Altisource Desktop Energy Reduction Program by the *PHANTOM FIGHTERS*

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Altisource®

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Introduction

To eliminate energy usage in inactive, on-site desktops at all Altisource office locations. Employees frequently leave their computers on overnight or over the weekend either in fear of losing work, accidentally, or neglectfully. Desktops and monitors are constantly running and waste electricity, and in turn accrue costs that in turn results in unnecessary carbon emissions.

Our plan is to mandate all desktops to enter sleep mode after 1 hour of in operation, thus preserving any paused work, while minimizing the start up time for employees to resume work.

The U.S. Energy Information Administration projects that the world's energy usage would increase by 28% by 2040. This project would aim to begin better energy saving habits combat the future demand of energy, reduce emissions, and cut operating costs.

Current Status

Altisource is currently transitioning its software patching department and upon completion will be able to set a plan of action for this project. All of the project-related business units have been notified.

The anticipated date of implementation is the Fall of 2018

Implementation Timeline

Phases	Potential Carbon Reduction ( = ~5 tons of CO_2)
PHASE 1 – Endicott • Only 342 desktops to easily convert and test strategy • Majority Dell Optiplex 700s to develop BIOS changes for	
PHASE 2 - Bangalore & Mum-Vishwaroo • Largest energy savings and carbon reduction • 3,362 of mostly Dell Optiplex 3000s and HP Compaq 6200	
PHASE 3 - All Remaining Locations • Majority model types would have BIOS developed already • Remaining 1,218 desktops spread throughout many locations	

Implementation Strategy

Employees will be notified ahead of time of the change to their computer's power settings through the use of a friendly brochure developed by the *PHANTOM FIGHTERS*. It will configure and implement the new policy overnight and employees will return to their desk the following day with the new policy in place.

Financial Analysis

By reducing phantom energy consumption, Altisource will recognize savings in their electrical bill!

	PV of Cost	PV of Cost Savings	Months to Break Even	ROI
Phase 1	3,504.90	87,327.02	2.41	2392%
Phase 2	7,510.50	138,208.89	3.26	1740%
Phase 3	4,506.30	47,987.58	5.63	965%
OVERALL	**15,521.70**	**273,523.50**	**3.40**	**1662%**

Altisource will utilize a Dell tool to modify desktops to wake on LAN protocols. Altisource IT staff will ensure that no errors are created as a result of the new protocols.

Desktops will have to undergo this process again upon replacement.

Carbon Reduction Quantification

Altisource provided all **24 model types** of all **4,922 business desktops** that operate in **10 offices** spread throughout U.S., India, Philippines and Uruguay. Each country that the offices consume electricity that vary in carbon emissions.

In one year Altisource is unnecessarily consuming:
4,922 desktops x 42.97 kWh x 6,150 non-business hours = **264,237 kwh**
264,237 kwh equates to about **104 tons of CO2 emitted per year**!

Since desktops, like laptops, will reduce energy consumption by at least 90% by entering sleep mode, Altisource is expected to **reduce their total carbon emissions by 93.5 tons** to only contributing to **10.5 tons of CO_2 per year**.

Given each 2017 Ford F-150 emits 6.8 tons of carbon per year, reducing 93.5 tons of **CO_2 per year** is the same as removing about **14 F-150s off the road**!

Company and Community Impact

Company

- Automate this energy saving initiative.
- Eliminate a significant amount of carbon dioxide as a result of the reduced electric usage.
- Cost savings

Community

- Educate employees on at work and at home energy saving techniques with brochures and informative dashboards upon desktop startup.
- Potential for significant carbon reduction among the larger community.

Next Steps for Consideration

Assurance Plan During and after desktop updates, a system to confirm the attempts or success of the updates after each Phase.

Contingency Plan A method to check back to see if the update is truly working and to determine if the Project Bed-time truly reduces electricity consumption.

Employee Satisfaction A plan could be set up to address unforeseen issues or questions that employees provide.

References

Carbon Emissions Profile https://www.epa.gov/sites/production/files/2018-02/documents/egrid2016_summarytables.pdf
Annual CO2 emissions per vehicle: https://www.epa.gov/greenvehicles/greenhouse-gas-emissions-typical-passenger-vehicle
https://www.eia.gov/outlooks/ieo/