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EUROPEAN DATA CENTER MANAGERS CAN BREATHE EASIER WITH ONLINE TOOLS FOR FREE COOLING FROM THE GREEN GRID

Tool Provides Energy, Cost Savings Through Use Of Outside Air To Cool Data Centers

Portland, OR – October 2, 2009 – [The Green Grid](#) today announced the availability of a new [free online tool](#) and maps designed to help data center and facilities managers easily determine how much outside air – also known as free cooling – is available for individual data centers. The updates extend coverage of the tool and maps to 33 European countries, and can now help data center managers in Europe lower energy consumption and related costs, potentially extending the life and improving the energy efficiency of data center facilities.

“Data centers with increasing IT loads require more power to cool them, so finding cooling options that use less power is critical not only for organizations that don’t have resources to build new facilities but also for those that want to save money,” said Vic Smith, Dell representative and EMEA technical work group chair of The Green Grid. “For much of the year, the air outside data centers can be cooler than the air inside. This tool that The Green Grid has developed will help determine how much free cooling a specific data center can leverage.”

Using country and city names, the tool allows data center managers in Europe to input their specific variables - such as local energy costs, IT load, and facility load - to determine the specific potential energy savings for individual facilities. In addition to free cooling from outside air, the tool provides information about savings that could be obtained using water-side economizers. For example:

- A 1 megawatt (1000kW) data center in Luton, England, with power at a cost of 13.6 cents per kW hour, could save €340,000 per year using free cooling, or €210,000 per year using a water-side economizer.
- A 1 megawatt (1000kW) data center in Paris, France, with power at 13.2 cents per kW hour, could save €330,000 per year using free cooling, or €180,000 per year using a water-side economizer.

The tool is available for the following European countries: Armenia, Austria, Azerbaijan, Belarus, Belgium, Bulgaria, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, and United Kingdom.

Members of The Green Grid will have access to a high resolution graphical map of the estimated hours of air-side and water-side economization possible for Europe and many specific countries. Lower resolution maps of European free cooling estimates are available to the public at [The Green Grid Web site](#).

Methodology

The Green Grid’s free cooling tool for EMEA contains information from 608 weather stations throughout Europe. The database consists of all available hourly observations taken during the period extending from 1999 through 2008. This count of hours is then divided by 10 (total years of data) to provide a result of the "normal" number of occurrences during a given year. The total number of hours of available free cooling will always range from 0 to 8760 hours.

About The Green Grid

[The Green Grid](http://www.thegreengrid.org) is a global consortium of companies, government agencies and educational institutions dedicated to advancing energy efficiency in data centers and business computing ecosystems. The Green Grid does not endorse vendor-specific products or solutions, and instead seeks to provide industry-wide recommendations on best practices, metrics and technologies that will improve overall data center energy efficiencies. Membership is open to organizations interested in data center operational efficiency at the Contributor, General or Associate member level. Additional information is available at www.thegreengrid.org.