

**CITY OF AUSTIN – AUSTIN ENERGY
RECOMMENDATION FOR COUNCIL ACTION**

AGENDA DATE: 9/17/2015

SUBJECT: Approve issuance of a rebate to Austin 18 Hotel, LLC, for the installation of energy efficiency measures at 110 East 2nd Street, in an amount not to exceed \$198,487.

AMOUNT & SOURCE OF FUNDING: Funding is available in the Fiscal Year 2014-2015 Operating Budget of Austin Energy.

FISCAL NOTE: There is no unanticipated fiscal impact. A fiscal note is not required.

FOR MORE INFORMATION CONTACT: Jeff Vice, Director, Local Government Issues (512) 322-6450; Denise Kuehn, Director, Energy Efficiency Services (512) 322-6138.

BOARD AND COMMISSION ACTION: August 17, 2015 - To be reviewed by the Electric Utility Commission. August 18, 2015 - To be reviewed by the Resource Management Commission.

Austin Energy requests authorization to issue a rebate to Austin 18 Hotel, LLC, in an amount not to exceed \$198,487, for energy efficiency measures installed at its JW Marriott Convention Center Hotel. This new development is located at 110 East 2nd Street, Austin, Texas, 78701, in Council District 9.

The JW Marriot Convention Center Hotel is a 34-story, 570,000 square foot hotel with 1,012 guest rooms and a three-level underground parking garage. The energy efficiency measures installed include high efficiency interior lighting, exterior lighting, guest room controllers, variable frequency drives on air handlers, exhaust fans, and chilled water pumps, and regenerative elevators. The estimated total cost of installing the measures is \$1,608,878, and the rebate will cover approximately 12% of the total cost. The demand savings associated with this energy efficiency project are estimated at 635 kilowatts (kW) at a program cost of \$313 per kW saved.

These improvements are in accordance with the Austin Energy's Commercial Rebate Program guidelines. This program is one of the elements of Austin Energy's comprehensive Resource, Generation and Climate Protection Plan to realize 700 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) estimated at 2,975,238 kWh per year represents a major benefit to the local environment. This project will prevent the following air pollutants from being emitted: 1,786.5 metric tons of Carbon Dioxide (CO₂), 1,126 metric tons of Sulfur Dioxide (SO₂) and 1,245 metric tons of Nitrogen Oxides (NO_x). The project savings are equivalent to an estimated 4,011,164 vehicle miles traveled, the removal of 342 cars from our roadways, the planting of 45,897 trees or 2,295 acres of forest in Austin's parks.

PROJECT FACT SHEET – JW Marriott Convention Center Hotel

Property Name	JW Marriott Convention Center		
Customer Name	Austin 18 Hotel, LLC		
Property Address	110 East 2 nd Street		
Customer Contact	Mathew Tuckness		
ECAD Status New Construction - Exempt		Total Measure Costs	\$1,608,878
		Total Rebate – Not to Exceed	\$198,487
		% of Total Measure Costs	12%

SCOPE OF WORK					
Measure	Rebate Amount	kW Saved - Estimated	kWh Saved - Estimated	Measure Cost	\$/kW
NC Interior Lighting	\$17,231	134	1,167,234	\$499,449	\$129
NC Exterior Lighting	\$359	4	14,747	\$25,642	\$98
NC VFDs	\$91,257	193	602,296	\$592,577	\$473
Guest Room Controllers	\$52,100	197	1,122,547	\$104,200	\$265
Elevators	\$37,540	107	68,415	\$387,010	\$350
Totals	\$198,487	635	2,975,238	1,608,878	\$313

Previous Measures Performed in last 10 Years	Completion Date	Rebate Amount
None – New Construction	N/A	N/A

AE Commercial Energy Efficiency Program for FY2015 (as of July 2015)							
Program	kW Savings Goal	YTD kW Savings	% of Goal	Budget	YTD Dollars Spent	YTD Participation	\$/kW
Commercial Rebates	12,150	4,932	40.6%	\$3,500,000	\$1,525,566	254	\$309.32

AGENDA



Recommendation for Council Action

Austin City Council	Item ID	48079	Agenda Number	
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Meeting Date:	8/20/2015	Department:	Austin Energy
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Subject

Approve issuance of a rebate to Brandywine Operating Partnership, L.P., for the installation of energy efficiency measures at 5707 Southwest Parkway, in an amount not to exceed \$130,828.

Amount and Source of Funding

Funding is available in the Fiscal Year 2014-2015 Operating Budget of Austin Energy.

Fiscal Note

There is no unanticipated fiscal impact. A fiscal note is not required.

