Recommendation for Council Action

Austin City Council	**Item ID**	9754	**Agenda Number**	<ITEM_OUTLINE>
Meeting Date:	10/6/2011	**Department:**	Austin Energy	

Subject

Approve issuance of a rebate to Dell Computers, Inc. for the installation of energy efficient equipment in an amount not to exceed $122,403.

Amount and Source of Funding

Funding is available in the Fiscal Year 2011-2012 Operating Budget of Austin Energy, Conservation Rebates and Incentive Fund.

Fiscal Note

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

Purchasing Language:	
Prior Council Action:	
For More Information:	Fred Yebra, P.E., Director, Energy Efficiency Services 482-5305; Scott Jarman, Engineering Supervisor 482-5307.
Boards and Commission Action:	To be reviewed by the Electric Utility Commission on September 19, 2011 and by the Resource Management Commission on September 20, 2011.
MBE / WBE:	
Related Items:	

Additional Backup Information

Austin Energy requests authorization to issue a rebate to Dell Computers, Inc. in the amount of $122,402.63 for Server Virtualization in accordance with the City of Austin's Commercial Rebate Program, Data Center Efficiency guidelines.

Server virtualization is the partitioning of a physical server into smaller virtual servers. In server virtualization the resources of the server itself are hidden, or masked, from users, and software is used to divide the physical server into multiple virtual environments, called virtual or private servers.

Server virtualization has several benefits. For example, it lets each virtual server run its own operating system and each virtual server can also be independently rebooted of one another. Server virtualization also reduces costs. It requires less hardware, less maintenance and it reduces the air conditioning load.

On this project, Dell Computers is removing 550 servers reducing their 601 baseline servers down to 51 "virtual"

servers resulting in substantial kilowatt and kilowatt hour savings.

This program is one element of Austin Energy's comprehensive Energy Resource Plan, approved in December 2003 by City Council, designed to reduce local air pollution through energy conservation, to reduce peak demand, and to assist customers in reducing electric consumption.

Dell Computers, Inc. is located at 1404 Park Center Drive in Austin, Texas. The demand (kW) savings associated with the high efficiency equipment installed in this project is estimated at 284.9 kW, at a program cost of $429.61 per kilowatt saved. The avoided kWh, estimated at 2,495,856 kWh per year, represents a major benefit to the local environment. This project will prevent the following air pollutants from being emitted: 1,498.7 metric tons of Carbon Dioxide (CO2), .945 metric tons of Sulfur Dioxide (SO2), and 1.045 metric tons of Nitrogen Oxides (NOX).

In addition to the reduced air and toxic metals pollution, the project savings are also equivalent to an estimated 3,364,870 vehicle miles traveled, the removal of 287.1 cars from our roadways, or the planting of 38,502 trees or 1,925 acres of forest in Austin's parks.