


# CSU Channel Islands

Sustainability Report  
FY 2017-18

Third Quarter



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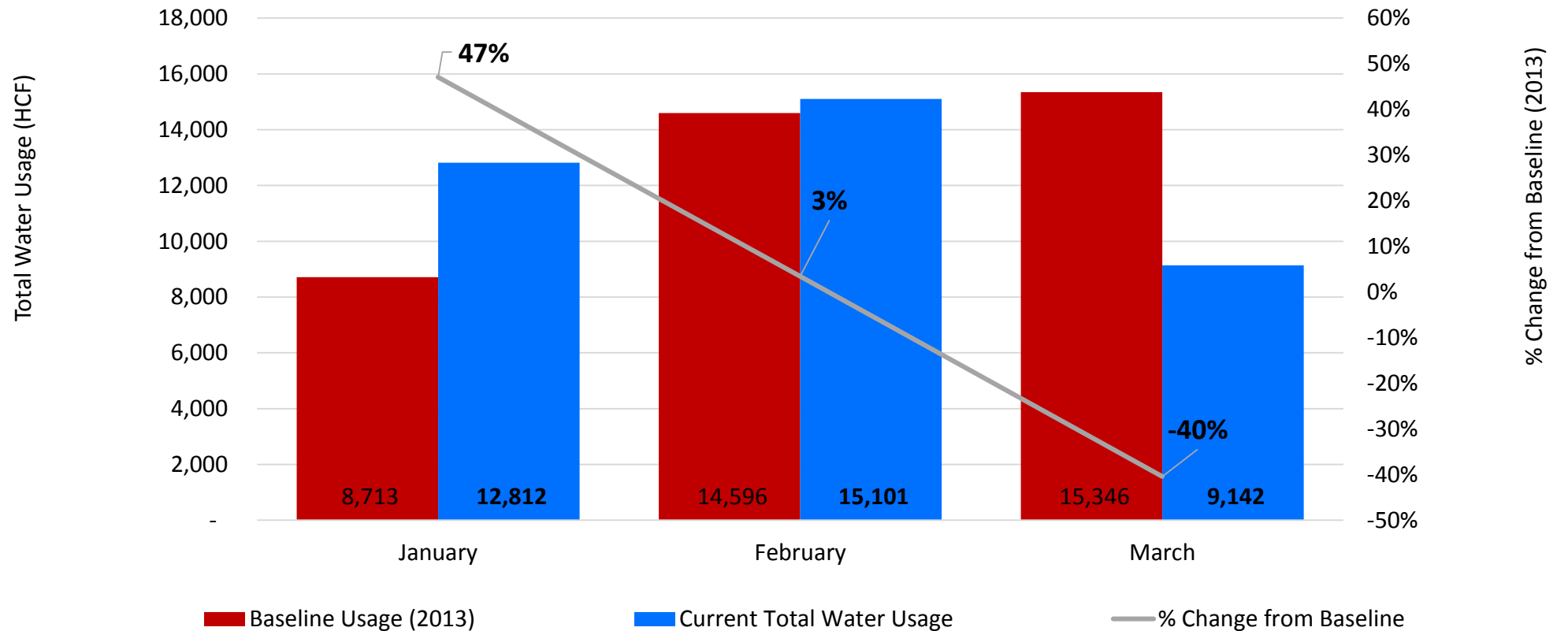
- FTES: Full Time Equivalent Students
- GSF: Gross Square Feet
- HCF: Hundred Cubic Feet
- kWh: kilowatt hour
- BTU: British Thermal Unit
- Potable Water: Drinking water
- Recycled Water: Tertiary-treated waste water
- Baseline: the year, or years, we are comparing our usage to (for water we use 2013,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



# Total Water

Total Water is the combination of both our potable and recycled water usage. The CSU Chancellor's Office has set a reduction goal for total water of 20% by 2020 compared to our 2013 baseline. The graph depicts significant variability month to month, some of which can be attributed to incoming students, local heat waves and increased winds. Efforts by our campus community are essential if we are to reach our reduction goals each month. Collective efforts contributed to a decrease in usage of 40% from our 2013 baseline in the month of March.

