

RECOMMENDATION FOR COUNCIL ACTION**Council Date:**

May 10, 2018

Posting Language

Approve issuance of a rebate to Data Foundry, Inc., for performing energy efficiency improvements at its new facility located at 4100 Smith School Road, in an amount not to exceed \$98,714.

(District 2)

Fiscal Note

Funding in the amount of \$98,714 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 Electric Utility Commission on April 16, 2018 and by the Resource Management Commission on April 17, 2018.

Additional Backup Information:

Austin Energy requests authorization to issue a rebate to Data Foundry, Inc., in an amount not to exceed \$98,714 for energy efficiency measures at its new Texas 2 facility at 4100 Smith School Road, in Council District 2. The energy efficiency measures at Texas 2 include: air conditioning (package units), air cooled chillers, high efficiency lighting, transformers, variable frequency drives, electronically commutated motors and uninterruptible power supply. The estimated total cost of these measures is \$39,606,578. The rebate will cover 0.25% of the total cost.

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 Austin Energy's comprehensive 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 2,321,832 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: 1,243 metric tons of Carbon Dioxide (CO₂), 0.6 metric tons of Nitrogen Oxides (NO_x), and 1.4 metric tons of Sulfur Dioxide (SO₂). The project savings is equivalent to an estimated 2,791,086 vehicle miles traveled, the removal of 238 cars from our roadways, or the planting of 31,936 trees or 1,597 acres of forest in Austin's parks.



COMMERCIAL REBATE FACT SHEET

Data Foundry, Inc. – Texas 2

Property Name	Texas 2			
Customer Name	Data Foundry, Inc.			
Property Address	4100 Smith School Road			
Total Square Feet	153,764			
Year Built	2017			
Air Conditioner Tonnage	440			
Water Heater Type	N/A			
Energy Conservation Audit and Disclosure (ECAD) Status[1]	Exempt – New Construction			
Total Measure Costs				
	\$39,606,578			
Total Rebate – Not to Exceed				
	\$98,714			
% of Total Measure Costs				
	0.25%			
Note(s)				
Data Foundry built a new Data Center, Texas 2, which was constructed at a cost of \$39,606,578. The total rebate for all eligible equipment is not to exceed \$98,714 which is 0.25% of the total project cost.				
Project Annual Savings (Estimated)				
Kilowatt (kW)	433			
\$/kW	\$227.96			
Kilowatt-hours (kWh)	2,321,832			
Scope of Work				
Measure	Rebate Amount	Estimated kW Saved	Estimated kWh Saved	\$/kW
Air Conditioning (Package Units)	\$20,146.27	44	579,153	\$454.55
Air Cooled Chillers	\$27,200.14	110	508,685	\$247.93
High Efficiency Lighting	\$8,765.88	99	301,362	\$88.25
Transformers	\$80.50	0	4,551	\$221.76
Variable Frequency Drives[2]	\$5,096.17	17	25,767	\$300.53
Electronically Commutated Motors[3]	\$20,930.00	83	292,666	\$251.53
Uninterruptible Power Supply	\$16,494.93	79	609,649	\$208.42
Total	\$98,713.89	433	2,321,832	\$227.96
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 (ECMs) 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.