

CSU CHANNEL ISLANDS SUSTAINABILITY REPORT FY 2019-20

First Quarter

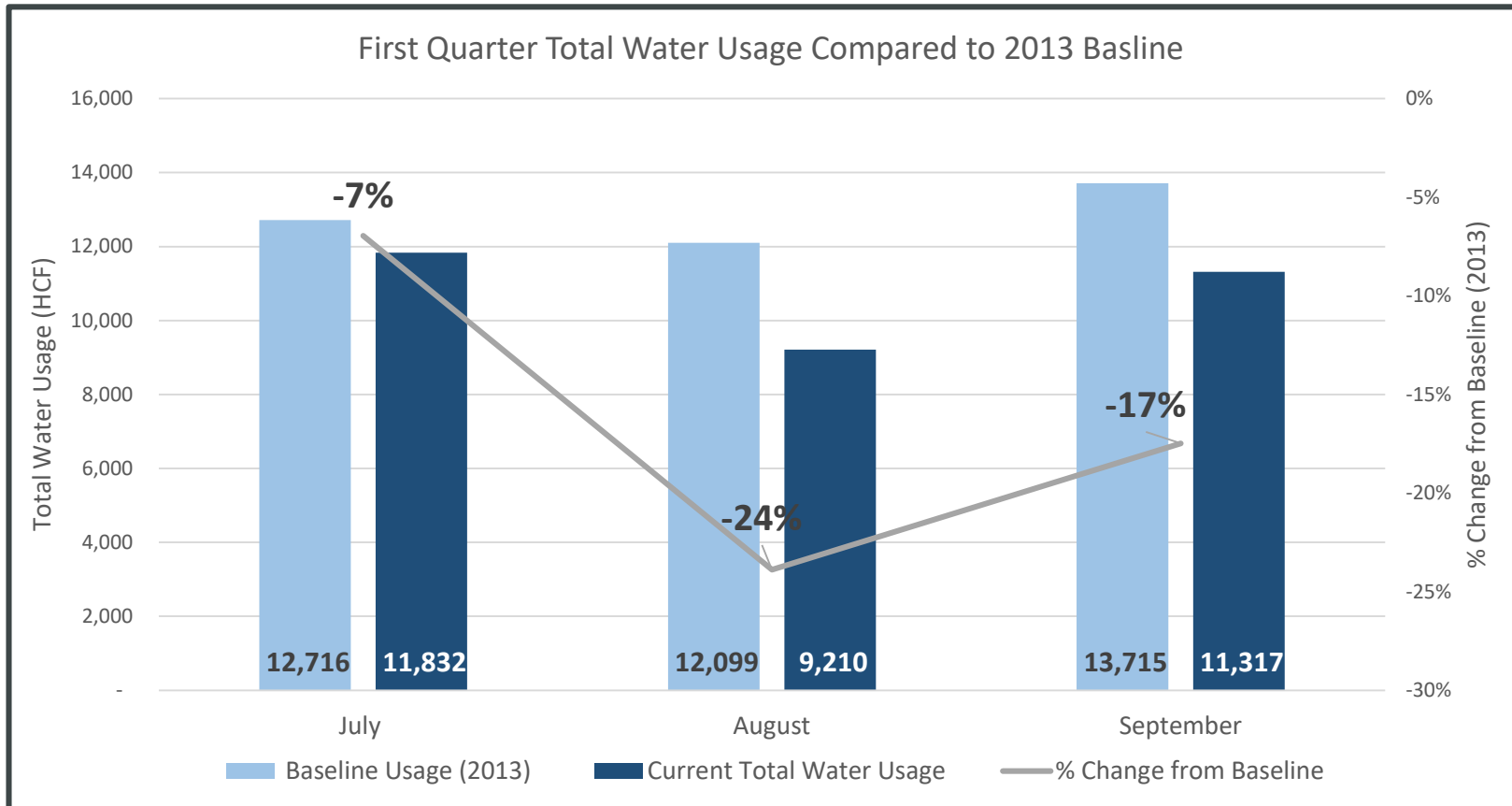
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- FTES: Full Time Equivalent Students
- GSF: Gross Square Feet
- HCF: Hundred Cubic Feet
- kWh: kilowatt hour
- BTU: British Thermal Unit
- Potable Water: Drinking water
- Recycled Water: Tertiary-treated waste water
- Baseline: the year, or years,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

