



In the US, Data Centres and servers account for approx 1.5% of the country's total electricity, that's equivalent to the entire US transportation industry (including manufacturing of cars, planes, trucks and ships).

Studies have shown that between 30-60% of energy used by a DC is spent on power and cooling, with as little as 20-30% being used on equipment that actually drives business operations. *

IT focused energy efficiency initiatives are critical for a number of reasons:

- They can add significant value back to the bottom line through savings in energy bills.
- They can reduce expenditure on server sprawl, floor space and associated facilities.
- They can be a major contributor to an organisation's environmental sustainability platform.

The challenge for any DC manager in the current economic environment is how to invest in energy efficiency initiatives during a time of restricted and possibly shrinking IT budgets. Whilst initiatives such as server virtualisation and sophisticated cooling approaches can be highly impactful, there is often low hanging fruit that can be realised by simply understanding what equipment currently exists, to what capacity it is operating and what energy is being drawn and potentially wasted.

CS6 is a unique tool that enables a DC Manager to quickly and accurately capture a detailed map of:

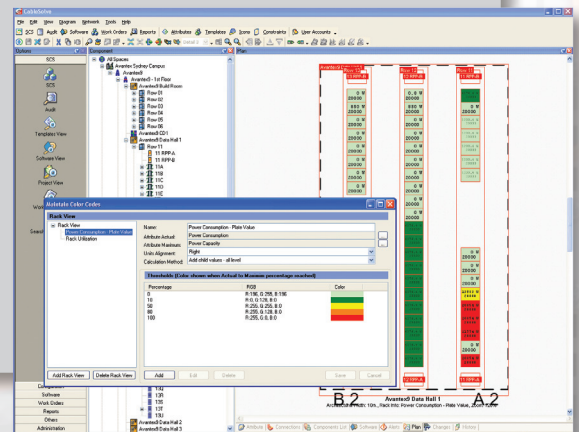
- Current equipment used
- Space and capacity usage and availability
- Energy usage

This information can be displayed visually through football fields and floor plans. Conditional formatting enables DC Managers to instantly recognise what equipment is at or nearing capacity in both space and energy terms. Simple dashboards enable regular reporting on energy efficiency vs. desired benchmarks.

Work conducted by The Green Grid (www.thegreengrid.com) indicates that the ideal Power Usage Effectiveness (PUE = Total DC power in / total power used by IT equipment) for an energy efficient organisation is 1.6. **

With CS6 you can import the results from a simple power audit to know where you currently stand or you can obtain live readings through the CS6 system to constantly monitor whether you are improving your efficiency over time.

CS6 is currently being used by a number of the world's major DC facility providers due to its ability to provide real time, accurate, ongoing measurement of equipment, space, capacity and energy usage.



*Source: Uptime Institute™ (Data Centre Capacity and Energy Efficiency, March 2008).

**Source: Eaton Thought Leadership White Paper, May 2009.