



NET ZERO DATA CENTER POWER USE WITH GREEN REVOLUTION COOLING

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Stockholm, Sweden, November 1, 2011 – Green Revolution Cooling (GRC), developers of the CARNOTJET™ system, a high-performance fluid-submersion cooling system for OEM servers, is announcing an installation at the Royal Institute of Technology (KTH) that can reduce net data center power use to zero by producing reusable waste water at 50°C.

Researchers in Stockholm began an evaluation of Green Revolution Cooling's dielectric fluid submersion technology in July of this year. The CARNOTJET™ system submerges servers in an open bath of circulating dielectric fluid that captures 100% of server heat. Heat is removed by the dielectric fluid to a heat exchanger, where the fluid transfers the heat to water. At 50°C, the water is hot enough to pump to nearby buildings for heat.

An output of 50°C water significantly exceeds the Class W5 liquid cooling standard for reusable waste water set forth in ASHRAE's 2011 Thermal Guidelines for Liquid Cooled Data Processing Environments. Remarkably, this has been achieved in Stockholm using commodity servers, standard x86 server architecture, and heat sinks made for air rather than liquid. In the coming months, researchers will attempt to achieve even greater efficiencies by using heat sinks designed for liquid.

To read more about this installation and to see case studies documenting and detailing other GRC installations, please visit the Downloads section of GRC's website, www.grcooling.com.

ABOUT GREEN REVOLUTION COOLING

Green Revolution Cooling (GRC) is an emerging leader in fluid-submersion cooling technology. Founded in 2008, GRC is an Austin, Texas-based company that has installations at four of the top-50 supercomputing sites internationally and is approaching a total installed capacity of one megawatt.

ABOUT ROYAL INSTITUTE OF TECHNOLOGY

Royal Institute of Technology (KTH) is the leading scientific research institution in Sweden. PDC, or ParallellDatorCentrum, is home to the Lundren cluster, #44 on the Top-500 supercomputing list.

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