The Utility Plant and Demand Side Nexus

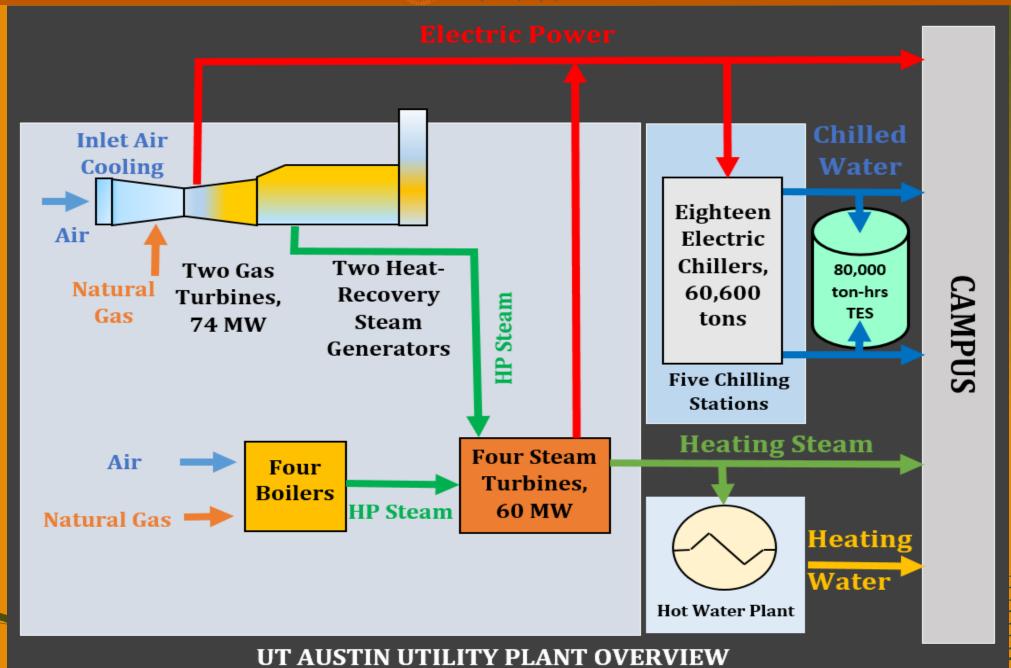
Juan Ontiveros – Associate Vice President Tejas Pevekar – Energy Manager

