



PC POWER MANAGEMENT

ARUP SAVES A THIRD OF PC ENERGY COSTS EACH YEAR WITH NIGHTWATCHMAN

Leading structural engineering firm makes savings equivalent to the annual greenhouse emissions of 81 modern passenger vehicles or the energy use of 40 homes in one year

ARUP

Challenge

- 25 percent of computers were being left on each weekday evening
- 20 percent of computers were being left on each weekend.

Solution

With offices in UK, Middle East and Europe, Arup wanted to manage the costs of powering its desktop estate and selected NightWatchman to automate the powering down and ensure significant costs savings.

Business benefits

- A 33 percent saving in energy costs
- Annual savings of £50,000 (\$81,200)
- 99 percent of Arup's desktop fleet is now powered down every night
- Equivalent savings of the annual GHG emissions of 81 modern passenger vehicles or the energy use of 40 homes.

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Creating a Simple, Efficient Baseline for PC Power Management

About ARUP

ARUP is an independent firm of designers, planners, engineers, consultants and technical specialists offering a broad range of professional services

www.arup.com

Founded in 1946 with an initial focus on structural engineering, Arup first came to the world's attention with the structural design of the Sydney Opera House, followed by its work on the Centre Pompidou in Paris. Arup has since grown into a truly multidisciplinary organization. Its work for the 2008 Olympics in Beijing reaffirmed its reputation for delivering innovative and sustainable designs that reinvent the built environment.

Arup's work in the built environment leaves a significant legacy to subsequent generations. Arup believes that this power, to design and influence the built environment, carries with it a responsibility to do the best possible job for current and future generations. Putting sustainability at the heart of its projects is one of the ways in which Arup exerts a positive influence on the wider world.

“The NightWatchman client is able to identify what make and model of computer it is installed on, thus enabling us to enter exact data on how much energy (kWh) is consumed by each model. This specific, granular detail, gives us an accurate view of our weekly running cost.”

Arup always encouraged staff to switch off their computers each evening before leaving the office. However, this was hard to manage as it was not an automated process. This challenge, the global increase in energy costs and the growing need for greater awareness of its carbon footprint the UK, Middle East and Europe, led Arup to evaluate a number of power management solutions for its fleet of desktop computers. After a competitive tender and a number of trials, it selected 1E's PC power management solution, NightWatchman.

The initial implementation of NightWatchman took two analysts just three days to test and make live. A four-month baseline test was run so that the structural engineering firm could get a view of both its energy cost and CO₂ emissions; this was carried out with no communication to either the end users or IT staff at Arup, so as not to influence or change behaviour. The resulting data from this showed that on average 25 percent of computers were being left on each weekday evening and 20 percent each weekend.

It was agreed that PCs would be scheduled for shutdown at 7:00 p.m. each night, using NightWatchman. However, with the process firmly in place, the need for flexibility was still paramount.

“In these instances, NightWatchman can be configured for program exceptions - automatically applied via Group Policies - so effectively, if the 3dmax.exe process is running on a computer during the 7:00 p.m. shutdown window, the shutdown will be aborted, leaving the machine on and the application able to complete its task,” explains Richard Barnes, Associate and Automation Team Leader, Arup”

Make and Model Energy Consumption: The Key to Efficient Reporting

About NightWatchman

Accurate reporting with credible savings predictions

Safe shutdown which never impacts user productivity

Automatic wakes and patches every PC - 100 percent patch success rate even out of hours

Web WakeUp enables users to remotely access their PC at any time

Supports secure environments

PC Estate Profiler monitors and reports on hardware utilization across a PC estate.

“The NightWatchman client is able to identify what make and model of computer it is installed on, thus enabling us to enter exact data on how much energy (KWh) is consumed by each model. This specific, granular detail, gives us an accurate view of our weekly running cost.” continues Barnes. “Since the deployment of NightWatchman and WakeUp, we have seen a reduction of approximately 33% in our energy costs,” he concludes.



With 99% of Arup’s desktop fleet in the UK, Middle East and Europe now being powered down each night, the region is saving approximately 442 metric tonnes of CO₂ per year, the equivalent of annual greenhouse emissions of 81 modern passenger vehicles or the energy use of 40 homes for one year.

“The solution set was the obvious choice because it is widely recognized as industry-leading,” comments Barnes. “We saw that a number of blue chip organizations, including Dell, were investing in the products due to the unique data analysis features; its integration into Microsoft’s System Center Configuration Manager; (Arup’s preferred system for software and operating system deployment) and its unique ability to wake up and shutdown computers en masse, without impacting end-user productivity. The two products also provide the flexibility to manage software patches and updates across the enterprise network in a less intrusive, more effective manner – the combination of these factors sealed the deal.”

About 1E

1E’s suite of disruptive IT operations management tools save billions, solve problems and simplify the management of large, complex IT environments – in record time. Designed with a singular focus to help drive down costs, 1E’s solutions include tools for IT asset management, Windows systems management and BYOPC.

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