

December 1, 2009

Austin, TX:

Green Revolution Cooling (GR Cooling) announced today that it has been awarded a National Science Foundation (NSF) Small Business Innovation (SBIR) Grant to support benchmarking of its CarnotJet™ dielectric fluid submersion cooling system. GR Cooling will demonstrate its ability to cool high power densities and overclocked CPUs while reducing data center power consumption. The Texas Advanced Computing Center (TACC), recently ranked as one of the top 5 supercomputing facilities in the world, will perform the benchmark studies.

The EPA reports the amount of power used by data centers will triple to nearly 3% of US electricity by 2011, up from 1% in 2000. The poor heat capacity of air results in inefficient cooling and also limits data center power densities, at a time when demand for density is quickly increasing. The Green Revolution Cooling CarnotJet™ system reduces cooling energy required by 90%, and provides for much higher power densities, by utilizing a dielectric fluid coolant (GreenDEF™), which is vastly more effective at heat removal than air. Overall, the CarnotJet™ system decreases total data center energy use by 45% over current best practices, all while having significantly lower infrastructure costs than a conventional air-cooled data center.

Christiaan Best, GR Cooling Chief Technology Officer, commented, "This award provides independent, peer-reviewed validation of our technology to showcase its potential to both drastically reduce cooling needs while providing powerful cooling for high power densities."

To learn more, please visit GR Cooling's website at <http://grcooling.com/>

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