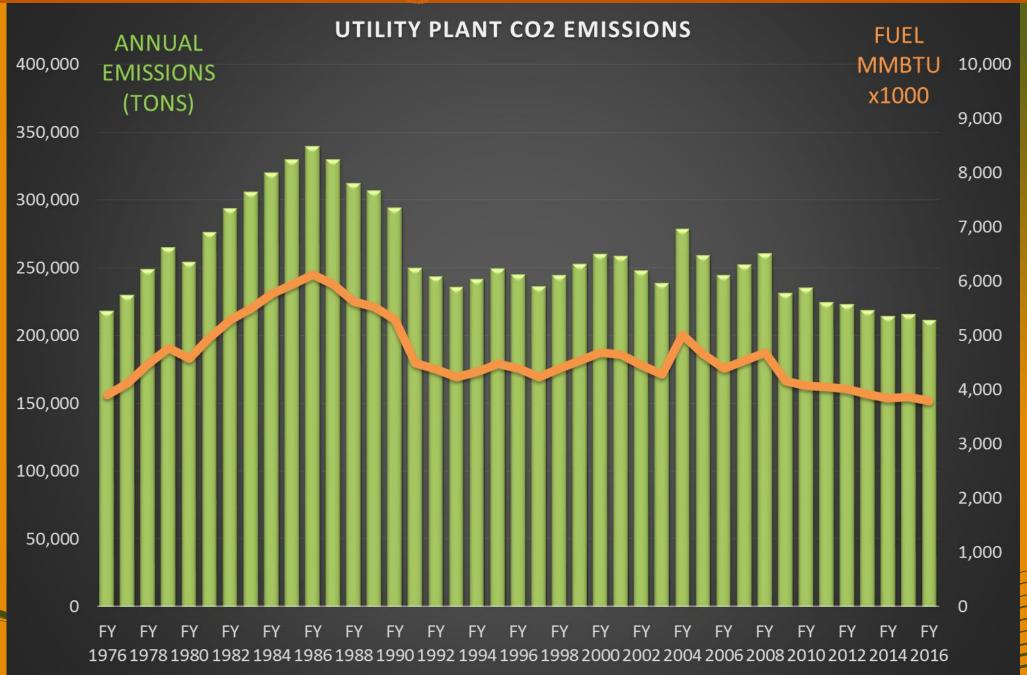




Overview

- > Space growth at UT Austin and impact on utility plant.
- Efficiency and investment goals on the demand side to offset space growth.
- ➤ Utility and Demand Side Nexus to support campus operations without adverse impact to plant reliability and energy cost.

