

A photograph of a campus scene. In the foreground, there are several black street lamps and a landscaped area with purple flowers and tall grasses. In the background, there is a white building with a red-tiled roof and a red door. The sky is overcast.

CSU CHANNEL ISLANDS SUSTAINABILITY REPORT

Second Quarter FY 2020-21

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- **FTES:** Full Time Equivalent Students
- **HCF:** Hundred Cubic Feet
- **kWh:** kilowatt hour
- **BTU:** British Thermal Unit
- **Potable Water:** Drinking water
- **Recycled Water:** Tertiary-treated waste water
- **Baseline:** the year(s) we compare current usage to (for water: 2013, for energy: average of 2008-2009 FY and 2009-2010 FY)

INTRODUCTION

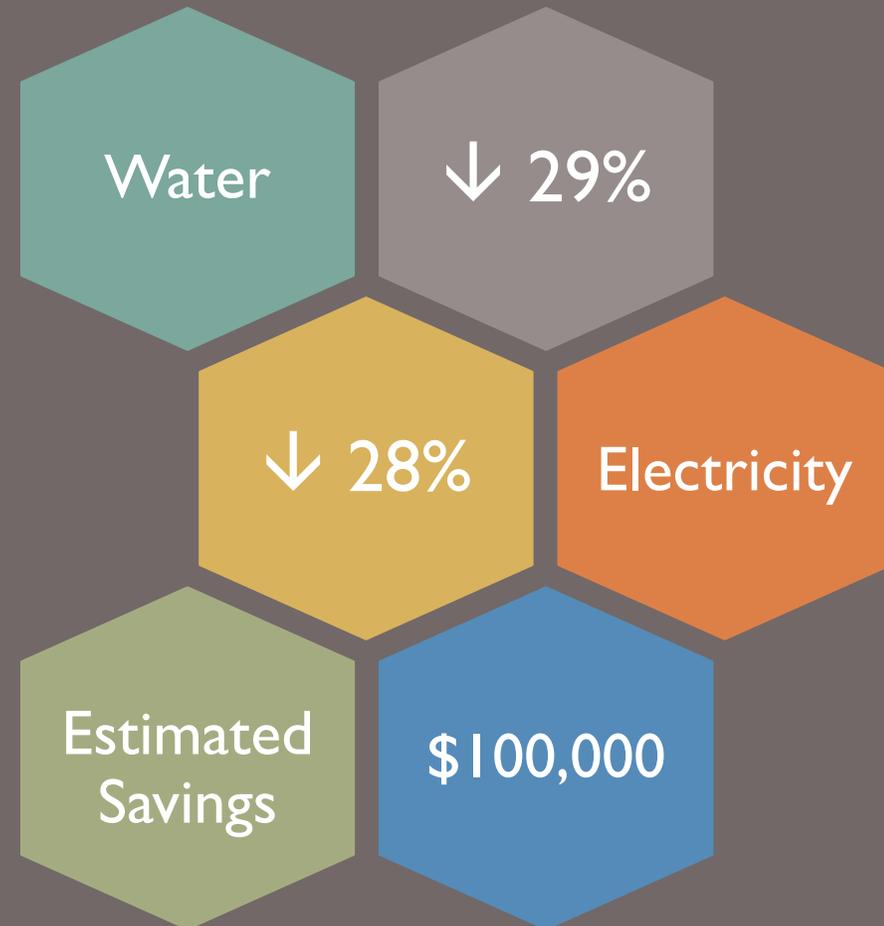
Sustainability and resource conservation are fundamental elements of operations at CSU Channel Islands (CI). CI's Strategic Initiatives feature a specific focus on sustainability, including the objective of "promoting sustainability as an integral part of University planning and operational activities."

As one measure of progress for the Capacity and Sustainability Strategic Initiative, this report provides an overview of utility usage on campus for the second quarter (October-December) of the 2020-21 fiscal year compared to past years. The report also highlights key sustainability initiatives coordinated by Facilities Services during this quarter, though it is not inclusive of all initiatives. The data for this report is collected from utility bills and campus sub-meters. Utility usage by the CI Power Plant and the University Glen community are not included.

THE IMPACTS OF COVID-19

Since March 17, 2020, CSU Channel Islands (CI) has maintained a reduced population on campus in response to COVID-19. Prioritizing safety for students and employees, CI chose to maintain virtual learning and working for the second quarter of FY 20-21, with only a few exceptions for classes and work that could not be completed remotely.

