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ENERGY SERVICES
DEPARTMENT

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Reducing greenhouse gas emissions and understanding and reducing the effects of climate change relies on new teaching, research, and outreach strategies to engage the campus community and beyond.

The online Energy Dashboard, developed by UNC's Energy Services department, includes data on more than 200 campus buildings. The graphic display provides hourly, daily, weekly, monthly, and near real-time data for steam, electricity, chilled water, and solar use, and will eventually provide monthly data for water use. Making that data visible to the Carolina community enables building occupants and maintenance personnel to see the impact of their actions and behaviors. With immediate feedback, people learn what changes and practices are effective and are empowered to do more.

The online energy dashboard went live in November 2011 with data for 150 campus buildings. The dashboard grew out of the University's first Climate Action Plan, which emphasized decreasing energy demand and changing energy sources as the most effective ways to reduce the University's carbon footprint. The dashboard was preceded by a cross-campus survey, focus group meetings, and the Energy Task Force that was convened in 2010 to discuss the University's energy policies.

The Energy Dashboard is available online at https://itsapps.unc.edu/energy/#. Campus users can download the data to Excel in order to compare building energy use, monitor consumption, and visualize trends. Users can:

- View near real time energy consumption data for buildings on campus by available utilities
- View consumption information in daily, weekly, monthly and yearly intervals
- See a building's annual carbon footprint
- Incorporate weather information to obtain weather-normalized trends
- View the building load profile. For example, electricity 50%, steam 10%, chilled water 40%
- View additional building information such as building type and building square footage
- Download data into other applications such as Microsoft Excel, Word or Adobe Acrobat PDF
- Make hourly, weekly, monthly and yearly comparisons with previous periods in each building

Sincerely,

Philip C. Barner
Director, Energy Services