

CSU CHANNEL ISLANDS ANNUAL SUSTAINABILITY REPORT

Fiscal Year 2018 - 2019

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- FTES: Full Time Equivalent Student
- GSF: Gross Square Feet
- HCF: Hundred Cubic Feet
- kWh: kilowatt hour
- BTU: British Thermal Unit
- Potable Water: Drinking water
- Recycled Water: Tertiary-treated wastewater
- Baseline: the year, or years, we compare our usage to (for water: 2013, for everything else: average of 2008-2009 FY and 2009-2010 FY)

CSU CHANNEL ISLANDS FACILITIES SERVICES

Our Mission Statement

Facilities Services (FS) supports Channel Islands (CI) stakeholders by providing the highest quality service by practicing excellent workmanship, exhibiting forward vision, using resources effectively and efficiently, and continuously improving the quality of service. FS provides support for the entire campus through Facilities Support, Operations, Maintenance Stores, Work Control Center, and Planning, Design and Construction.

Our core values are:

- Excellence in service
- Value our team members
- Continuous improvement
 - Customer service
- Sustainable performance



CSU CHANNEL ISLANDS FACILITIES SERVICES

Facilities Services incorporates and promotes sustainability on campus through:

- Energy Management
- Water Conservation
- Waste Minimization, Recycling, and Landfill Diversion
- Greenhouse Gas Monitoring and Minimization
- Native Landscaping and Habitat Preservation
 - Riparian Restoration Projects
- Outreach, Education, and Engagement

Facilities Services also assists other entities and departments in their efforts by providing support for:

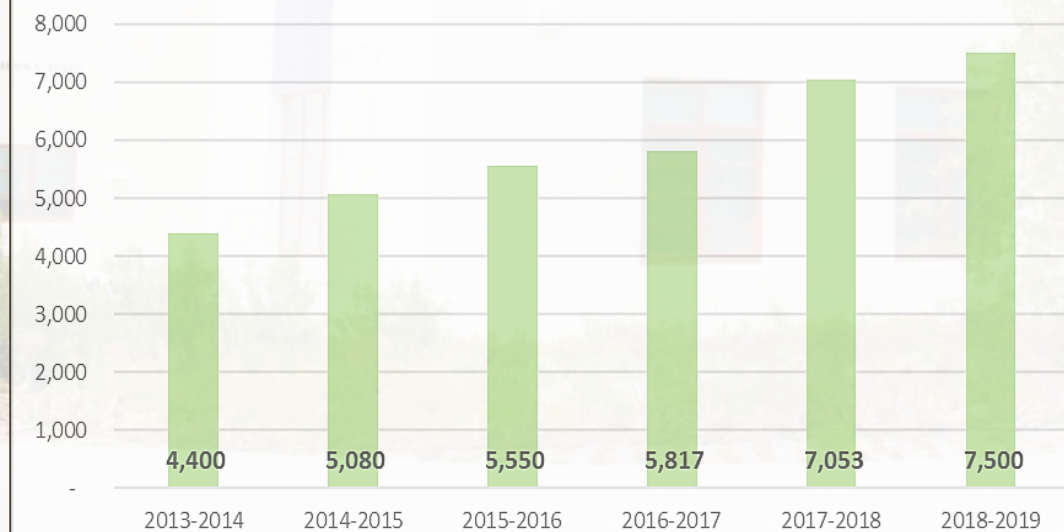
- Academic Affairs and Student Project Development
 - Dining and Auxiliary Services
 - Transportation
 - University Glen / Site Authority
- Channel Islands Power (co-generation)
- Housing and Residential Education
- Outreach, Education, and Engagement



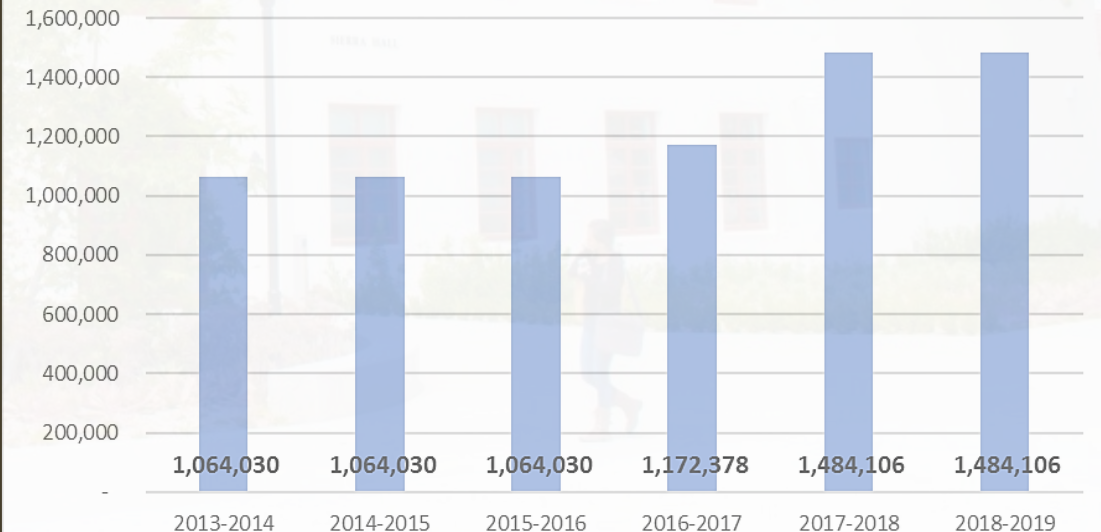
EXCEEDING GOALS

Despite sizeable increases in our campus's square footage and an ever-growing campus community, we continue to decrease our utility usages and meet our sustainability goals every year. This is the result of a collective effort made by students, faculty and staff to help prioritize environmental sustainability on campus. If not for the common vision that we all share for a sustainable future here at CSUCI, we would not have been able to consistently exceed our goals to this extent.