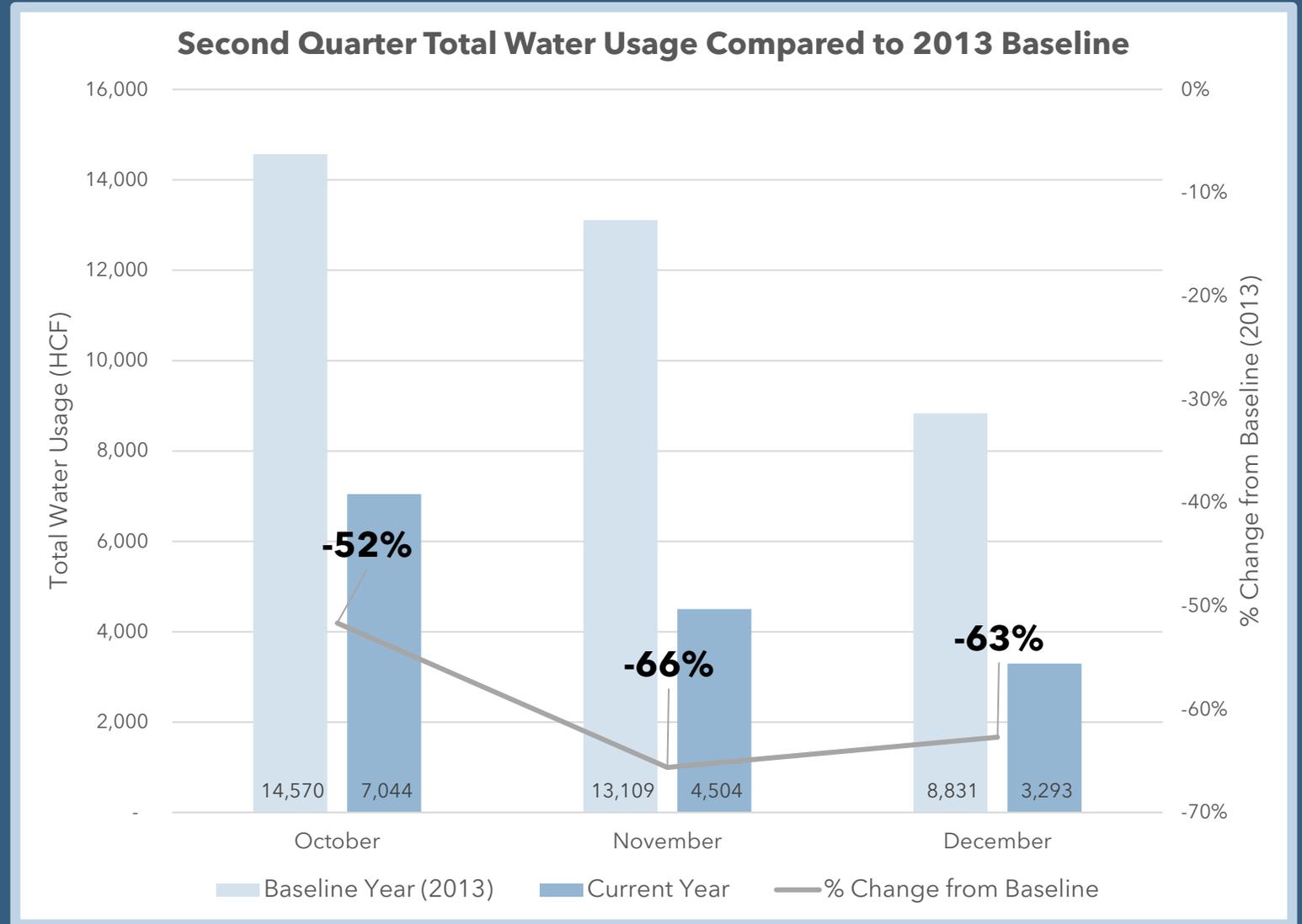
The campus depopulation in response to the coronavirus has resulted in significant reductions in electricity and potable water consumption for the second quarter of the 2020-2021 fiscal year.