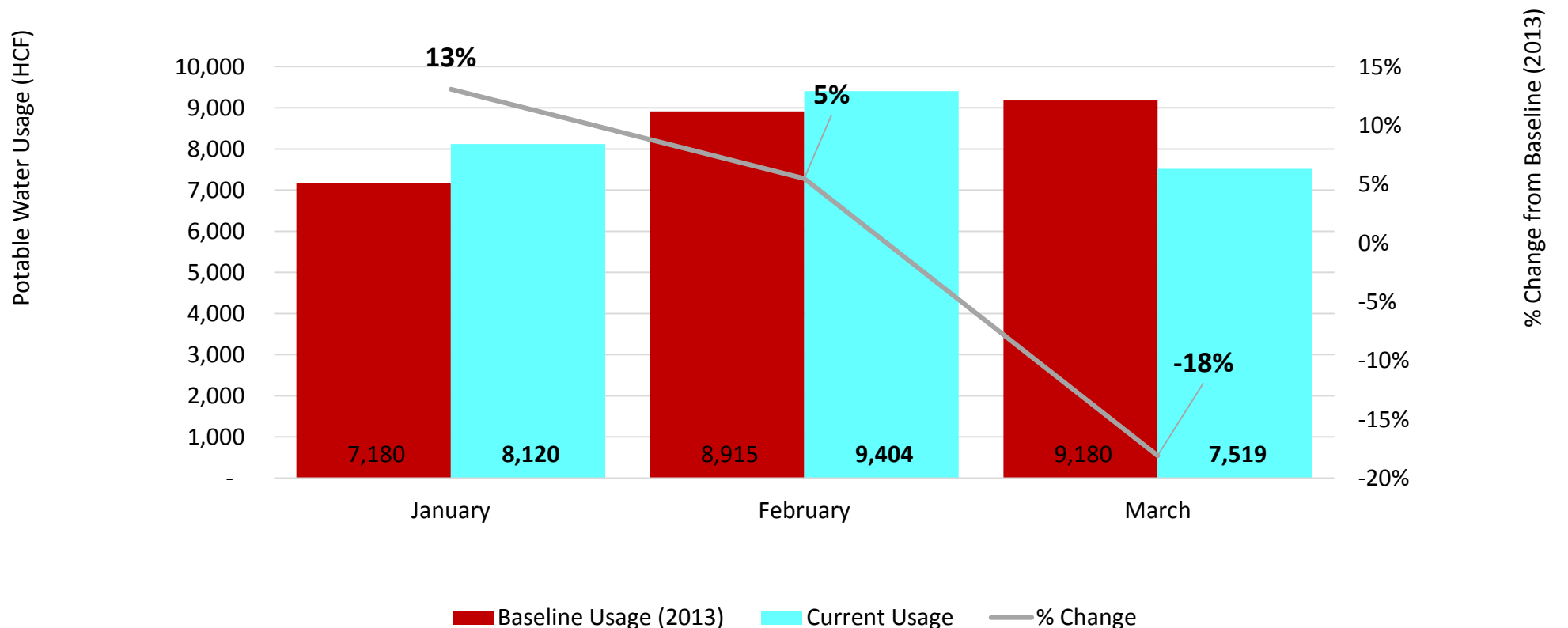
Third Quarter Total Water Usage Compared to 2013 Baseline



# Potable Water

Our municipal water provider has requested we reduce our potable water consumption by 15% from our 2013 baseline. Realizing that goal will require the participation of every member in our campus community. Campus efforts contributed to a decrease in potable water usage of 18% compared to our 2013 baseline in the month of March, along with an overall decrease in usage from January to March.