Purchasing Language:

Prior Council Action:

For More Information: Jeff Vice, Director, Local Government Issues (512) 322-6450; Denise Kuehn, Director, Energy Efficiency Services (512) 322-6138.

Council Committee, Boards and Commission Action: August 17, 2015 - To be reviewed by the Electric Utility Commission. August 18, 2015 - To be reviewed by the Resource Management Commission.

MBE / WBE:

Related Items:

Additional Backup Information

Austin Energy requests authorization to issue a rebate to Brandywine Operating Partnership, L.P., in an amount not to exceed \$130,828, for energy efficiency measures installed at its Encino Trace Office Park, Buildings 1 & 2. This new development is located at 5707 Southwest Parkway, Austin, Texas 78735, in Council District 8.

Encino Trace Buildings 1 & 2 are four-story buildings with over 322,000 square feet of office space. The energy efficiency measures installed include packaged air-conditioning units, cooling towers, variable frequency drives, transformers and interior lighting. The estimated total cost of installing the measures is \$1,079,636 and the rebate will cover approximately 12% of the total cost. The demand savings associated with this energy efficiency project are estimated at 311 kilowatts (kW) at a program cost of \$421 per kW saved.

These improvements are in accordance with the Austin Energy’s Commercial Rebate Program guidelines. This program is one of the elements of Austin Energy’s comprehensive Resource, Generation and Climate Protection Plan to realize 700 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, reducing peak demand, reducing the need to purchase additional generation and assisting customers in reducing electric consumption.

The avoided kilowatt hours (kWh) estimated at 563,423 kWh per year represents a major benefit to the local environment. This project will prevent the following air pollutants from being emitted: 338.3 metric tons of Carbon Dioxide (CO₂), 0.213 metric tons of Sulfur Dioxide (SO₂) and 0.236 metric tons of Nitrogen Oxides (NO_x). The project savings are equivalent to an estimated 759,597 vehicle miles traveled, the removal of 65 cars from our roadways, the planting of 8,691 trees or 435 acres of forest in Austin's parks.

PROJECT FACT SHEET – BRANDYWINE / ENCINO TRACE OFFICE BLDGS. 1 & 2

Property Name	Encino Trace Office Bldgs 1 & 2		
Customer Name	Brandywine		
Property Address	5707 Southwest Parkway		
Customer Contact	Mike Boyd		
ECAD Status New Construction - Exempt		Total Measure Costs	\$1,079,636
		Total Rebate – Not to Exceed	\$130,828
		% of Total Measure Costs	12%

SCOPE OF WORK					
Measure	Rebate Amount	kW Saved - Estimated	kWh Saved - Estimated	Measure Cost	Rebate per kW
NC ACDX	\$ 74,722	109	148,327	\$ 52,000	688
NC Cooling Tower	\$ 34,020	109	148,568	\$ 315,994	313
NC VFDs	\$ 12,335	27	84,666	\$ 99,308	455
NC XFMRs	\$ 1,632	5	7,357	\$ 36,000	303
NC Lighting - Shell & Office	\$ 8,119	61	174,505	\$ 576,334	133
Totals	\$ 130,828	311	563,423	\$ 1,079,636	421

Previous Measures Performed in last 10 Years	Completion Date	Rebate Amount
None – New Construction	N/A	N/A

AE Commercial Energy Efficiency Program for FY2015 (as of July 2015)							
Program	kW Savings Goal	YTD kW Savings	% of Goal	Budget	YTD Dollars Spent	YTD Participation	\$/kW
Commercial Rebates	12,150	4,932	40.6%	\$3,500,000	\$1,525,566	254	\$309.32

**CITY OF AUSTIN – AUSTIN ENERGY
RECOMMENDATION FOR COUNCIL ACTION**

AGENDA DATE: 9/17/2015

SUBJECT: Approve issuance of a rebate to Home Depot U.S.A., Inc., for the installation of energy efficiency measures at 1300 Park Center Drive, in an amount not to exceed \$197,259.

AMOUNT & SOURCE OF FUNDING: Funding is available in the Fiscal Year 2014-2015 Operating Budget of Austin Energy.

FISCAL NOTE: There is no unanticipated fiscal impact. A fiscal note is not required.

FOR MORE INFORMATION CONTACT: Jeff Vice, Director, Local Government Issues (512) 322-6450; Denise Kuehn, Director, Energy Efficiency Services (512) 322-6138.

BOARD AND COMMISSION ACTION: August 17, 2015- To be reviewed by the Electric Utility Commission. August 18, 2015 – To be reviewed by the Resource Management Commission.

