Sustainability at Wayne

December 5, 2012
WSU supports sustainability and energy conservation by promoting and developing programs that enhance environmental stewardship on and around the campus community.
Campus-wide Initiatives

- Office of Campus Sustainability
  - Switch it Off! Campaign
  - Recycling
  - Student activities (e.g. Better Block)
  - WSU Farmers Market season
  - Annual e-waste event, Cell phone recycling
  - Increased number of bicycle racks around campus
  - Water filling stations in six locations
  - Enhancing environmental stewardship in campus culture
  - Developing Strategic Sustainability Plan

- Energy Management
  - Green Roofs
  - Energy Curtailment Committee
  - Monitoring Center
  - Lighting Retrofits
  - Siemens Performance Contract
Established May 2011 within FP&M

Promotes behavioral change/campus education for students, staff, faculty and campus visitors through:

- Energy Management
- Recycling
- Environmental Stewardship
- Earth Week
- Film Series
- Tours/Videos
- Community Outreach
- Farmer’s Market
Switch it Off Campaign

Energy efficiency campaign examples

- Turn off lights when not in room
- Shut down computers when not in use
- Unplug small appliances when not in operation

A/AB Conservation Challenge resulted in a 11% reduction in electrical usage!
Recycling Facts

Did you know?
Americans throw away more paper than any other material. Paper makes up 29% of all trash.

Did you know?
Refillable water bottles are a good way to keep plastics out of landfills and oceans.

Make a change.
Reduce, Reuse, Recycle.
Source: epa.gov
Recycling Collection

Live Green ... keep Wayne State CLEAN!

Solar-Powered Trash Compactor
Powered by BigBelly® Solar
Recycling Results

Recycling Comparisons

April – June 2011
49 tons recycled

April – June 2012
65 tons recycled

A 35% increase!!!

Recycled Materials

<table>
<thead>
<tr>
<th>Year</th>
<th>Tons Recycled</th>
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<tr>
<td>2011</td>
<td>49</td>
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<td>2012</td>
<td>65</td>
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WM Sustainability Services April - June 2012 Recycling Benefits for WSU

In April - June 2012 we recycled 65 tons of Cardboard, Paper, Cans, Plastic Live Green, Keep Wayne State Clean!

These recycling efforts conserved the following resources:

- 780 Mature Trees were Saved
  Representing enough saved timber resources to produce more than 9,670,100 sheets of newspaper!

- 244 Cubic Yards of Landfill Airspace
  Representing enough airspace to fulfill the municipal waste disposal needs for 313 people for one year!

- 304,523 Kw-Hrs of Electricity from Recycling
  Enough power to fulfill the annual electricity needs of more than 25 homes!

- 140 Barrels of Oil
  Representing enough energy to heat and cool more than 29 homes for one year!

- Avoided 533 Metric Tons (MTCO2E) of GHG Emissions
  The recycling of these materials prevented these GHG emissions!

- 409,640 Gallons of Water
  Representing enough fresh water to meet the daily fresh water needs of more than 5,461 people!

Energy Management

Initiatives:

• Green Roofs
• Energy Curtailment Committee
• Monitoring Center
• Lighting Retrofits
• Unit Level Budgeting and Measurement
• Implement Siemens Performance Contract
Green Roofs

A. Paul Schaap
Chemistry Building

Damon J. Keith
Center for Civil Rights
Established April 2011

Multi-unit team focused on implementing energy conservation measures across the campus.

Committee efforts focus on:

- Lighting
- HVAC
- Irrigation
- Insulation
- Steam Traps
Monitoring Center

- Established March 2012
- Ability to monitor alarms, HVAC systems, emergency generators, and other critical systems
- Better building system performance and increased energy efficiency
Impact of Energy Conservation Measures

Initiatives:

- Huron Initiatives – Pilot Utility Project & Siemens Performance Contract
- Lighting Retrofits
  - DEGC Grant
- LEED Designed Buildings
  - Danto certified LEED Silver
- Campus Steam Plants
- Classroom HVAC Upgrades
- Fitness Center Domestic Hot Water System
Wayne State recognizes that Sustainability is critical to the University’s long term success.

Office of Campus Sustainability has had good success in promoting awareness and initiatives.

All new construction projects target LEED certification.

Energy Management has been successful in reducing consumption and cost.
Questions?

facilities.wayne.edu  livinggreen.wayne.edu