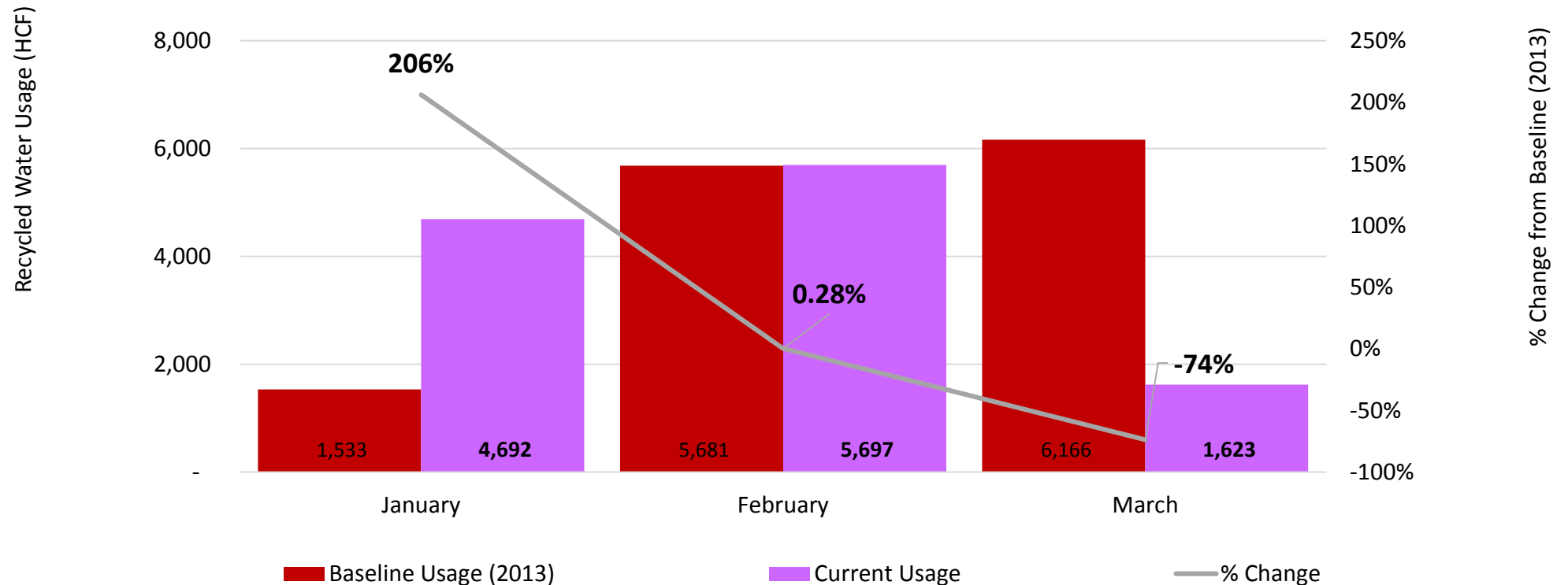
Third Quarter Potable Water Consumption Compared to Baseline



# Recycled Water

Reductions in our recycled water usage are accounted for in our total water goal. We will achieve our goals by utilizing improved irrigation management systems, metering, planting more drought-tolerant plants, adding mulch, and native landscaping. There is high variability in recycled water consumption from month to month, depending on factors such as landscaping, irrigation needs, and weather. Collective efforts contributed to a decrease in recycled water usage from 206% above our baseline to 74% below our baseline.

Third Quarter Recycled Water Consumption Compared to Baseline



# Water Conservation Tips



- Take advantage of native and drought tolerant plants in landscaping and replace irrigated turf with wood chips, rocks or sand.
- If you have a lawn or garden that requires irrigation, program sprinklers to come on at night when evaporation is at its lowest.
- Be extremely conservative at the tap whether you're doing dishes, thawing meat, washing hands or brushing your teeth; if its not in use, it should be off. Every drop counts!
- Fix any leaks in water infrastructure immediately – that water adds up. Notify the proper authorities if the leak is not on your property. Never assume someone else is already taking care of it.
- Consider that food waste is also water waste. Approximately 80% of California's water goes to agriculture, so buy what you'll eat and compost any waste. Compost bins can be inexpensive, low-maintenance and provide a source of free, organic, nutrient-rich soil amendments.

