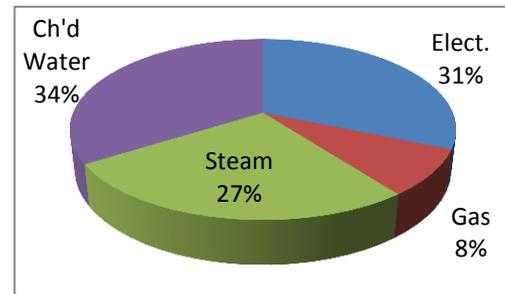


FY 2016 – 1st Quarter Energy Report

TTUHSC buildings consumed 55 kBtu/sf in the 1st 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 1st quarter is 6.8 Gal/sf, which is within the limits of SECO (State Energy Conservation Office) water conservation guidelines.

Campus Energy Use (kBtu/Sq ft): September – November

Utility	FY16 Actual	FY15 Actual	Change
Electricity	17.13	16.89	1.42%
Natural Gas	4.51	5.54	-18.49%
Steam	14.44	15.73	-8.16%
Chilled Water	18.54	18.46	0.42%
Total	54.63	56.62	-3.51%



- In 1st Quarter FY 2016, Cooling Degree Days (CDD) increased by 38%, and Heating Degree Days (HDD) decreased by 25%, as compared to 1st Quarter FY 2015.
- 'Annual Energy Report' and 'Energy & Water Management Plan' were prepared and submitted to SECO on October 30, 2015.
- We are continuing with the electricity contract thru Tradition Energy to serve the buildings in Permian Basin and Abilene areas. Lubbock, Power & Light, and XCEL Energy provide electricity to serve buildings in Lubbock and Amarillo areas respectively.
- We have installed (8) 350W LED fixtures and (4) LED wall packs for the new parking areas. It reduced total power required per square foot with better illumination.
- One air handling unit is being replaced on the 5th floor of Lubbock HSC building. The new AHU with multiple fans will be controlled by DDC system. Construction is expected to be completed by end of 2nd quarter FY2016.
- We are in the process of replacing HID lamps by energy efficient fluorescent lamps on the 3rd floor of PS Library building.
- Lighting retrofit to use F28 & F25 T8 lamps, and occupancy sensors for automatic lighting control, are being implemented through maintenance, new construction and renovation projects.
- New energy efficient LED lights are being tested for performance and reliability since FY2010. As of date, the failure rate is 5%, and no significant depreciation in illumination.
- Upgrade pneumatic control systems to direct digital control systems. This is being done as and when funding is available.
- Total miles driven by vehicles in 1st Quarter FY2016 have decreased by 11% (or 14,905 miles) as compared to 1st Quarter FY2015. Total fuel cost for the quarter has also decreased by 42% (or \$9,693.26) due to fewer trips and lower unit cost of gasoline.
- We work with operations groups to improve equipment conditions, identify projects and measures for the campus energy conservation. Projects are being prioritized and implemented based on acceptable payback period, and availability of funding.
- We are providing project support for the new School of Public Health building in Abilene to ensure building complies with the state energy code.