Full Time Equivalent Student (FTES) Trends

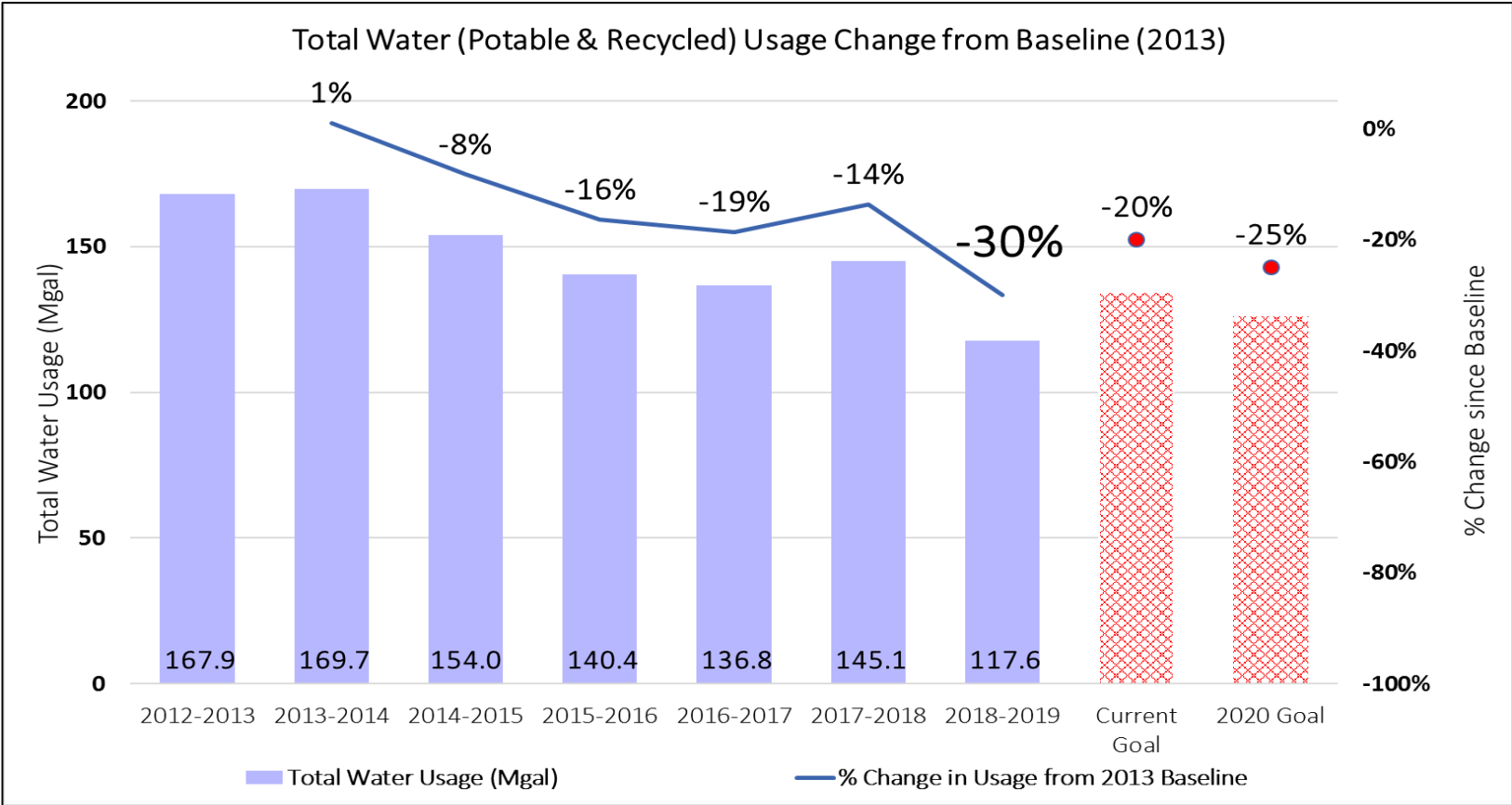


Gross Square Feet (GSF) Trends



TOTAL WATER

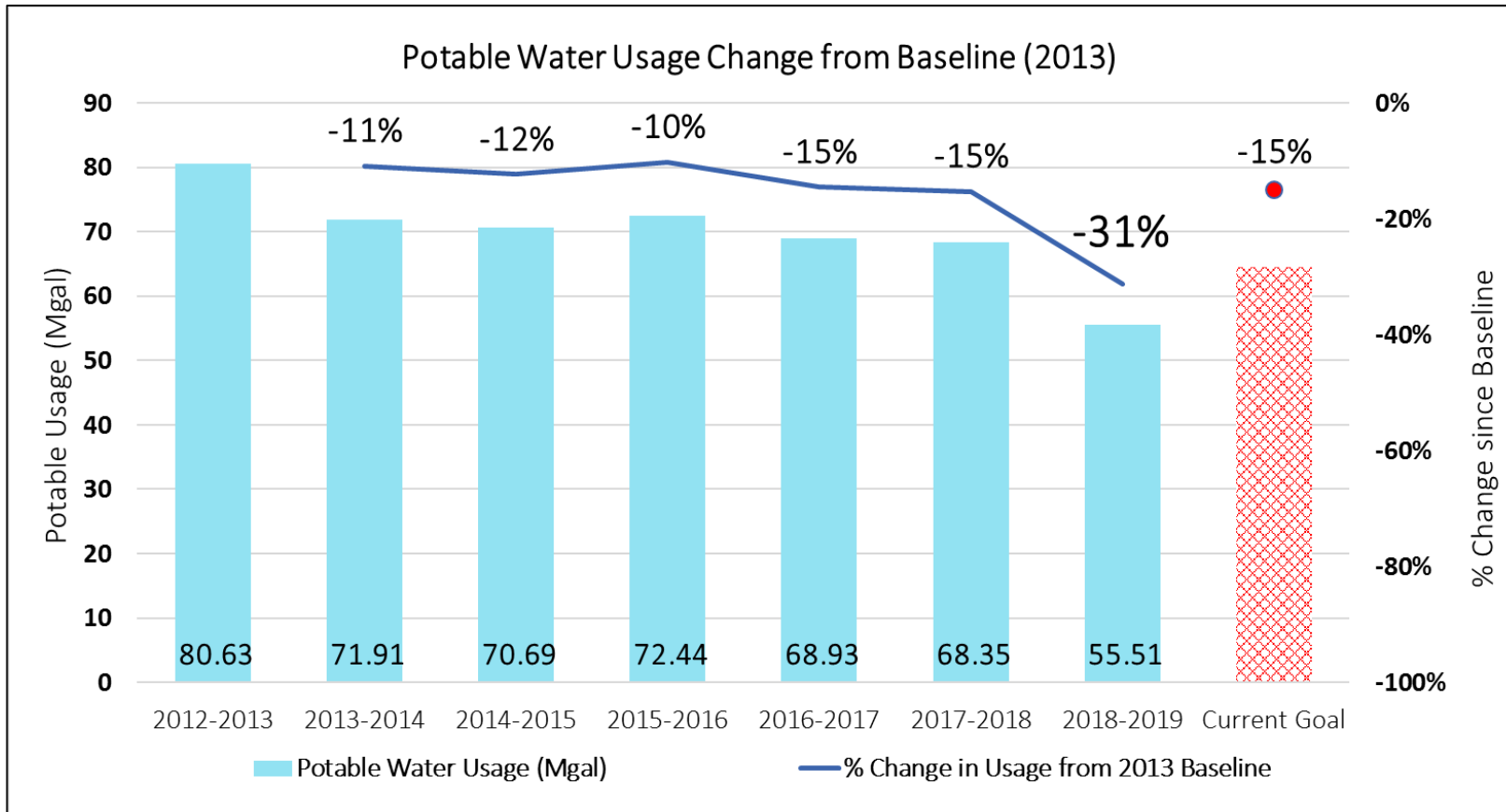
Total water includes both our potable and recycled water usage. The CSU Chancellor’s Office has set a reduction goal for total water of 25% by 2020 compared to our 2013 baseline. Collective efforts by our campus community are essential in reaching our reduction goal, and in the 2018-2019 fiscal year, we exceeded this goal dramatically. The efforts of students, staff and faculty in the past year contributed to our greatest reduction to date with a decrease in total water usage (**non-normalized**) of 30% from our 2013 baseline.