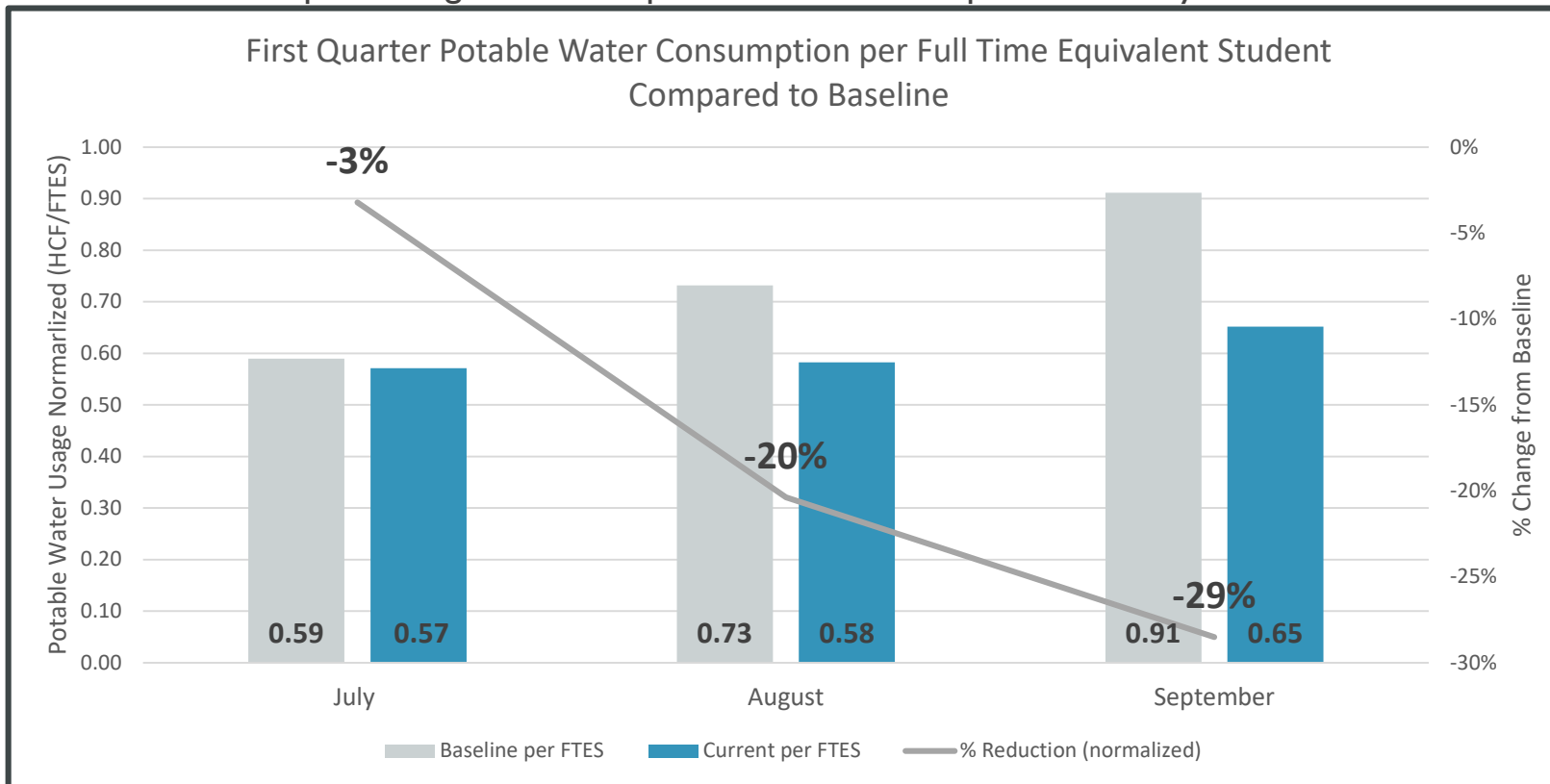
TOTAL WATER

Total Water is the combination of both our potable and recycled water usage. The CSU Chancellor's Office has set a goal to reduce total water usage 20% by 2020 compared to our 2013 baseline. Variability from month to month can often 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 an average reduction of 16% compared to the first quarter usage from 2013, ending with a 17% decrease in usage from our 2013 baseline in September.



