

Council Meeting Date: June 14, 2018**Posting Language**

Approve issuance of a rebate to Oracle, for performing energy efficiency improvements at its facility located at 2401 South Lakeshore Blvd., in an amount not to exceed \$240,503. (District 3)

Fiscal Note

Funding in the amount of \$240,503 is available in the Fiscal Year 2017-2018 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:

To be reviewed by the Resource Management Commission on May 15, 2018 and by the Electric Utility Commission on May 21, 2018.

Additional Backup Information:

Austin Energy requests authorization to issue a rebate to Oracle, in an amount not to exceed \$240,503 for energy efficiency measures at its new construction facility, Project Waterfront, located at 2401 South Lakeshore Blvd., in Council District 3. The energy efficiency measures implemented at Project Waterfront include: water cooled chillers, cooling towers, high efficiency lighting, transformers, variable frequency drives, electronically commutated motors, custom technology (chilled beams), and uninterruptable power supplies.

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 2027. 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 3,774,463 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: 2,020 metric tons of Carbon Dioxide (CO₂), 0.9 metric tons of Nitrogen Oxides (NO_x), and 2.3 metric tons of Sulfur Dioxide (SO₂). The project savings is equivalent to an estimated 4,537,302 vehicle miles traveled, the removal of 387 cars from our roadways, or the planting of 51,917 trees or 2,596 acres of forest in Austin's parks.



COMMERCIAL REBATE FACT SHEET

Oracle - Project Waterfront

Property Name	Project Waterfront
Customer Name	Oracle
Property Address	2401 South Lakeshore Blvd.
Total Square Feet	550,000
Year Built	2017
Air Conditioner Tonnage	1500
Water Heater Type	N/A
Energy Conservation Audit and Disclosure (ECAD) Status[1]	Exempt - New Construction

Total Rebate – Not to Exceed	\$240,503
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Note(s)
 Oracle's new Austin Campus on Lakeshore Blvd. invested in multiple energy efficiency measures resulting in a rebate of \$240,503.

Project Annual Savings (Estimated)	
Kilowatt (kW)	1089
\$/kW	\$220.82
Kilowatt-hours (kWh)	3,774,463

Scope of Work				
Measure	Rebate Amount	kW Saved – Estimated	kWh Saved – Estimated	\$/kW
Water Cooled Chillers	\$26,460.76	71	200,343	\$371.90
Cooling Towers	\$6,695.59	27	88,909	\$247.93
High Efficiency Lighting	\$30,320.50	311	1,682,701	\$97.36
Transformers	\$1,839.29	9	61,825	\$208.30
Variable Frequency Drives[2]	\$41,847.18	139	211,585	\$300.52
Electronically Commutated Motors[3]	\$4,177.32	18	50,075	\$238.43
Custom Technology (Chilled Beams)	\$128,670.50	512	1,461,954	\$251.52
Uninterruptable Power Supplies	\$491.45	2	17,071	\$208.24
Total	\$240,502.59	1,089	3,774,463	\$220.82

Measures Performed - Last 10 Years at this Property	Completion Date	Rebate Amount
N/A - New Construction		

[1] Owner agrees to comply with TITLE 6. ENVIRONMENTAL CONTROL AND CONSERVATION. CHAPTER 6-7. ENERGY CONSERVATION code (ECAD Ordinance) prior to the issuance of the rebate payment. Since this is a new construction property, benchmark energy usage is not required for the ECAD Ordinance until construction is complete and 12 months of utility data has been collected.

[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.

[3] Electronically Commutated Motors (ECM) are motors controlled by a microprocessor to modulate the speed (RPM) based on a control variable. This allows for lower input power thus resulting in peak demand savings.