In the 2018-19 fiscal year, we **exceeded** our current goal by **10%** and our 2020 goal by **5%**.

POTABLE WATER

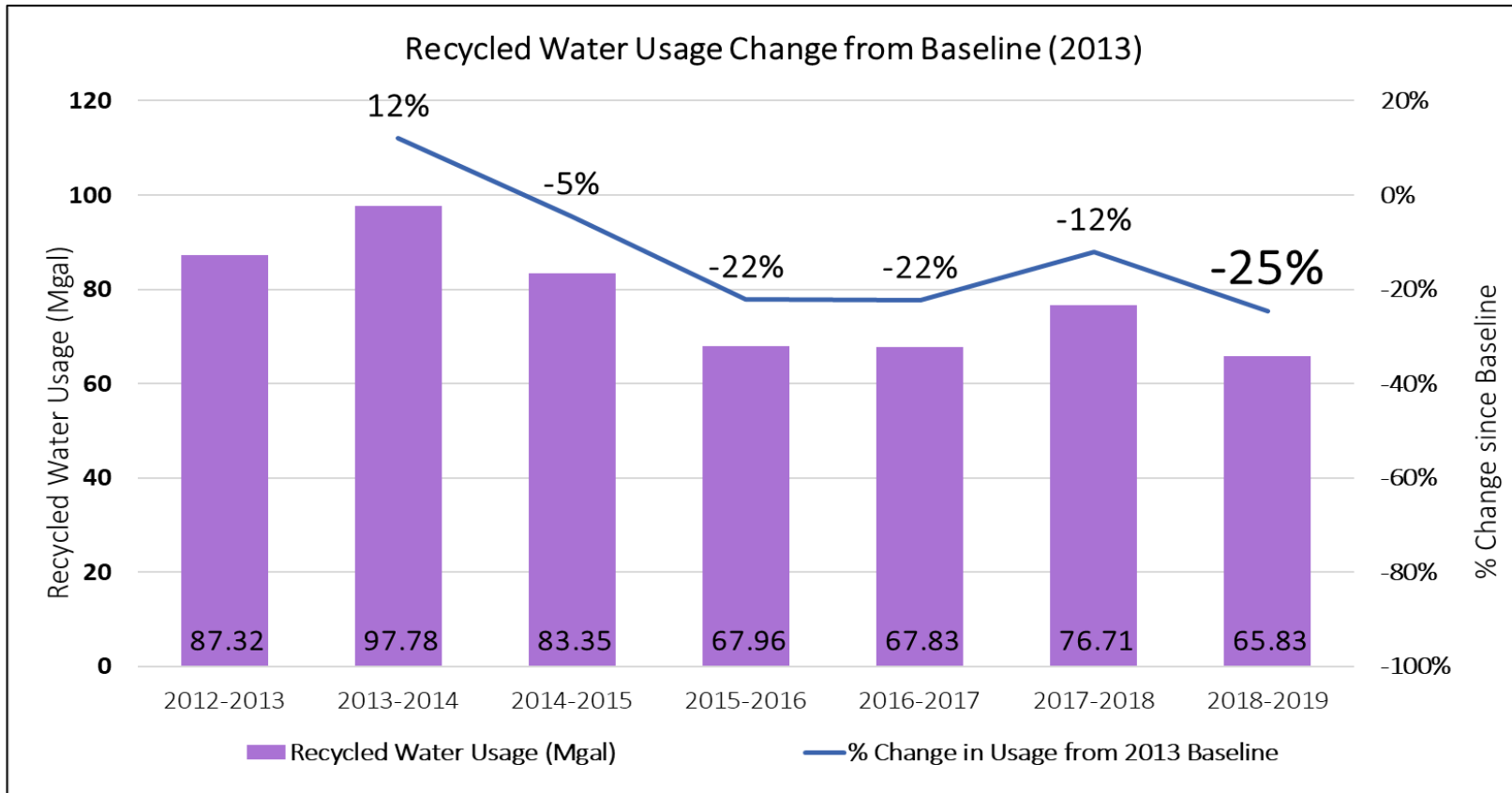
Our current goal for reducing potable water consumption is 15% from our 2013 baseline. Campus efforts contributed to a decrease in potable water usage of 31% compared to our 2013 baseline in the 2018-2019 fiscal year, which exceeded the previous two years' reductions (along with our current reduction goal) by 16%. Achieving this drastic usage reduction **on a non-normalized basis** wouldn't have been possible without the efforts of students, staff and faculty, and is *especially* profound when considering our continuously growing campus community.



