



BIGFIX[®]

CO₂ Emission Reduction

Cost Savings Reduction and Tax Credit Detail

Reduce Energy → Reduce CO₂ Emissions → Save Money



Power Management Module

According to the US Department of Energy (USDOE), total world consumption of electricity increased 36% from 1994 – 2004. This growth in electricity consumption is fueled in part by the trend towards more powerful computers loaded with more memory, more drives, and more capabilities. As enterprises add computing resources to their growing organizations, electricity costs continue to rise unchecked. Further, the USDOE reports that the average PC wastes up to 400 kilowatt-hours of electricity a year simply by running at full power when no user is present. By implementing an effective power management scheme, however, enterprises can achieve dramatic reductions in electricity costs, leading to a significant reduction in operating overheads.

In addition to costs savings, reducing wasted electricity can yield an environmental benefit that can help organizations comply with many “green initiatives”. Generating the electricity consumed by a typical PC releases almost 400 lbs of carbon dioxide – a gas that is a major contributor to global warming - each year. Reducing power usage can directly cut CO₂ emissions.

The BigFix Power Management solution enables enterprise IT staff to monitor, manage, and control the power conservation settings of computers and monitors, resulting in annual cost savings of up to \$60 per PC. By using the BigFix Power Management solution, enterprises gain:

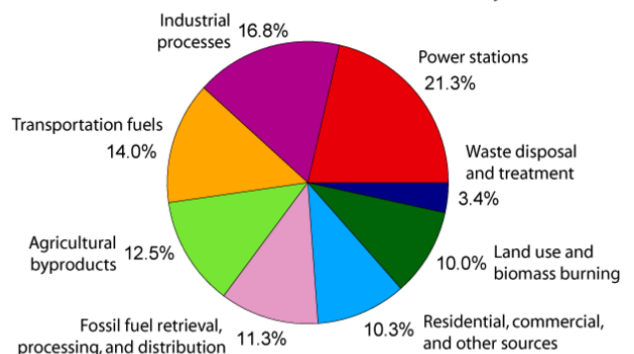
- **Significant reduction in energy costs** – Reduce annual energy costs by up to \$60 per PC by automatically minimizing power consumption when computing resources are sitting idle
- **Reduction in CO₂ emissions** – Reduce global warming greenhouse gas production by reducing power consumption across the organization
- **Unprecedented real-time visibility** – Track power settings, usage, and cost over time through powerful reporting capabilities at both the individual endpoint and aggregate levels
- **Distributed Wake-on-LAN capabilities** – Remotely wake computers for routine or emergency software deployments, configuration changes, or security measures without in-person intervention or disturbance to end users

Curbing the CO₂ That Comes From PC Use

Power Station energy production of consumable energy related utilities is still the greatest producers of Greenhouse Gas Emissions.

- The wasted electricity production for 5000 PCs results in carbon-dioxide emissions equivalent to 190 cars
- Oxford University estimates that an average PC running 24/7 produce approximately 716kg of carbon in a year - the equivalent of driving a round trip to Moscow from NYC

Annual Greenhouse Gas Emissions by Sector



CO₂ Emission Reduction

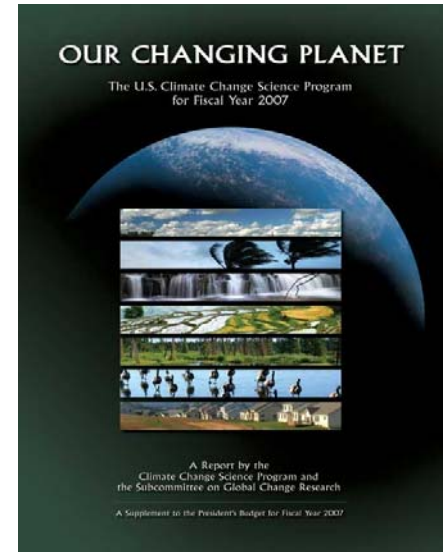
Cost Savings Reduction and Tax Credit Detail

