**Brainstorming from November 2 Buildings working group meeting**

**Mission**  
Create, preserve, and operate buildings that meet or exceed University needs in a sustainable and efficient manner and effectively communicate and demonstrate these values to current and future generations.

**General concepts leading to mission**  
Influence  
Change behavior  
Evaluate expectations  
Meet university needs  
Measurement goals  
Education/ buy in  
Energy reduction  
Innovation  
Lead by example / push the limits  
Recognition / toot our own horn

**Buildings**  
Buildings that are maintainable well into future systems, finishes  
Optimize space utilization  
Building systems that can meet needs requirements  
Develop building system standards  
Buildings are shelter they can help shelter us from the rough economic times by being well designed executed maintained  
Partners Building? Same level of commitment  
Getting centennial/private buildings to match our sustainability commitment  
Incorporate system/state mandates, understand all mandates develop working plan  
Historical renovations  
Greening existing buildings  
Use more operable windows and day lighting strategies in our buildings  
Master plan versus optimize layout/orientation  
Consider reuse  
Efficient use of space/function  
Scheduling  
Funding – competing for funds that might otherwise go to program  
Reuse of structure  
Use latest technology to reduce energy costs  
Retrofitting existing buildings

**Land Use**  
Create exterior spaces that celebrate the “green” features (signage, sitting areas, artwork placement)(BMP’s, etc)  
Storm Water master plan and/or dealing with storm water on site  
Site location orientation  
Drainage – storm water management and collection

**Energy and Water**  
Minimize energy usage  
Maintenance – staff to keep equipment at high efficiency – funding for repairs, regular audits, inspections, etc.  
Building energy use. – HVAC – 100% outside air – lighting  
Realistic targets that are not cost prohibitive, i.e. no 50% energy reduction targets by 2015  
buildings use about 40% of energy and resources in the world – NCSU needs to reduce use by 40% or more  
Innovative HVAC/lighting that is intuitive  
Temperature set backs? Problems in lab buildings?  
 Insulation, reflection/absorption  
NC State temperature standards  
Efficiency encompasses: economic long term, attitude – environmental stewardship and health – social Attitudes of inclusion  
Daylighting  
Efficiency in buildings is key: energy, water , and resources  
Energy efficient building systems  
Make departments more accountable for the energy they use (pay for their own utilities)  
Innovative water reduction strategies  
Where does most of the energy go today? Lab buildings?

**Academics**  
NCSU B buildings should have informational signage to explain how each building has addressed “green” issues  
Bring school children to campus to show them what we are doing to improve building efficiency – greenness  
Commitment to embrace new and innovative technologies, even if payback is slow or non-existent  
Education of maintenance staffs (as users, evangelists)(buy – in)  
Our students are influenced, for good or ill, by our example. If we take care of Buildings (or not) they notice this. If we have good buildings, they notice  
student buy in generated for increase in efficiency  
What are expectations of campus facilities? Dorms with AC  
What technologies are available  
Integrated technology (systems talking)

**Materials and Purchasing**  
Renewable resources  
Building materials to be selected with a priority given to those within 500 miles  
use of durable, low-maintenance materials  
Local materials (if brick, then NC brick)  
Recyclable materials  
Recycled materials

**Transportation**  
Make bicycling a higher priority as an alternative mode of transportation (better paths, racks, signage)  
Commitment to provide facilities that enhance sustainability, even if not directly more sustainable from the buildings standpoint – showers and locker rooms for bicycle commuters for example  
Traffic & parking efficiencies

**WRR**  
Encourage Departments to use large bottles of H2O instead of individual bottles, let the “culligans” do that recycling