In the 2018-19 fiscal year, we **exceeded** our current goal by **16%**.

RECYCLED WATER

Recycled water includes all water that has been treated by our municipal water provider, Camrosa Water District, at a tertiary level so that it is viable for use in campus irrigation and landscaping. Despite our campus's continuous growth, we have been successful in keeping recycled water usage consistently below our 2013 water-usage baseline **on a non-normalized basis**. Recycled water usage is highly variable as it depends on the time of year, weather, and landscaping/irrigation needs.



In the 2018-19 fiscal year, we achieved the **greatest** recycled water usage **reduction** to date.

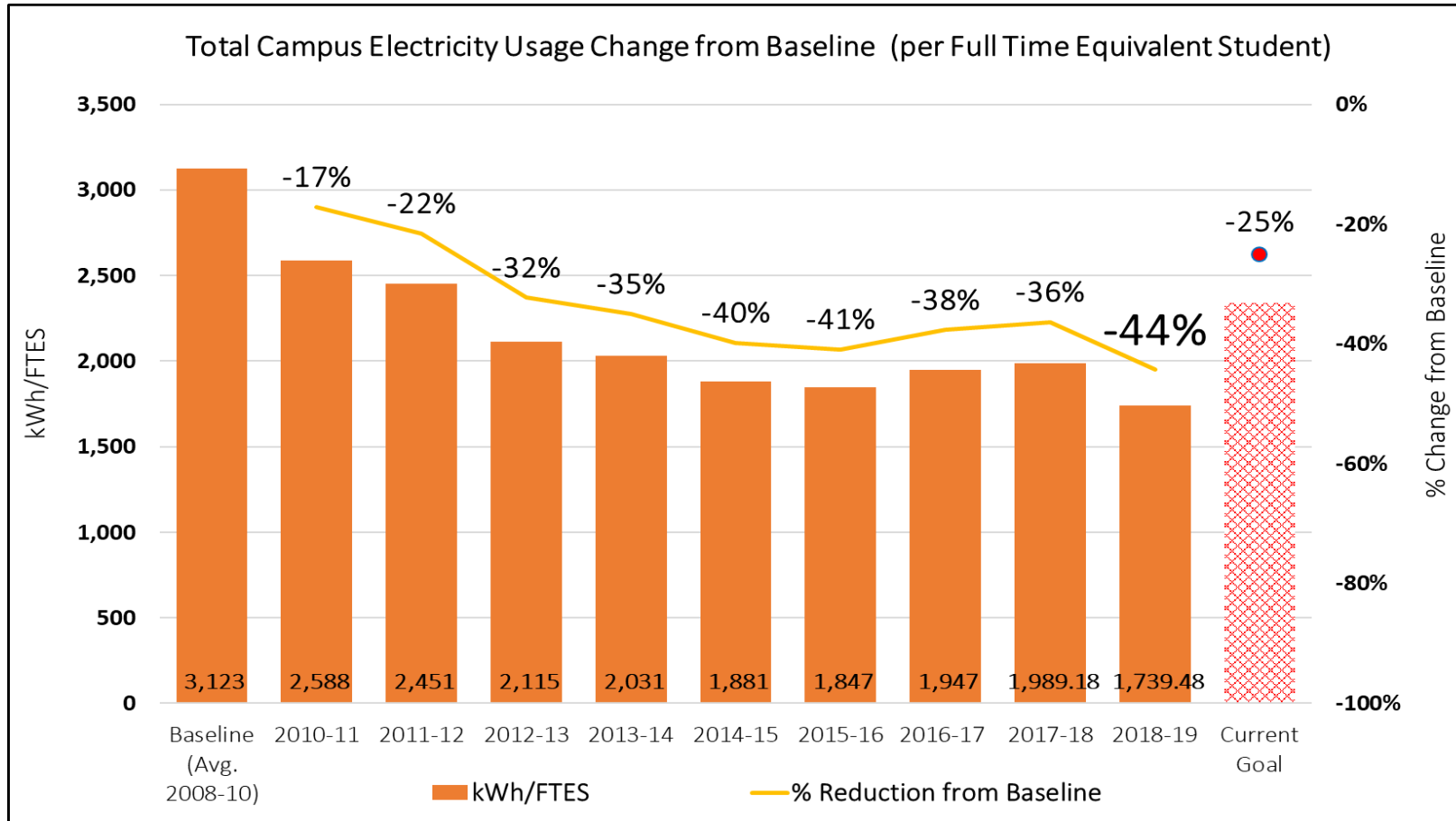
We will continue to reduce our consumption of recycled water (and total water) by utilizing improved irrigation management systems, metering, planting more drought-tolerant and native plants, adding mulch, and implementing native landscaping when possible.