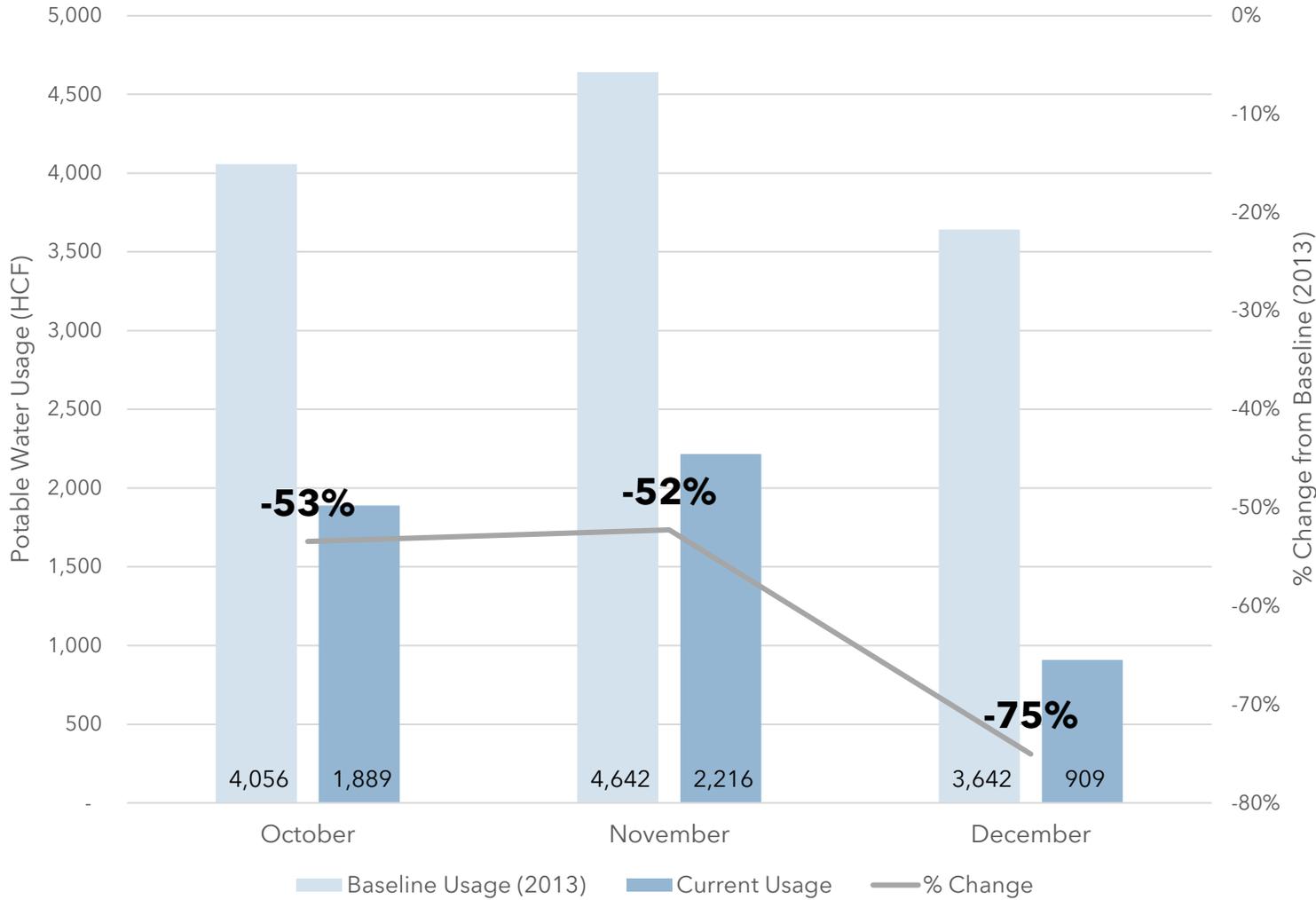
TOTAL WATER

Total Water is the combination of potable and recycled water usage. The CSU Office of the Chancellor has set a **goal to reduce total water usage 20% by 2020** compared to our 2013 baseline.

In the second quarter of FY 20-21, CSUCI **reduced total water usage 59%** compared to the baseline. This impressive reduction can mostly be attributed to the significant reduction of students and employees on campus due to the coronavirus.



Second Quarter Potable Water Use Compared to 2013 Baseline



POTABLE WATER

CI's water provider, Camrosa Water District, has requested a **15% reduction of potable water consumption** from the 2013 baseline.

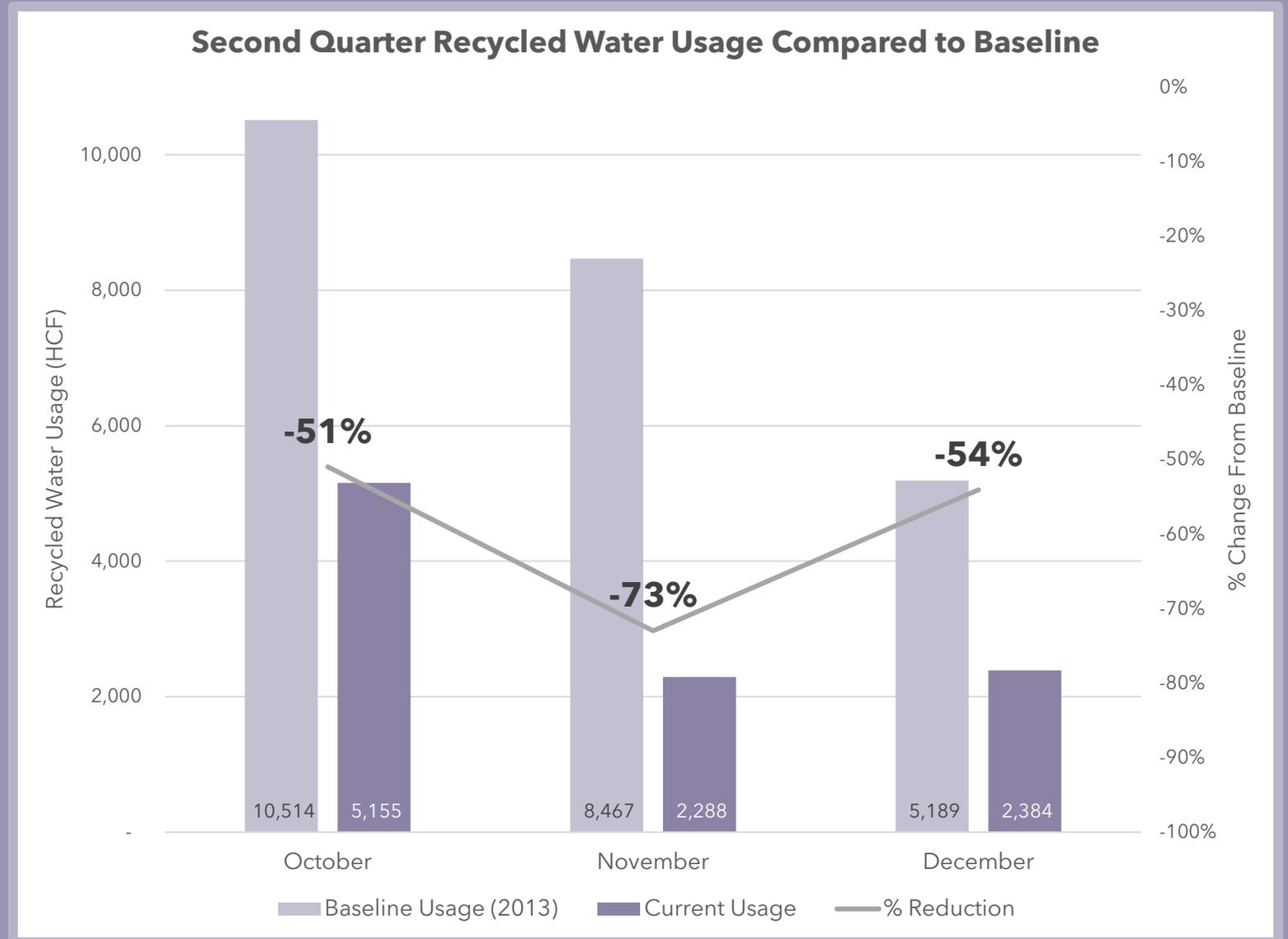
The campus realized a **59% reduction in total potable water usage** during the second quarter. As noted previously, this reduction is primarily due to a significant reduction in the population on campus due to COVID-19 safety precautions.

