



Channel Islands

CALIFORNIA STATE UNIVERSITY



**Sustainability Report | First Quarter
FY 2017 – 2018**

TABLE OF CONTENTS & IMPORTANT TERMS

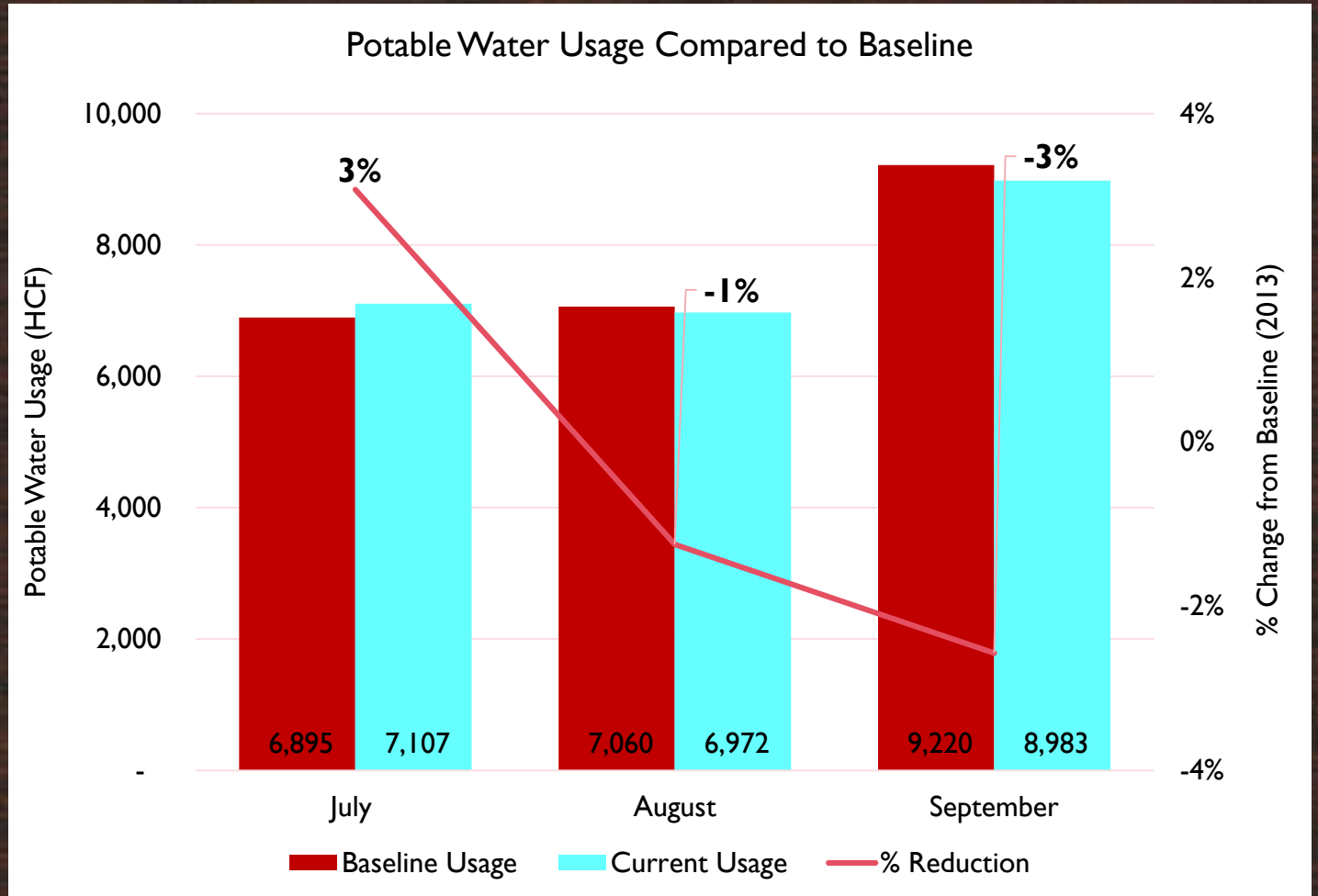
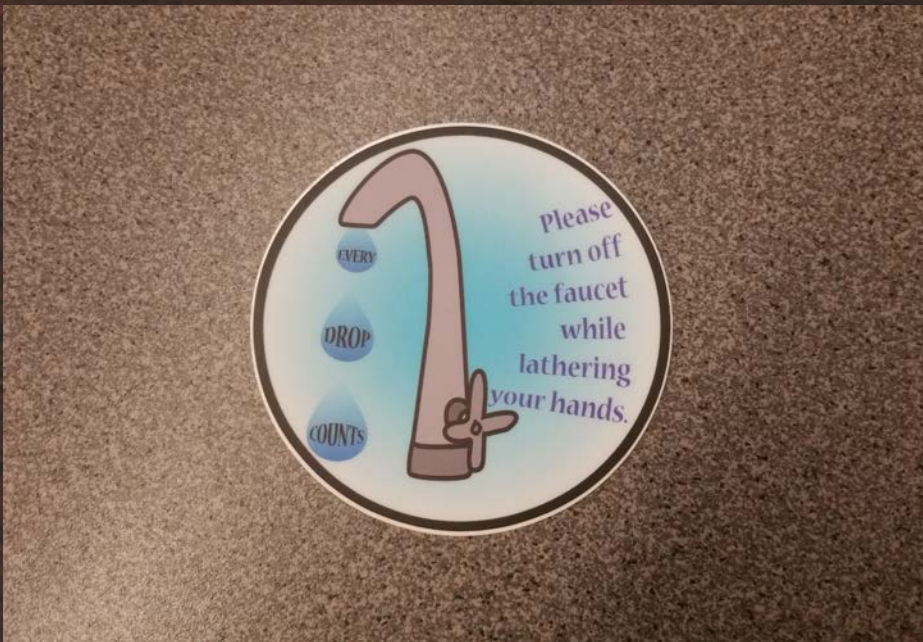
1. Potable Water
2. Recycled Water
3. Total Water
4. Water Conservation Tips
5. Waste
6. Waste Reduction Tips
7. Electricity
8. Energy
9. Energy Conservation Tips
10. Sustainability on Campus
11. Acknowledgements