WATER CONSERVATION TIPS

- Limit shower duration and frequency.
- Turn off the tap while lathering hands and while brushing teeth.
- Only run full loads of laundry and dishes. If hand-washing dishes, fill up the sink instead of letting the water run.
- Repair leaky sinks or toilets.
- Upgrade to efficient, water-conserving fixtures.
- Reuse water used for cooking to water plants.
- Collect water from the shower whilst waiting for it to get hot. Use this to water plants.
- Use car washes instead of washing at home; commercial car wash businesses are mandated to treat and reuse their water.
- Replace water-intensive turf with drought-tolerant, native plants. This way, local animals and insects thrive and landscapes continue to look beautiful.
- Report leaking sinks and toilets to the Work Center at **805-437-8461**

ELECTRICITY

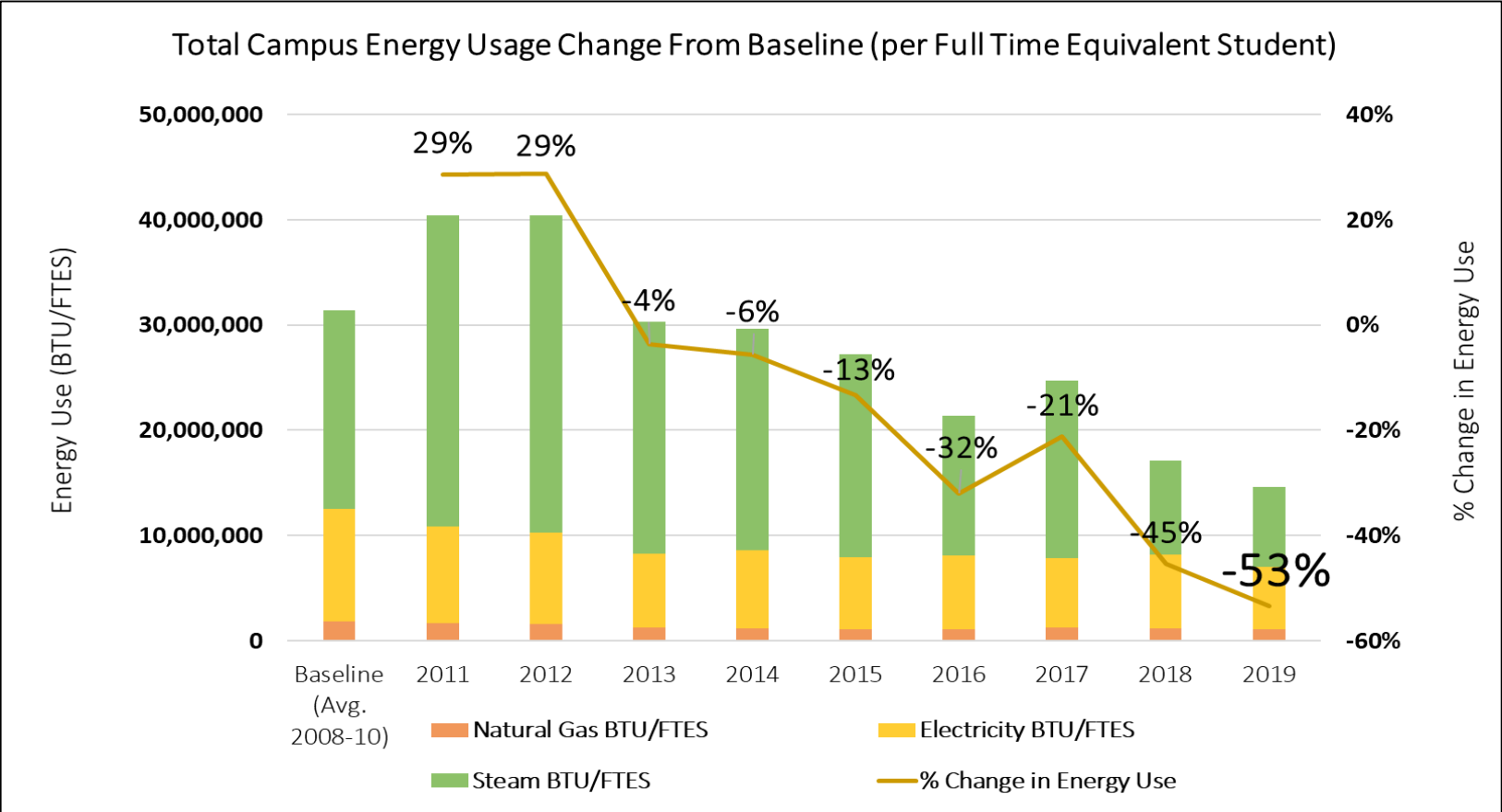
As the campus grows, our need for more electricity increases. However, as we continue to innovate and utilize more efficient technologies, our overall electricity usage has decreased compared to our baseline. Our goal (set by the CSU Chancellors Office) of a 25% reduction per FTES versus our baseline has been exceeded by 19% in the 2018-2019 fiscal year. This was our greatest electricity usage reduction, normalized per full time equivalent student, to date.



In the 2018-19 fiscal year, we **exceeded** our electricity usage reduction goal (per FTES) by **19%**.

