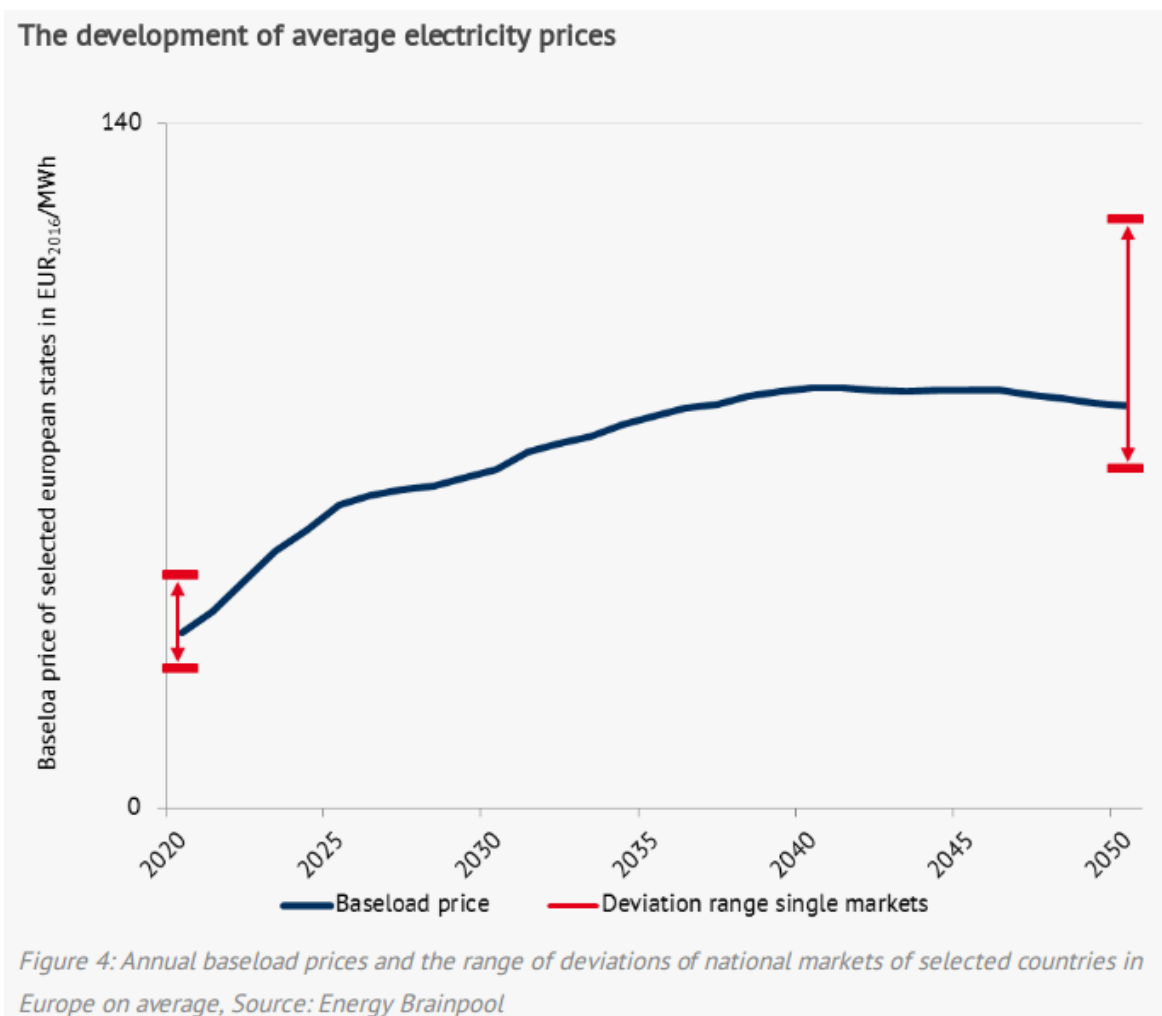




**Green IT  
Professional PC Power Management  
Auto Shutdown Manager**

# Average Trends of Energy Prices



# PC Power Management Key Advantages

**Improves corporate image**

**Based on “The Economist” Green Messages influence stock values by up to 33% and profits by up to 9% - and it’s increasing.**

Source: <http://www.zdnet.com/blog/forrester/the-evolution-of-green-it-a-forrester-video-series-part-1/431>



# PC Power Management Key Advantages

**Saves money, energy and CO<sub>2</sub>**

PC power management software can cut energy costs by \$10-\$33 dollars per PC and per year.

