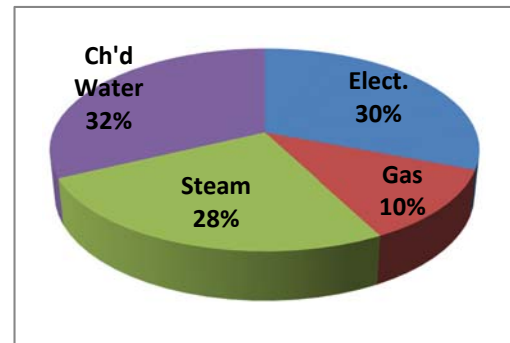


FY 2019 – 1st Quarter Energy Report

TTUHSC buildings consumed 58.43 kBtu/sf in the 1st quarter, which is expected to meet “HSC Energy and Water Management Plan” target of keeping energy utilization index (EUI) value of less than 250 kBtu/sf/year. Water consumption intensity for the 1st quarter was 6.5 Gal/sf, which is within the limits of state water conservation standards.

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

Utility	FY19 Cons.	FY18 Cons.
Electricity	17.19	16.95
Natural Gas	5.87	5.14
Steam	16.46	12.20
Chilled Water	18.92	17.12
1st Qtr. Total	58.43	51.42



1. In the 1st quarter FY 2019, weighted average Cooling Degree Days (CDD) and Heating Degree Days (HDD) were 320 and 773 respectively, as compared to 365 and 500 respectively in the 1st quarter FY 2018.
2. ‘Annual Energy Report’, ‘EPA Portfolio Manager - Energy Report’, and ‘Energy & Water Management Plan’ were prepared and submitted to the state agencies in the month of October.
3. 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 have the sole authority to provide electricity to serve buildings in Lubbock and Amarillo areas respectively. ATMOS provides natural gas at all locations.
4. One new air cooled chiller was installed in Odessa campus, to replace the 22-year old chiller with R-22 refrigerant. The new variable drive air cooled chiller uses R-134a refrigerant, & exceeds energy code performance requirement.
5. We have completed refurbishment of one air handling unit (AHU). The unit has new modular fans, VFD, pressure independent chilled water control valve, steam heating, and DDC control system. Three AHUs were retrofitted with PI control valves and DDC system.
6. Facilities Operations have replaced a significant number of fluorescent T8 tubes and associated ballasts with LED T8 tubes, particularly in the hallways and equipment spaces (24/7 operation areas). Reduced electricity consumption and better illumination has been achieved.
7. 65 HID fixtures were replaced with LED fixtures in the Lubbock campus parking lots. This has improved illumination, light quality, and color rendering, all while reducing power consumption.
8. Engineering Services continues to review the project documents and product submittals for the new building construction projects, to ensure compliance with ASHARE 90.1-2010 energy code and other applicable code requirements & project specifications.
9. Total miles driven by HSC vehicles in the 1st quarter FY2019 is 193,721.
10. Engineering Services continues to work with operation and maintenance departments to improve control parameters, and equipment conditions, identify projects and measures for the campus energy conservation.