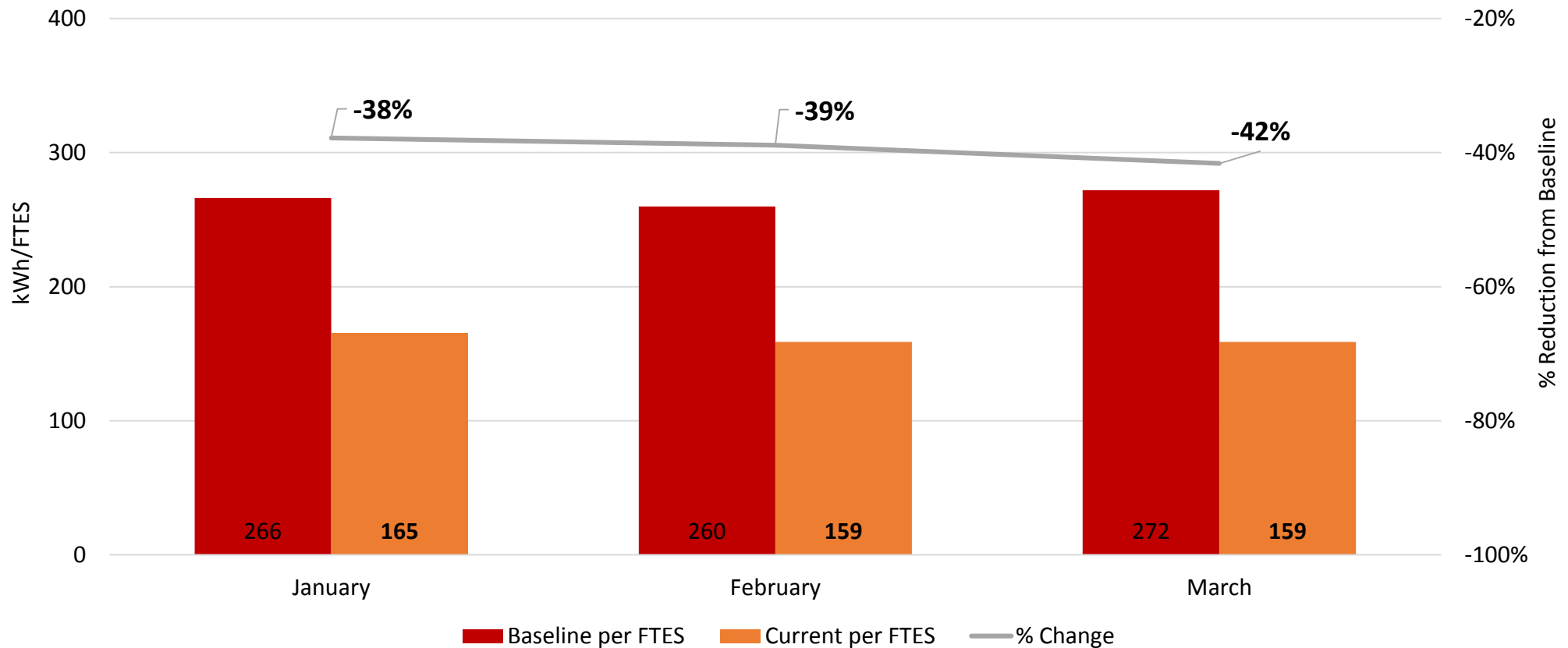


**Be water wise now to protect our resources for the future – now that's smart!**

# Electricity

Electricity is provided by our co-generation plant, Channel Islands Power (CIP), and by Southern California Edison. 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 (average 2008-09 and 2009-10 FY). Our goal (set by the CSU Chancellors Office) of a 25% reduction per FTES versus baseline has been exceeded each month this quarter.

