Leveraging Technology to Conserve Resources

Natural Gas Combustion Turbines

- Clean Burning Natural Gas
- Produces Electricity at Less Cost
- Co-Generation
  - Produces One-Third of Campus' Electricity
  - Utilizes Waste Heat to
  - Produce Steam that Keeps Campus Warm

Thermal Energy Storage (Ice)

- Good for the Environment
- Produces Ice at Night
- Saves Money
- Reduces Electricity Demands During Peak Hours

Data-Driven Decision Making

- Monitor Campus Energy Use to Improve Operational Efficiency
  - Operate Plants in Close Parallel
  - Ride Out Short Duration Peaks
  - Expand Thermal Energy Storage Operation

- 11 million square feet; 60,000 students and faculty/staff
- Three interconnected on-campus plants serve more than 130 campus buildings

Plants produce and distribute chilled water, steam, electricity, and purified water

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