Information Technology Green

ITGreen®

Green is on everyone's mind and rightfully so.

Once thought of as a "*nice to have*", Global Warming and spiraling energy costs have urged us to seriously look at ways we can effectively analyze everyday use of technology in regards to consuming energy and emitting harmful by-products into the environment.

InControl Technology, a leader in innovative technology solutions in Asset Intelligence, is taking the lead in insuring any organization can participate in "**Green**" benefits, by measuring and gauging its Information Technology in the introduction of ***EnergyControl***, by:

- Identifying and controlling excesses in power management in IT devices.
- Providing a platform of "Best Practices" for IT energy management.
- Organizations with a 1000 PC's using EnergyControl could save $175,828 annually reducing greenhouse emissions by 1300 tons.
- Identify IT systems powered on and not in use.
- Provide a guide for "Technology Refresh" with more efficient devices.
- Intelligent, centrally controlled "power down" capabilities.
- A library of IT devices and associated power consumption for automated reconciliation to your environment.
- Significantly assist in lowering energy costs and consumption.
- Roadmap to Data Center cost savings.

One computer left on 24 hours a day dumps 3,522 pounds of CO^2 into the atmosphere annually.

Consumption and Emission Facts:

How much power does a PC use?
Think of your computer as a **300** watt light bulb. Based on 1000 PCs if they were always left on, the utility cost would be $624* per day or $227,848* per year. **With EnergyControl you could save $175,828 annually**.
*Power Cost Reference:
http://www.eia.doe.gov/cneaf/electricity/epa/epat7p4.html

Facts:

Isn't it true that turning your computer off and on can harm it?
The Lawrence Berkeley National Laboratory states that modern hard disks are not affected by frequent shut-downs and that equipment may actually last longer because mechanical wear and heat stress are reduced. If you turned off your computers during non-business hours (based on an 8 hour work day and 250 workdays / year) you could save $703 per day.

Is there another alternative to turning it off and on all the time?

If you have an "Energy Star" compliant monitor, it should be set to "low power stand-by." You specify the number of minutes of inactivity that results in the monitor changing to low-power standby mode. Any key will reactivate the screen. This reduces the power consumption of the monitor by approximately 80%. All newer computers purchased should have this feature. On old monitors, turning the monitor off is advisable or upgrading to an LCD monitor. There is no downside to turning off your monitor with or without the CPU on.

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How about servers etc?
Do not turn off servers, communications equipment (routers, hubs, modem racks, etc.), surge protectors, UPS units, or workstations relating to network-based automated applications (i.e. your attendance, scanning, and query of workstations; or your volume network and mainframe printers). *Core networking equipment* should be left on at all times.

Electricity production is the largest source of greenhouse gas emissions in the U.S. (29% in 1996, just ahead of transportation's 26%)

See the Department of Energy information: http://www.eia.doe.gov/oiaf/1605/e-factor.html

What about Screen Savers?
Despite the name, screen savers don't save anything, especially not power.
Turn off your monitor if you are not using your computer for more than 15 minutes.

How is InControl helping?
InControl Technology is offering a way to understand your complete IT Environment and better understand "your" impact to the problem.

With iScanner, **InControl's** *award winning* agent-less discovery and inventory and the MasterControl console, you can monitor all your IT devices connected to your network(s).

Once all the data is gathered without any end-user interaction, the Business Logic Technology built into the solution will analyze and process the data into concise reports with actionable itemized lists.

Technology Refresh: InControl will provide you with the ability to look at older workstations and servers to understand all the systems that could be upgraded to more power efficient and more powerful systems. InControl will help you document where consolidation in the data center and workstations can be applied without affecting your user community, by identifying all underutilized systems in use.

InControl can also provide valuable information about system configuration, in which idle system can be set to turn-off or suspend until the user returns and requires access to the system/workstation. Hard drives can be automatically turned off when the system does not require access and Energy Star monitors can be set to automatically go into power saving mode.

InControl provides reports and graphs to let you know where you can address and reduce your power. Examples include; letting you know about all CRT versus LCD monitors (CRT uses 4 times the amount of power for the same screen size) and where laptops or energy efficient workstations can replace workstations / desktops (most laptops use 60% **less** power than desktops).

InControl's iScanner can also be pro-active, by scanning at night and using Smart Technology to "turn off" or shutdown all workstations and desktops to conserve power. Again, all leveraging InControl's agent-less technology – this means the ability to perform all this work with very little overhead or personnel.

In order to get more information for this program or to get a copy of the InControl **ITGreen** Calculator contact InControl for additional information at:

Email InControl **ITGreen** Program
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