Sustainability

A Commitment over Time

October 9, 2007
The Global Vision

- Stop global warming
- Reduce greenhouse gases by 80% by mid-century
- Zero carbon footprint
- Off the grid
- Climate neutral
- Renewable energy
Our Sustainability Components

- Board resolution
- Renewable energy study
- LEED certification
- Environmental Impact Report
- Presidents Climate Commitment
Board Resolution 2004-720-12a

- Make facilities into models of efficiency
- Build projects to LEED – at least certified
- Develop an Environmental Stewardship Building Design and Implementation Plan
- Seek financial incentives
- Report to the Board annually
Renewable Energy Study

- Background
- Related photovoltaic projects
- Installers and other system vendors
- Grants, rebates and incentives
- Demand response / capacity bidding
- Financing options
- Next steps
LEED Certification

- Types of certification:
  - New Construction (NC)
  - Existing Building (EB)
  - Commercial Interiors (CI)

- Point system:
  - Certified
  - Silver
  - Gold
  - Platinum
Environmental Impact Report

- Evaluate by categories
- Identify Impacts
- Identify Mitigation Measures
- Select Preferred Project / Alternative
- Monitor mitigation throughout project
Presidents Climate Commitment

☐ Institutional structure (11/15/2007)
☐ Tangible actions*
☐ Greenhouse gas inventories (9/15/2008)
☐ Final climate action plan (9/15/2009)

*Next page
What are the tangible actions?

- Build to a minimum of LEED Silver
- Purchase only ENERGY STAR products
- Offset air travel greenhouse gases
- Encourage public transportation
- Purchase 15% renewable energy
- Support endowment shareholders
- Participate in RecycleMania
What are the tangible actions?

- Build to a minimum of LEED Silver
- Purchase only ENERGY STAR products
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- Encourage public transportation
- Purchase 15% renewable energy
- Support endowment shareholders
- Participate in RecycleMania
What does the bond cover?

- PE photovoltaics
- Most LEED-NC credits
- Some LEED-EB credits
- Most EIR mitigation
What does the bond not cover?

- Additional photovoltaics beyond PE
- Presidents Climate Commitment
- Ongoing operational activities
- Board policies
- Programs and procedures
- Reporting
Ongoing Operational Activities

- Animal and vegetation pest control
- Fertilizer use
- Cleaning of building exterior
- M&O staff training
- Waste reduction
Board Policies

- Mercury-containing light bulbs
- Environmental tobacco smoke control
- Sustainable purchasing
Programs and Procedures

- Alternative fuel vehicle and carpool/vanpool promotion programs
- Best practices equipment preventive maintenance program
- Recycling program
Reporting (typ. quarterly)

- Building systems monitoring
- Cost data on building operations
- Cost data on sustainable product purchases
- Absenteeism and health care cost reduction
Overlapping Initiatives

- PCC
- EIR
- PV
- LEED
Overlapping Initiatives

Resolution

PCC

EIR

PV

LEED
Purchase or produce at least 15% of our institution’s electricity consumption from renewable sources
PCC / LEED

- Adopt 3 or more associated measures to reduce waste
- Conduct a waste stream audit, then develop and implement a waste reduction policy
Encourage use of and provide access to public transportation

Create a Transportation Demand Management Plan

Implement an alternative fuel vehicle and carpool/vanpool promotion program
LEED / EIR

- Bioswales
- Captured rainwater
- Reduced runoff
- Pervious surfaces
- Erosion and sediment control
- Stormwater pollution prevention
Who will this require?

- Board of Trustees
- LEED Coordinator
- Maintenance & Operations
- Modernization Team
- Communications Department
Who will this require?

- Fiscal Services
- Human Resources
- Information Technology
- Consultants
- Faculty
Who will this require?

- President’s Sustainability Task Force
Cost?

- Dedicated staff
- Some consulting fees
- Payback on photovoltaics (from savings)
Next Steps

- Follow up on photovoltaic study
- Endorse staffing requirements
- Applaud commitment!