



## Project Highlight

# West Texas A&M University



Largest Utility Consumption Reduction and Modernization Project in University History  
Leverages \$1.1 Million in Annual Energy and Water Savings

### Technology Type:

Energy Efficiency | Central Plant Upgrades | LED Lighting | Energy Infrastructure | Budget-Neutral Infrastructure Upgrades | Energy Savings Performance Contract

### Facility Size

**2.3M** square feet

### Annual CO<sub>2</sub> Reduction

**9,489** metric tons

### Energy Project Size

**\$14.4M**

### Annual Energy & Water Savings

**\$1.1M**



## Summary

West Texas A&M University sought a partnership approach with an energy service company who could evaluate and implement energy and water conservation measures which considered near and long-term strategic planning within the future vision of their Campus Master Plan. Through a partnership with Ameresco, West Texas A&M University completed a budget-neutral Campus Energy Reduction and Modernization Project that measurably reduced deferred maintenance and included capital improvements and campus renovations.



## Solution

Ameresco performed a comprehensive Investment Grade Audit of 31 campus facilities aimed at achieving the university's financial and technical goals and demonstrating their overall environmental stewardship and commitment to sustainability. Based on the university's goals, Ameresco developed 34 energy and water conservation measures, with the university selecting 28 for implementation, a sample of which is shown below:

- Comprehensive LED Lighting Retrofits
- Arena Lighting Upgrade to Meet NCAA Televised Standards
- Site Lighting Decorative Pole Replacements
- Building Automation System Upgrade
- Comprehensive Submetering of Chilled Water, Steam, and Electricity
- Bipolar Ionization for Indoor Air Quality
- Replacement of Two 30,000 Pound/Hour Water Tube Boilers
- Central Plant Optimization
- Steam Trap Replacements
- High Efficiency Domestic Water Fixture Retrofits

**As stewards to the taxpayers of the State of Texas, it is essential that we do everything in our power to keep the cost of our students' education reasonable and affordable. This project will be paid 100 percent from the energy and water savings, so additional funding is not needed. This partnership with Ameresco achieves these goals, plus it reduces our energy and water demand now, thereby benefitting the environment.**

*Randy Rikel  
West Texas A&M University  
Vice President for Business and Finance*



## Benefits

The Campus Energy Reduction and Modernization Project achieved each of the goals previously identified with the following project highlights:

- Self-funded project with guaranteed utility savings within 18 years.
- Enhanced reliability and quality of facility operations.
- Addressed major capital needs and deferred maintenance issues.
- Improved the research and learning environment for students, staff, and faculty.
- Annual carbon reduction equivalent to removing 2,050 vehicles from the road.

Ameresco's team of energy experts can assist you in identifying the solution that fits your needs.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please call **1-866-AMERESCO** or visit **ameresco.com**.

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