189
OPERATING MARGINS - Before Interest	13,138,080	11,175,287
INTEREST ON LONG-TERM DEBT	6,964,658	6,668,594
OPERATING MARGINS	6,173,422	4,506,693
NONOPERATING MARGINS		
Interest Income	798,746	1,061,091
Capital Credits	255,259	314,351
Other Nonoperating Income (Expense)	128,043	648,778
Total Nonoperating Margins	1,182,048	2,024,220
EXTRAORDINARY INCOME	-	262
NET MARGINS	7,355,470	6,531,175
Net Loss (Margins) Attributable to Non-controlling Interest	59,272	694,531
NET MARGINS - COOPERATIVE	\$ 7,414,742	\$ 7,225,706
PATRONAGE CAPITAL - BEGINNING OF YEAR		
Allocation of Net Margins	7,414,742	7,225,706
Patronage Capital Retired	(1,511,574)	(2,859,949)
PATRONAGE CAPITAL - END OF YEAR	\$ 126,559,857	\$ 120,656,689

CONSOLIDATED STATEMENT OF CASH FLOWS

	December 31,	
	2020	2019
OPERATING ACTIVITIES		
Net Margins	\$ 7,414,742	\$ 7,225,706
Adjustments to Reconcile Net Margins to Net Cash from Operating Activities		
Depreciation and Amortization	18,603,593	18,382,189
Accretion of Asset Retirement Obligation	101,260	96,565
Interest Earned on Cushion of Credit	(750,147)	(773,599)
Capital Credit Allocations	(255,259)	(314,351)
Net Margins Attributable to Non-controlling Equity Interest	(59,272)	(694,531)
Change in Assets and Liabilities:		
Accounts Receivable and Unbilled Revenue	687,629	506,056
Energy Rate Adjustment Clause	(248,323)	(517,390)
Inventories and Other Current Assets	(1,138,726)	(514,139)
Deferred Debits	(10,006,025)	(3,794,226)
Post Retirement Benefit Obligation	(108,352)	13,900
Payables and Accrued Expenses	(5,968,873)	355,828
Deferred Credits	(443,669)	(663,571)
Net Cash from Operating Activities	7,828,578	19,308,437
INVESTING ACTIVITIES		
Additions to Utility Plant, Net	(24,788,756)	(14,727,497)
Rural Economic Development Loans	196,124	298,855
Other Investments	128,710	5,144,820
Net Cash Used for Investing Activities	(24,463,922)	(9,283,822)
FINANCING ACTIVITIES		
Borrowings from Long-Term Debt	33,373,250	4,776,000
Principal Payments on Long-Term Debt	(11,783,628)	(15,739,273)
Net Activity on Line of Credit	-	-
Distribution to Non-controlling Equity Interest	(343,000)	(380,585)
Memberships	15	17
Other Equities	96,409	120,728
Retirement of Patronage Capital	(1,511,574)	(2,859,949)
Net Cash from (used for) Financing Activities	19,831,472	(14,083,062)
CHANGE IN CASH AND CASH EQUIVALENTS	3,196,128	(4,058,447)
CASH AND CASH EQUIVALENTS - BEGINNING OF YEAR	16,386,567	20,445,014
CASH AND CASH EQUIVALENTS - END OF YEAR	\$ 19,582,695	\$ 16,386,567
SUPPLEMENTAL DISCLOSURE OF CASH FLOW INFORMATION		
Cash Paid During the Year for:		
Interest	6,944,069	6,668,594
Income Taxes	13,129	12,826
Noncash Investing Activities:		
Liabilities Incurred for Utility Plant Additions	2,652,359	2,867,113