The reduction in potable water consumption this quarter has also saved an estimated \$19,821 in potable water expenses.

RECYCLED WATER

Recycled water reduction targets are included in CI's goal to **reduce total water usage 20% by 2020**.

Overall, **CI reduced recycled water usage 59%** during the second quarter of FY 20-21. The recycled water reduction is a result of the Landscape Services Department's commitment to implementing best practices to reduce irrigation needs on campus. The department is proactively reducing watering days, replacing water-intensive plants with drought-tolerant species, and performing routine testing and maintenance of the irrigation system to enable reduced irrigation needs, even during dry weather.





WATER CONSERVATION TIPS

💧 Use mulch in your garden.

There are many benefits that come with adding mulch to your garden. Not only does it help soil retain moisture so you don't have to water as much, but it also insulates the soil against temperature fluctuations and keeps weeds down.

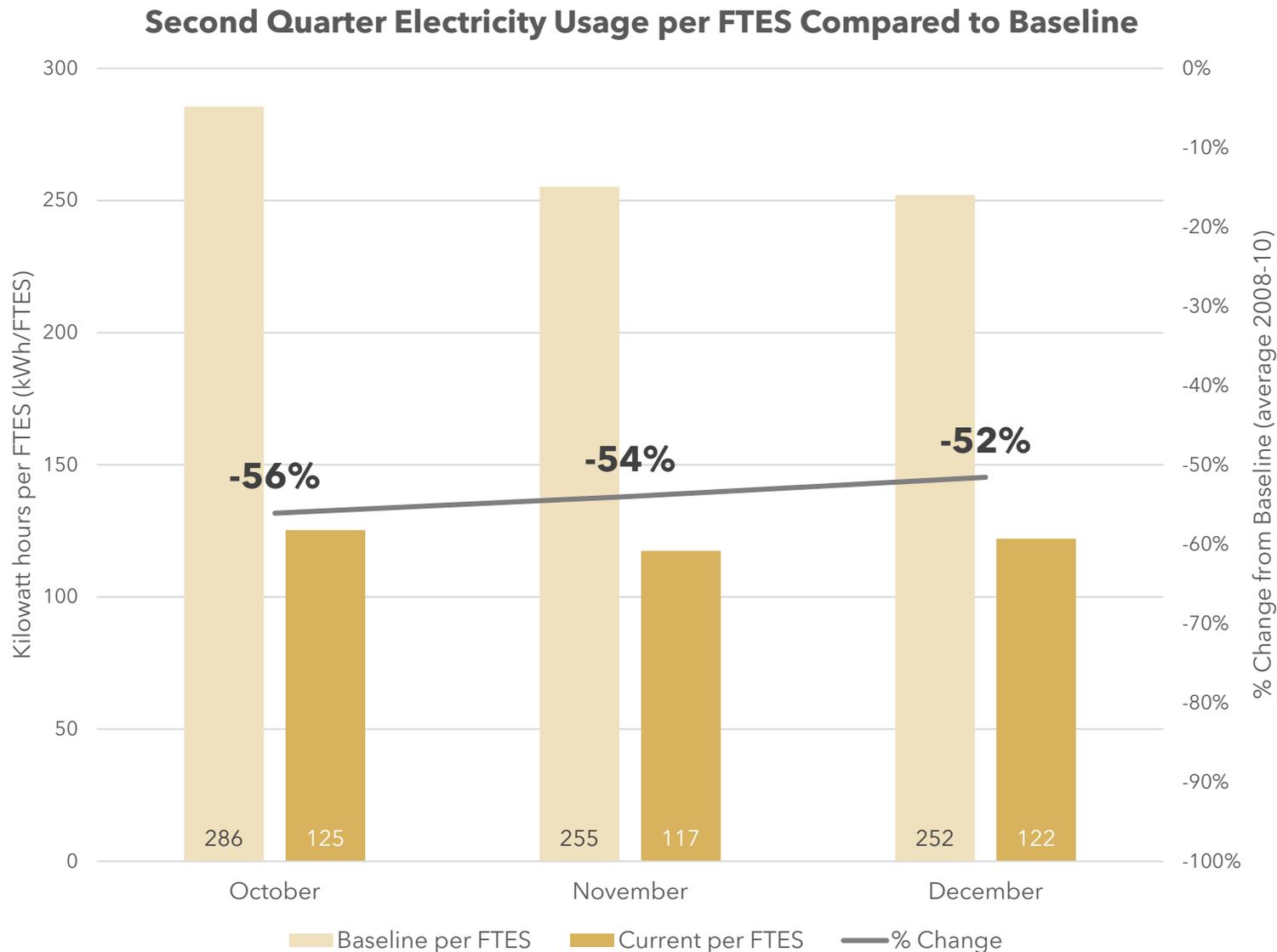
💧 Opt for showers, not baths.