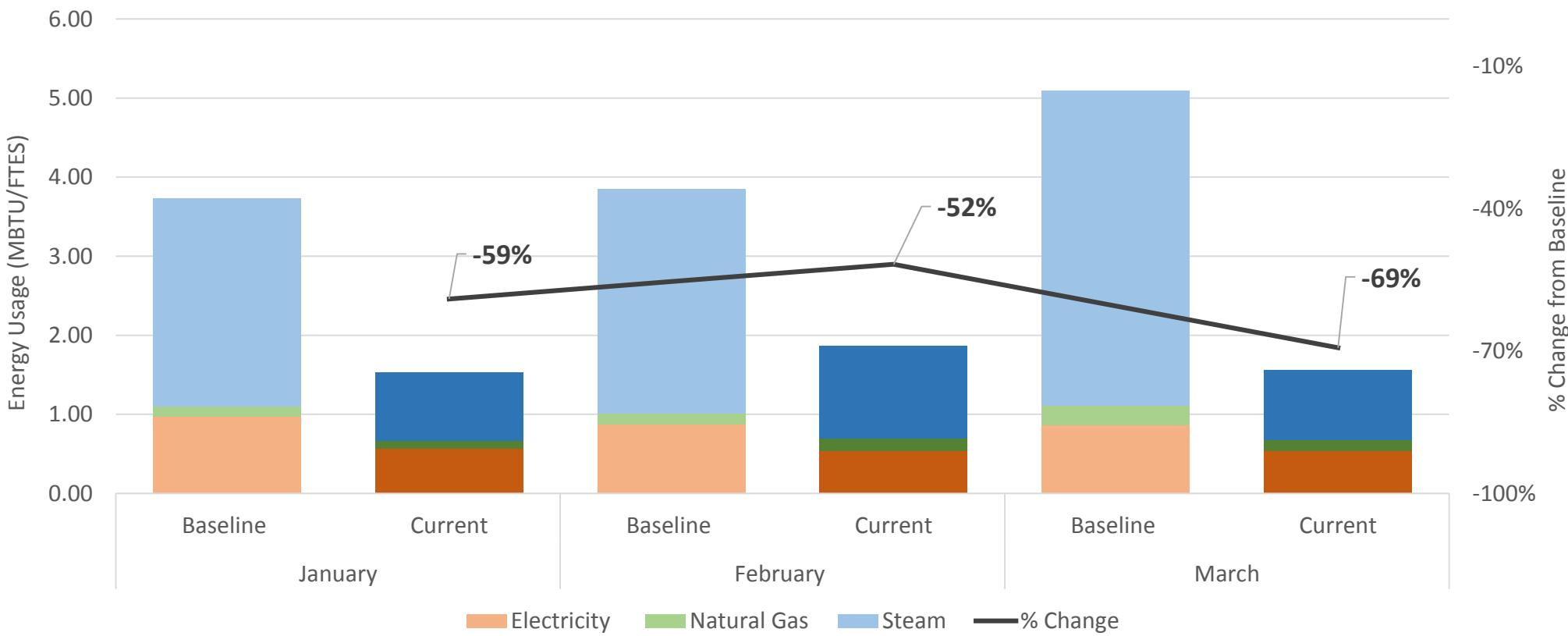
Third Quarter Electricity Usage per Full Time Equivalent Student Compared to Campus Baseline (avg. 2008-10)



# 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 baseline, which we are exceeding.

Third Quarter Total Energy Usage per Full Time Equivalent Student Compared to Campus Baseline (avg. 2008-10)





# Energy Conservation Tips



- Avoid letting your car idle: an idling car is wasting gas and spewing pollution into the environment.
- Save money, gas, and reduce pollution by carpooling, walking, biking, or using public transportation whenever possible.
- Wear layers and use blankets or fans instead of adjusting the thermostat up or down at home or in the office.
- Make sure to close windows and doors when running air handling units - they are ineffective at changing the temperature outside!
- Make it a habit to turn off lights when you leave a room. Utilize natural light whenever possible.
- Wash clothes in cold water – it cleans just as well without having to pay to heat it.
- Unplug devices and appliances when not in use.