Depending on the branch this can mean 10%-20% of the total energy costs of an enterprise.

In average 15% -30% of all PCs are not shut down after work



# PC Power Management Key Advantages

**Increases employees' productivity**

Employees feel a deep sense of pride working in organizations that do their part for the environment.

Staff are increasingly green aware and want to see their company contributing to the solution, rather than exacerbating the problem.



# PC Power Management Key Advantages

## Increases IT security

Shutting down unused PCs removes potential points of attack.

PCs that do not run cannot be attacked.

In average 15% -30% of all PCs are not shut down after work



# PC Power Management Key Advantages

## ”Green Goes Mainstream“

An increasing number of stakeholders such as the management, investors and customers are going to want to know what you’re doing to comply with, support or advance your company’s efforts to become more environmentally responsible



# PC Power Management Key Advantages

**PC Power Management makes IT staff's  
life easier**

PCs can be started, safely shut down and managed worldwide remotely from one central place.





# Why Auto Shutdown Manager

## Reliable worldwide Wake On Lan infrastructure

- WoL scheduler for manual and automatic administration of WoL plans. Reads software deployment- and update plans from SCCM. Processes external XML based WoL job files
- Exceptions for holidays
- WOL proxies for Windows and Java (e.g. for Raspberry Pi) allow cross-segment waking
- Supports local and directed broadcasts as well as WOL proxies. Thus, a worldwide awakening of computers is possible
- Wake On WAN Client to wake office computers from remote locations



# Why Auto Shutdown Manager

## Reliable client shutdown

- No shutdowns during core working hours
- The shutdown is executed after the preset computer idle time expires:
  - No mouse and keyboard inputs
  - No important processes such as backup, virus scan, update, remote sessions, ... are detected as busy
  - No important applications are running, such as PowerPoint in presentation mode
- Opened MS Office documents are automatically saved before shutdown
- Shutdown or restart can be enforced manually at any time by the administrator or by time rules



# Why Auto Shutdown Manager

## Central management, local execution

- All settings are specified centrally and transmitted to the clients
- The settings are processed offline locally on the clients
- Client software updates and licensing
- Reports: PC runtimes, CO<sub>2</sub>, energy consumption, costs
- Automatic assignment of settings to clients based on:
  - PC name patterns like \*sales\*.domain.com
  - Active Directory attributes like OU = technique
  - Active Directory group membership
- Automatic installation -, configuration -, and roll-out support
- Ad hoc restart, shutdown or wakeup of individual PCs or PC groups



# Why Auto Shutdown Manager

**Satisfied Customers Worldwide**

**Auto Shutdown Manager helps hundreds of thousands of users worldwide.**



# Possible savings potential

Analysts estimate energy savings between \$10-\$33 per PC and year. which also confirms our experience. The savings can be much higher depending on the local energy prices.

**That corresponds to a saving between  
\$1000 - \$3300 per 100 computers per year.**

The time, which the administrators save by reliably turning on and off the computers remotely is not included. In addition, the Auto Shutdown Manager technology enables the relocation of time-consuming and CPU intensive administrative tasks such as updates or virus scans outside of office hours, which has a very positive effect on the performance of the user's computers during the day and thus makes the users much more productive and satisfied.



# ROI (return on investment) for schools

Here is an example based on market data and our experience to demonstrate the potential savings.

Scenario: 300 school computers controlled by Auto Shutdown Manager.

Only 20% of all computers are included in the calculation, as it is assumed that on average 80% of the PCs are correctly shut down by the students at the end of classes.

Facts & Data:

Consumption per computer and TFT monitor on average: 150 watts

Price per kWh: \$0,16

|   |           |
|---|-----------|
| Possible budget savings per year:           | \$9.907   |
| Possible CO <sub>2</sub> savings per year : | 36.533 kg |
| Costs for Auto Shutdown Manager             | \$499     |
| School Flat License                         |           |

**ROI in less  
than 20 days!**



# ROI (return on investment) for enterprises

Here is an example based on market data and our experience to demonstrate the potential savings.

Scenario: 300 office computers controlled by Auto Shutdown Manager.

Only 20% of all computers are included in the calculation, as it is assumed that on average 80% of the PCs are correctly shut down by the users at the end of work.

