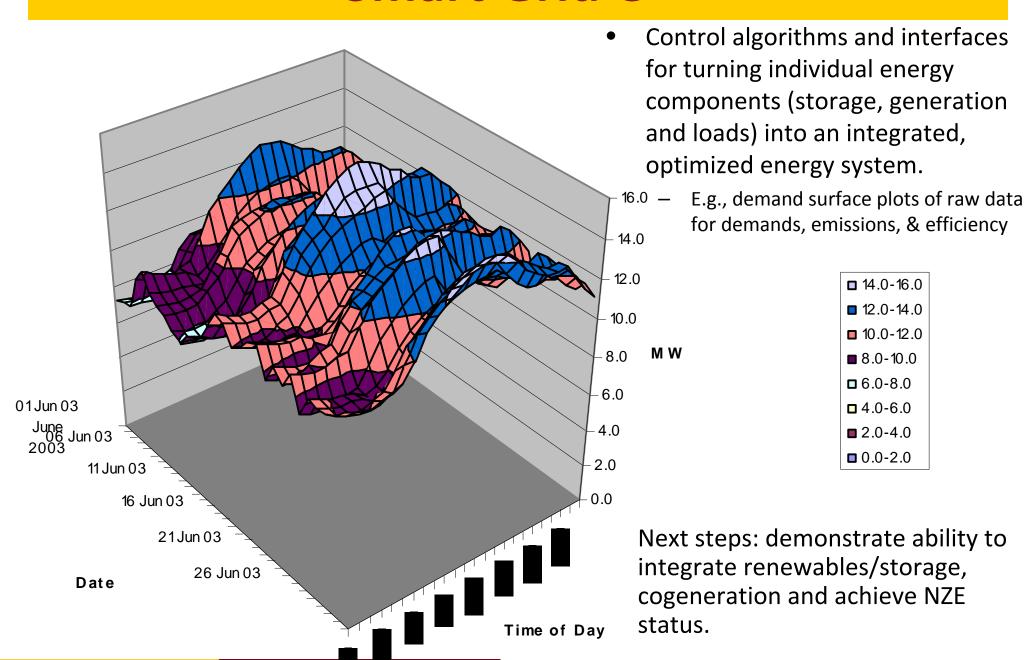
Smart Grid U™

- Goal: transform the University of Minnesota's Twin Cities' campus into a SmartGridU.
 - Develop system models, algorithms and tools for successfully integrating the components (generation, storage and loads) within a microgrid on the University of Minnesota campus.
 - Conduct "wind-tunnel" data-driven simulation testing of smart grid designs, alternative architectures, and technology assessments, utilizing the University as a living laboratory.
 - Roadmap to achieve a "net zero smart grid" at the large-scale community level – i.e., a self contained, intelligent electricity infrastructure able to match renewable energy supply to the electricity demand.

Smart Grid U™



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Leadership Institute

Smart Grid U™

- Lessons learned and key messages:
 - Consider all parts together (Holistic Systems approach)
 - Focus on Benefits to Cost Payback
 - Remove deficiencies in foundations
 - The University as a Living laboratory
 - Education and Research -> Implement new solutions