- 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 2008-2010)



POTABLE WATER

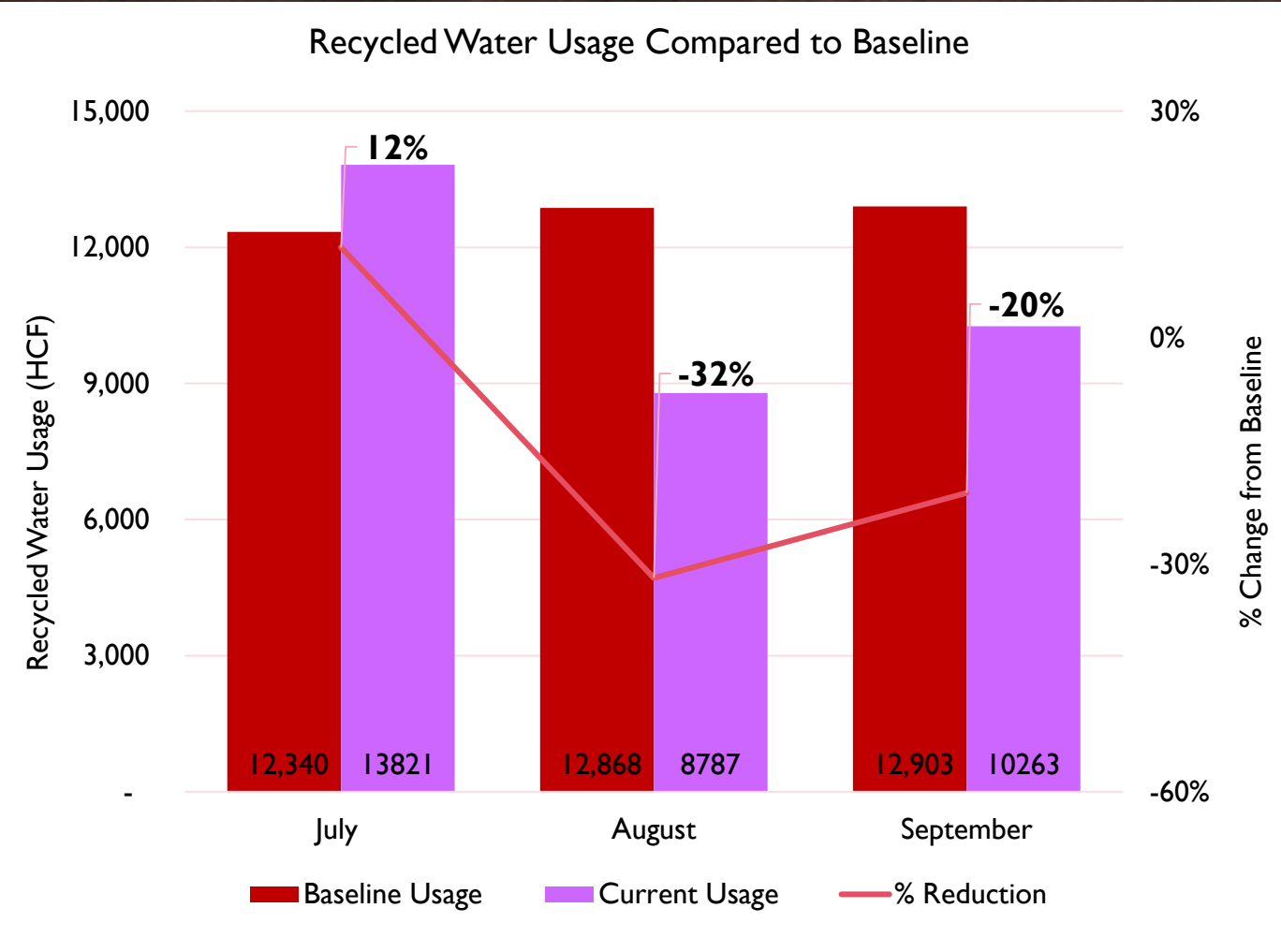
Our municipal water provider has requested we reduce our potable water consumption by 15% from our 2013 baseline. The participation of every member of the campus community is required to realize this goal.