Facts & Data:

Consumption per computer and TFT monitor on average: 150 watts

Price per kWh: \$0,16

|   |           |
|---|-----------|
| Possible budget savings per year:                     | \$9.907   |
| Possible CO <sub>2</sub> savings per year :           | 36.533 kg |
| Costs for Auto Shutdown Manager<br>Enterprise License | \$2,244   |

**ROI in less  
than three  
months!**



# Case Study:

## Mesquite Independent School District (MISD)

### Challenge

Efficiently manage power and updates on 8,500 PCs on 47 different campuses.

### Solution

The Auto Shutdown Manager server is scheduled to automatically wake computers to complete updates at more convenient times.

### Benefits

- Synchronizes with current management system (Microsoft SCCM).
- Provides easy way to organize, update and control many computers.
- Saves money and complements our green initiatives.
- Best value with easy licensing.
- Comes with exceptional customer support.



“Best value with easy licensing”

— Jeremy Lewis, Network  
Operations Supervisor for MISD



MESQUITE INDEPENDENT  
SCHOOL DISTRICT





# Case Study: University of California Berkeley

Auto Shutdown Manager is deployed at U.C. Berkeley as part of the LoCal power monitoring and conservation project.

## Challenge

Dr. Culler searches for a way to identify and eliminate wasteful power expenditure in the Berkeley community.

## Solution

Auto Shutdown Manager, coupled with wireless power meters, provide a significant reduction in energy usage.

## Benefits

- Much simpler than a home-grown solution.
- Delegation by servers allows flexibility across departments.
- Stable platform is ready for rollout to thousands of computers.
- “80% of what we would have spent for that population of desktops, we’ve saved with Auto Shutdown Manager”



*“We surveyed much of the space; we looked at all of the free tools, the open tools, the for-pay tools... Auto Shutdown Manager is light years ahead of anything else I’ve seen in the industry.”*

**Prof. Dr. David Culler Professor  
in Computer Science at the UC  
Berkeley**



# Case Study: Herricks Union Free School District, NY

Auto Shutdown Manager protects teachers' computers in Long Island, New York.

## Challenge

Problem with savvy high school students hopping onto the teachers' workstations in between classes.

## Solution

When class is over, Auto Shutdown Manager saves the teachers' files and logs them off.

## Benefits

- Systematically secures all classroom computers
- Teachers don't even know it's there.
- Easy to deploy and update for all computers in the district



*"Auto Shutdown Manager is very flexible. I have to admit: I'm very impressed. Easy to use, easy to deploy... you can't ask for more than that."*

