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GREEN POWER



The Town of Glastonbury



INTRODUCTION

By enabling the power management – or sleep mode – on computers and monitors, organizations will help reduce the growing demand for electricity and save money while fighting climate change.

The focus of this bulletin will be on the Town's implementation of power management.

POWER MANAGEMENT FOR COMPUTERS AND MONITORS

Saving money and energy with Town computers could be considered an oxymoron but, in fact, with the help of the Environmental Protection Agency (EPA), that is exactly what Glastonbury Information Technology (IT) is attempting to do. In 2001, when Windows XP was introduced to the market, Microsoft added some features for power management that allowed computers to be put into a sleep or hibernate mode when not being used. The settings really didn't work well in an enterprise environment, because the power settings could not be controlled centrally by a management server. The IT community quickly established procedures to turn off all such features.

Skip forward to 2005 and the aftermath of Hurricane Katrina. The United States found itself in the midst of a new energy crisis, and a number of government agencies began working on ways to cut energy costs. One of those agencies was the EPA. The EPA realized that if software tools could be created that would allow IT management to control the available power settings on computers, then significant energy savings could be realized by putting idle computers to sleep.



Glastonbury IT became aware of the EPA initiative in 2007 with the introduction of EZGPO (*shown here*), which was available free of charge to anyone who wanted it. Although the product was not perfect, and more than eight months of testing and tweaking were involved, the product was finally installed and initially rolled out to about 60% of the Town's departments. The following table shows the potential savings the Town has calculated by configuring workstations in its departments to use the power management features.



	Annual kWh Savings	Annual \$ Savings
Total savings from ENERGY STAR-qualified monitors and computers	64,613.9	9,045.94
Screen sleep mode savings:		
• From monitors	47,669.3	6,673.71
• From notebook displays	—	0.00
Total sleep mode savings	47,669.3	6,673.71
System standby/hibernate mode savings:		
• From desktops	49,718.6	6,960.61
• From notebooks	—	0.00
Total system standby/hibernate mode savings	49,718.6	6,690.61
Total savings from sleep and standby/hibernate modes	97,387.9	13,364.32

Glastonbury IT continued to refine the system and evaluate which departments could successfully deploy the power management settings. There are a number of departmental software applications that the Town and, in fact, many municipalities use that were unable to recover from a sleep situation. Glastonbury IT worked with several of these vendors to modify these systems to allow sleep mode to be used, thus increasing the percentage of systems that can take advantage of the higher energy savings. Glastonbury IT completed the rollout to 100% of Town workstations this year.

FOR MORE INFORMATION

For more information on the EPA’s EZGPO software, please visit the Power Management Page of the Energy Star site at:

http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_management

For additional information on related topics, please see the following Glastonbury Goes Green Bulletins:

- ☞ [Server Virtualization](#)
- ☞ [Duplex Printing](#)

GLASTONBURY’S GREEN INITIATIVES PROGRAM

Glastonbury’s Green Initiatives program operates under the direction of the Town Manager. The committee is chaired by the Purchasing Agent and the Superintendent of Sanitation. Committee members from across Town departments participate and contribute ideas and suggestions committed to a “greener” community.

The committee assembles information about products and services and makes the information available to specific departments that can evaluate them and develop applications in Town projects with the approval of the Town Manager.

These “Go-Green” bulletins contain information about the results of product evaluations and other accomplishments of Town departments. We hope this information can provide you insight to the Town’s green initiatives and also lead others in the community to find ways to use environmentally preferable products. Please contact us if we can help you with further information or if you have additional suggestions. ■