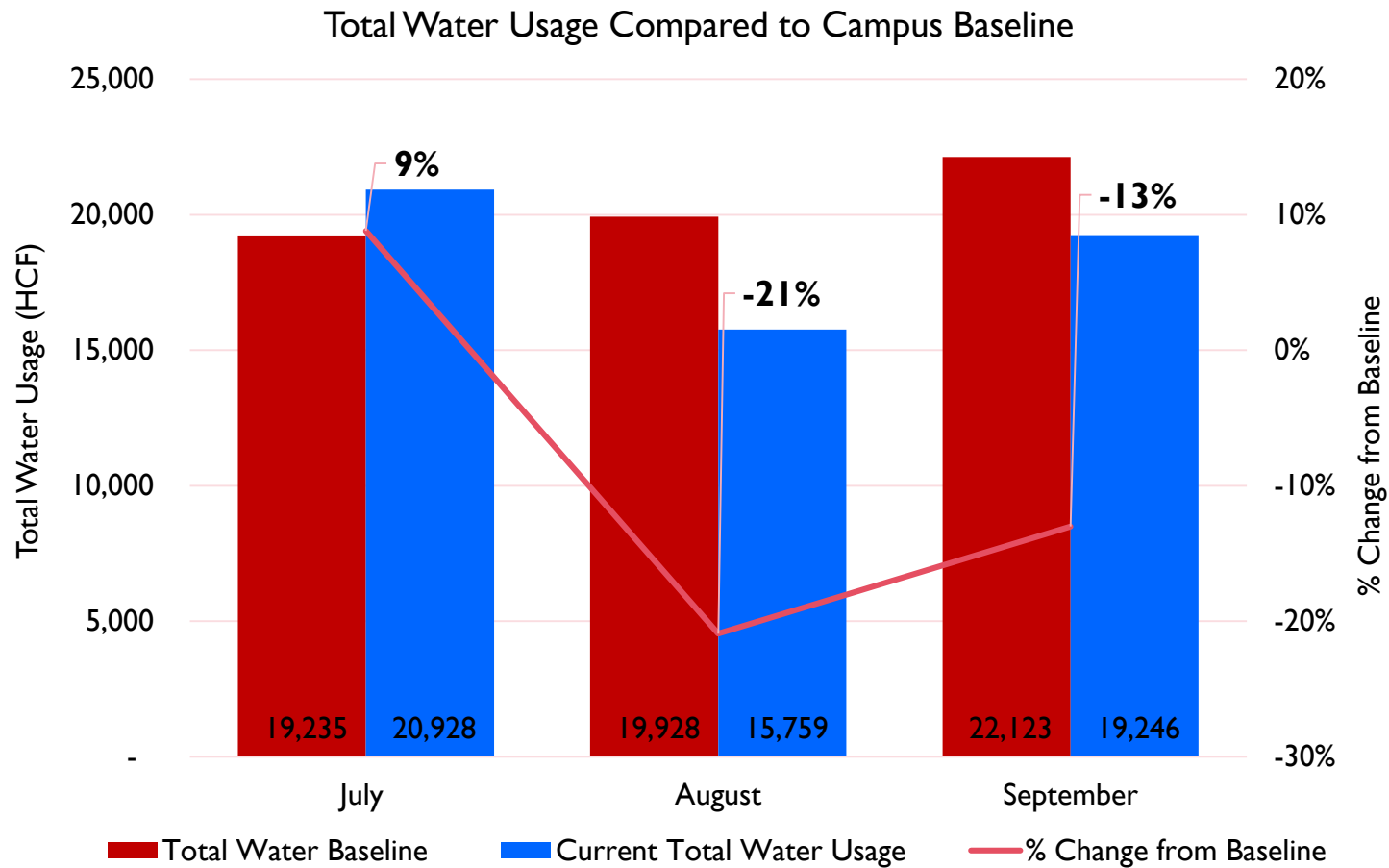
Pictured above: Stickers placed by faucets around campus to help remind students and faculty of their role in reducing potable water use

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, and planting more drought tolerant and native landscaping.



TOTAL WATER



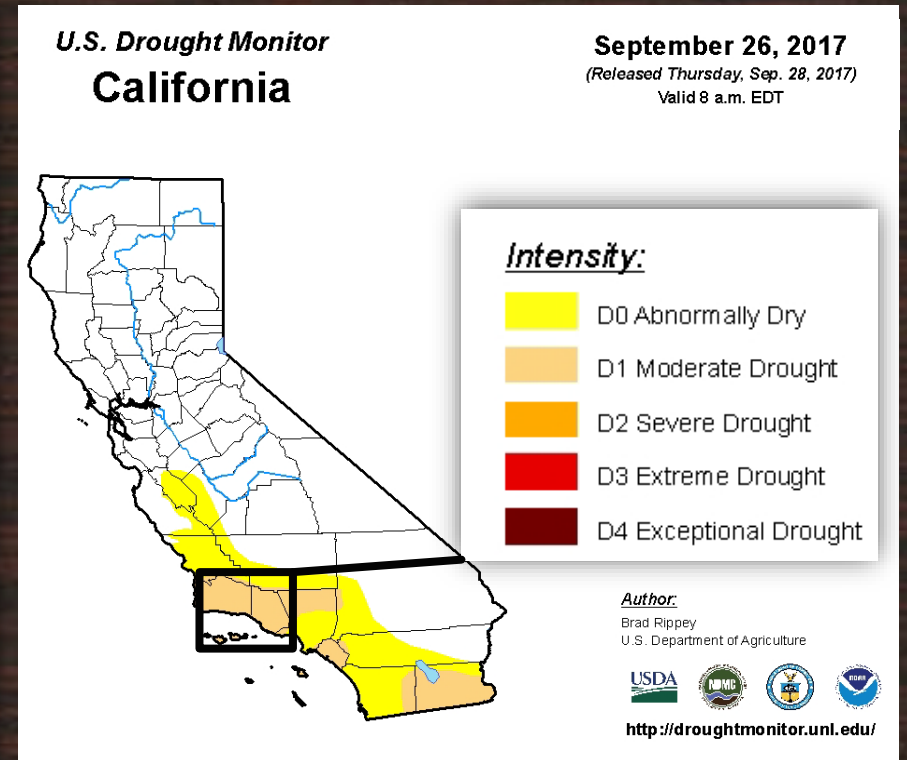
Total Water is the combination of both our potable and recycled water usage. The CSU Chancellors Office has set a reduction goal for total water of 20% by 2020 compared to our 2013 baseline. The graph depicts significant variability month to month, some of which can be attributed to incoming students,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