KIUC RENEWABLE MAP



	Type	MW	% of Sales
Active In Use			
KIUC, Kōloa	Solar	12.0	4.8
KIUC, Anahola	Solar	12.0	4.7
Green Energy Team	Biomass	6.7	11
McBryde, Port Allen	Solar	6.0	2.6
McBryde, Wainiha/Kalaheo	Hydro	6.0	4.6
KIUC, Waiahi	Hydro	1.5	0.6
Gay & Robinson, Olokele	Hydro	7.3	8.7
KAA, Waimea/Kekaha	Hydro	1.5	0.3
Pioneer, Waimea	Solar	0.3	0.1
Kapa'a Solar	Solar	1.0	0.4
Tesla Solar+Storage	Solar	13.0	5.1
AES Lāwa'i Solar+Storage	Solar	20.0	9.9
AES PMRF Solar+Storage	Solar	14.0	.6
MP2, 'Ōma'o	Solar	0.3	0.1
Customer Solar	Solar	40.6	13.3
Under Development			
West Kauai Energy Project	Hydro	24.0	23.2

Total Renewable Energy in Service 2020
142.2 MW/67%

Potential Renewable Energy in Service 2025
166.2 MW/85%

VISION, MISSION AND CULTURE

Vision — Improve the quality of life for KIUC's members and Kaua'i

Mission — Be an energy solutions leader by:

- ❖ Safely providing reliable power that is fairly and competitively priced
- ❖ Encourage conservation and efficient use of energy resources
- ❖ Increasing sustainable power supply and environmental stewardship

Culture — The culture is shaped by several elements, all critical to KIUC's success. KIUC embraces the Seven Cooperative Principles and a Hawaiian-based values system, derived from an employee-adopted set of shared values called Ho'okā'ana Waiwai.



Printed on Kaua'i
using recycled paper.



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7 COOPERATIVE PRINCIPLES

Voluntary and Open Membership

Cooperatives are voluntary organizations, open to all persons able to use their services and willing to accept the responsibilities of membership, without gender, social, racial, political, or religious discrimination.

Democratic Member Control

Cooperatives are democratic organizations controlled by their members, who actively participate in setting policies and making decisions. The elected representatives are accountable to the membership.

Members' Economic Participation

Members contribute equitably to, and democratically control, the capital of their cooperative. At least part of that capital is usually the common property of the cooperative. Members usually receive limited compensation, if any, on capital subscribed as a condition of membership.

Members allocate surpluses for any or all of the following purposes: developing the cooperative, possibly by setting up reserves, part of which at least would be indivisible; 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 by their members and maintain their cooperative autonomy.

Education, Training and Information

Cooperatives provide education and training for their members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. They inform the general public, particularly young people and opinion leaders, about the nature and benefits of cooperation.

Cooperation Among Cooperatives

Cooperatives serve their members most effectively and strengthen the cooperative movement by working together through local, national, regional, and international structures

Concern for Community

While focusing on member needs, cooperatives work for the sustainable development of their communities through policies accepted by their members.

Simply the Best

KIUC Named Power Player of the Year by Smart Electric Power Alliance

By Beth Tokioka

Kaua'i Island Utility Cooperative was one of eight electric utilities recognized in July as "Power Players of the Year" by the Smart Electric Power Alliance.

"This year's Power Players award winners showcase innovative projects, partnerships, individuals and ideas transforming our industry," said SEPA president and CEO Julia Hamm. "This innovation and leadership are more necessary now than ever."

SEPA is a nonprofit organization that helps address the most pressing issues encountered in the smart transition to a carbon-free energy system by 2050 by providing education, research, standards and collaboration around a clean and modern energy future.

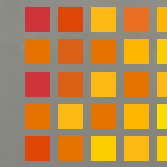
KIUC earned its award in the category of Electric Cooperative of the Year for moving its small, island grid assertively toward 100% clean power generation in just 10 years. By achieving 67% renewable in 2020, operating at 100% renewable on almost a daily basis for a cumulative total of thousands of hours since late 2019, leading the state in reliability last year and providing rate stability for members, KIUC demonstrates for the world that a clean energy future is within reach.

In its award announcement, SEPA said, "KIUC is unique in the world in achieving 100% renewable on nearly a daily basis."

SEPA further noted, "KIUC's transition to renewables has resulted in more stable and lower rates, as members are increasingly buffered from the financial impacts of volatile oil pricing and benefit from a majority of their power being supplied via long-term power purchase agreements that are competitively or lower-priced compared to fossil fuel."