Did you know that taking a bath can use nearly three times more water than a 10 minute shower?! Try to save the full bath experience as a special treat and rely on short showers for your regular bathing needs. This switch will save water, energy, and money!

💧 Get a water saving kit!

Did you know that So Cal Gas offers *free* water saving kits? If you are a So Cal Gas customer you can [order your free kit here](#). The kit includes faucet aerators and a low-flow showerhead to get your started on your water and energy saving journey.

ELECTRICITY



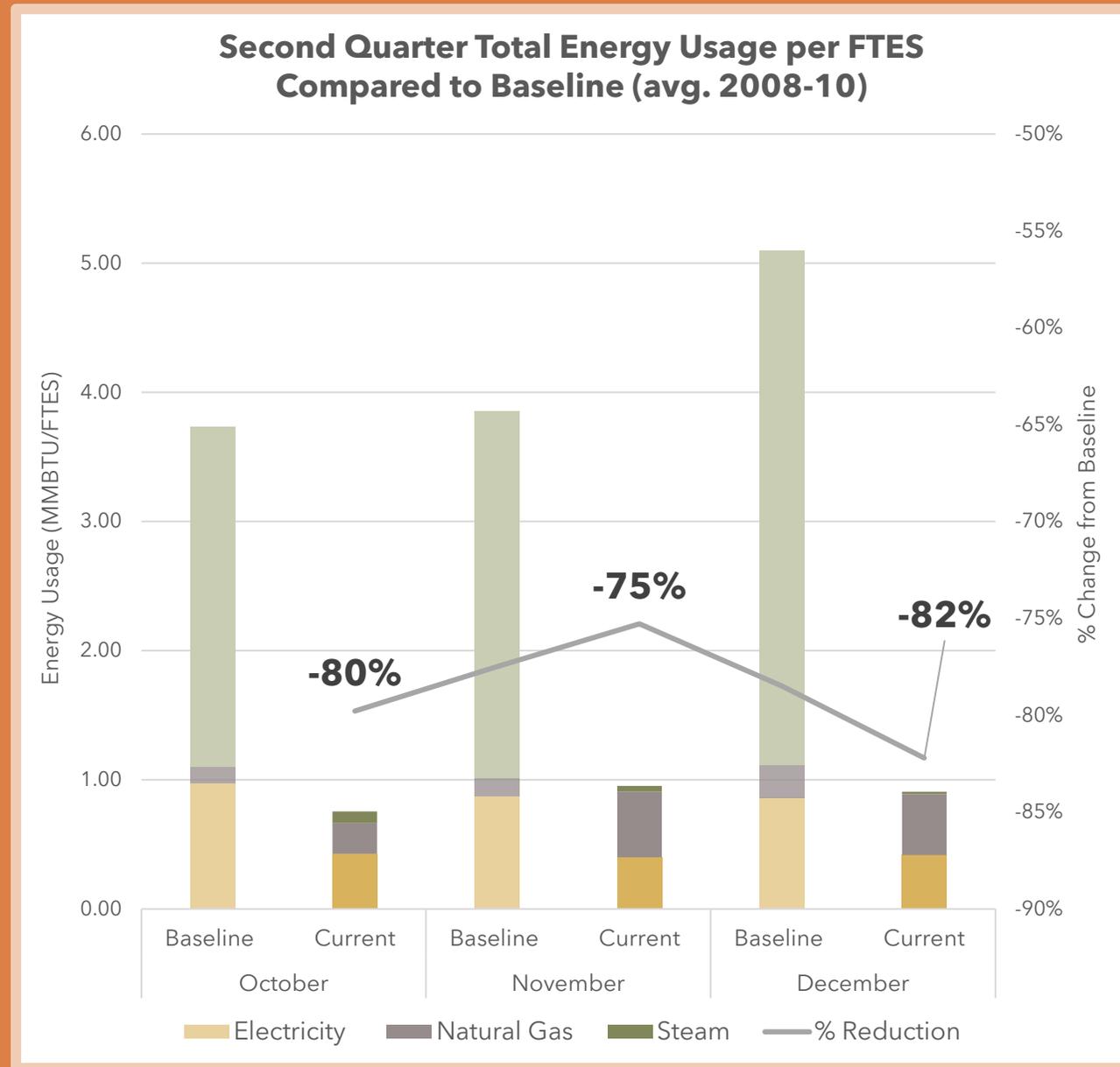
Electricity on campus is primarily used for cooling, lighting, vehicle charging, other equipment needs (i.e. fans, pumps, etc.) and plug load. Electricity is also used for heating in the Broome Library. The CSU Chancellor's Office set a **goal to reduce electricity usage 25% per FTES** from the baseline (average annual usage from 2008-2010).