Austin Energy requests authorization to issue a rebate to Home Depot U.S.A., Inc., in an amount not to exceed \$197,259, for energy efficiency measures installed at its Data Center facility located at 1300 Park Center Drive, Austin, Texas, 78753, in Council District 4.

The Home Depot Data Center is a single-story data center and office building with over 158,000 square feet of space. The energy efficiency measures installed include the conversion and upgrade from air-cooled direct expansion air conditioning to water cooled chillers and cooling towers, and installation of variable frequency drives to existing air handlers, cooling tower fans, and pumps. The estimated total cost of installing the measures is \$1,370,619 and the rebate will cover approximately 14% of the total cost. The demand savings associated with this energy efficiency project are estimated at 609 kilowatts (kW) at a program cost of \$324 per kW saved.

These improvements are in accordance with the Austin Energy's Commercial Rebate Program guidelines. This program is one of the elements of Austin Energy's comprehensive Resource, Generation and Climate Protection Plan to realize 700 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) estimated at 2,183,265 kWh per year represents a major benefit to the local environment. This project will prevent the following air pollutants from being emitted: 1,311 metric tons of Carbon Dioxide (CO₂), 0.826 metric tons of Sulfur Dioxide (SO₂) and 0.914 metric tons of Nitrogen Oxides (NO_x). The project savings are equivalent to an estimated 2,943,440 vehicle miles traveled, the removal of 251 cars from our roadways, the planting of 33,679 trees or 1,684 acres of forest in Austin's parks.

PROJECT FACT SHEET – Home Depot Data Center

Property Name	Home Depot Data Center		
Customer Name	Home Depot		
Property Address	1300 Park Center Drive		
Customer Contact	Terry Snowden		
ECAD Status Retrofit – In Compliance	Total Measure Costs	\$1,370,619	
	Total Rebate – Not to Exceed	\$197,259	
	% of Total Measure Costs	14%	

SCOPE OF WORK					
Measure	Rebate Amount	kW Saved - Estimated	kWh Saved - Estimated	Measure Cost	\$/kW
Custom DX to Chiller	\$132,652	442	1,673,182	\$787,220	\$300
Cooling Tower	\$4,162	17	40,534	\$500,242	\$250
VFDs	\$60,446	150	469,549	\$83,157	\$402
Totals	\$197,259	609	2,183,265	\$1,370,619	\$324

Previous Measures Performed in last 10 Years	Completion Date	Rebate Amount
Lighting and Lighting Controls	1/2012	\$9,060
Roofing Insulation	2/2012	\$17,955
Air Conditioning Replacement	9/2012	\$8,207

AE Commercial Energy Efficiency Program for FY2015 (as of July 2015)							
Program	kW Savings Goal	YTD kW Savings	% of Goal	Budget	YTD Dollars Spent	YTD Participation	\$/kW
Commercial Rebates	12,150	4,932	40.6%	\$3,500,000	\$1,525,566	254	\$309.32

**CITY OF AUSTIN – AUSTIN ENERGY
RECOMMENDATION FOR COUNCIL ACTION**

AGENDA DATE: 9/17/2015

SUBJECT: Approve issuance of a rebate to Samsung Austin Semiconductor, LLC, for the installation of energy efficiency measures at 12100 Samsung Blvd., in an amount not to exceed \$104,028.

AMOUNT & SOURCE OF FUNDING: Funding is available in the Fiscal Year 2014-2015 Operating Budget of Austin Energy.

FISCAL NOTE: There is no unanticipated fiscal impact. A fiscal note is not required.

FOR MORE INFORMATION CONTACT: Jeff Vice, Director, Local Government Issues (512) 322-6450; Denise Kuehn, Director, Energy Efficiency Services (512) 322-6138.

BOARD AND COMMISSION ACTION: August 17, 2015- To be reviewed by the Electric Utility Commission. August 18, 2015 – To be reviewed by the Resource Management Commission.

Austin Energy requests authorization to issue a rebate to Samsung Austin Semiconductor, LLC, in an amount not to exceed \$104,028, for energy efficiency measures installed at its Samsung Semiconductor Complex. This facility is located at 12100 Samsung Blvd, Austin, Texas, 78754, in Council District 1.

The Samsung campus is a 2.3 million square foot semiconductor complex. The energy efficiency measures installed include high efficiency centrifugal water-cooled chillers and variable frequency drives on chilled water pumps. The estimated total cost of installing the measures is \$1,147,083 and the rebate will cover approximately 9% of the total cost. The demand savings associated with this energy efficiency project are estimated at 224 kilowatts (kW) at a program cost of \$464 per kW saved.