Every  counts!

WATER CONSERVATION TIPS

- Don't wash your car at home; head to the car wash where they are mandated to recycle the water used.
- If you find any water leaks on campus notify the FS Work Center right away at (805)437-8461
- Only run a full dishwasher or washing machine.
- Use pitchers of tap water and refrigerate them instead of running the tap for cold water.
- Plan ahead: don't thaw meat with running water.
- Be aware of the amount of water that goes into producing your food.
- Every drop you save counts on and off campus!

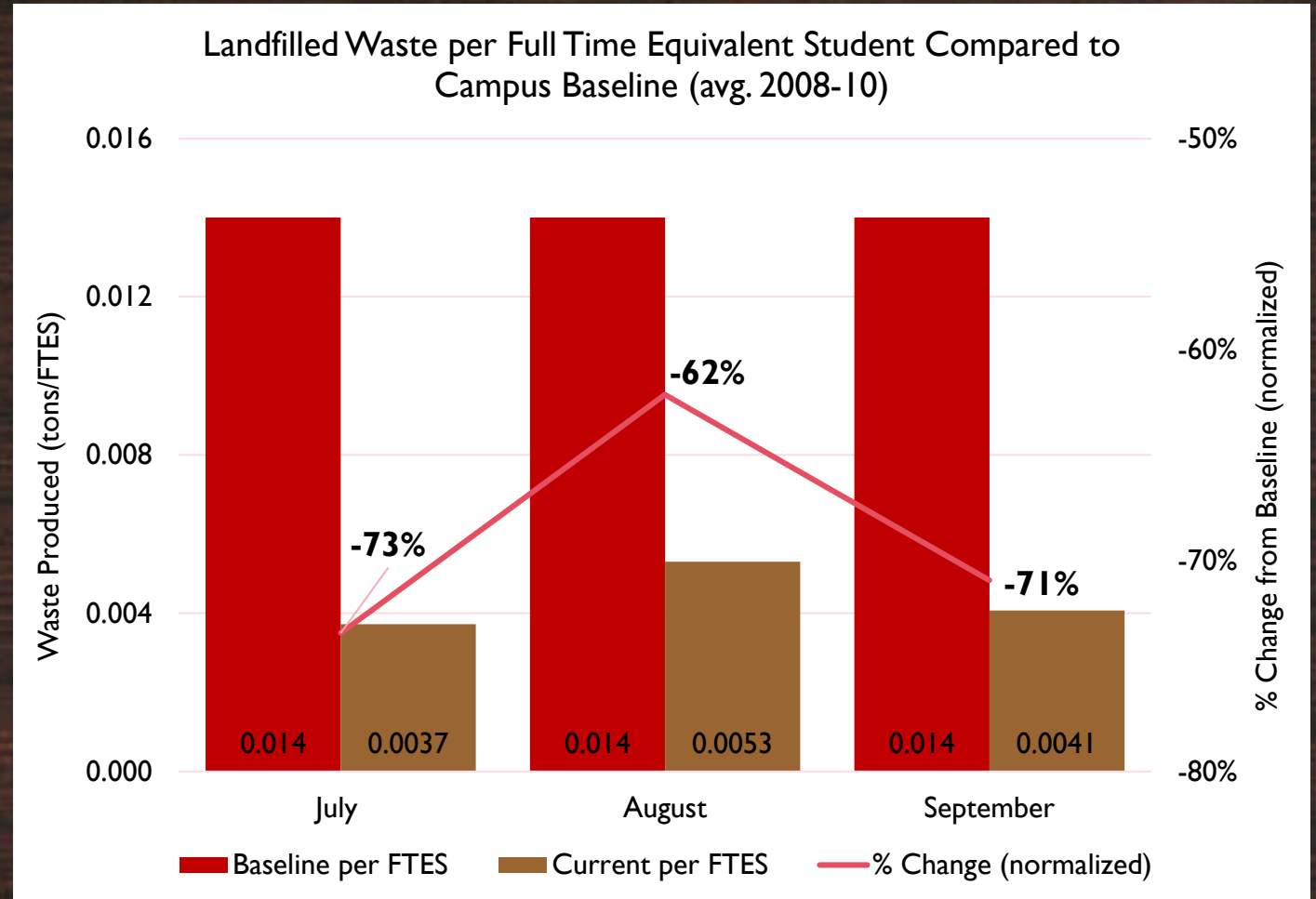


Ventura County is still in “moderate drought” conditions

WASTE

Our goal, set by the CSU Chancellors Office, is an 80% diversion rate from landfills by 2020, and we are very close! By diverting waste from our landfills we reduce methane emissions and limit chemicals that can leach from landfills 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.

