

## **SUMMARY OF ENVIRONMENTAL STEWARDSHIP RECOMMENDATIONS PHASE 1 – JANUARY 2008**

As part of the Boldness By Design umbrella, Environmental Stewardship is a systemic program being implemented to “simultaneously reduce the University’s environmental footprint and increase the efficiency of its materials and energy usage.” After a yearlong study by a team of student, faculty, and staff, the following recommendations were presented to, and are supported by, Vice President Poston and Provost Wilcox. **Specific goals have been set, and Units / Departments will be held accountable to meet them.**

For more complete details on any of the recommendations, or the research data that led to them, please refer to the January 17, 2008 Environmental Stewardship Recommendations – Phase I document distributed by Sharri Margraves.

### **Systems Management**

- Campus-wide Systems Monitoring & Analysis for Energy Usage & Material Waste
  - Data will be collected by building for energy consumption, material inputs, recycling and waste outputs.
  - This will allow better tracking of impact from conservation campaigns.
  - Geographical Information System (GIS) will allow transparency – visual method for campus & community to view impact of changes.
- Transition recycling & waste removal to back docks – custodial staff will remove from offices instead of recycling staff.

### **Energy Reduction**

- To meet MSU’s commitment to Chicago Climate Exchange of 6% greenhouse gas reduction by 2010, MSU will reduce energy consumption in each of 579 buildings by 9%: 3% each in HVAC, lighting, and computer/other equipment usage.
- All remodeling/renovation projects with less than 5000 sq. ft. will meet standards for environmental stewardship best practices. Previously, this only applied to projects over 5000 sq. ft.
- At least 6% of fuels burned at the Power Plant will be from renewable sources, biomass, or comparable sources.
- Engineering studies will be implemented for outdated fume hoods and obsolete control technologies.
- HVAC Commissioning Team will develop aggressive 3-year plan to prioritize buildings for “tune-ups” in order to achieve minimum of 5% electrical savings.
- Policy will be developed regarding building requests for extended HVAC running times.
- Classroom scheduling will be consolidated to conserve energy.
- General fund computer lab hours and numbers of computers will be decreased, and energy-saving hibernation technology for lesser used labs will be implemented.

- A plan for installation of occupancy sensor lighting in all 330 general fund classrooms will be developed / implemented.

### **Materials Strategies**

- Phase I of recycling plan will be implemented – collect 5 materials in every building: white paper, mixed paper, newspaper, cardboard, and plastic (#1 & #2). MSU must double current recycling volume to support new \$13.3M recycling facility just approved by the BOT Jan. 18. We are behind other institutions in this area.
- Attractiveness, ease of use, and functionality of recycling containers will be enhanced.
- Duplex printing will be default setting on current & new equipment. This should reduce paper consumption by 30%.
- Purchase recycled paper – goal is at least 75% of white paper purchased will be recycled content by fall 2009.
- Phone directories will be provided upon request only.
- Pack Up, Pitch In will include new partnership with East Lansing.

### **Purchasing**

- “Take Back Programs” will be leveraged through purchasing contracts to reduce material outputs. This will include MSU Surplus Store and printer/toner cartridges.
- Campus, building, and unit level equipment purchasing will be tracked for plug load, Energy Star rating, recycled content, eco-labels, certification, etc.

### **Behavior / Culture Change**

- Building-level Environmental Steward Teams will be created to assist in implementing best practices and communication.
- **Units/departments will be required to undergo certification process – they must demonstrate how they follow best practices. Incentives and public recognition will be involved. If all Units within a building become certified, building will be certified.**

### **Communications**

- Systemic Environmental Stewardship Campus Education and Communications Program will be developed to educate, influence and inform campus community.
- White Paper will be published to highlight MSU’s innovative systems and processes.