These improvements are in accordance with the Austin Energy's Commercial Rebate Program guidelines. This program is one of the elements of Austin Energy's comprehensive Resource, Generation and Climate Protection Plan to realize 700 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) estimated at 925,220 kWh per year represents a major benefit to the local environment. This project will prevent the following air pollutants from being emitted: 555.6 metric tons of Carbon Dioxide (CO₂), 0.350 metric tons of Sulfur Dioxide (SO₂) and 0.387 metric tons of Nitrogen Oxides (NO_x). The project savings are equivalent to an estimated 1,247,366 vehicle miles traveled, the removal of 106 cars from our roadways, the planting of 14,273 trees or 714 acres of forest in Austin's parks.

PROJECT FACT SHEET – Samsung

Property Name	Samsung		
Customer Name	Samsung Austin Semiconductor, LLC		
Property Address	12100 Samsung Blvd.		
Customer Contact	Bruce Honnol		
ECAD Status Retrofit – N/A - Manufacturing		Total Measure Costs	\$1,147,083
		Total Rebate – Not to Exceed	\$104,028
		% of Total Measure Costs	9%

SCOPE OF WORK					
Measure	Rebate Amount	kW Saved - Estimated	kWh Saved - Estimated	Measure Cost	Rebate per kW
Chillers	\$39,270	46	369,600	\$950,847	\$850.00
VFDs	\$64,758	178	555,620	\$196,236	\$363.64
Totals	\$104,028	224	925,220	\$1,147,083	\$463.82

Previous Measures Performed in last 10 Years	Completion Date	Rebate Amount
Chillers, UPS, DSC, Cooling Towers, Motors, VFDs	2/10/2011	\$200,000
Chillers, VFDs, Cooling Tower, UPS, CUS, Motors, Transformers	7/6/2012	\$133,105
Lighting, UPS Retrofit	5/9/2013	\$ 77,464
VFDs, UPS	9/30/2014	\$ 46,378
Lighting, Off-Peak Lighting	1/15/2015	\$ 4,515

AE Commercial Energy Efficiency Program for FY2015 (as of July 2015)							
Program	kW Savings Goal	YTD kW Savings	% of Goal	Budget	YTD Dollars Spent	YTD Participation	\$/kW
Commercial Rebates	12,150	4,932	40.6%	\$3,500,000	\$1,525,566	254	\$309

AGENDA



Recommendation for Council Action

Austin City Council	Item ID		Agenda Number	
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Meeting Date:	9/17/2015	Department:	Austin Energy
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Subject

Authorize negotiation and execution of a 12-month interlocal agreement with THE UNIVERSITY OF TEXAS on behalf of the Clean Energy Incubator, a program of the Austin Technology Incubator, for mutual assistance in the clean energy field, in an amount not to exceed \$195,000.

Amount and Source of Funding

Funding is included in the Proposed Fiscal Year 2015-2016 Operating Budget of Austin Energy.

Fiscal Note

There is no unanticipated fiscal impact. A fiscal note is not required.

Purchasing Language:

Prior Council Action:

For More Information: Jeff Vice, Director, Local Government Issues (512) 322-6087; Karl Popham, Manager, Electric Vehicles & Emerging Technologies (512) 322-6005.

Boards and Commission Action: August 17, 2015 - To be reviewed by the Electric Utility Commission. August 18, 2015 – To be reviewed by the Resource Management Commission.

MBE / WBE:

Related Items:

Additional Backup Information

The Clean Energy Incubator (CEI) is a program of the Austin Technology Incubator at The University of Texas at Austin that is well situated to help Austin Energy achieve its clean energy “Strategic Goals” and to assist Austin Energy in formulating a strategy to move Austin forward towards becoming the nation’s clean energy capital. Austin Energy intends to assist the CEI in its mutually-beneficial clean energy goals by providing financial support to quantify and track clean tech economic impact, support energy leadership via a fellowship program, increase CEI value to its member companies, and to help expand the role of Austin as the global headquarters of choice for clean energy thought leadership & investment.

This will be the sixth agreement between the CEI and Austin Energy, with the original agreement dating back to Fiscal Year 2008. Austin Energy and the City of Austin receive direct assistance from the CEI in the development of local companies in the clean energy space and the identification of candidates for beta testing and pilot projects within the emerging technology space. In addition, CEI is a leading voice in the community discussion around clean technologies, as evidenced by their being a partner with Austin Energy in Texas’ premier clean energy venture funding event—currently a featured element in South By Southwest Eco. This Startup Showcase is an event which brings together promising early stage companies in the clean energy space with potential funders from the financial

community. Between 2010 and 2014, the CEI has created over 500 new jobs, graduated 24 companies which had a local economic impact of \$70M, successfully relocated seven other companies to Austin, and helped raise \$200M in funding for clean energy companies.