



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

ENERGY SERVICES
DEPARTMENT

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RAYMOND E. DUBOSE
Director

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Dear AASHE:

UNC Chapel Hill has among the most sophisticated district energy supply and metering systems of any higher education institution in the country. Our 32 megawatt combined heat and power system and 50,000 ton networked chilled water system provide steam, electricity, and chilled water to more than 150 buildings on campus. Each building served has real time meters able to measure steam, chilled water, and electricity use.

Real time revenue grade steam, electric, and chilled water meters were installed starting in 2004. The chilled water meters enabled Chilled Water Systems to become a stand-alone, self-supporting campus utility in 2005. 90% plus of our electric load metering is real time with active projects to connect additional meters to the central system.

The first building on campus with an Energy Dashboard is the Morrison Residence Hall. A project to provide real time dashboards for all campus buildings is scheduled to be completed in Spring 2011. This project will permit members of the campus community to view real time and historical energy metering information, generate awareness of energy consumption patterns, and foster energy conservation efforts with the entire campus community.

The University is also in discussion with the local water utility about adding wireless communications to water meters so that real-time water consumption information will be available to the campus community through the dashboard.

UNC Chapel Hill has invested heavily in reliable, state-of-the art utility systems and metering networks. The information gathered by these meters enables UNC to improve the efficiency of its central utility systems and individual buildings, and to accurately bill receipted-supported customers for their energy use. We look forward to making this harvested information more transparent to the larger campus community in the near future.

Sincerely,

Raymond E. DuBose, P.E.
Director, Energy Services
UNC Chapel Hill