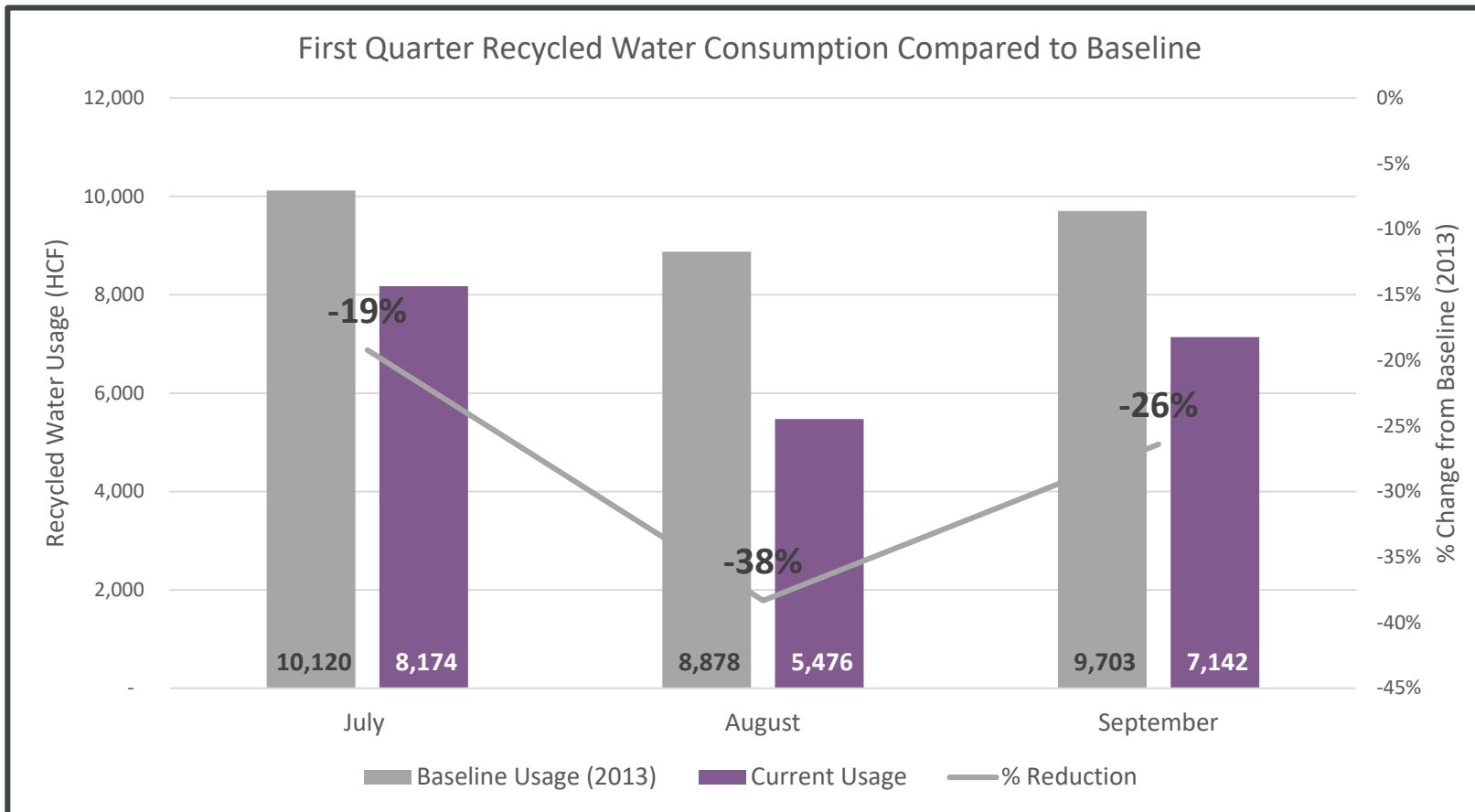
POTABLE WATER

CI's municipal water provider, Camrosa Water District, has requested a 15% reduction of potable water consumption from the 2013 baseline. The campus realized **an average 20% increase in total potable water usage** during the first quarter. However, when normalized per Full Time Equivalent Student (FTES) CI reduced potable water usage 17% on average. This excludes water usage from University Glen and CI Power. To reduce potable water usage as the campus grows, CI should continue using water efficient fixtures, expand submetering, explore opportunities to transition to recycled water for operational purposes (i.e. toilet flushing, process water, etc.), and conduct outreach promoting water wise practices for the campus community.



