





<div style="text-align: center;"> <div style="display: flex; justify-content: space-around; font-weight: bold; letter-spacing: 0.5em;">A U S T I N C I T Y C O U N C I L</div> <div style="background-color: #005596; color: white; padding: 5px; font-weight: bold; font-size: 1.2em; margin: 5px auto; width: 80%;">A G E N D A</div> <div style="display: flex; justify-content: space-around;">     </div> </div>				
Recommendation for Council Action				
Austin City Council		Item ID	71842	Agenda Number
Meeting Date:	6/22/2017		Department:	Austin Energy
Subject				
Approve issuance of a rebate to Texas Facilities Commission, for performing energy efficiency improvements at 1100 West 49th Street, in an amount not to exceed \$96,809. (District 9)				
Amount and Source of Funding				
Funding is available in the Fiscal Year 2016-2017 Operating Budget of Austin Energy.				
Fiscal Note				
A fiscal note is not required.				
Purchasing Language:				
Prior Council Action:				
For More Information:	Jeff Vice, Director, Local Government Issues (512) 322-6087; Denise Kuehn, Director, Energy Efficiency Services (512) 322-6138.			
Council Committee, Boards and Commission Action:	June 19, 2017 – To be reviewed by the Electric Utility Commission. June 20, 2017 – To be reviewed by the Resource Management Commission.			
MBE / WBE:				
Related Items:				
Additional Backup Information				
<p>Austin Energy requests authorization to issue a rebate to the Texas Facilities Commission, in an amount not to exceed \$96,808, for energy efficiency measures completed at the “Old Plant” facility on the Texas Department of State Health Services campus at 1100 West 49th Street, in Council District 9.</p> <p>This Department of State Health Services project includes various mechanical and electrical system renovations to its Old Plant facility. The Old Plant supplies chilled water that cools over 1.4 million square feet of offices, warehouse space, laboratories, and other facilities on the 32.8-acre campus.</p> <p>The energy efficiency measures implemented at this property include high efficiency water-cooled chillers, cooling towers, and variable frequency drives on pumps and fans. The estimated total cost of the measures is \$3,142,000; the rebate will cover 1.8% of the total cost.</p> <p>These improvements are in accordance with Austin Energy’s Commercial Rebate Program guidelines. This program is one element of the comprehensive Austin Energy Resource, Generation and Climate Protection Plan to realize 700</p>				

megawatts (MW) of energy efficiency and 200 MW of demand response by 2025. The original plan, approved by City Council in April 2010 and updated in December 2014, 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) are estimated at 695,974 kWh per year, and represent a major benefit to the local environment. This project is estimated to prevent the production of the following emissions annually: 372.5 metric tons of Carbon Dioxide (CO₂), 0.165 metric tons of Nitrogen Oxides (NO_x), and 0.418 metric tons of Sulfur Dioxide (SO₂). The project savings is equivalent to an estimated 836,634 vehicle miles traveled, the removal of 71 cars from our roadways, or the planting of 9,573 trees or 479 acres of forest in Austin's parks.



FACT SHEET: ENERGY EFFICIENCY REBATE (COMMERCIAL)

Property Name	Department of Health (Old Plant)			
Customer Name	Texas Facilities Commission			
Property Address	1100 W 49 th Street			
Total Square Feet	8,800			
Year Built	1958			
Air Conditioning Total Tonnage	1,506 tons (two 753-ton chillers)			
Water Heater Type	N/A – Central plant only			
Energy Conservation Audit and Disclosure (ECAD) Status¹	Exempt - Buildings on state property are exempt from local building codes.			
Total Measure Costs	\$3,142,000			
Total Rebate – Not to Exceed	\$ 96,809			
% of Total Measure Costs	1.8%			
Scope of Work				
High efficiency water-cooled chillers, cooling towers, variable frequency drives.				
Project Annual Savings (Estimated)				
Kilowatts (kW)	254.22			
\$/kW	\$381			
Kilowatt-hours (kWh)	695,974			
Scope of Work				
Measure	Rebate Amount	kW Saved – Estimated	kWh Saved – Estimated	\$/kW
Chillers	\$35,452	78.78	128,487	\$450
Cooling Towers	\$11,486	38.29	219,007	\$300
Variable Frequency Drives ²	\$49,871	137.15	348,480	\$364
Measures Performed - Last 10 Years at this Property			Completion Date	Rebate Amount
Lighting Controls			05/06/2010	\$5,908
High Efficiency Motors			01/29/2010	\$50
High Efficiency Motors			07/23/2009	\$270

¹ Exempt - Buildings built on state property are exempt from local building codes (General Services Administration; 1.3 Codes and Standards; <https://www.gsa.gov/portal/content/101288>).

² 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.