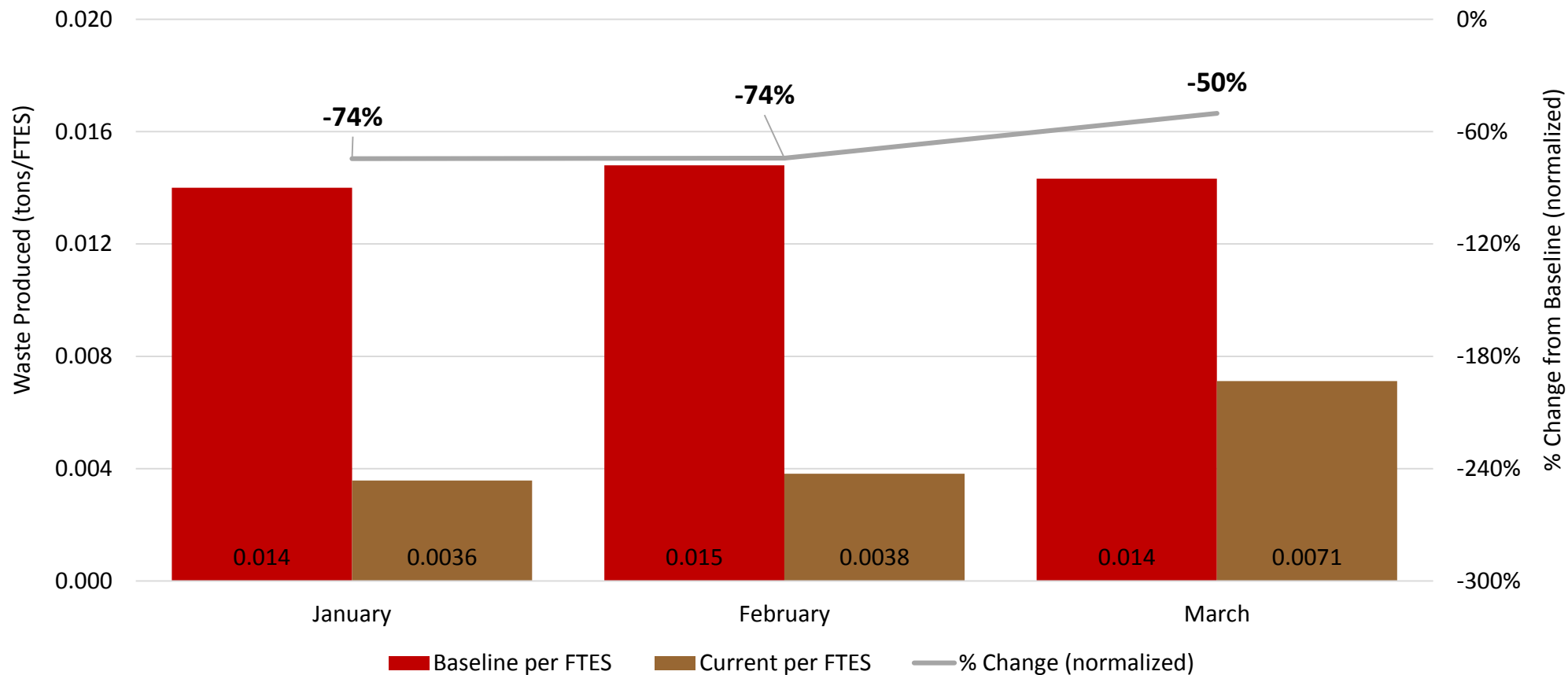


**Moving toward a more sustainable environment starts with your conservation efforts!**

# Waste

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 helps to lower methane emissions and minimize chemicals that can leach into our water tables. By recycling, we are reducing the energy and raw materials needed to make brand new items like water bottles and other plastics.

Landfilled Waste per Full Time Equivalent Student Compared to Campus Baseline (avg. 2008-10)