Since the campus continues to operate in a primarily virtual environment during this fiscal year, electricity usage has **decreased 54% per FTES**. With less than 5% of classes being taught on campus, this figure can be misleading. Not adjusted for population, **total electricity usage has decreased 9%** compared to the baseline usage.

TOTAL ENERGY

Total energy accounts for all sources of energy on campus including electricity, steam and natural gas. Until April 2020, steam was the most abundant source of energy. It was used for the majority of heating hot water, chilled water for cooling, and providing space heating for campus. However, in April the campus transitioned to using natural gas boilers for space heating and heating hot water and electric chillers for cooling. Natural gas is also used for cooking.

CI's **goal is to reduce total energy 25% per FTES** compared to the baseline. Due to the extremely limited population on campus and the transition away from steam, this quarter **total energy usage decreased 79% per FTES**. Without normalizing the data based on population, the campus **reduced total energy consumption 59%** from the baseline during this quarter.





ENERGY CONSERVATION TIPS

✦ **Put your computer in energy saving mode.**

Many computers and mobile devices have energy saving settings you can switch on to use less energy while working on your device. If you can't find an energy saving setting, consider reducing your screen brightness and adjusting sleep mode settings to maximize energy efficiency while you work and rest.

✦ **Get energy savings assistance.**

Did you know that Southern California Edison has an Energy Savings Assistance program? The program is designed to help you conserve energy and save money. Income-qualified customers may be eligible to receive energy-efficient appliances at no charge or a minimal charge. Visit [their website](#) to apply.