"We're proud to receive this national recognition and will continue to focus on innovation as we forge our path to 100% renewable," said KIUC President and CEO David Bissell.

The eight winners were selected from a record-breaking competitive field of more than 100 nominees. 🌟



Smart Electric
Power Alliance





YT 2017 delegates, from left, are Larissa Tsai, Leanna Thesken, Riley Davalos and Emily Sullivan.

Where Are They Now?

Leanna Thesken, Youth Tour 2017

By Beth Tokioka

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

A: I was born and raised in Kōloa and graduated from Kauaʻi High School. I participated in Youth Tour in 2017 and served as Hawaiʻi’s delegate for the NRECA’s Youth Leadership Council. I am a senior at Point Loma Nazarene University in San Diego studying media communication and public relations.

Q: What was most memorable for you about Youth Tour?

A: Years later, I am still taken aback by my Youth Tour experience. Participating in the Youth Leadership Council was by far the most memorable. It was incredible to work with 43 students from 43 different states in various leadership workshops. It took me out of my comfort zone and led me to create lifelong friendships with student leaders across the nation.

Q: Tell us about your college experience so far.

A: My college experience has been anything but normal. It feels like I was just a college freshman yesterday. In the blink of an eye, I am entering my final year of college. Moving to the mainland for higher education has broadened my horizons. I am grateful for the opportunity to meet people from all walks of life and experience different cultures.



Leanna captures KIUC’s donation to Kauaʻi’s food banks in 2020.

Q: You spent a summer working at KIUC with our communications team. How did that experience help you with your school and career path?

A: My Youth Tour experience propelled me into the career I am now pursuing. Youth Tour gave me the opportunity to learn about and explore the power of cooperatives. The lessons I learned through Youth Tour directly applied to my role as KIUC’s communications assistant. Working with KIUC’s communications team helped me gain experience in communications and taught me valuable lessons about being a leader in Kauaʻi’s community.



Leanna represents KIUC with fellow YLC delegates at the National Rural Electric Cooperative Annual Meeting in Nashville, Tenn.

Q: You’re back in school now and still working with the KIUC communications team. Tell us about that.

A: Thanks to the help of the KIUC communications team, I am working with Pioneer Utility Resources in Oregon as their magazine publishing and social media marketing Intern. I am using my insight, skills and knowledge to create social media content for KIUC.

Q: A few years ago, you spent some time at Kalaupapa on Molokaʻi. How did that experience affect you?

A: My family and I had the honor to volunteer at Kalaupapa. Words or pictures cannot do the place justice. Through our volunteer work, we learned about what makes the land so unique. The spirit of Kalaupapa lies in its people—a living piece of Hawaiʻi’s history. It was a once-in-a-lifetime experience that gave me an even greater appreciation for rural communities.



From left, Bill, Leanna, Patrick, and James Thesken at Kalaupapa.



Leanna and college classmates work on a live TV segment for Fox News.

Q: The pandemic has affected your college experience. How have you successfully navigated the challenges presented by COVID?

A: Navigating college through a pandemic has definitely been challenging. I have learned to embrace the online experience by utilizing remote work opportunities. An online learning and working platform is not an ideal college experience, but it has taught me to lean into cultivating relationships through consistent communication. Whether it be through online lunch breaks, Zoom coffee catch-ups, video chats—the list goes on—I have discovered there is always a way to stay connected. I may not know the right answer to successfully navigate challenges presented by COVID, but if there is one thing I do know, it’s to never quit. Always work hard!

Q: What are your long-term career goals?

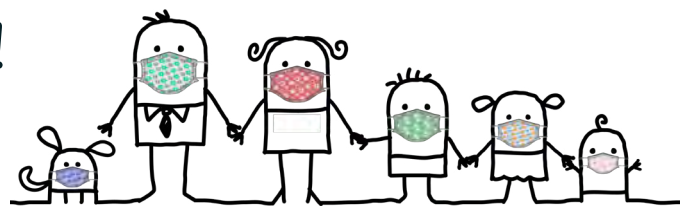
A: I aspire to become a public relations specialist for nonprofit organizations or not-for-profit organizations like KIUC. I hope to return home to Hawaiʻi and utilize my skills and assets to give back to the community that has given so much to me. Ultimately, I hope my career gives me the platform to give voices to the voiceless.

