

GREEN BUSINESS IS GOOD BUSINESS

Environmentally Friendly Computing for the Government



CSC
NORTH AMERICAN
PUBLIC SECTOR



CSC

Global Leader

Recently, CSC was named the #2 Green Vendor in the world in a Brown-Wilson Group Black Book of Outsourcing survey that included some 20,000 respondents.

Green to Gold: The Benefits of Green IT

- Reduce power usage
- Cool more efficiently
- Consolidate servers
- Properly dispose of IT products
- Procure Electronic Product Environmental Assessment Tool (EPEAT) and Energy Star-compliant products
- Plan and manage reductions in physical office space
- Support telecommuting and replace travel with videoconferencing
- Achieve large-scale cost savings while reducing the carbon footprint

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Just a short time ago, there were few commonly recognizable, compelling reasons for government organizations to consider green IT. If decision makers discussed environmentally friendly computing, it was likely to be part of a conversation about regulatory challenges in the distant future. More than anything else, perceived high costs ensured that green IT would remain low on the list of mission priorities, especially in times of tight budgets and doing more with less. But with energy costs skyrocketing, and with computing resources consuming increasing amounts of power, much has changed.

Today, it's widely recognized that green IT can deliver significant cost savings by improving the energy efficiency of data centers, desktop computers, and other IT resources. And there's a value that can't be measured in doing the socially responsible work of reducing the carbon footprint on our planet.

At CSC, we believe that, when it comes to green IT, the future is now. Government organizations are seeking to reduce the amount and cost of energy required to power IT resources — and we stand ready to help you do just that, with innovative cooling strategies, server consolidation and virtualization, telecommuting tools, and more. And when you work with us, you benefit from the expertise and proven practices we've developed as a recognized early adopter of resource-efficient computing practices.

CSC: The Right Green IT Partner for Government Organizations

At CSC, we demonstrate an unusually strong commitment to environmentally friendly computing practices every day — whether it's implementing stringent policies for decommissioning IT equipment, or investing in research that we'll use to reduce energy consumption at our data centers. And we're in what some might call a green business: outsourcing typically means consolidating IT resources — and efficiency improvements like that serve to reduce environmental impacts.

Put Our Green IT Expertise to Work for You, Now and Into the Future

As your partner in achieving more energy-efficient computing, we'll use all that we've learned about green IT within our own organization to provide you with a smart, value-oriented approach.

Here's just a sampling of the green IT capabilities that we're prepared to leverage for your benefit:

- **Global ISO 14001:2004 Certification.** To keep CSC at the forefront of environmental management proven practices, we're currently implementing a plan to certify all of our major data centers around the world in accord with ISO 14001:2004, which provides a framework for a holistic approach to corporate environmental policies, plans, and actions. Already, our major UK data centers have been certified at ISO 14001:2004.
- **Comprehensive Waste IT and Scrap Recycling.** CSC partners with regional companies that securely wipe data from and resell or recycle our decommissioned IT equipment. Recently, 130,000 pounds of materials and components were recycled from a major North American data center.
- **Reduced Power Consumption.** CSC has implemented numerous power-saving measures, including energy-efficient computer room design; cube technology; passive, IR-activated lighting in dark-room computer suites; hot and cold aisles; and cogeneration, which is now used at all of our UK/EMEA sites. And we regularly assess the business value of vendor offerings that comply with EPEAT.
- **Collaboration with Other Green IT Leaders.** CSC is in discussions with organizations such as the Climate Savers Computing Initiative, which encourages businesses to optimize existing systems

The CSC Difference — Server Virtualization Experience

Perhaps the best way for an IT organization to reduce its spend on power and cooling is by reducing the number of servers it uses. Server virtualization — the practice of running multiple instances of virtual servers at the same time on a single machine — is a practical strategy.

A world leader in server virtualization, CSC offers you a flexible, vendor-independent, and cost-effective way to tap into server power as needed.

CSC can offer you the full benefit of our experience managing the world's largest virtual data center for the UK National Health Service (NHS).

NHS sought to make patient records available online for anytime, anywhere access by doctors. Operating in 147 healthcare trusts located around the country, NHS needed an information repository so vast that a physical data center could not hold it.

CSC has addressed every requirement for uptime, restricted access, redundancy, and audit trails with a highly innovative virtualization solution, delivered on time and on budget.

for energy efficiency, as well as Green Grid, which seeks to lower the overall consumption of power in data centers worldwide.

- **Large-Scale Research Investment.** Through our corporate Office of Innovation, CSC has made significant investments in research on green IT. We continue to make our findings available to client decision makers through podcasts, presentations, study tours, and conferences.

CSC's ISO 14001:2004 Initiatives

CSC has developed a number of strategies for achieving ISO 14001:2004 compliance and certification:

- Use of state-of-the-art technology
- Innovation in energy-efficient computer room design
- Utilization of energy-efficient cube technology (heat exchange)
- IR-activated energy-efficient lighting in dark-room computer suites
- Efficient computer room design concepts (hot/cold aisle, cabling standards)
- Water waste and energy reduction programs
- Exploitation of power-saving features for IT equipment
- Recycling of all IT waste
- Office furniture recycling program
- General waste recycling targets (70 percent reduction)
- Energy saving initiatives deployed in office space

Green IT for Your Organization: Saving Energy, Money ... and the Environment

Going green means using proven techniques to enhance the efficiency of IT operations. This way of doing business saves energy and reduces cost for your organization while enabling you to shrink your carbon footprint. CSC's experienced professionals can help you implement these and other key strategies:

Facility Design

- Green Buildings
- Prime Power
- UPS/Secondary Power
- Cooling Strategy
- Cogeneration
- Energy and Waste Reduction Programs

Efficient Computer Room Design

- Hot Aisle/Cold Aisle
- Cabinet Blanking Panels
- Matching Server Air Flows
- Use of Longer Rows
- Orienting of AC Units Perpendicular to Hot Aisle
- Self-Cooling Racks
- Cube Technology

Server Consolidation

- Blade Servers
- Virtualization

Optimized Storage

- SAN
- Data De-duplication
- Dynamic (Thin) Provisioning

Management Tools

- Active Power Management

Desktop Environment

- Thick Client
- Browser-Based
- Thin Client