RECYCLED WATER

Reductions in CI's recycled water usage are accounted for in the total water goal. We will achieve our goals by utilizing improved irrigation management systems, improving submetering, adding mulch, and utilizing drought-tolerant and native landscaping. High variability in usage from month to month is caused by factors such as irrigation needs and weather conditions. Collective efforts contributed to an average reduction of 28% compared to the 2013 baseline, saving the university nearly \$19,000 in avoided water costs.

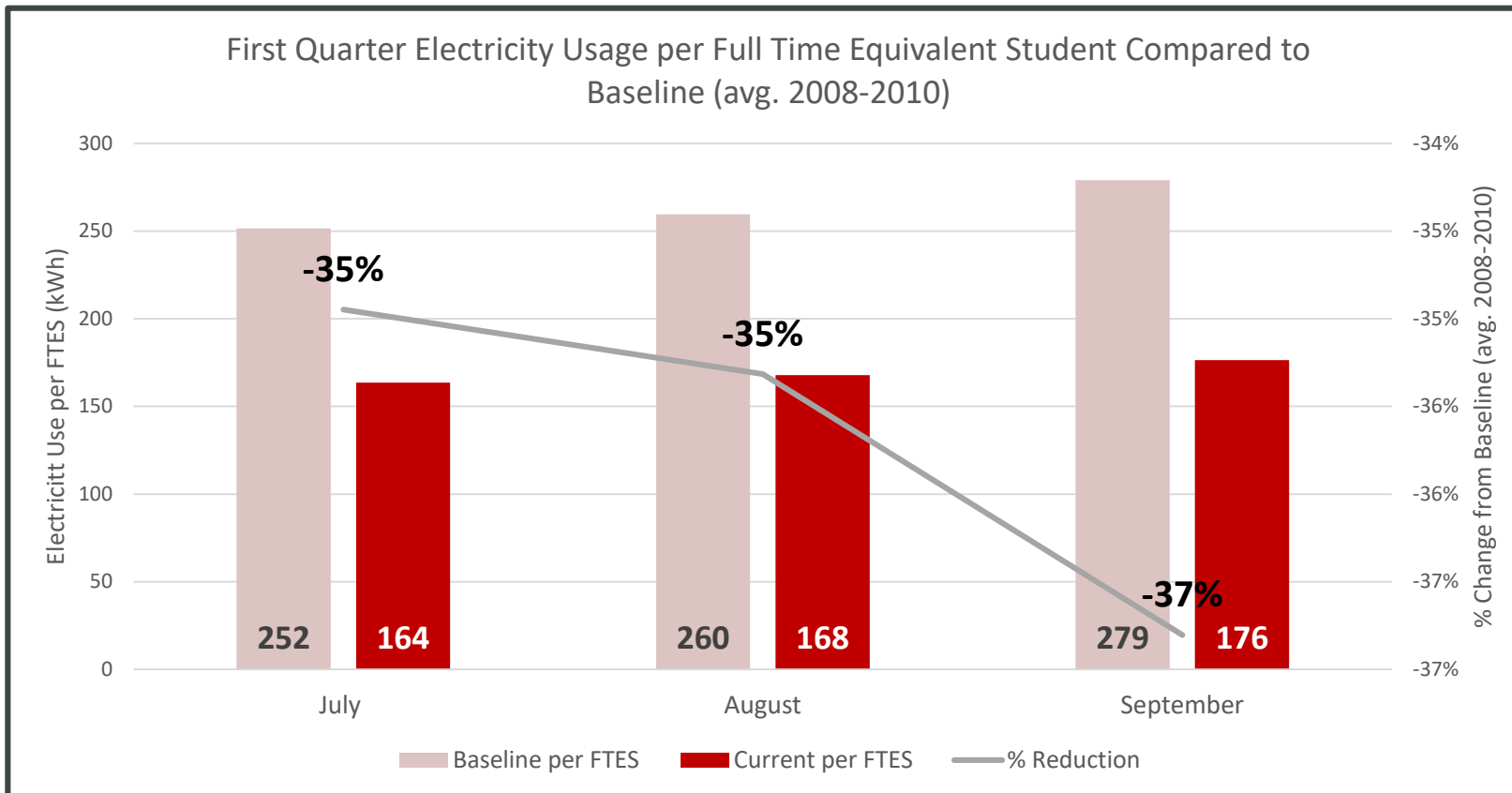


WATER CONSERVATION TIPS

- 💧 Only wash full loads in your washing machine and dishwasher.
- 💧 Take advantage of native and drought tolerant plants in landscaping and replace irrigated turf with wood chips, rocks or sand.
- 💧 Schedule irrigation to occur at night when evaporation is at its lowest and turn irrigation off during high wind events.
- 💧 Be extremely conservative at the tap whether you're doing dishes, thawing food, 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.
- 💧 Take showers instead of baths using a low-flow shower head. You can also challenge yourself to reduce your shower time for extra water savings.