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

A: As a hometown island girl now living in the big city, I understand the overwhelming emotions of graduating high school and entering a new world. It is an exciting yet intimidating time. As you are pursuing your future career, I strongly encourage you to look for support within your small island community. I would not be where I am today without the help of Kauaʻi’s community members, leaders and teachers. Take advantage of whatever opportunities come your way. Always ask questions. Stay curious! 🌺

Keiki! Makua! Kūpuna! Kama‘āina!

“Getting back into the groove”



By Alyssa M. Murata, MD
Primary Care Pediatrics

Getting Keiki Back to “Normal”

Do: catch up on check-ups! Last year, many people chose to skip annual physicals if no shots were due and there were no health concerns. Understandable, since we were all trying to decrease our exposure to other people. However, now it is time for catching up. This includes check-ups with the dentist and optometrist (if needed) as well!

Do: return to in-person school Most children benefit from having face-to-face instruction and attention, and find that they can pay attention in class better. The isolation of online school also exacerbated mental health issues for many children and adolescents. Unless there is a specific health concern, such as an immune deficiency or having vulnerable household members at home, the American Academy of Pediatrics strongly recommends in-person learning this year. Talk to your doctor if there is a particular issue or diagnosis about your child that worries you about returning to in-person school.

Do: rejoin your normal extracurricular activities The combination of suddenly stopping sports/PE, losing a regular schedule, and having increased access to snacking without supervision while at home led to a dramatic increase in many of our keiki’s weight and BMI. Having routinely scheduled activities and exercise – such as recess, PE, sports practice, dance class, etc – greatly helps most kids to stay on track and stay active.

Don’t: stop masking up! The American Academy of Pediatrics suggests still masking up for school and when in large group settings. The CDC agrees that the best policy is to have everyone mask up, regardless of vaccine status, to encourage compliance and reduce the chance of any possible transmission.

We can still gather together with appropriate precautions in mind. We look forward to seeing our keiki thrive in a normal school setting and in their sports and extracurriculars again this school year!

“You Are Worth It!”

As we are getting back into our island groove, it is healthy and good to pause and take stock of where we are as individuals.

Are we as healthy as we possibly could be in our own life situation at this time in our lives?

COVID-19 and its variants have dramatically changed our lives and affected how we manage them going forward. Stress, pressures of work (or lack of) and family responsibilities can put a strain on our health and it is my hope that some of these tips can help bring back the positive life we lived pre-COVID and put you into a healthy groove of life.

YOU ARE WORTH IT!

The food we eat is the gas that runs the body car (so to speak) and it’s a fact that if we put gravel into this gas tank, we get poor function, disease and unfortunately early death. Gravel for our bodies are tobacco, methamphetamine/drugs, more than 1-2 alcohol drinks daily and too many carbohydrates.

Choose healthy foods, which we also love. I’ve included some recommendations of Hawaiian/Local Foods that are good for you: Local Greens (visit Farmers Markets), Vegetable Trays with Hummus/Almond Dip, Taro/Poi, Limu Seaweed Poke, Seaweed Salad, Sweet Potatoes, Ulu, Green Papaya Salad, Fruit Salads, Vegetable Spring Rolls, Edamame, Tofu Salad, Broccoli, Baked Fish (or Pan-Fried), Avocados and Vegetable Stir-Fry with Tofu. Edamame Noodles, Chick Pea Noodles and Brown Rice are a MUCH better choice and tastes similar to White Rice or noodles, which can lead to diabetes.

Daily exercise, spiritual peace, family and friends are super important and together with healthy food choices, will help us get back into the groove of an even healthier lifestyle. If you are interested in measuring where your mind and body is at, let us help you on your journey to “getting back into the groove.”