TOTAL ENERGY

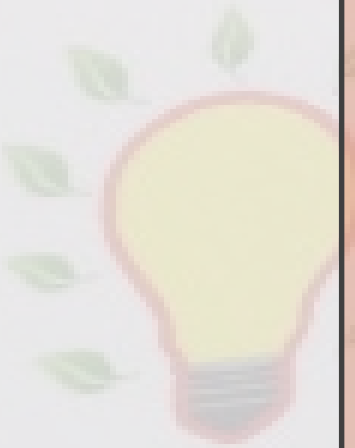
Total energy is our representation of all sources of energy on our campus, including electricity, steam and natural gas. Steam makes up the most amount of energy because it is used for the majority of heating hot and cold water along with space heating around CI after it's converted at our Central Plant. Electricity is used for lighting, plug loads, and various equipment around campus. Natural gas makes up the smallest amount because only a few buildings use gas for heating hot water, cooking, and space heating. Our goal is a 25% reduction per FTES versus our baseline, which we are consistently exceeding.



In fiscal year 2018-19, we achieved the **greatest reduction in total energy** to date.

ENERGY CONSERVATION TIPS

- Close windows and doors while the AC is in use, whether that be at home, at school or in the car.
- Wash clothes in cold water – it cleans just as well without having to pay to heat it.
- Switch to using efficient light bulbs such as LED – this can reduce energy usage by as much as 80%.
- Utilize power strips, which are useful for turning multiple appliances off at once. Most electronics constantly use small amounts of energy, and it adds up!
- Unplug devices and appliances when not in use.
- Use natural light during the daytime.
- When applicable, use a programmable thermostat.
- Clean A/C filters regularly – dirty filters force the unit to run harder and spreads dust and allergens.
- Seal air leaks and properly insulate before the air you paid for escapes right out the front door!
- Upgrade to Energy Star appliances.



