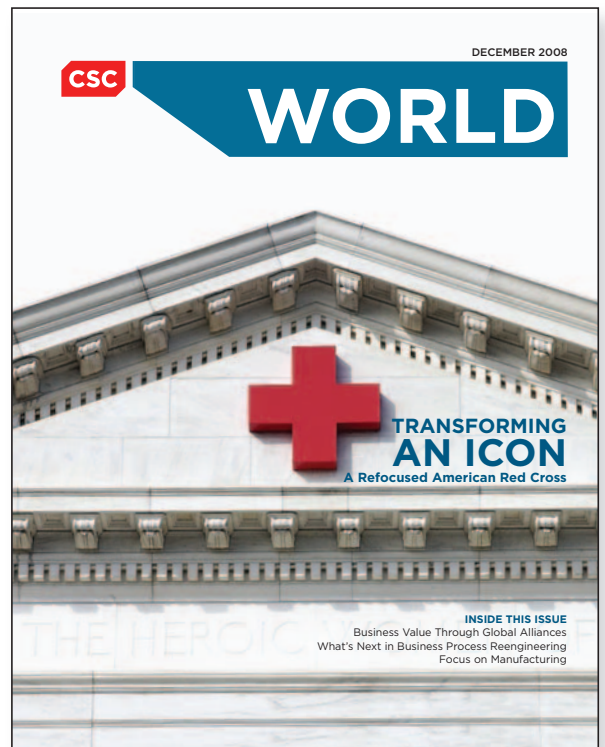




AN ARTICLE FROM
CSC
WORLD

THE GREEN CORNER

Next-Generation Green: More Than Lip Service



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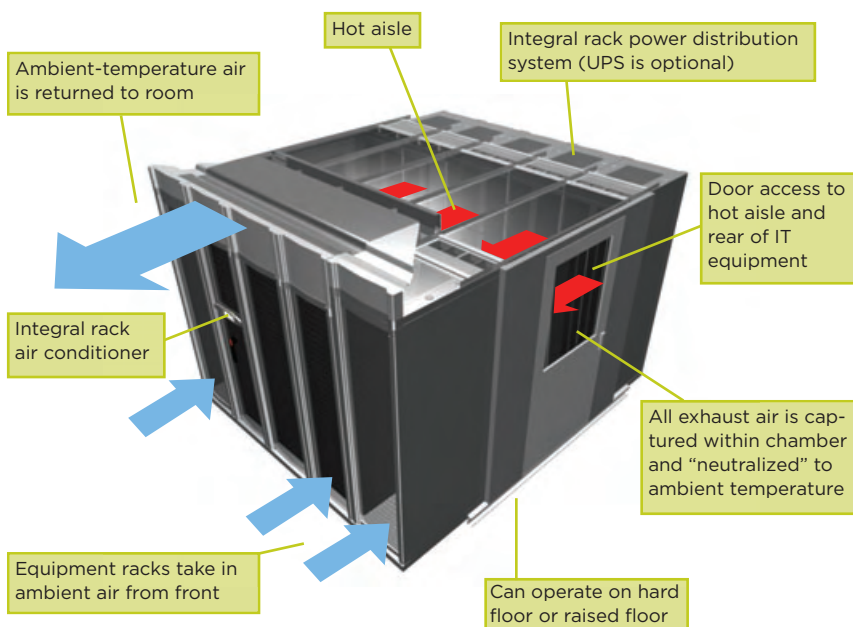
by Paula Corfield

Going Green is not just the right thing to do for the environment; it is also the financially viable, business-minded thing to do. The United Kingdom is among the world's leaders tackling the challenge, and CSC is leading the charge.

CSC UK headquarters in Aldershot launched its Environmental Management Programme in 2003 to meet international environmental standard ISO 14001. The scope of the effort soon expanded to include all UK data centers and offices, requiring each site to assess and reduce key environmental impacts, from energy and transport to waste and procurement practices. Some areas where we are making a difference include:

Next-generation data centers. In a conventional data center, every watt used by a server is typically matched by another watt used for cooling and power distribution. Energy consumption equals money spent, and CSC's clients are looking to cut both. At the same time, they require better and faster processing.

One of our most innovative Green initiatives is the state-of-the-art technology we used in two newly built data centers in Aylesford and Sevenoaks. These new data centers employ blade server technology, which offers high-density computing in a more compact space, but which also can consume huge amounts of energy. The data centers were designed using APC InfraStruXure Hot Aisle Containment Systems (HACS), the largest implementation of this new technology in the United Kingdom. They feature enclosed hot aisles, cooled by in-row air handling units with variable-speed fans that follow the IT load profile (see image). Motion-based lighting ensures that the lights only operate when needed.



Although the data centers offer the high-density computing our clients demand, they also offer efficient free-cooling capability, which means reduced energy consumption and costs, as well as increased reliability and availability. The centers were built in a third of the time and occupy less than half the square footage of a traditional data center implementation. Beyond this project, we are also auditing water usage at all of our data centers and removing water cooling towers, which have saved an immense amount of water and removed the risk of Legionella contamination.

Efficient sourcing. CSC UK buys "fuzzy Green" electricity known as CHP, or Combined Heat and Power. CHP is 50 percent more fuel-efficient than conventional power generation because it uses by-product heat normally lost to the environment. It also cuts distribution losses as it is often generated locally.

Carbon reduction. In January 2008, CSC joined a carbon management program, which provides a measurable "carbon footprint," establishing a baseline for future reduction targets. CSC's Carbon Management Team is working hard to meet the new targets.

General waste. CSC UK has a program to reduce waste and improve recycling targets every year. Recycling efforts include paper products, light tubes, tins, oils and toner cartridges. A Green furniture company also removes unwanted office furniture for reuse or recycling. UK sites have achieved a recycling rate of some 33 percent, with the potential for up to 70 percent year-on-year improvement.

IT equipment recycling. CSC UK sends its electronic and electrical waste to a state-of-the-art refurbishment center, which diverts tons of waste from landfills. Equipment not suitable to be resold for reuse is sorted to remove hazardous materials that are treated separately.

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CSC makes a special point of understanding its clients and provides experts with real-world experience to work with them. CSC is vendor-independent, delivering solutions that best meet each client's unique requirements.

For more than 49 years, clients in industries and governments worldwide have trusted CSC with their business process and information systems outsourcing, systems integration and consulting needs.

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