Enjoy life to the fullest - We got this Kaua’i!

By Cynthia D. Horton, MD
Family Medicine



HAWAII HEALTH SYSTEMS CORPORATION
KAUA’I REGION
E PONO MAU LOA
Always Excellent



“Kupuna keep on grooving”



By Christian Negard, MD
HHSC Geriatrician/Long Term Care Medical Director
MSc. Epidemiology

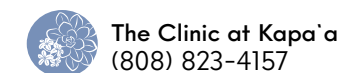
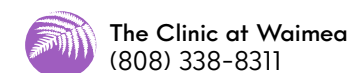
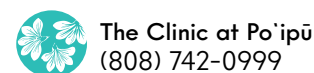
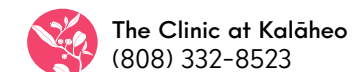
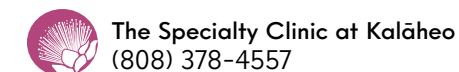
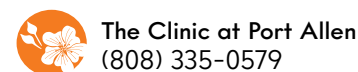
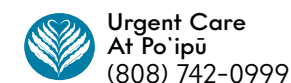
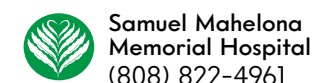
In my daily “trenches” of work as a geriatric physician I am a beach-comber of life stories. My patients often are penning their last chapters, the vast majority miraculously content and unambitious. Even the most broken and damaged people usually find a way to practice the art of being present. No more regret of yesteryear nor fretting about tomorrows. Yes I do I see a mix of stormy and turbulent personalities, but the majority are tranquil despite steadfast declines, dotted with silly, at times embarrassing moments. Indeed some are in a “rut”, but most are “in a groove” of tranquil and simple life moments.

I learn each day from my library of patients, and witness secrets to happiness. In particular I see three essential characteristics or life tricks observed from our advanced-age kupuna in long-term care, for “finding your groove”.

- 1. Modify your expectations.** Kupuna have simple tastes, and are easily made content with humble things; A warm dry bed, a square meal chopped to the right size, and maybe a little companionship. They don’t feel the sting of failed ambitions and goals and missed objectives. No more being “on-time” hurrray!
- 2. Keep the big thing “big” and the little things “little”.** Life is holy, caregivers have sacred and intimate duties, you can’t stress over the minute details in life, when perhaps your neighbor can’t walk, talk or swallow? Thank God for the legs and mind you have been given, go use them (a lot).
- 3. Practice Gratitude.** This frankly might be Hawaii’s greatest export. Use “aloha” to filter your words and actions. In an increasing negative world, the only antidote is showing kindness and being positive. I remember years ago I had a patient named Frances with developmental delay, I can still hear him talking like a three year old with a lisp. He said “Happiness is contagious and I want to infect the world with it”. When he said that it was a like a dagger of conviction going straight to your heart, especially considering how little he really had in life to be happy about. Frances practiced all 3 on this list.

Mark Twain (1835-1910) said, “Let us endeavor to live that when we come to die even the undertaker will be sorry.” This is a rally cry to leave a positive legacy. May “finding your groove” mean modifying your expectations based on knowing what is truly important, while practicing gratitude. COVID-19 has turned the world upside down, but perhaps it can really energize us to be more thankful with less?

Gratefully in your service, Christian Negard



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Statement of Operations

For the period 01/01/2021 – 07/31/2021

We are pleased to report the KIUC results of operations through July 31, 2021, are favorable. With the lifting of many of the coronavirus pandemic restrictions, KIUC is experiencing improved kilowatt-hour sales. The year-to-date electricity use on the island is 2% higher than in the prior year. However, payment delinquencies as of the end of July were more than 15 times higher than average.

In response to COVID-19 financial impacts to members, KIUC suspended service limitations and disconnections from the beginning of the pandemic through May 31, 2021. Effective June 1, 2021, the Hawai'i Public Utilities Commission lifted the suspension on disconnections. All members with past-due balances of 60 days or more must pay their outstanding balance or be on a payment plan. Members with past-due balances are encouraged to contact KIUC directly for options.

