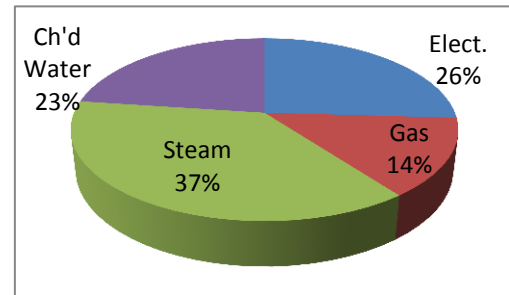


## **FY 2016 – 2<sup>nd</sup> Quarter Energy Report**

TTUHSC buildings consumed 61 kBtu/sf in the 2<sup>nd</sup> Quarter, which is expected to meet our institutional goal of keeping energy utilization index (EUI) value in the range of 226 and 250 kBtu/sf/yr. Water consumption intensity for the 2<sup>nd</sup> quarter is 3.8 Gal/sf, which is within the limits of SECO (State Energy Conservation Office) water conservation guidelines.

### **Campus Energy Use (kBtu/Sq ft): December – February**

Utility	FY16 Actual	FY15 Actual	Change
Electricity	15.87	15.91	-0.26%
Natural Gas	8.47	9.00	-5.90%
Steam	22.93	22.03	4.08%
Chilled Water	14.02	12.74	10.08%
<b>Total</b>	<b>61.29</b>	<b>59.68</b>	<b>2.70%</b>



1. In 2<sup>nd</sup> Quarter FY2016, Cooling Degree Days (CDD) has increased insignificantly and Heating Degree Days (HDD) has decreased by 10%, as compared to 2<sup>nd</sup> Quarter FY2015.
2. We have assisted in completion of design documents to replace two air handling units in Lubbock HSC. This will be in construction phase during the second half period of FY-16.
3. We have verified equipment performance, building automation system logic, air flow matrix of three buildings in Amarillo and Abilene locations. Provided recommendations to reduce energy consumption and improve equipment performance.
4. We provide technical support for operational trouble shooting, and building renovations/ alterations projects.
5. We are in the process of replacing 350 fluorescent tubes and 3 outdoor HID lamps by LED lamps.
6. We have installed three more pressure independent valves for chilled water flow control to the air handling unit coils. Measurement and verification indicated optimum and consistent flow to the coils.
7. We have provided energy and infrastructure assessment for the Amarillo Simulation Center that is in the facility programming phase.
8. We participate in engineering webinars, and SAEAG monthly meetings.
9. New energy efficient LED lights are being tested for performance and reliability since FY2010. As of date, there has been 4.6% failure rate, and no significant depreciation in illumination.
10. Upgrade pneumatic control systems to direct digital control systems. This is being done as and when funding is available.
11. Total miles driven by vehicles in 2<sup>nd</sup> Quarter FY2016 have increased by 4% (or 5,114 miles) as compared to 2<sup>nd</sup> Quarter FY2015. Total fuel cost for the quarter has decreased by 20% (or \$2,806) due to lower unit cost of gasoline.
12. We continue to review and identify energy savings projects and improve operational methods for the campus energy conservation. Projects are being prioritized and implemented based on acceptable payback period, and availability of funding.