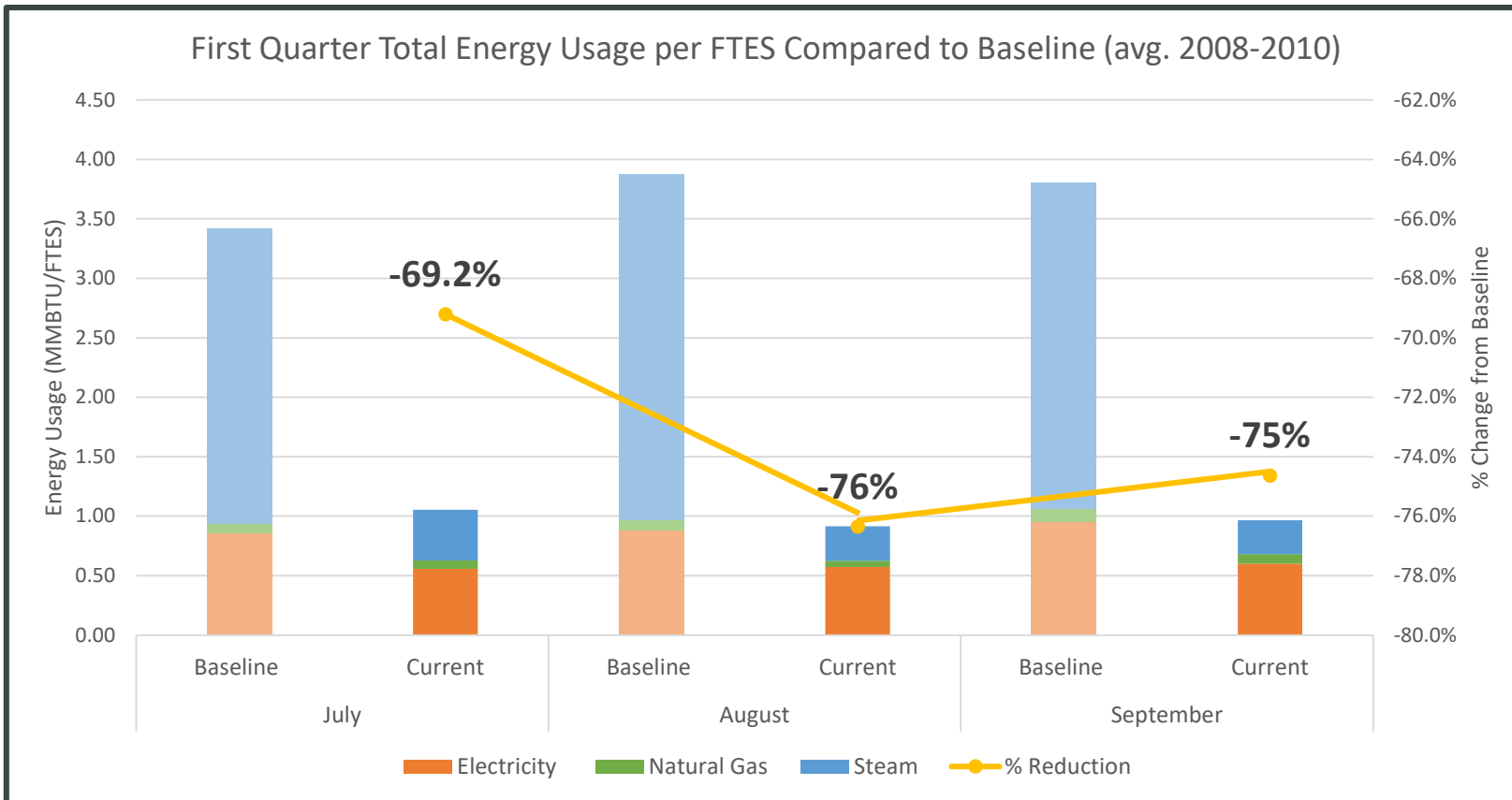
ELECTRICITY

Our need for electricity increases as the campus continues to grow. However, as we continue to innovate and utilize more efficient technologies, our electricity usage per FTES has decreased compared to our baseline (average 2008-09 and 2009-10 FYs). Our goal (set by the CSU Chancellor's Office) of a 25% reduction per FTES from the baseline continues to be exceeded each month this quarter. Although actual total electricity usage increased 31% from the baseline, CI achieved an average reduction of 36% per FTES.



TOTAL ENERGY

Total energy is the representation of all sources of energy on campus, including electricity, steam and natural gas. Steam is the most abundant source of energy because it is used for the majority of heating hot water, chilled water for cooling, and providing space heating for campus after it is converted at CI's Central Plant. Electricity is used for lighting, plug loads, and various equipment around campus. Natural gas is used for some heating hot water, cooking, and limited space heating. Our goal is a 25% reduction per FTES versus our baseline, which we are exceeding. Even without normalizing the data for population increases, the campus has reduced total energy consumption by an average of 46% from the baseline.