KIUC is doing everything it can, while maintaining safety and reliability, to reduce costs in various areas to operate efficiently and effectively and continue to maintain a strong financial position. The cooperative's financial team continues to work closely with its lenders and regulators to mitigate the financial effects of the coronavirus pandemic. Revenues, expenses and net margins totaled \$87.6 million, \$85.8 million and \$1.8 million, respectively, for the seven-month period ending July 31, 2021.

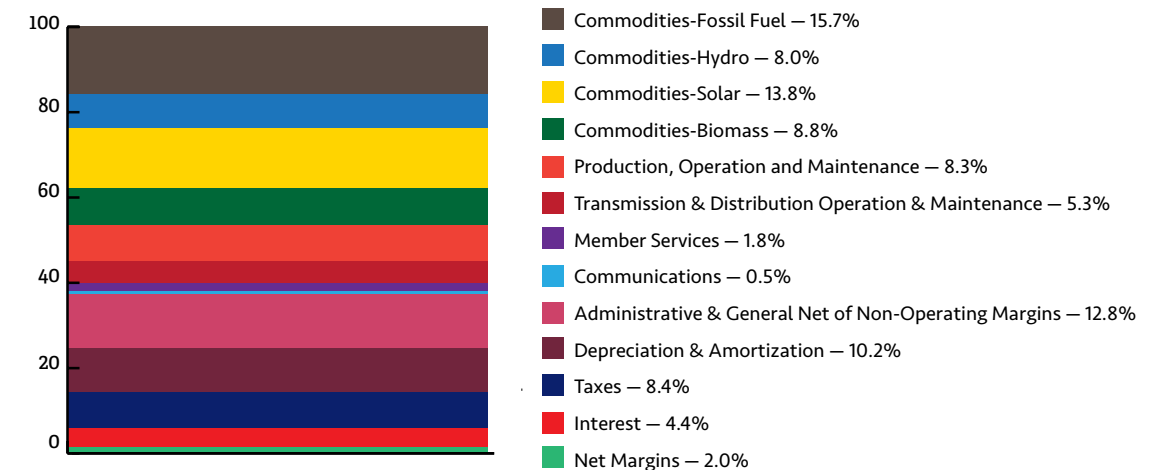
As is the case for all electric utilities, the cost of power generation is the largest expense, totaling \$47.9 million or 54.6% of revenues. Commodities, which are fuel and purchased-power costs, are the largest component of power generation, totaling \$40.6 million or 46.3% of revenues.

Fossil fuel is the largest component of commodities, totaling \$13.8 million or 15.7% of revenues. Other commodities include hydropower, totaling \$7.0 million or 8.0% of revenues; solar power, totaling \$12.1 million or 13.8% of revenues; and biomass power, totaling \$7.7 million or 8.8% of revenues. The remaining \$7.3 million or 8.3% of revenues represents the cost of operating and maintaining the generating units.

The cost of operating and maintaining the electric lines totaled \$4.7 million or 5.3% of total revenues. The cost of servicing our members totaled \$1.5 million or 1.8% of revenues. The cost of keeping our members informed totaled \$0.4 million or 0.5% 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 \$11.4 million or 13.0% of revenues.

Being capital intensive, depreciation and amortization of the utility plant costs \$8.9 million or 10.2% of revenues. Although not subject to federal income taxes, state and local taxes amounted to \$7.4 million or 8.4% of revenues. Interest on long-term debt, at a favorable sub-5% interest rate, totals \$3.8 million or 4.4% of revenues. Nonoperating net margins added \$0.2 million to overall net margins. Revenues less total expenses equal margins of \$1.8 million or 2.0% of revenues. Margins are allocated to consumer members and paid when appropriate. ☺

PERCENTAGE OF TOTAL REVENUE



MOSTLY STUFFED



Banana Pumpkin Applesauce "PUP" Cakes (Good for Hoomans Too)

