

Villanova University Sustainability Initiatives

Radnor Township
Environmental Advisory Council
March 26, 2008

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Director of Engineering and Construction



FACILITIES MANAGEMENT
VILLANOVA
UNIVERSITY

Agenda

1. President's Climate Commitment
2. Current Initiatives on Campus
3. Benefits to the University

President's Climate Commitment

- Signed by over 500 Colleges and Universities
- Commitment to become “Climate Neutral”
- Greenhouse Gas Inventory (GGE)
- Plan to offset all carbon emissions

<http://www.presidentsclimatecommitment.org>

President's Climate Commitment

- Father Peter Donohue signed in September, 2007
- Committee in place to satisfy commitment
- GGE Inventory in progress:
 - ✓ Utility Consumption
 - ✓ Fuel usage
 - ✓ Travel / Commuting

President's Climate Commitment

- Recommended interim actions:

- ✓ *LEED Silver Buildings*

- ✓ *RecycleMania*

- ✓ *Investment Strategies*

- ✓ *Energy Star policy*

- ✓ *Public Transportation*

- ⇒ Air Travel Offset

- ⇒ Renewable Energy Credits

Current Initiatives on Campus

LEED Certified Buildings

New College of Nursing and Law School Buildings

- ✓ 40% Reduction in water usage
- ✓ Energy Efficient HVAC and Lighting
- ✓ Thermally efficient roofing system
- ✓ Recycled content in materials
- ✓ “FSC Certified” Wood Products
- ✓ Low VOC products
- ✓ Recycling construction debris
- ✓ Locally produced materials

...Pursuing SILVER on both projects...

Current Initiatives on Campus

Recycling

- Dedicated Recycling Coordinator
- One of the Leading Colleges in the State
- Recycled >12 Million pounds since 1990
- >25% of waste is recycled
- Recycle over 20 different products
- Participate in the Recyclemania competition

<http://www.recyclemaniacs.org>

Current Initiatives on Campus

Dining Services

- Organic Foods
- Sustainable Seafood Initiative
- Fair Trade Products
- Sustainable utensils / products
- Recycling of food waste



Current Initiatives on Campus

Research Activity

- Villanova Center for the Environment
- Green Roofing →
- Solar Power



Recent installation on the CEER Building

- Geothermal
- Pervious Pavements
- Alternative Energy



Current Initiatives on Campus

Stormwater Management

- Urban Stormwater Partnership

www3.villanova.edu/VUSP

- Water Resources Research

- Experiments of various pervious pavements

- Dr. Robert Traver:

*Nationally Recognized Leader in
Stormwater Management*



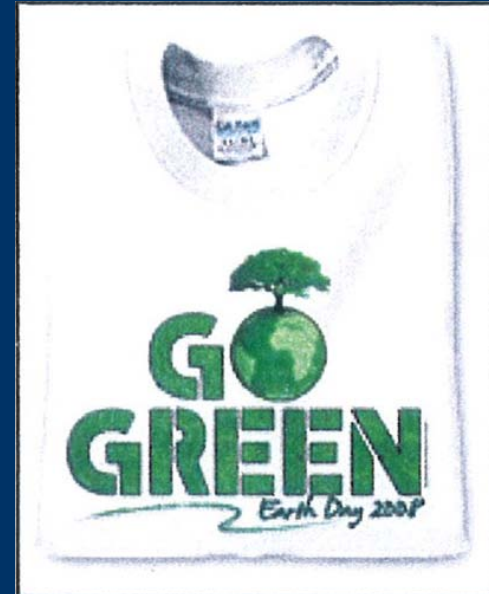
Current Initiatives on Campus

Earth Day Event

- Volunteer event held on campus each year
- Industry Speakers
- Corporate displays
- Student posters and displays
- Open to the Public

Event Info:

Thursday 4/18 and Friday 4/19



Current Initiatives on Campus

“Year of Sustainability”

- Academic Year of 2008-2009
- Joint effort between Arts & Sciences and Engineering
- Evaluate opportunities to incorporate sustainability into the curriculum
- Conferences / Symposiums / Expo
- Lecture Series
- Cross Functional

Current Initiatives on Campus

Environmental Leadership Learning Community

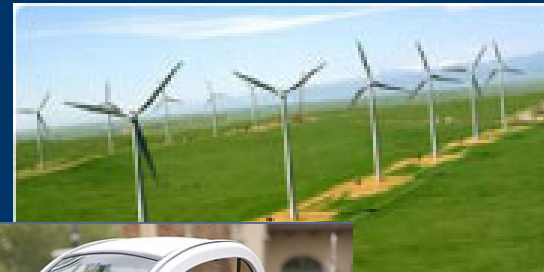
- Living and Learning Community
- Interdisciplinary
- Focus on texts from the Ancient to Modern period
- Students share classroom experiences
- Lectures, Films, and Community Service
- All students live in the same Residence Hall



Current Initiatives on Campus

Other Activities

- Residence Hall Renovations
“Model of Sustainability”
- Dorm Energy Competition
- Commuter Benefit Plan
- Energy Star Policy
- Renewable Energy
- Electric Cars



Benefits to the University

- **Reduced Impact on the Environment**

- *Collective goal of the University*

- *Increased Awareness*

- **Cost Beneficial**

- *Reduction in utility consumption*

Example: New Law School will use > 1 Million less gallons of water per year.

- **Occupant health and comfort**

- *Increased daylight in occupied spaces*

- *Increased ventilation*

Questions / Comments ?

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