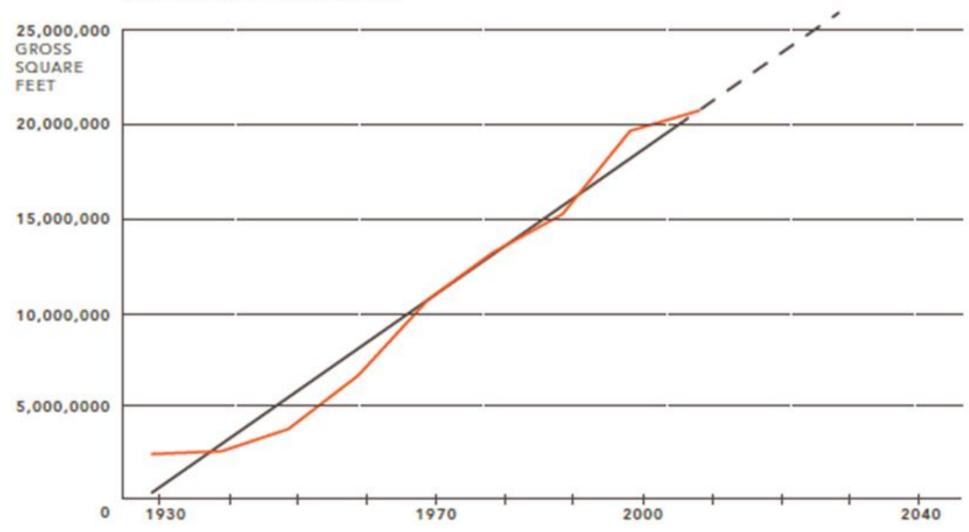




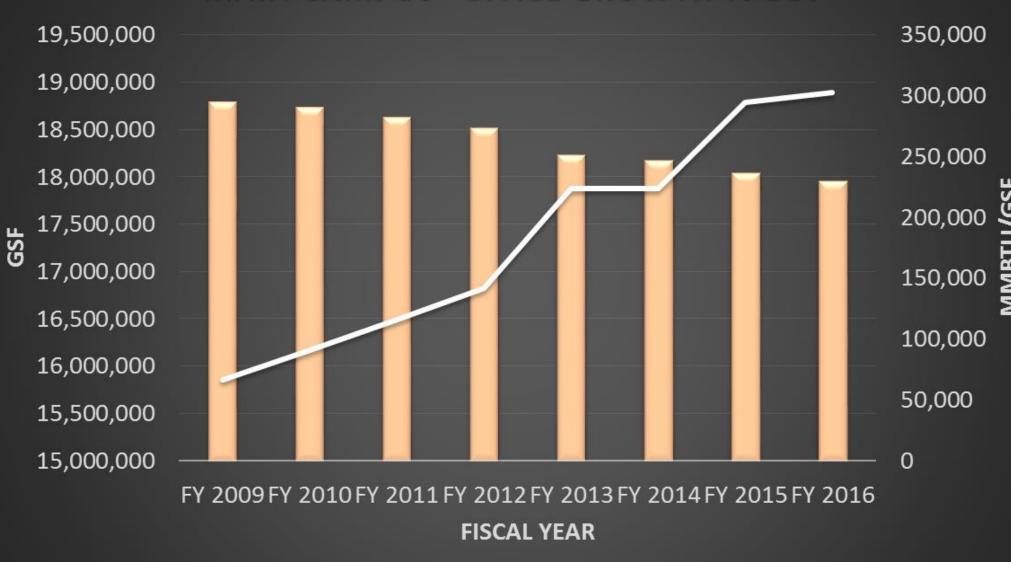


MAIN CAMPUS CONSTRUCTION TRENDS



