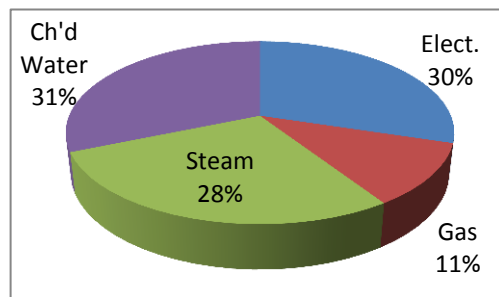


## FY 2016 – 3<sup>rd</sup> Quarter Energy Report

TTUHSC buildings consumed 54 kBtu/sf in the 3<sup>rd</sup> Quarter, which is expected to meet our institutional goal of keeping annual energy utilization index (EUI) value in the range of 226 and 250 kBtu/sf/yr. Water consumption intensity for the 3<sup>rd</sup> quarter is 5.6 Gal/sf, which is within the limits of SECO (State Energy Conservation Office) water conservation guidelines.

### Campus Energy Use (kBtu/Sq ft): March – May

Utility	FY16 Actual	FY15 Actual	Change
Electricity	16.14	15.78	2.30%
Natural Gas	5.98	7.10	-15.84%
Steam	15.18	14.69	3.35%
Chilled Water	16.97	16.40	3.44%
Total	54.27	53.97	0.55%



1. In 3<sup>rd</sup> Quarter FY 2016, Cooling Degree Days (CDD) increased by 43%, and Heating Degree Days (HDD) decreased by 17%, as compared to 3<sup>rd</sup> Quarter FY 2015.
2. Energy forecast and preliminary budget for FY-2017 were prepared and submitted for approval.
3. There has not been any major disruption of utility services in any of the campuses.
4. We have provided energy and infrastructure assessment for the Lubbock Childcare Center, which is in the preliminary planning phase.
5. We have completed installation of one new air handling unit with fanwall system and DDC control in Lubbock HSC building. Another air handling unit is being replaced in the same building. Construction is expected to be completed by end of August 2016.
6. We have completed replacement of 350 fluorescent tubes and 3 outdoor HID lamps by LED T8 tubes and bulbs. 32W or 28W fluorescent tubes were replaced by LED 15W tubes.
7. We are in the process of evaluating performance of pressure independent energy valves w/ delta-T control.
8. We have completed acoustics analysis of air handling units and associated components. Provided recommendation to improve noise control in the space.
9. New energy efficient LED lights are being tested for performance and reliability since FY2010. As of date, the failure rate is 4.5%, and no significant depreciation in illumination.
10. We are in the process of upgrading control system of PS Library building. This is expected to be completed by end of CY-2016.
11. Total miles driven by vehicles in 3<sup>rd</sup> Quarter FY16 have increased by 6.27% (or 7,890 miles) as compared to 3<sup>rd</sup> Quarter FY15. Total fuel cost for the quarter has decreased by 18.66% (or \$2,845.79) due to lower unit cost of gasoline.
12. We continue to update the annual 'Energy and Water Management Plan', which outlines institutional energy and water conservation goals, list of projects completed, and measures for the campus energy conservation. This complies with 34 Tex. Admin. Code §19.14. Projects are being prioritized and implemented based on acceptable payback period, and availability of funding.
13. We provided technical support for new building design projects, existing building renovations/ alterations projects, and operational trouble shooting of building equipment.

