



Recommendation for Action

File #: 19-2938, **Agenda Item #:** 6.

9/19/2019

Posting Language

Approve issuance of a rebate to the University of Texas at Austin, for performing energy efficiency improvements at the J. J. Pickle Research Campus facility located at 10000 Burnet Road, in an amount not to exceed \$97,178.

Lead Department

Austin Energy

Fiscal Note

Funding is available in the Fiscal Year 2018-2019 Operating Budget of Austin Energy.

For More Information:

Jeff Vice, Director, Local Government Relations (512) 322-6087; Denise Kuehn, Director, Energy Efficiency Services (512) 322-6138.

Council Committee, Boards and Commission Action:

September 9, 2019 - To be reviewed by the Electric Utility Commission.

September 17, 2019 - To be reviewed by the Resource Management Commission.

Additional Backup Information:

Austin Energy requests authorization to issue a rebate to the University of Texas at Austin, in the amount of \$97,178, for energy efficiency measures at the J. J. Pickle Research Campus facility located at 10000 Burnet Road, in Council District 7. The energy efficiency measures implemented at this property include: water-cooled centrifugal chillers and variable frequency drives on condenser water pumps, chilled water pumps and cooling tower fans. The rebate will cover 0.8% of the total project cost of \$12,000,000.

These improvements are in accordance with Austin Energy's Commercial Rebate Program guidelines and the Energy Conservation Audit and Disclosure (ECAD) Ordinance. The rebate program is one element of the comprehensive Austin Energy Resource, Generation and Climate Protection Plan to realize 900 MW of energy efficiency and demand response by 2025. It is designed in part to reduce local air pollution through energy conservation, reduce peak demand, reduce the need to purchase additional generation and assist customers in reducing electric consumption.

The avoided kilowatt-hours (kWh), estimated at 771,759 kWh per year, represent a major benefit to the local environment. This project is estimated to prevent the production of the following air emissions annually: 413 metric tons of Carbon Dioxide (CO₂), 0.2 metric tons of Nitrogen Oxides (NO_x) and 0.5 metric ton of Sulfur Dioxide (SO₂). The project savings is equivalent to an estimated 927,735 vehicle miles traveled, the removal of 79 cars from our roadways, or the planting of 10,615 trees or 531 acres of forest in Austin's parks.



COMMERCIAL REBATE FACT SHEET

University of Texas at Austin

Property Name	University of Texas – J. J. Pickle Research Campus			
Customer Name	University of Texas at Austin			
Property Address	10000 Burnet Rd.			
Total Square Feet	819,660			
Year Built	1985			
Air Conditioner Total Tonnage	3,000			
Water Heater Type	Gas			
Total Project Costs	\$12,000,000			
Total Rebate – Not to Exceed	\$97,178			
% of Total Construction Costs	0.8%			
Note(s)				
The University of Texas at Austin installed the energy conservation measures listed below at their J. J. Pickle Research Campus, resulting in a rebate of \$97,177.90. The rebate will cover 0.8% of the total project cost of \$12,000,000.				
Project Annual Savings (Estimated)				
Kilowatt (kW)	321			
\$/kW	\$303			
Kilowatt-hours (kWh)	771,759			
Scope of Work				
Measure	Rebate Amount	kW Saved – Estimated	kWh Saved – Estimated	\$/kW
Variable Frequency Drives ¹	\$ 92,828	309	451,968	\$301
Water Cooled Centrifugal Chillers	\$ 4,350	12	319,791	\$372
Total	\$97,178	418	931,433	\$303
Measures Performed in last 10 years at this property	Completion Date	Rebate Amount		
None	N/A	N/A		

¹ Variable Frequency Drives (VFDs) adjust the speed of a pump or motor by varying its input frequency and voltage, thereby reducing its peak power when full speed is not required. VFDs are installed on chilled water pumps, condenser water pumps and domestic pumps.