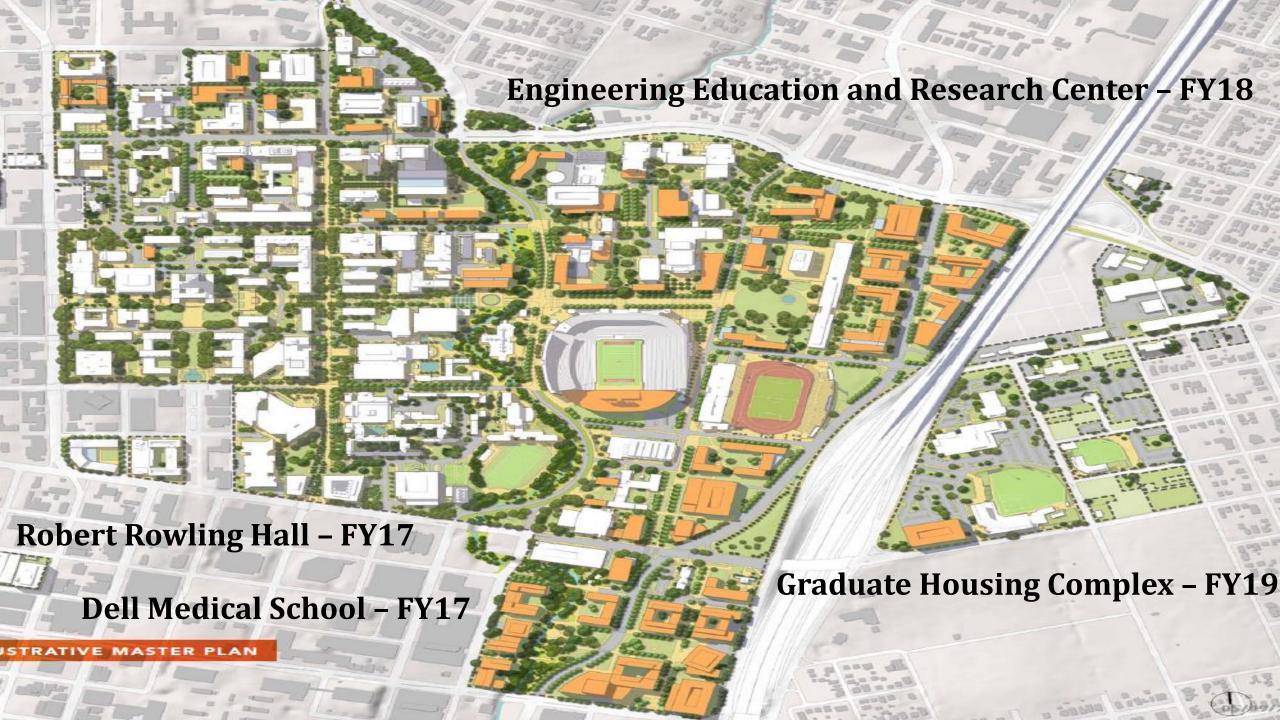




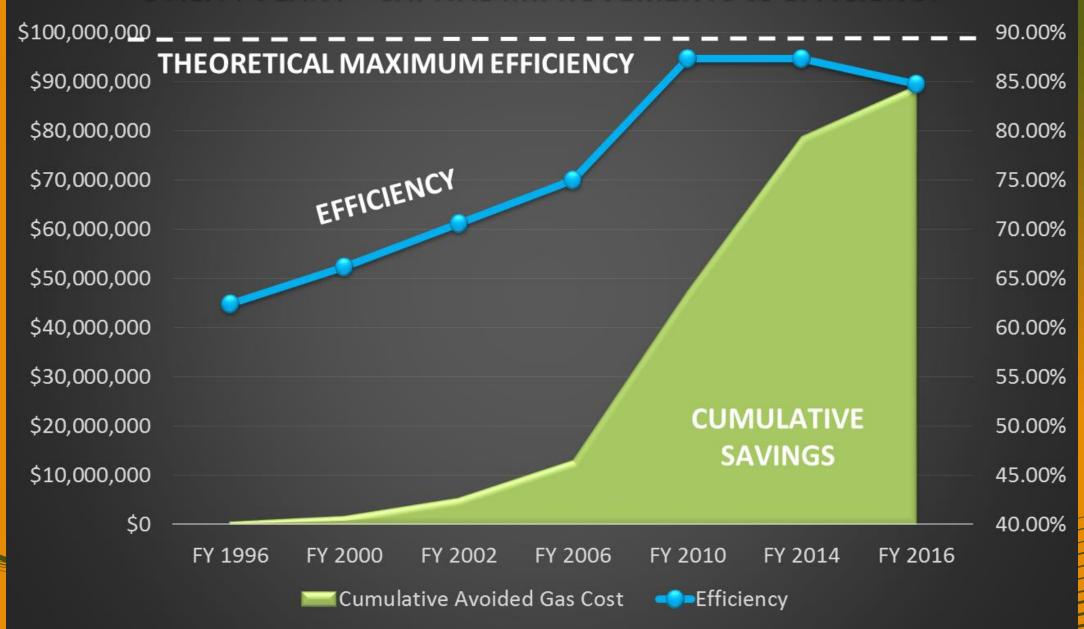


Campus EUI (MMBTU/GSF)

—Campus Space Growth (Area Served)