- | | |
|----------------------------------|--------------------------|
| 3 ripe bananas | 1 teaspoon baking powder |
| 1 cup pumpkin puree | 1 teaspoon cinnamon |
| ½ cup applesauce, no sugar added | ½ teaspoon salt |
| 1½ cup flour | 3 large eggs |
| 1 teaspoon baking soda | |

Heat oven to 350 F.
Mash bananas with a fork. Combine with pumpkin and applesauce.
In a separate bowl, mix together the flour, baking powder, baking soda, cinnamon and salt. Whisk the eggs into the banana mixture. Slowly stir in the flour mixture.
Place batter in 12 lined muffin tins. Bake for 18 to 20 minutes or until a toothpick comes out clean.



Guava Cream Cheese Stuffed French Toast

- | | |
|---|---------------------|
| 1 loaf wheat bread, cut into 1½-inch to 2-inch slices | ¾ cup milk |
| 1 block cream cheese, softened | 1 teaspoon cinnamon |
| 4 tablespoons guava jelly | ½ block butter |
| 4 eggs | |

Combine cream cheese and guava jelly in a bowl. In a larger bowl, whisk eggs, milk and cinnamon. Cut each slice of bread on the edge almost all the way through but keep one side intact.
Spread guava cream cheese mixture in the bread. Dip into the egg/milk mixture to coat on both sides and partially soak through. Cook on medium heat in butter that has been melted in a skillet. Flip when browned on each side.



Mexicali Chicken



- | | |
|--|---------------------------------|
| 6 large chicken boneless skinless chicken thighs, cut into bite-sized pieces | 1 cup frozen peas |
| 1½ cups rice | 16 ounces chunky salsa |
| 1 can chicken broth | 1½ cups shredded cheddar cheese |
| | 1 can sliced olives |
| | 1 tablespoon butter |

Heat oven to 350 F.
Butter a 9-by-13-inch pan. Sprinkle rice in pan, then top with peas and chicken. Pour chicken broth and 1 cup of salsa into pan. Cover with foil and bake for 30 minutes.
Remove from oven and stir rice mixture. Add olives, and top with remaining salsa and cheese.
Cover with foil and bake for 45 minutes.

Stuffed Mini Peppers

- | | |
|--|---|
| 2 packages mini peppers, washed, tops removed and deseeded | 1 tray Italian sausage, casings removed |
| 1 block cheese | 1 cup frozen chopped kale |
| 2 cups shredded Italian-style cheese | 1 teaspoon dried pepper flakes |
| | 1 teaspoon salt |

Heat oven to 350 F.
In a skillet, brown sausage. Add salt, pepper flakes and kale. Cool mixture, then blend with cheeses. Place mixture in a plastic bag and cut the corner. Pipe mixture into peppers. Place in a pan coated with olive oil. Bake for 45 minutes.



Coffee and Donut Bread Pudding

- | | |
|---------------------------------|----------------------------------|
| 1 dozen donuts, cut into pieces | Sauce |
| 6 eggs | 1 container heavy whipping cream |
| 1 cup whole milk | 1 block butter |
| ¼ cup sugar | ⅓ cup semisweet chocolate chips |
| 1 tablespoon vanilla | 1 package Via instant coffee |
| 1 tablespoon cardamom | ¼ cup sugar |
| 1 teaspoon cinnamon | ⅓ cup unsweetened chocolate |
| 2 packages Via instant coffee | 3 tablespoons chocolate rum |
| ¼ cup hot water | |

Heat oven to 350 F.
Dissolve the coffee in hot water, then let cool. In a large bowl, whisk together eggs, milk, sugar, vanilla, cardamom and cinnamon. When coffee is cool, add to mixture. Add donuts, and coat with egg mixture. Place in an 8-by-8-inch pan that has been greased. Bake for 1 hour.
To make sauce, combine all ingredients in a saucepan on medium heat. Continuously stir until sauce thickens. Serve over bread pudding.



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Kaua'i Island Utility Cooperative **Currents**

HI-130

Fall 2021

Volume 18, Number 3

David Bissell

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