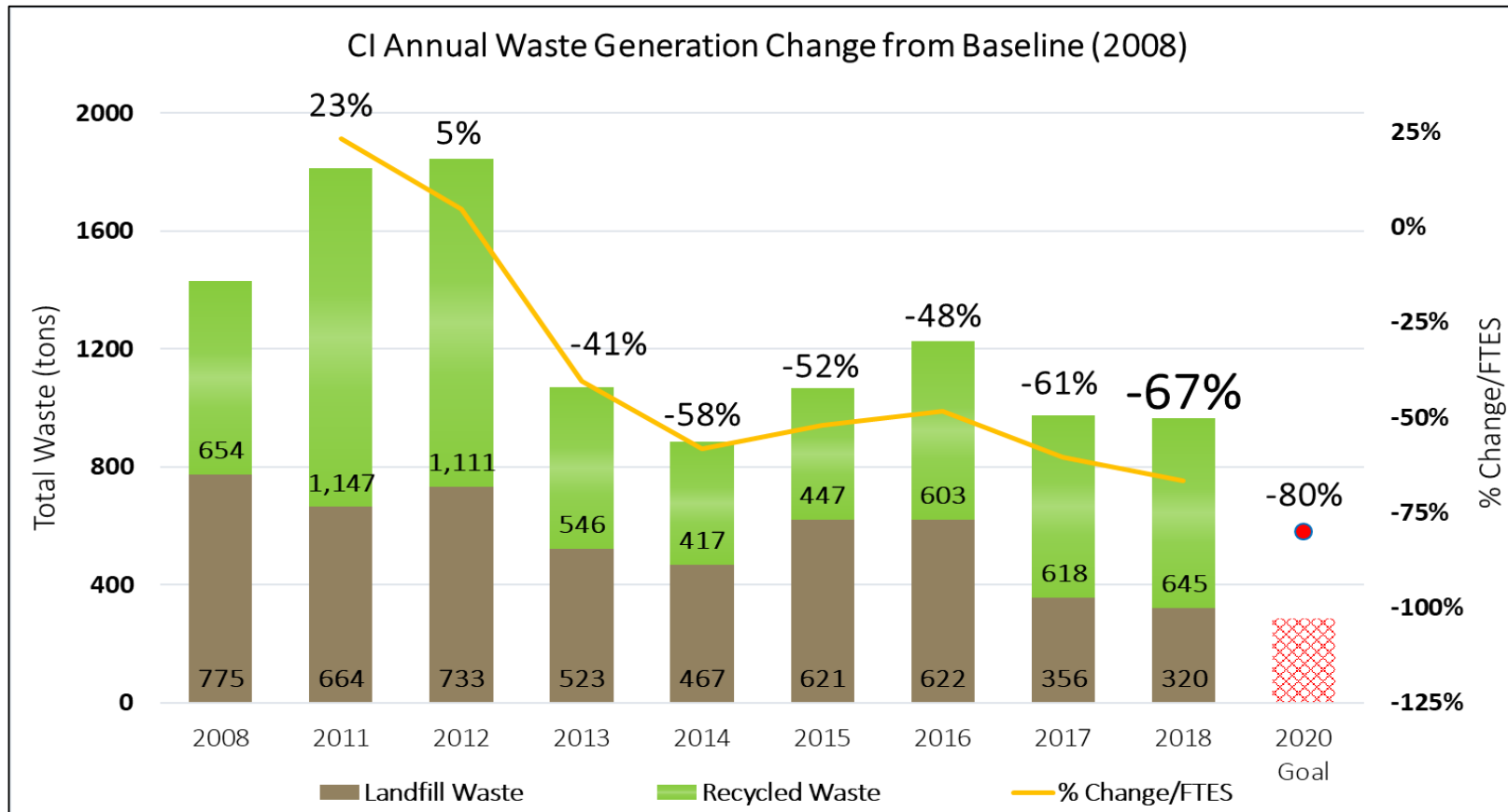
PLEASE
TURN IT OFF

CONSERVE
ENERGY



WASTE AND RECYCLING

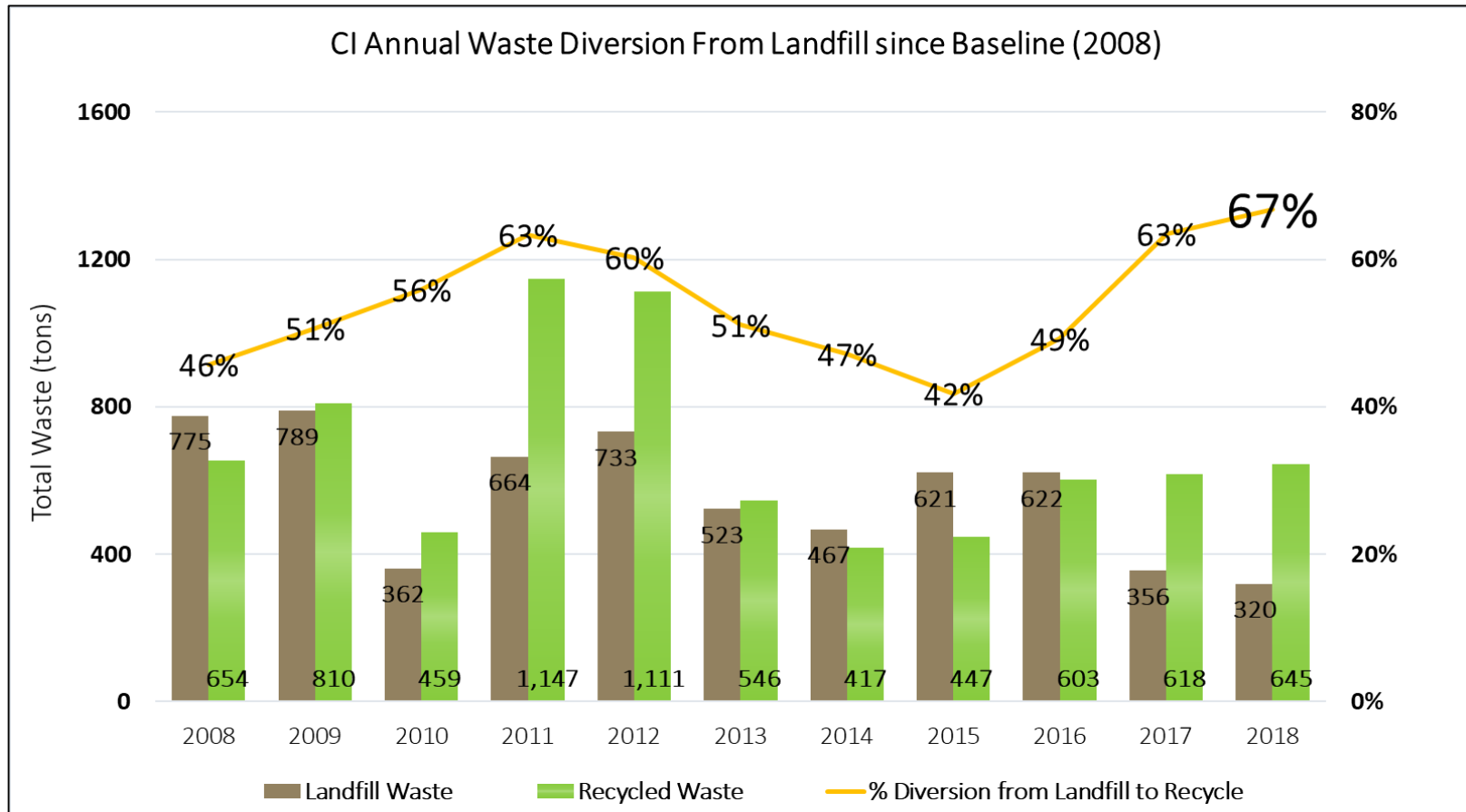
The CSU Chancellors Office has set our waste diversion goal at 80% by 2020. While we consistently come very close, achieving the last ~10% towards our goal will have to come from a reduction in waste produced by our campus community. These efforts to reduce waste sent to landfills help to lower methane emissions and minimize chemicals that can leach into our water tables. By recycling, we reduce the energy and raw materials needed to make brand new items like water bottles and other plastics.



In calendar year 2018, we achieved our **greatest reduction in total waste** to date.

WASTE AND RECYCLING

Collective efforts have contributed to an all-time high in waste diversion from landfills. In 2018, we diverted **67%** of waste generation on campus to recycling as opposed to landfill. This was achieved through educational campaigns, awareness movements led by environmental clubs and organizations, updating informational signage about waste and recycling, and increased efforts by the entire CI community. **Thank you!**



In calendar year 2018, we achieved the **greatest waste diversion rate to date.**

WASTE MANAGEMENT TIPS

- Bring reusable bags when shopping and traveling.
- Use reusable containers for lunches and leftovers.
- Avoid buying individually wrapped items and single-serve containers. Buy in bulk & make sure to consume all of the product you buy.
- Purchase cleaning agents in concentrated forms, and dilute when ready to use.
- Utilize items you already own as much as possible – for example, make cleaning supplies from household materials. Be innovative!
- Compost food and yard waste – it's a free and easy way to make your own organic, nutrient-rich soil amendments.
- Use both sides of paper while printing, writing and note-taking, and recycle when done.
- Reduce the amount of mail you receive by utilizing the internet & email when practical.
- Shop for clothes, furniture, appliances, and other items at second-hand shops – it saves money and reduces waste by giving items a second chance at life.

STUDENT INVOLVEMENT

Facilities Services partnered with Environmental Science and Resource Management (ESRM) professor Kiki Patsch's Intermediate GIS class in the Spring semester of 2019. Two students created a 'story map' showcasing the notable sustainability-related advancements that CSUCI has made since its inception in 2002. The story map, made using ArcGIS mapping software, allows the viewer to scroll through the features that make CI one of the most sustainable campuses in the CSU system.