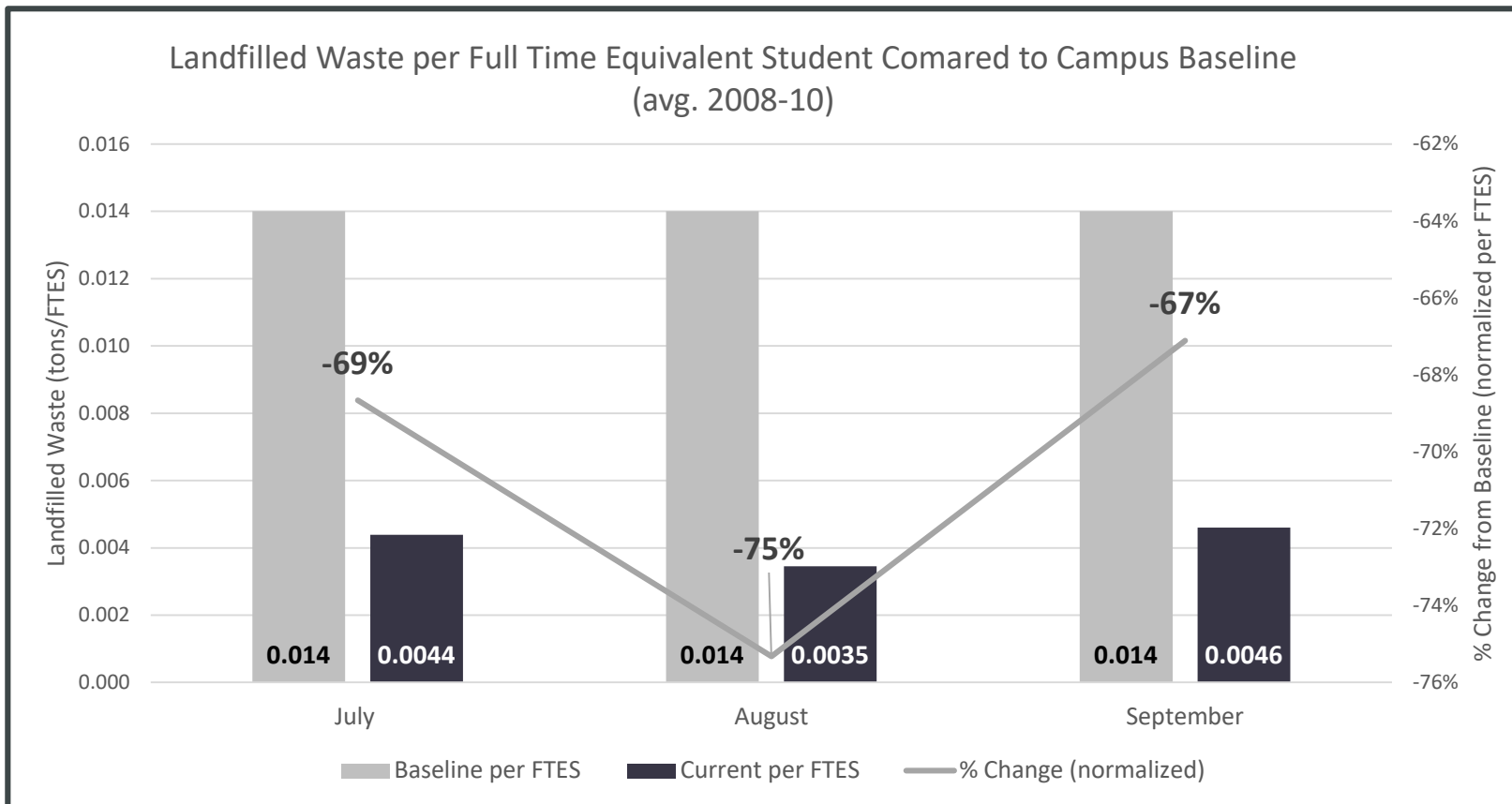


ENERGY CONSERVATION TIPS

- ⚡ Replace your light bulbs with LED options. They use less energy and last longer than fluorescent and incandescent bulbs.
- ⚡ Close windows and doors when running air handling units - they are ineffective at changing the temperature outside!
- ⚡ Wear layers and use blankets or fans instead of adjusting the thermostat up or down at home or in the office.
- ⚡ Avoid letting your car idle: an idling car is wasting gas and spewing pollution into the environment.
- ⚡ 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.