Voluntary Carbon-Reduction and Tax Savings Programs

The Global Change Research Act of 1990 commanded thirteen government agency to facilitate and promote voluntary emission reduction programs. The President issued a directive on April 15, 1999, requiring an annual report summarizing the carbon dioxide (CO₂) emissions produced by the generation of electricity by utilities and non-utilities in the United States. In response, the U.S. Department of Energy (DOE) and the U.S. Environmental Protection Agency (EPA) jointly submitted the first report on October 15, 1999. The second annual report that estimates the CO₂ emissions attributable to the generation of electricity in the United States was published in June 2000. In March of 2006, the United States Department of Energy published the "TECHNICAL GUIDELINES VOLUNTARY REPORTING OF GREENHOUSE GASES (1605(b)) PROGRAM". This Report detailed the technical requirements of verifiable reporting that businesses must comply with in order to receive appropriate tax credit for verifiable reporting of carbon emission reporting.

Based on the technical guidelines of DOE, BigFix will classify as a A-4 rating, or the highest rating available; which would enable a business to receive 25% of the annualized reduction as an environmental tax credit.

There are also state tax credits that are available, but guidelines differ by state.



It has been well documented that while no single technology element can solve the reduction problem, any technology element can be part of the solution.

Endnotes

*Carbon Dioxide Emissions from the Generation of Electric Power in the United States, July 2000, Department of Energy

*Using simulation models to assess CO₂ emissions reduction, Steven J. Taff & Erland Herfindahl, October 3, 2005

*Our Changing Planet, UCCSP, June 2006

*National Assessment of the Potential Consequences of Climate Variability and Change, National Assessment on Climate Change, November 2000

*Emission Database for Global Atmospheric Research, Jos

About BigFix, Inc.

Founded in 1997, BigFix is the category leader in security configuration management software, services, and solutions for real-time visibility and control of computers across the distributed enterprise. BigFix solutions are proven in production at more than 500 companies, government agencies and public sector institutions worldwide and currently manage over 5,000,000 desktop and mobile clients, workstations, and servers.

The company has received numerous awards and industry recognitions, including the 2005 Codie Award for "Best Security Product" and the SC Magazine "Product of the Year" recognition in 2004 and eWeek's "Analyst's Choice" award in 2006. For more information, visit

www.bigfix.com.

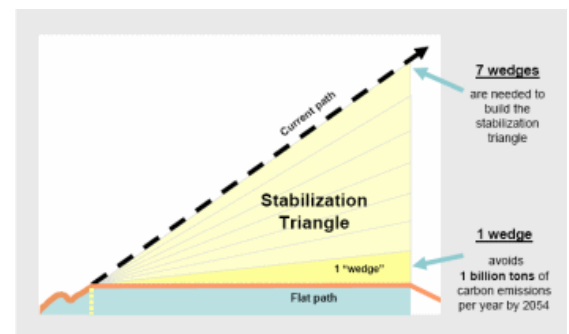
Stabilization Wedges: Emission Reduction Potential

CO₂ Emission Reduction is one important step to reducing the Global Climate Change. The Climate Change Science Program (CCSP) was established in 2002 to empower the Nation and the global community with the science-based knowledge to manage risks and opportunities of change in the climate and related environmental systems. CCSP incorporates and integrates the U.S. Global Change Research Program (USGCRP) with the Administration's U.S. Climate Change Research Initiative (CCRI).

S. Pacala and R. Socolow (both leading Climate Change Control Scientist), originated the idea of the Climate Wedges through their "Stabilization Triangle." Al Gore made use of the concept in *An Inconvenient Truth*.

Here's what you need to know:

- Carbon emissions are expected to double in the next 50 years, from 7 billion to 14 billion tons.
- The predicted upward path will result in CO₂ levels triple that of pre-industrial atmospheric levels. We could dub this the "not pretty" zone.
- Keeping carbon emissions flat would mean avoiding a huge chunk of CO₂ emissions in the future and thus act to stabilize the current Global Climate Change.



Cumulatively, small actions will make a difference.

Consider one potential wedge: If just 50 million PCs, or the same number of people that purchased a Lance Armstrong bracelet, offset their carbon footprint, we could reduce CO₂ Emissions by 1 billion tons.