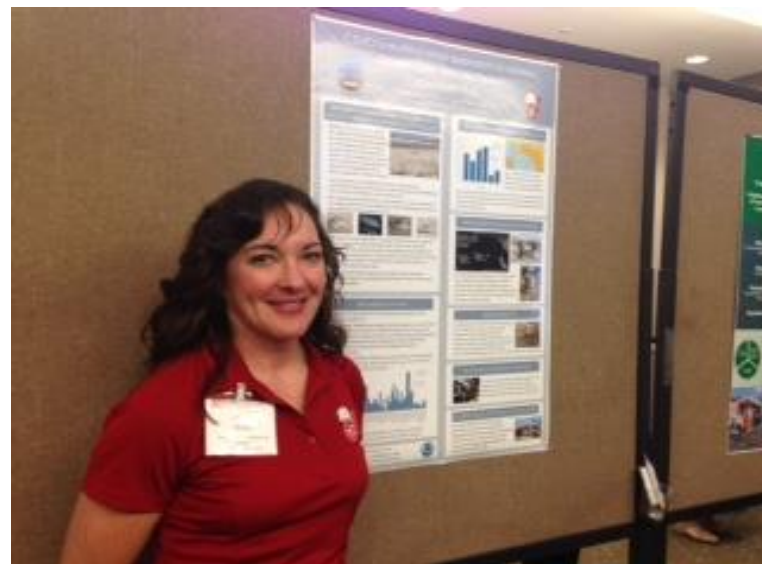
# Waste Management Tips



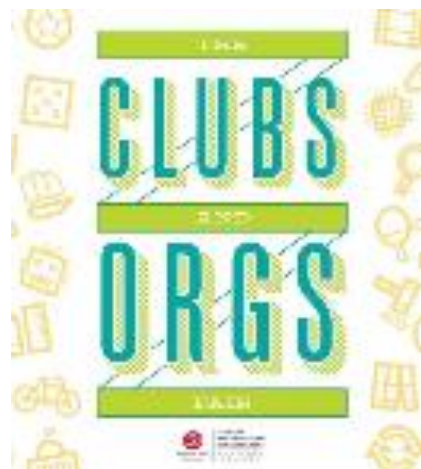
- Buying food from local sources reduces the carbon footprint from transport, this can be done at Farmer's Markets or through a CSA box subscription (Ventura County has many options!)
- Purchasing food in bulk helps avoid extra packaging materials, but make sure to use the product before it expires.
- Take advantage of reusable items: water bottles, coffee mugs, canvas grocery bags, Tupperware, scrap paper, batteries (rechargeable), packaging materials – be creative and instill new life into materials you paid for! Rinse out sauce jars instead of buying mason jars, plant seeds in rinsed yogurt cups, shred last semesters notes for hamster bedding. See materials not as they are, but for what they could be!
- Know what is recyclable and where to take it. Bring electronics to e-waste centers and compost food scraps to make your own soil.
- Avoid buying items in non-recyclable thin plastic films.



# Sustainability on – and off – Campus



Above: Presentation of Dr. Clare Steele’s poster on microplastics at the CSU Board of Trustees Meeting



Left: SustainableCI tabled at CSUCI’s Clubs and Organizations Fair to encourage sustainability on campus through games, activities and drawings to win prizes

Right: CSUCI’s Spring Environmental Speaker Series Class (ESRM 496) with Dr. Dan Reineman focused on sustainability and student/community engagement

<b>CITIZENSHIP ON EARTH</b> <small>Environmental Science &amp; Resource Management 2018: Spring Speaker Series</small> Stories & Strategies on Engagement: Making Positive Change for our Planet Sierra Hall 2411 - 6:00pm-7:30pm		
<b>FEBRUARY 8, 2018</b> Natalie Arnoldi <i>Fine Artist</i> Ethan Estles <i>Artist</i> <i>Founder of CounterCurrent</i>	<b>FEBRUARY 15, 2018</b> Nick Sadrpour <i>Science, Research and Policy specialist</i> <i>USC Sea Grant</i> Stefanie Seckie-Quinn <i>Coastal Preservation Manager</i> <i>Surfrider Foundation</i>	<b>MARCH 1, 2018</b> Dr. Letise Lafair <i>Program Officer</i> <i>Resources Legacy Fund</i>
<b>ART, SCIENCE, MARINE CONSERVATION</b>	<b>PARTNERSHIP FOR COASTAL CONSERVATION</b>	<b>CONSERVATION FUNDING &amp; PLANNING</b>
<b>APRIL 5, 2018</b> Maricela Morales <i>Executive Director</i> <i>CAUSE</i>	<b>APRIL 12, 2018</b> Seaberry Nachbar <i>Office of National Marine Sanctuaries</i> <i>Regional Education Coordinator</i>	<b>APRIL 26, 2018</b> Anna-Marie Laura <i>Federal Policy Director</i> <i>RARE</i>
<b>LOCAL ACTION &amp; ENVIRONMENTAL JUSTICE</b>	<b>EDUCATION FOR THE FUTURE OF THE OCEAN</b>	<b>CONSERVATION POLICY &amp; POLITICAL ACTION</b>

Below: Students tour the Camrosa Water Reclamation Facility led by CI Alum, Graham Moland!



# Acknowledgments



California State  
University

**FACILITIES  
SERVICES**

C H A N N E L  
I S L A N D S

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 [Coleen.Barsley@csuci.edu](mailto:Coleen.Barsley@csuci.edu).

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- ❖ **Lisa Noriega**, Facilities Services Sustainability Student Assistant
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- ❖ **Tom Hunt**, Executive Director of Engineering Services
- ❖ **John Gormley**, Assistant Vice President for Facilities Services