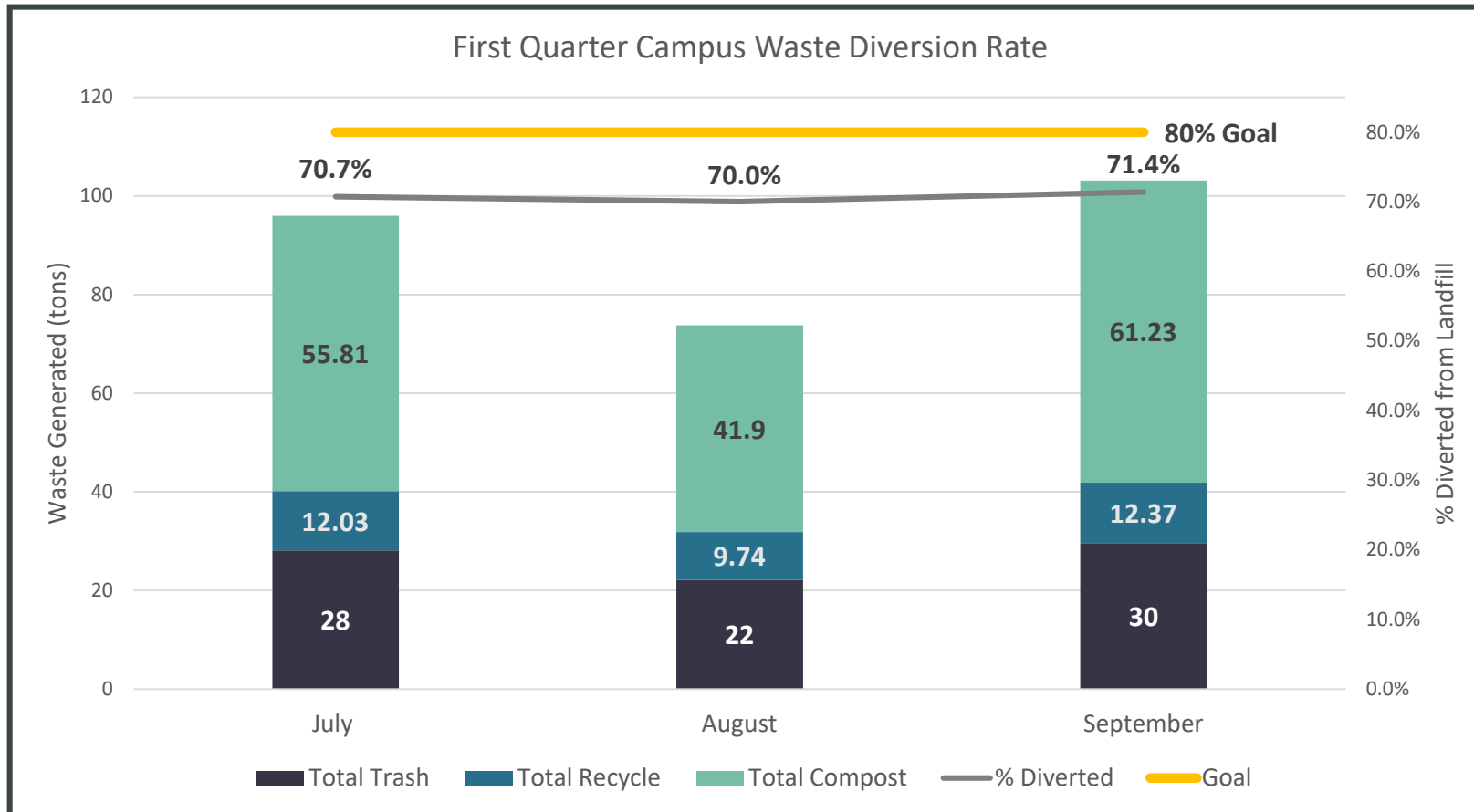
WASTE

The CSU Chancellor's Office has set a goal to divert 80% of campus waste by 2020. While we consistently come very close to 80% diversion, achieving the last ~10% towards this goal will have to come from a reduction in waste produced by the entire campus community. Efforts to reduce waste sent to landfills saves the university money, helps to lower methane emissions and minimizes chemicals that can leach into the water table. By recycling, we reduce the energy and raw materials needed to make brand new items like water bottles and other plastics.



WASTE

CSU Channel Islands consistently 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. Achieving the final 10% diversion toward this goal by 2020 will require engagement from the entire campus community. CI will 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

- ♻️ Prioritize reusables! Bringing your own bag to the store or mug to the coffee shop reduces waste and can often save you money.
- ♻️ Purchase food in bulk to avoid extra packaging and save money.
- ♻️ Know what is recyclable and where to take it. Recycling incorrectly creates contamination and may sabotage the whole recycling load.
- ♻️ Buy food from local sources to reduce the carbon footprint from transportation. This food also often has less packaging waste. Visit the local farmer's market or look for a CSA program.
- ♻️ Donate unwanted clothes and household items to Ekho's Closet, a local shelter, or a resale store.
- ♻️ Drink from a reusable bottle and use the hydration stations throughout campus to access clean drinking water.
- ♻️ Choose to drink without a straw or try an alternative material, such as paper, silicone, stainless steel, hay, or pasta!

SUSTAINABILITY ON CAMPUS

This summer Facilities Services Sustainability welcomed two new members:



← Roxane Beigel-Coryell,
Sustainability & Energy Manager

Roxane joined CI in late July, bringing nearly a decade of experience working on campus sustainability, energy efficiency, and waste diversion efforts.

Natasha Saxena, →