REUSE
REDUCE
RECYCLE



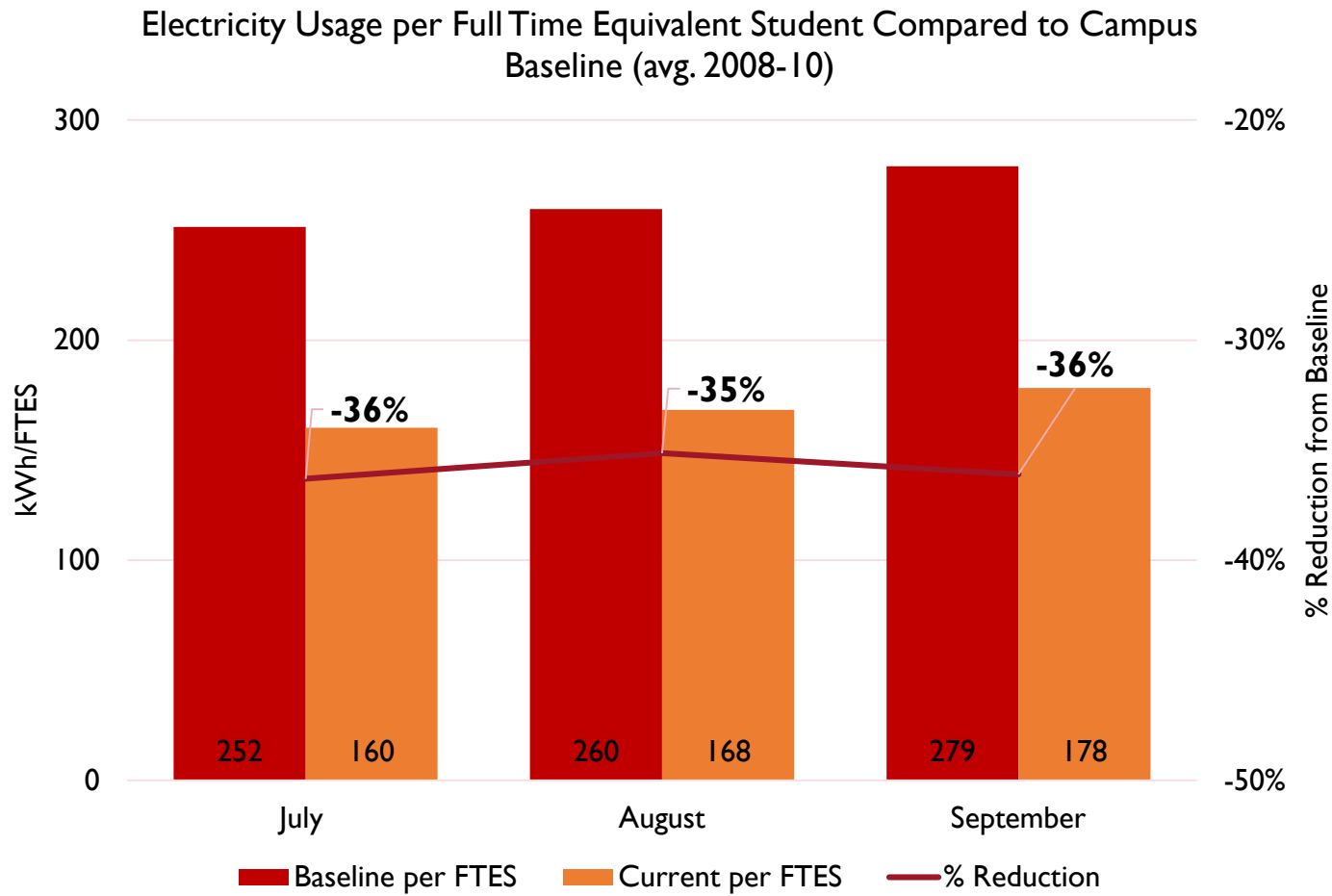
WASTE REDUCTION TIPS

- Get to know your local waste hauler and understand what you can and cannot recycle.
- Only buy what - and how much - you really need.
- Bring your reusable water bottle and bags everywhere you go; keep spares in your car!
- Buy local foods that require less travel and less packaging.
- Buy in bulk to avoid more packaging, but make sure you'll use all of the product before it expires.
- Always recycle when possible.



Make sure to dispose of products properly, to keep our campus looking clean and beautiful.

ELECTRICITY



Electricity generation is a large producer of greenhouse gases, so as we reduce more and more, we're also cutting emissions. Electricity usage has been normalized by the number of full time equivalent students in attendance this fiscal year. Our reduction goal of 25% has been set by the CSU Chancellors Office. This quarter we have exceeded our goal!