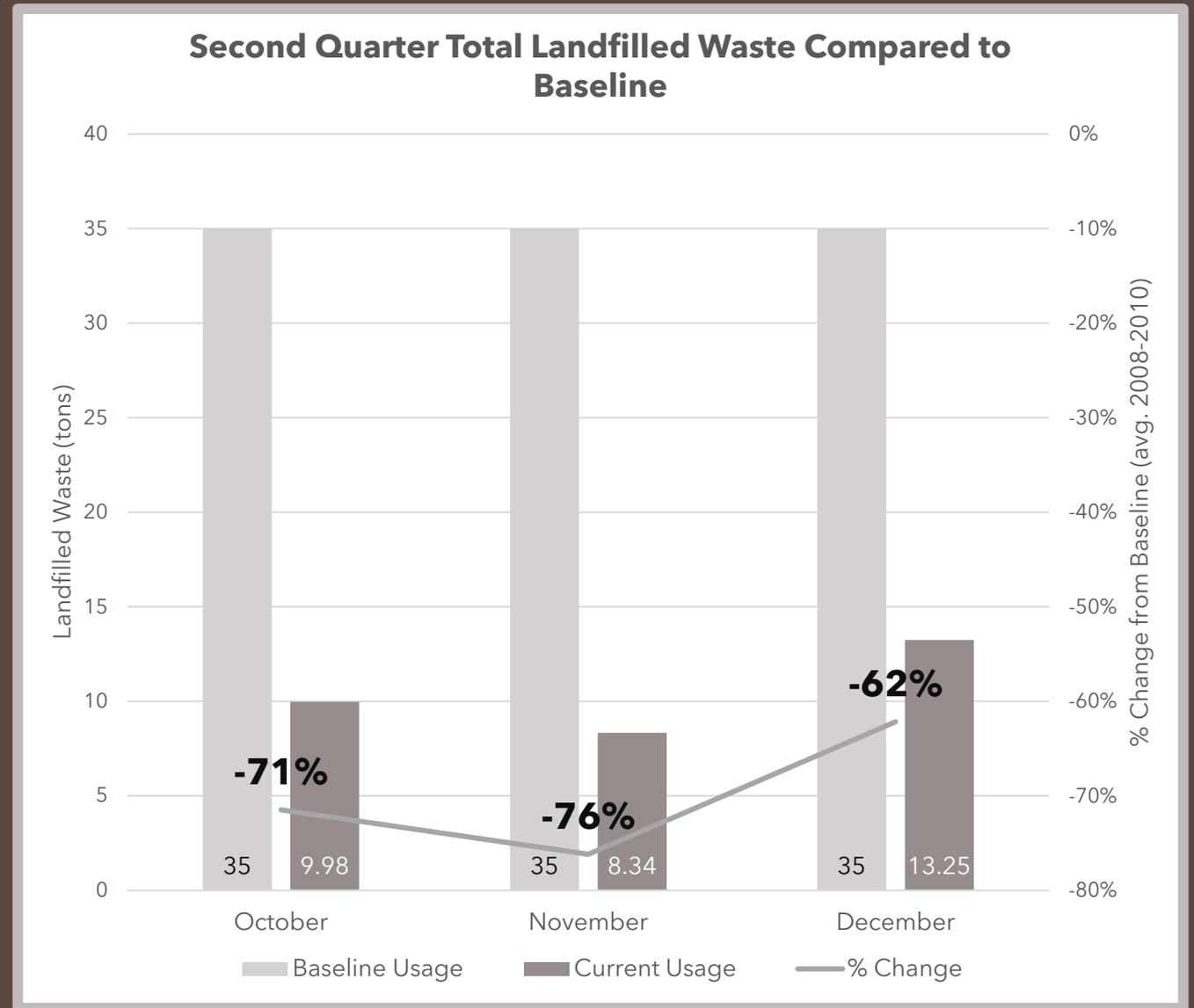
✦ **Air dry your dishes.**

A dishwasher can clean dishes more efficiently than hand-washing, but make sure to turn off the heated dry option. Letting your dishes air dry can save you more than \$20 per year and conserves energy.

LANDFILLED WASTE

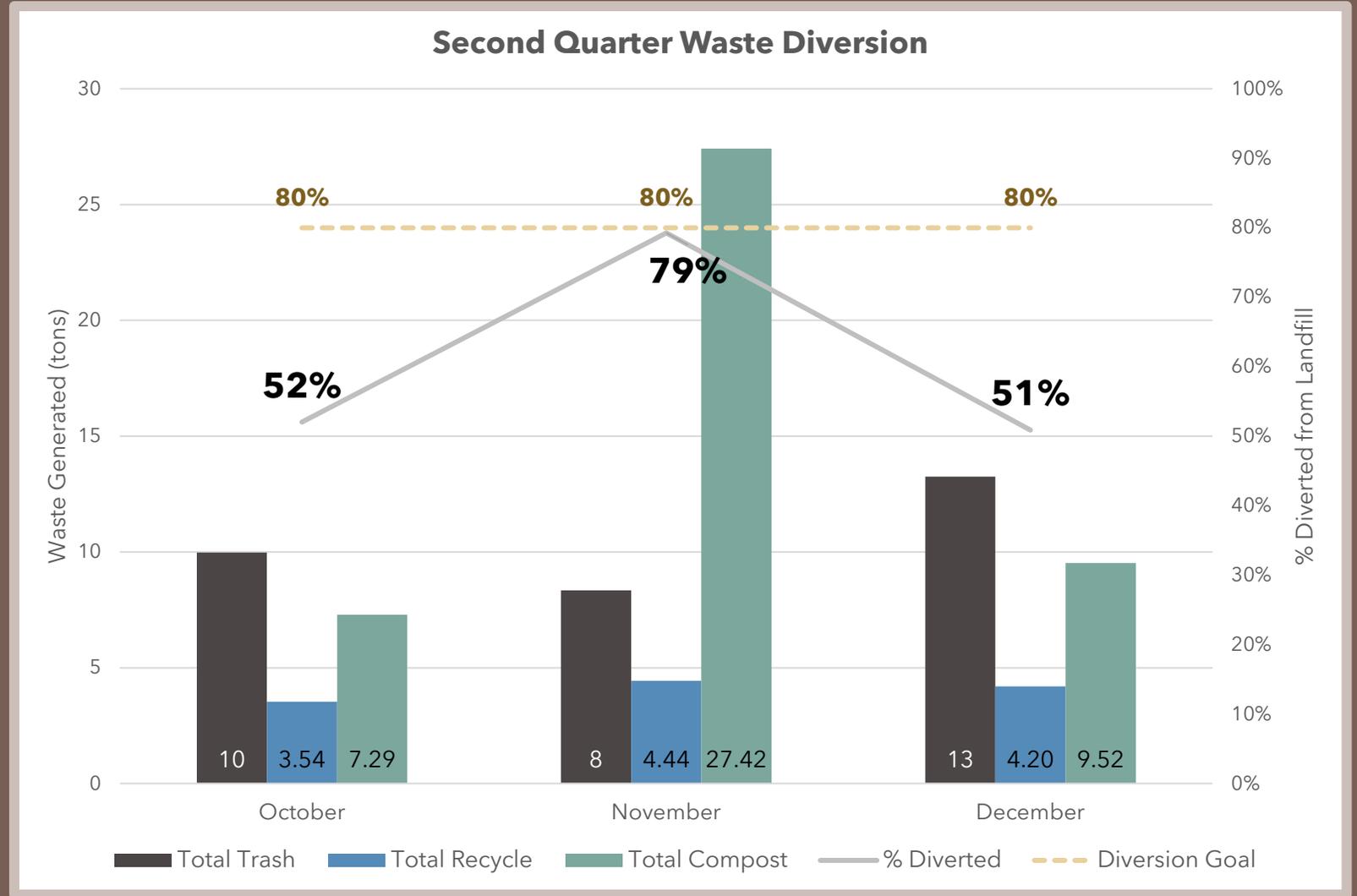
The CSU Chancellor's Office has set a **goal to reduce solid waste disposal by 80% by 2020**. Historically, the campus fluctuates around 50% reduction in solid waste disposal compared to the baseline. Due to the significantly reduced population on campus, we have realized a **70% decrease in waste disposal** during this quarter.

