



## Go Green & Save

# Power Management for Networked PC Users

- "IT has the same carbon emissions output as the airline industry in the UK" *Gartner*
- "Wintel platforms contribute 29% of IT's carbon footprint."  
*Mike Yorwerth, Director of Group Technology Tesco*
- "Though commerce and industry need to reduce their carbon footprint, seven out of ten IT departments do not have targets to reduce their carbon emissions." *PC Pro Survey 2008*
- Manufacturing a new replacement PC creates a carbon footprint equivalent to running the existing system for 6 years.
- Office equipment is the fastest growing energy user in the business world, with consumption expected to double by 2020. Electricity costs are also increasing rapidly
- PCs represent a major consumer of electricity, (often over £95.00 pa at the current cost). Automated power management can reduce costs by over 50%, without affecting performance or availability.
- Electricity prices are continuing to rise and this will continue for the foreseeable future.





In order to give them a tomorrow, you need to save today

**PC Remote Shutdown Professional** lets you power up, shutdown and control your networked PC's from a central PC running the server component. This can be done interactively or via a schedule. With one button press, you can power up, shutdown, reboot, log out, lock up, run the screen saver or turn off the monitors of those PCs in the network that are running the client software.

The solution is designed for the following scenarios

- automatic remote shutdown of networked PCs to save power
- automatic remote power up of **Wake-on-LAN** networked PCs
- remote control of networked PCs in
  - business organisations
  - school classrooms
  - gaming shops and internet cafés

PC Remote Shutdown software provides a cost effective solution for power management of PCs and a quick return on investment, with savings in excess of £35/year per PC achieved at today's electricity pricing. By actively managing the power used by the network PCs, an organisation can significantly reduce its energy bill and carbon footprint. It represents the greatest opportunity for most organisations to obtain a "quick win" in reducing its energy use.

Historically, most organisations have been faced with a major problem; ensuring PCs are on when network maintenance is performed. If users turn off their PCs before leaving (and 38% forget), then savings in electricity could be achieved. However, IT managers require access to these PCs to undertake maintenance, and so it has therefore become standard practise to keep desktop PCs on 24\*7 whilst setting the operating systems to monitor off or standby. Unfortunately both these settings consume almost as much power as a fully powered idle machine. Cal. Tech has estimated that 69%-97% of energy used is wasted in this way, even if the desktop power management has been enabled.

By installing our software, an organisation can implement the PC Power Management Strategy which reflects the ethos and user behaviour of the organisation. When the PC is not in use, PC Remote Shutdown will turn the machine to sleep or hibernate; more importantly, it can wake it up with the click of a mouse, should access be required.

While it has been designed to work transparently to the end user, they do have the option of creating hot-keys. For example, when leaving their desk for a period, a single key press can put the pc into hibernation.

The server software that controls client PCs can be installed and run using **any networked PC** (a server operating system is not required), and can operate irrespective of any configuration management software which may already be in use to distribute software and update desktop PC's.

## Features and Benefits

### No expensive server hardware required

The server software that controls all the clients can be installed and run on **any** networked PC, to control the rest of the PC's. The server-side software cannot run on a PC which it intends to control.

### Server software runs as a Windows Server

You need not log onto the server in order to control the clients.

**"PC Shutdown" Saves Electricity and Provides Real Environmental Savings**



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### **Easy and fast setup**

Setting up the solution is very easy and straight forward. Simply install the server software in one PC, note down the server settings, and then install the clients.

### **Automatic or One-button click to power up Wake-On-LAN enabled computers**

You can set a timer to automatically power up computers that are Wake-On-Lan enabled. You can enable Wake-On-Lan in your computer BIOS setup.

### **Automatic clean-up of clients during timer logout, shutdown or restart**

Deletes temporary Internet files, cookies, recently used files etc.

### **One-button click to shutdown client PC's**

You can activate any shutdown action with just one click of a button in the server

- Shutdown
- Idle Shutdown
- Restart
- Log off current user
- Lock up workstation (Windows 2000 and XP only)
- Turn the monitor Off
- Start the screen saver

### **Freezing PC to control PC usage**

You can freeze client PCs that you do not want others to access. When a PC is frozen, a freeze window will appear and cover up the entire desktop to stop usage. You can configure the look of the freeze window. This feature is useful in managing Internet café and classroom PC's. One interesting use of the freeze window is that it captures the last screen shot, so that you can see what the user was looking at.

### **Support action timers**

You can configure timers to automatically trigger actions on clients (either individually or as groups). For example, you can set a timer to shutdown all office PC's at the end of the day, and then set a timer to shutdown the server PC itself.

### **Broadcast text messages**

You can broadcast text messages to your clients (either individually or as groups). One use of this feature is to send a reminder message to your PC users that the network is closing down in 5 minutes time.

### **Support grouping of your client PC's**

With group management support, you can easily manage and control your client PCs. Timer actions can also apply to a group or a single client ... very flexible.

### **Logging**

All activities are recorded in the logging system.

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## Reports

Reporting is available at both the client level, which enables the user to view their energy performance, and at the server to view the Enterprise or individual departments. Reporting provides detail on the hours of use, energy used and saved, together with the CO<sup>2</sup> element. Reports are available in detail and summary.

## Fully support multi-users workstations

Remote Shutdown Client is designed to work well on multi-users workstations. It can be controlled by the Server software even when there is no logon or when the client PC is locked up.

## School Classrooms

The PC Remote Shutdown solution is can be use in school classrooms. The teacher's PC will have the Server software installed, whilst all the student PCs will have the Client software. When the teacher wants to talk to the entire class, they can freeze all the student PCs. When the teacher wants the students to use their PCs, they can then unfreeze them with the click of a mouse. At any time, the teacher can send a text messages to any of the students. At the end of the lesson, the teacher can activate shutdown on all PCs.

## Cost Justification

The average Energy Star PC will use up to 280 watt when stressed and when running or idle fitted with an LCD monitor its consumption will average about 160 watts.

The potential saving therefore for PCs working for 8 hours per day over 5 days and not turned off becomes 16 x 5, and 24 x 2 . This total of 138 hours will at a consumption of 120 watts save 1.67 kWh per week or approximately £78 per PC per year

## CO<sub>2</sub> Saving

Based on the DEFRA guideline of .43kg per kWh, the estimated savings would be

No of PC	Weekly Saving	Annual Saving
10	7.2 kg	373 kg
100	71.8 kg	3733 kg
500	359.0 kg	18,668 kg
1,000	718.0 kg	37,336 kg

Contact Your PC Shutdown Dealer

## Requirements

- Windows **Vista, XP, 2000, ME, 98 SE, NT SP 6** and **95 OSR 2** (with Microsoft Internet Explorer 5 and above)
- 2.0 MB hard disk space available for software installation

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