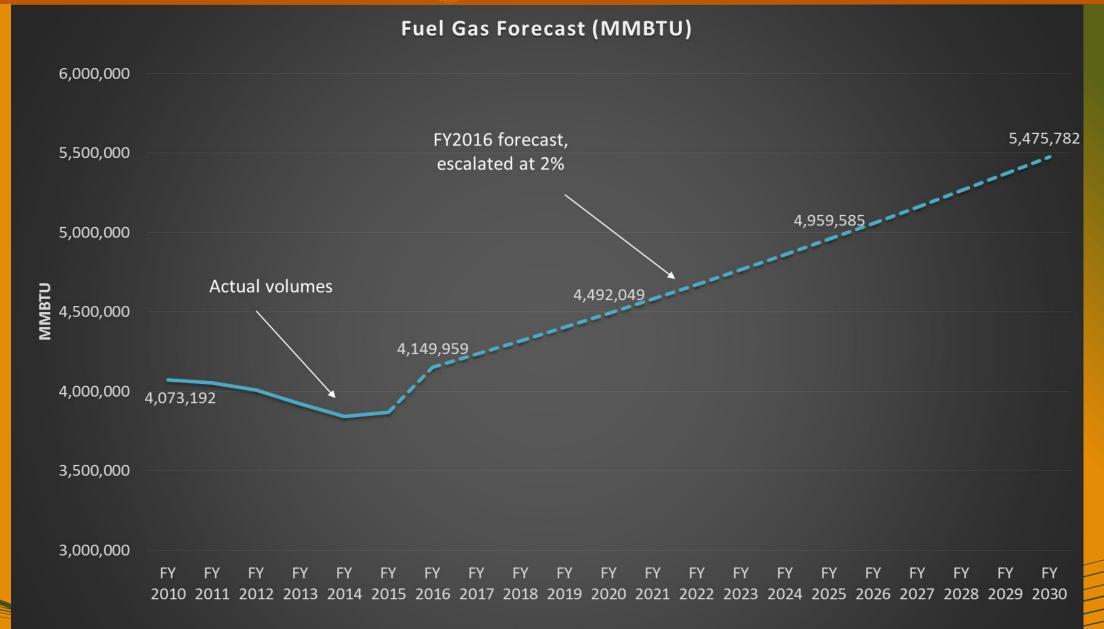
Demand Side Strategic Plan

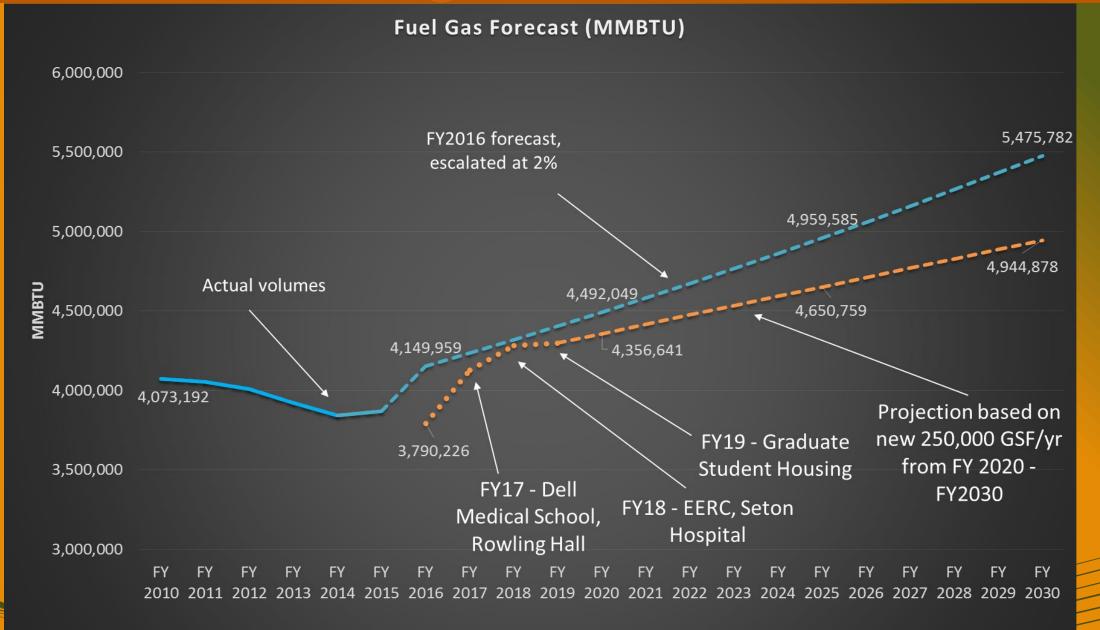
• Background:

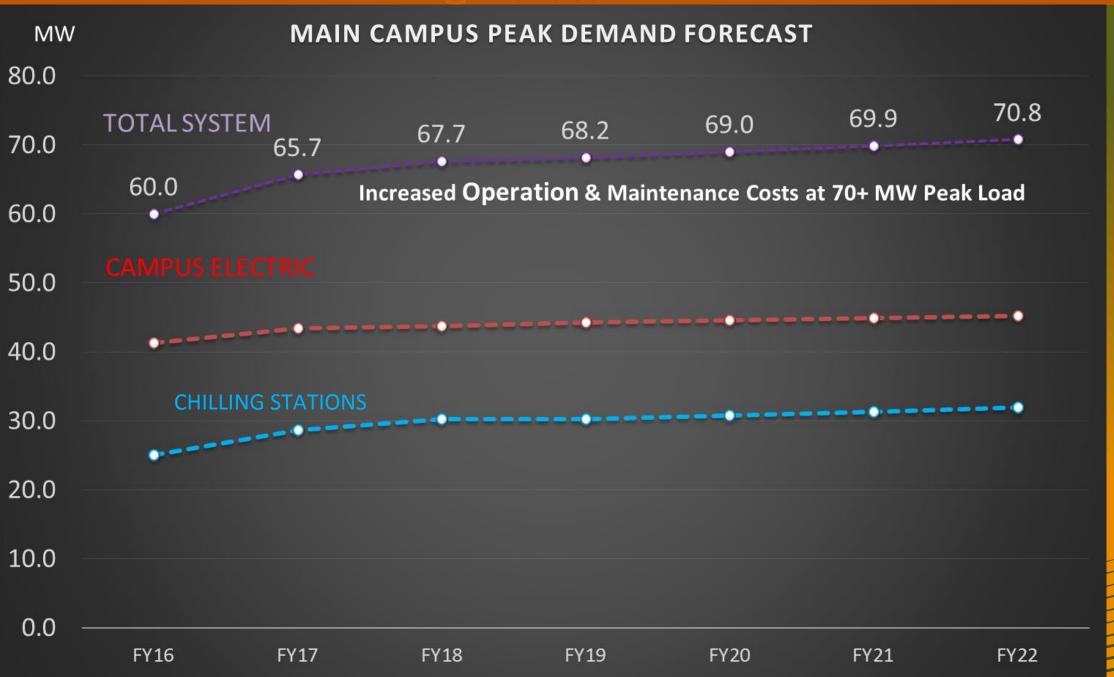
➤ Preserve and enhance the university's utility supply assets in the context of potential space growth.

• Guiding Principles:

- Comprehend unprecedented space growth currently underway.
- Minimize impact to capacity, high efficiency, long term reliability, resilience and operational costs of utility plants.
- Major capital improvements to plant and systems are not cost effective.