Pictured Above: Typical campus lighting along Ventura Street

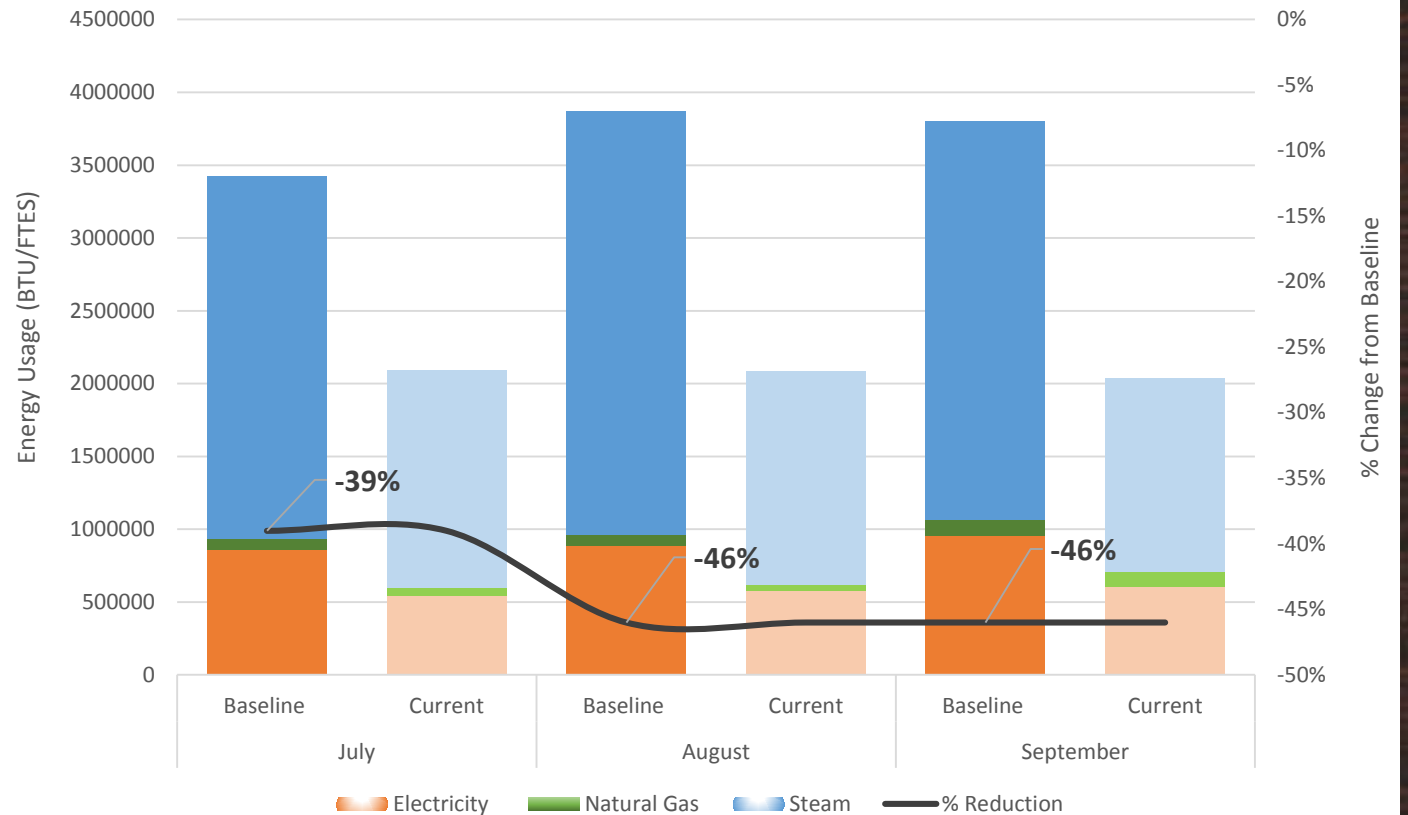
TOTAL ENERGY

Total energy is our method of representing natural gas, steam and electricity usage together. Energy usage has decreased this quarter due to continued efforts around campus. These efforts include efficient lighting, space heating, and upgraded appliances across the campus. This reduction is helping us cut down on greenhouse gas emissions as well.



Pictured Above: Solar parking lot lights

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 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.
- 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.



Pictured Above: CI Vista Bus – an alternative to parking on campus at $\frac{1}{8}$ of the cost. The bus runs reliably on a half hour loop to get you to class on time.

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

STUDENTS TOUR FACILITIES



We are proud to offer a fun selection of Sustainability Tours to our students each semester. A total of 9 class sections from 5 different faculty participated in a tour of the Camrosa Water Reclamation Facility, conveniently located adjacent to our campus. Students viewed the treatment process that takes our sewage and turns it into the recycled water we use again for irrigation. This is an invaluable perspective to gain as we make continual efforts to reduce water usage across campus to adequately address California's drought.

Our Co-generation and Central Plants are other great touring opportunities for our students. At CI Power (CIP), our co-generation plant, students will see a part of the infrastructure required to bring power to our campus. CIP produces electricity using natural gas and steam turbines. The "waste" steam is then channeled to Central Plant where its energy is used for space heating and cooling as well as producing domestic hot water. Students from Prof. Wood's Thermal and Statistical Physics course and Prof. Rasnow's Transfer Year Seminar participated in the tour this semester.

Pictured Above: Students listening to Graham Moland describe the process of water treatment at Camrosa

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 Coleen.Barsley@csuci.edu.

Appreciation goes out to the following contributors:

- **Department of Facilities Services**
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**FACILITIES
SERVICES**

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