Our LEED Gold certified building as shown in the story map



Mikayla McCulloh and Tanya Saxena present their story map

Accomplishments that were highlighted in the story map include our Tree Campus USA recognition, our Bee Campus USA recognition, and our solar project. You can find the full story map linked on our website:

www.csuci.edu/fs/sustainability/student-projects

STUDENT INVOLVEMENT

Facilities Services' Sustainability Analyst Lisa Noriega was invited to be the keynote speaker at the "Sustainable Extravaganza" during Earth Week in April, which was dually coordinated by CSUCI Student Government and FS Sustainability this year. Facilities Services' involvement in Earth Week also included the coordination and facilitation of the Arbor Day tree planting event (led by FS Grounds) and the coordination of Dining Services' involvement in which they offered an "earth-friendly" menu for all of Earth Week.



Students help plant Western Red Buds and Forest Pansy trees in the A3 parking lot

Earth Week

APRIL 22 - 26

<p>4/22 EARTH DAY FESTIVAL 11AM - 2PM Central Mall There will be a food truck, inflatables, games, free sustainable swag, tie dye, & more! Brought to you by Green Generation.</p> <p>4/22 PLANT AN "AIR PLANT" 8AM - 10PM Student Union 1st Floor Craft Table Plant a Tillandsia (Air Plant) and learn fun facts about them! Brought to you by the Student Union.</p> <p>4/23 TREE PLANTING 11AM - 2PM A3 Parking Lot Come plant Western Red Buds and Forest Pansy Trees with CS's Facilities Services. There will be snacks, drinks, and free swag!</p> <p>4/24 SUSTAINABLE EXTRAVAGANZA 11AM - 2PM Central Mall Speakers, booths, games, a food truck, a rock wall, a competition for a grand prize and more!</p> <p>4/24 STAR GAZING 7:30PM - 9:00PM Potrero Field</p>	<p>4/25 AND 4/26 PLANT YOUR OWN HERBS 8AM - 10PM Student Union 1st Floor Craft Table Plant herbs and learn about their properties. Brought to you by the Student Union.</p> <p>PLANT-BASED MEALS AT ISLANDS CAFE 7AM - 5PM Monday - Friday Enjoy plant based, earth friendly meals. Brought to you by UAS.</p>
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THESE EVENTS ARE BROUGHT TO YOU BY:

STUDENT GOVERNMENT

STUDENT UNION

4 OCEAN • GREEN GENERATION • FACILITIES SERVICES
 SRSIS • AUDUBON SOCIETY • ESDM DEPARTMENT
 CIRCLE K • SURFEDUC FOUNDATION • UAS

Questions? Contact Student Government at 805.437.2714 or email: sgas@csuci.edu.
 The Student Government and Student Union are not responsible for any injuries or property damage that may occur during any of these events. All items sold during these events are for informational purposes only. All items sold are subject to availability. All items sold are subject to availability. All items sold are subject to availability.



Lisa Noriega speaking about sustainability efforts at CSUCI during Earth Week

AWARDS AND RECOGNITION

In September of 2018, CSU Channel Islands became not only the first in the CSU system but the first four-year university in California to become a certified **Bee Campus USA!**

Certificate of Designation



In recognition of its adoption of rigorous commitments to raise awareness and enhance habitat for pollinators,

California State University Channel Islands

is hereby designated a Bee Campus USA affiliate this 6th day of September, 2018.


Phyllis Stiles, Founder & Pollinator Champion



Since our certification, Facilities Services' Gardening Specialist Juan Cardenas has built two new sustainable pollinator gardens (pictured above), in addition to the original one, at Sierra Hall. The gardens include multiple native plant species as well as drought-tolerant succulents and is designed to give pollinators a "safe haven" here at CSUCI.

AWARDS AND RECOGNITION



In April 2019, we were notified that CSUCI was awarded with the **Tree Campus USA** recognition for the *seventh* year in a row!



In 2011, CI became the first Tree Campus USA in the CSU system. Since then, campus efforts toward preserving and enhancing the health and presence of native trees have continuously increased.



PROJECT HIGHLIGHTS



Student Union Building

In an effort to reduce contamination in our campus recycling bins, Facilities Services ordered six 'PourAway' recycling bin lids with built-in liquid reservoirs which allow people to literally "pour away" what's left of their drink and then proceed to recycle the container. You can find these bins in all campus dining facilities.

Note: Recycling facilities will NOT accept any recyclables with food or drink residue.



Town Center Market

SUSTAINABILITY ON CAMPUS

In June, FS Sustainability conducted a staff development workshop on the principles of in-home and in-the-workplace sustainability. Activities that took place during the workshop included 'Build-a-Burger' to calculate your carbon and water footprints, as well as matching games for recyclable and compostable items.



If you'd like to attend a sustainability workshop in the future, please email roxane.bc@csuci.edu.

SUSTAINABILITY ON CAMPUS



Right: FS Sustainability tabled at New Student Orientation in June to introduce incoming freshmen and transfer students to CI's sustainability efforts and the many ways in which they can play a role in advancing them.

Left: In an effort to discourage CSUCI seniors from throwing confetti on campus for graduation photographs, FS Sustainability created the “Look Out For Your Fellow Dolphins” campaign in which signage (pictured) was placed in all areas on campus and newsletters were sent out to the campus community.



ACKNOWLEDGEMENTS

CSU Channel Islands is striving for a more sustainable campus community every day.
Keep up to date between reports on our website and Instagram:

www.csuci.edu/fs/sustainability/
[@sustainabilityatcsuci](https://www.instagram.com/sustainabilityatcsuci)

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

Key Developers:

Lisa Noriega, Sustainability and Operations Analyst

Support:

The Department of Facilities Services

Tom Hunt, Assistant Vice President for Facilities Services

Wes Cooper, Senior Director of Facilities Services