To maintain this level of waste reduction when the campus is fully occupied again, we must begin by reducing the amount of disposable waste used on campus, such as single-use plastics. Efforts to reduce waste disposal saves the university money and reduces greenhouse gas emissions.



WASTE DIVERSION

CSUCI typically diverts approximately 70% of campus waste from the landfill, falling 10% short of the **80% waste diversion goal** set by the CSU Chancellor's Office. The limited population on campus during the first quarter has resulted in greater fluctuations in the waste diversion rate. CI can make progress toward the 80% diversion goal by improving recycling efforts, composting pre- and post-consumer food waste, and reducing the amount of non-recyclable and non-compostable waste generated on campus.





WASTE MANAGEMENT TIPS

✓ **Buy food with less packaging.**

Next time you go to the grocery store look for food and products with less packaging. Reducing unnecessary packaging on food and other items reduces the waste you must haul to the trash and conserves resources.

✓ **Use reusable rags/cloths for cleaning.**

As we are all extra aware of cleaning surfaces right now, consider making the switch to reusable cloths instead of disposable paper towels. Washing cloths after each use make them a sanitary and eco-friendly option.

✓ **Ditch the bottled water.**

Bottled water may seem alluring, but it is often from the same sources as tap water and comes at a much high price. Opting not to buy bottled water can save you hundreds or thousands of dollars per year, depending on how much you drink.

CLIMATE JUSTICE SOCIAL JUSTICE

CONVERSATIONS EXPLORING THE INTERSECTIONS OF PEOPLE, PLANET & POWER

PANEL DISCUSSION AND Q & A WITH YOUNG MOVEMENT LEADERS

WED, OCT 14 | 12 - 1PM

LEAH THOMAS
INTERSECTIONAL ENVIRONMENTAL ACTIVIST

XIUHTEZCATL MARTINEZ
INDIGENOUS CLIMATE ACTIVIST

MODERATOR: BRE HOLBERT
Chico State AS President

Sustainability During COVID-19

With Guest Speaker: Roxane Beigel-Coryell



>>> GIVEAWAY <<<



Thursday, October 22 | 3:00-4:30PM

Eco-Friendly Giveaways: First 30 Dolphins to Register!



SUSTAINABILITY MONTH

October is national Campus Sustainability Month! For this year's Sustainability Month, Facilities Services' Sustainability office collaborated with campus and CSU partners to offer an array of virtual events to the campus community.

The month started off with a live sustainability tour of the campus, highlighting the many features and operational strategies designed to reduce negative impacts and improve the campus experience. We also partnered with campuses throughout the CSU to host two speaker events focused on the intersection of social justice and climate action.

To round out the month we supported the Student Publicity Center's Sustainability Trivia Night and teamed up with CI's Student Union team to present Sustainability During COVID to share information and tips to follow health guidelines with less environmental impact.

CLEAN AIR DAY



Every October, CSUCI joins Californians throughout the state to celebrate Clean Air Day. CI's Landscaping Department facilitated the second annual tree planting in honor of Clean Air Day with a virtual, physically-distanced ceremony.

In addition to the annual tree planting, individuals from CI's staff, faculty and students joined the Clean Air Day Pledge. CI's pledgers opted to adopt actions to clean the air by reducing vehicle emissions, planting trees and gardens, and switching out polluting cleaners and equipment.



ACKNOWLEDGEMENTS

CSU Channel Islands is striving for a more sustainable campus community every day.

Keep up to date between reports on our website:

<http://www.csuci.edu/fs/sustainability/index.htm>

For questions, concerns, or ideas on new sustainability efforts, please email roxane.bc@csuci.edu.

Appreciation goes out to the following contributors:

- ❖ Department of Facilities Services
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- ❖ Roxane Beigel-Coryell, Sustainability & Energy Manager