Sustainability Student Assistant

Natasha is in her third year at CI, studying Environmental Communication. She also serves in student government as the Senator for Sustainability and Technology.



Roxane and Natasha are both excited to continue building upon the great sustainability initiatives already underway at CSUCI. This year, a few of the FS Sustainability priorities will include:

- Guiding Campus Climate Action Planning
- Updating CSUCI's Sustainability, Tracking, Assessment and Rating System (STARS) Submission
- Renewing Tree Campus USA & Bee Campus USA Designations
- Facilitating Energy Efficiency Projects
- Ongoing Sustainability Education & Outreach

SUSTAINABILITY ON CAMPUS



In September, FS Sustainability tabled at the Emergency Preparedness Fair and the campus Peace Day events. At the Emergency Preparedness Fair, we shared information about the impacts of climate change in this region and tips to lead a more sustainable lifestyle. At the Peace Day event, FS Sustainability Student Assistant, Natasha Saxena, partnered with the Green Generation Club to present information on the United Nation's Sustainable Development Goals and how they align with ongoing initiatives and programs here at CSUCI.

The Sustainability & Energy Manager, Roxane Beigel-Coryell, gave presentations to ESRM and UNIV classes about the operations of Sustainability in Facilities Services and how Facilities Services contributes to sustainability on campus. She also gave ESRM students a sustainability tour, highlighting the many sustainability features and initiatives on campus. The tour included information on CI's Tree and Bee Campus Designations, green building practices, energy management, waste diversion, and the natural environment. FS Sustainability also coordinated tours of CI Power, Miller Farms, and the Camrosa Water District.



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
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Appreciation goes out to the following contributors:

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