**Michael Brewer, Systems Administrator at Herricks Union Free School District, NY**

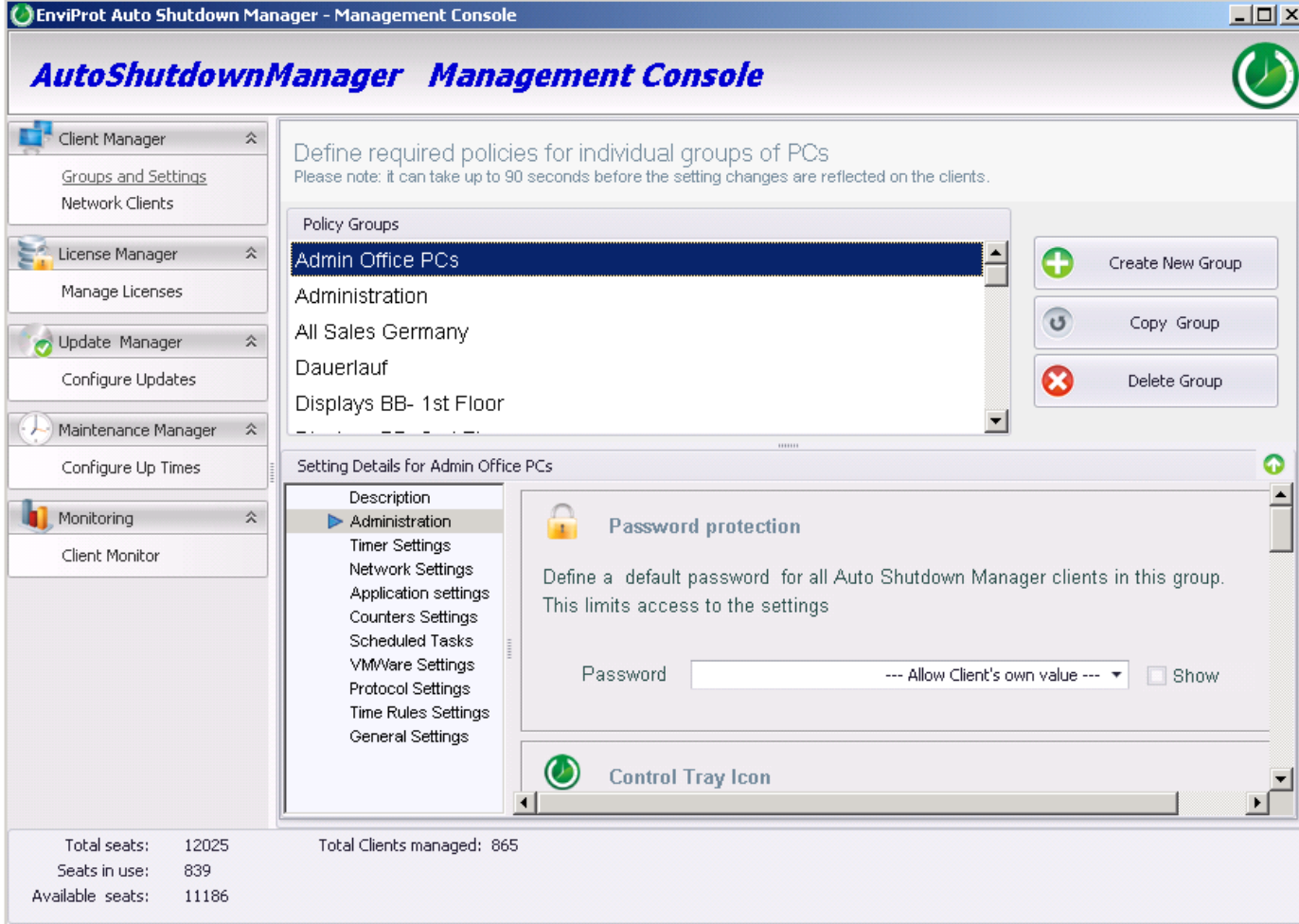


# Auto Shutdown Manager at a glance

## Central Management

The Management Console supports five different Management Categories:

- Client Manager
- License Manager
- Update Manager
- Maintenance Manager
- Monitoring



The screenshot shows the 'EnviProt Auto Shutdown Manager - Management Console' window. The title bar includes the application name and standard window controls. The main area is titled 'AutoShutdownManager Management Console' and contains a sidebar on the left with navigation options: Client Manager (Groups and Settings, Network Clients), License Manager (Manage Licenses), Update Manager (Configure Updates), Maintenance Manager (Configure Up Times), and Monitoring (Client Monitor). The main content area is titled 'Define required policies for individual groups of PCs' and includes a note: 'Please note: it can take up to 90 seconds before the setting changes are reflected on the clients.' Below this is a 'Policy Groups' list with 'Admin Office PCs' selected. To the right of the list are three buttons: 'Create New Group', 'Copy Group', and 'Delete Group'. Below the list is a 'Setting Details for Admin Office PCs' section with a tree view on the left showing categories like Administration, Timer Settings, Network Settings, Application settings, Counters Settings, Scheduled Tasks, VMWare Settings, Protocol Settings, Time Rules Settings, and General Settings. The 'Administration' category is expanded, showing 'Password protection' and 'Control Tray Icon' settings. The 'Password protection' section includes a description: 'Define a default password for all Auto Shutdown Manager clients in this group. This limits access to the settings.' It features a 'Password' input field with a dropdown menu set to '--- Allow Client's own value ---' and a 'Show' checkbox. The 'Control Tray Icon' section is partially visible below. At the bottom of the console, there is a summary table:

|                  |       |                        |     |
|------------------|-------|------------------------|-----|
| Total seats:     | 12025 | Total Clients managed: | 865 |
| Seats in use:    | 839   |                        |     |
| Available seats: | 11186 |                        |     |



# Some of our customers



# About EnviProt

- Founded 2007
- 100% privately held
- Focus on Green IT Software
- International sales focus
- General Manager:  
Waldemar Siedlok, Dipl.-Ing. (FH) in Computer Science
- HQ Location: Herrenberg / Germany
- 2.000+ deployments world wide
  - Biggest by the number of PCs: 40,000+ PCs
  - Biggest by the number of PCs per server: 35,000
  - Biggest by the number of subnetworks: 750





**Thank you!**

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