Council Date: August 9, 2018

Posting Language
Approve issuance of a rebate to Fairmont Austin, for performing energy efficiency improvements at its Fairmont Hotel Austin located at 101 Red River Street, in an amount not to exceed $206,014. (District 9)

Fiscal Note
Funding 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.

Boards and Commission Action:
To be reviewed by the Electric Utility Commission on July 16, 2018 and by the Resource Management Commission on July 17, 2018.

Additional Backup Information:
Austin Energy requests authorization to issue a rebate to Fairmont Austin, in an amount not to exceed $206,014, for energy efficiency measures at the Fairmont Hotel Austin, located at 101 Red River Street in Council District 9.

The energy efficiency measures at the Fairmont Hotel Austin include: heating, ventilation and air conditioning (HVAC) CO2 controls; regenerative elevators; guest room thermostat controls; high efficiency lighting; variable frequency drives to control air handler motors; and variable frequency drives to control chilled water pump motors.

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 2,983,855 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: 1,597 metric tons of Carbon Dioxide (CO2), 0.7 metric tons of Nitrogen Oxides (NOX), and 1.8 metric tons of Sulfur Dioxide (SO2). The project savings is equivalent to an estimated 3,586,907 vehicle miles traveled, the removal of 306 cars from our roadways, or the planting of 41,042 trees or 2,052 acres of forest in Austin's parks.

Item 4a

COMMERCIAL REBATE FACT SHEET

Fairmont Hotel Austin

Property Name	Fairmont Hotel Austin
Customer Name	Fairmont Austin
Property Address	101 Red River Street
Total Square Feet	1,156,135
Year Built	2018
Air Conditioner Tonnage	3303
Water Heater Type	Natural Gas
Energy Conservation Audit and Disclosure (ECAD) Status [1]	Exempt - New Construction
Total Rebate – Not to Exceed	$206,014
Note(s)	
Fairmont Hotel Austin installed various energy efficiency measures resulting in a rebate of $240,503 which represents 0.14% of the total construction cost of the building.	
Project Annual Savings (Estimated)	
Kilowatt (kW)	1069
$/kW	$192.68
Kilowatt-hours (kWh)	2,983,855

Scope of Work

Measure	Rebate Amount	kW Saved Estimated	kWh Saved Estimated	$/kW
Custom Tech - OAHU CO2 control [2]	$14,101.50	49	139,323	$289.26
Custom Tech - Elevators [3]	$54,512.50	247	294,663	$220.75
Guest Room Controllers [4]	$52,400.00	95	180,307	$550.94
Lighting (New Construction)	$47,341.00	553	2,107,576	$85.59
VFD - Air Volume [5]	$9,672.00	32	85,434	$300.56
VFD - Water Pump [6]	$27,986.50	93	176,552	$300.54
Total	$206,013.50	1,069	2,983,855	$192.68

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 (ECAD Ordinance) prior to the issuance of the rebate payment. This is a new construction property therefore, benchmark energy usage is not required until construction is complete and 12 months of utility data has been collected.
[2] CO2 sensors allow outside air handler units (OAHU) to vary the amount of outside air to be cooled, reducing load on HVAC equipment and reducing energy consumption.
[3] Regenerative elevators generate power when descending.
[4] Guest room controllers adjust thermostat settings to save money when rooms are unoccupied.
[5] Variable frequency drives (VFDs) control air handler motors.
[6] VFDs control chilled water pump motors.