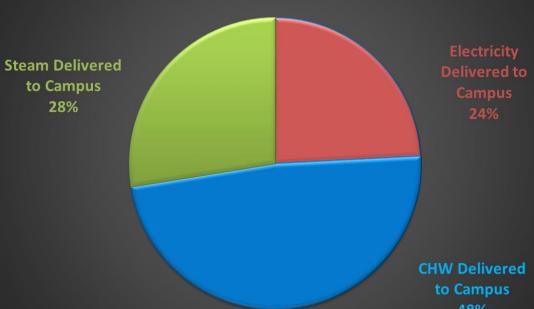






Campus

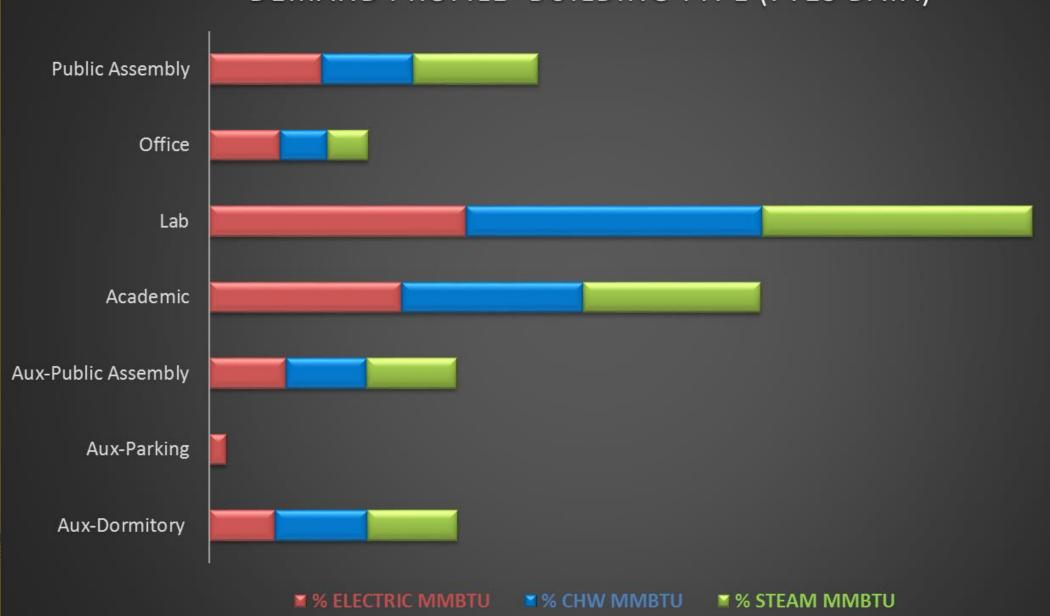


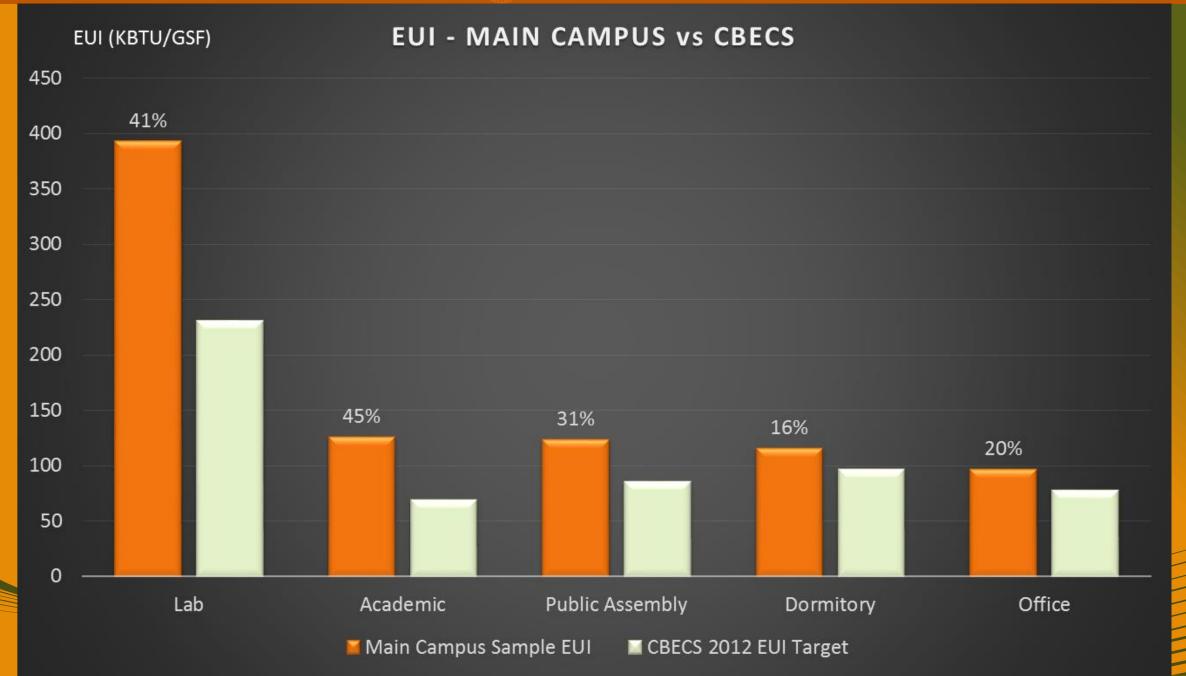


DEMAND PROFILE STANDARDIZED (FY15 DATA) 0.1400 \$0.60 \$0.52 0.1200 \$0.50 0.1000 \$0.40 0.0800 \$0.30 \$0.30 \$0.22 0.0600 0.1172 \$0.20 0.0400 0.0683 0.0498 \$0.10 0.0200 \$0.00 0.0000 Electricity Delivered to CHW Delivered to Campus Steam Delivered to

Campus







Demand Side Strategic Plan - Framework

Mission: "Utilize innovative demand side energy management strategies to offset projected campus energy growth"

Goal: Reduce the average EUI on main campus by at least 2% annually

Objectives

Strategies

Action Plan



Demand Side Strategic Plan – Goal Topic Areas

