Monitor Power Management

ENERGY SAVING - FACT SHEET

Save Money and Energy Using "Sleep" Modes on Computer Monitors

Significantly reducing your energy bill can be as simple as enabling monitor power management on your computers. Power management allows monitors to enter a low-power mode during periods of inactivity. In a typical office setting, a computer monitor costs \$34 annually to operate. A monitor with power management enabled, that is also turned off at night and on weekends, can cost as little as \$7 in annual operating costs¹.

Activating "Sleep" Mode

USING EXISTING PC SETTING

On most personal computers using MS Windows, the monitor's power management can be set through the *control panel* in the Start menu. Go to *Display, Screen Saver* and *Power* to set the time to 'power-down' mode for the monitor.

USING ENERGY STAR WIZARDS

ENERGY STAR offers two free downloads to help you achieve those savings: EZ Wizard, which enables power management on individual workstations, and EZ Save, which allows system administrators to enable power management on all the monitors on a network from one central location. These programs function by using existing power settings on Windows 95, 98, ME, 2000 and XP.

Successes in Power Management

ECU Issues Campus Policy

In 2002, Information Technology and Computing Services (ITCS) at East Carolina University issued a campus policy recommending that users completely shut down university computer systems, including monitors and peripherals, every night and enable the "power management" features on university computers while in use. Although it is difficult to measure specific cost savings from such efforts, the university estimates that turning off computers every night and utilizing "power management" features should result in estimated savings of \$156,000 in annual electricity expense excluding air conditioning costs). For more information. see http://www.ecu.edu/facility_serv/energy/energytips.htm

PM is UNC-CH's Standard Business

Ninety to 94 percent of new students purchase their required laptops through the university. UNC's Information Technologies Service (ITS) makes sure these systems are configured to have the monitor enter sleep mode after five minutes. Hard drive and processors are also set to power down. "This is just the way it should be done," states Linwood Futrelle, director of planning for Information Technology Services. More than 260 public computer lab stations were enabled to utilize strict power management options for monitors and hard drives. "Not a word of negative feedback was received," notes Futrelle. For more information, contact Linwood Futrelle, UNC-CH ITS, at (919) 962-5265 or linwood@email.unc.edu

EZ Wizard for individual workstations: http://energystar.gov/index.cfm?c=power_mgt.pr_pm_wizard

EZ Save for Networks: http://energystar.gov/index.cfm?c=power_mgt.pr_pm_easy_save

Energy Star Products & LCD Flat Panel Displays

ENERGY STAR[®] qualified monitors automatically enter two successive low-power modes of 15 watts or less and eight watts after a period of inactivity. Energy Star[®] rated products should be a procurement standard. Flat panel LCD monitors can use one-half to two-thirds less energy than standard cathode ray tube (CRT) monitors. Other benefits of LCD monitors include: smaller volume size, less eyestrain, less heat generation, negligible emission of harmful radiation, and less toxic waste at end-of-life.

	Calculate	Your Po	tential	Saving	IS	
	Typical Savings fro	om Activating N	Monitor Powe	r Manageme	nt*:	
-	# mor	nitors x \$21	.10 = \$	/ y	/ear	
Pote	ntial Power Manaş	gement Saving	per 100 Co	mputers & N	Aonitors	
% Computers turned off at night and weekends		0	35	55	75	100
Current Costs	(\$/year)	6400	4,400	3,300	2,100	700
euriene costs						
Cost Savings	(\$/year)	5,700	3,700	2,600	1,400	0
	(\$/year) (\$/year)	5,700 700	3,700 700	2,600 700	1,400 700	0 700

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Dispelling the Myths

Screen savers were not meant to conserve energy and have only minimal effect on reducing electrical costs. Screen saver programs can be used in conjunction with power management.

Power management controls do not reduce the life of monitors.

References & Resources:

1. EPA Energy Star site for EZ Wizard, EZ Save and energy saving calculator: http://www.energystar.gov/index.cfm?c=power_mgt.pr power_mgt_users

2. Energy Conservation in Computer usage http://www.energyeducation.tx.gov/pdf/13cinv.pdf

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