

**Washington State University - Pullman
Environmental Management System
Annual Report for Calendar Year 2009**

- 1. A statement indicating the time period covered by the report.**

January 1, 2009 through December 31, 2009

- 2. A statement which indicates that the EMS elements described in the original application are still operative. The facility should indicate that an assessment of these elements has been completed, and describe the results of the assessment.**

All elements of Washington State University's Environmental Management System described in the original application remain operative. An external audit of WSU's EMS was conducted in March 2009. The audit found the EMS remains effective in preventing pollution, reducing waste and improving the university's overall environmental performance.

- 3. A description of any significant changes in the EMS elements, or any relevant changes to the overall EMS of the facility.**

None.

- 4. Report on progress towards objectives and targets, including any problems encountered. When possible, include or reference quantitative data on hazardous substance and hazardous waste reduction, air or water pollutant reduction.**

See below.

WATER

Objective 1: Reduce water consumption by 3,200,000 gallons per year

Target 1: Reduce water consumption by 1,000,000 gallons by March 2008

- Target 1 was met
 - WSU implemented operational changes at its medical waste incinerator and equipment upgrades at two chiller plants and two steam plants which resulted in decreased water consumption of more than 1,000,000 gallons. Data gathered from monthly water use reports.

Objective 2: Reduce wastewater disposed to the Pullman Publically Owned Treatment Works by 363,000 gallons per year

Target 1: Reduce wastewater disposal to the Pullman POTW by 100,000 gallons by March 2008

- Target 1 was met
 - Operational changes at the medical waste incinerator and equipment upgrades at two chiller plants and two steam plants resulted in reduction of wastewater to the Pullman POTW by 100,000 gallons. Data gathered from monthly discharge reports.

Objective 3: Improve public storm water outreach and education

- Target 1: Conduct stormwater workshop for WSU students
 - A stormwater workshop was conducted on December 2, 2009 as part of “Stormwater Awareness Week”
- Target 2: Place stormwater training/education on MyWSU
 - Stormwater training/education material was developed by students from ESRP 490/590 in December 2009. This material will be placed on a WSU webpage during Spring semester 2010.

Additional Accomplishments: WSU continued to improve its water use efficiency in 2009. In 2007 WSU consumed 502,977,504 gallons of water. In 2008 this fell to 501,012,598 gallons and in 2009 it dropped further to 478,967,995 gallons. This represents a reduction of over 35% from 1984, when WSU water usage peaked, despite significant increases in student population and building square footage. This improvement is a result of ongoing long-term efforts to identify and replace water wasting equipment, identification and repair of broken pipes and other water saving programs.

AIR

Objective 1: Complete green house gas inventory on a yearly basis

- Target 1: Submit a 2008 greenhouse gas inventory for WSU Pullman by December 31, 2009 to Climate_Commitment.org
 - The 2008 greenhouse gas inventory was completed and submitted in March 2010.
- Target 2: Conduct a student/faculty/staff commuter survey for WSU Pullman by December 31, 2009
 - A student/faculty/staff commuter survey was conducted in 2009.
- Target 3: Initiate development of a Climate Action Plan
 - A climate action plan was initiated in 2009.

Objective 2: Modification of WSU boilers to use alternative boiler fuels

- Target 1: Conduct a feasibility study and do a cost analysis on an alternate fuels conversion of boiler #8

- A feasibility study and cost analysis was performed on conversion of boiler #8 to alternate fuels.

HAZARDOUS MATERIALS

Objective 1: Eliminate PCB containing (2-50ppm) oil from WSU owned electrical equipment on campus

- Target 1: Remove 100% of the remaining 6,620 lbs of 2-50 ppm PCB containing oil by December 31, 2009
 - Target 1 was met. 100% of the remaining 2-50 ppm PCB containing oil was removed.

Objective 2: Post health, safety and emergency response signage at laboratory doorways throughout campus

- Target 1: 50% of laboratories signed by December 31, 2009
 - Target 1 was met. 52% of laboratories were signed.

FACILITY DESIGN, CONSTRUCTION AND MAINTENANCE

Objective 1: Continued training of WSU designers, project officers, and construction engineers/coordinators

- Target 1: Develop yearly training program which includes timely topics and updates by December 31, 2009
 - Target 1 was met. A training program for WSU designers, project officers and construction engineers/coordinators was developed.

FOOD

Objective 1: Replace traditional take out products with biodegradable alternatives

- Target 1: Investigate options for new vendor for biodegradable coffee cup lid that will not crack by December 31, 2009
 - A new vendor supplied a biodegradable coffee cup lid. However, it was not compatible with the biodegradable coffee cups. Dining Services continues to search for a functional biodegradable coffee cup lid.
- Target 2: Work in collaboration with Food Services of America to test compostable dinnerware from a new vendor by December 31, 2009
 - A vendor, Cedar Grove, was found and is now the supplier for single use, compostable dinnerware for Dining Services

ENERGY

Objective 1: Continued reduction in average annual avoided energy use by 3,412 MMBTU (equivalent to 1,000,000 kWh)

- Target 1: Reduce average annual avoided energy use by 3,412 MMBTU through projects at Fulmer Hall and the East Campus Chilled Water Plant
 - Target 1 was met. Both the Fulmer Hall and east Campus Chilled Water Plant projects were completed in 2009 with annual avoided energy use of 7,988 MMBTU.

Additional Accomplishments: Completed Sloan Hall HVAC upgrade (1,622 MMBTU) and Greenhouse 114/119 lighting upgrades (1,544 MMBTU) for an additional annual energy use avoidance of 3,166 MMBTU.

WASTE MANAGEMENT

Objective 1: Increase student involvement in planning and promotion of recycling activities – ongoing

- Target 1: Launch “Know Where to Throw” campaign, created by Associated Students of WSU, by December 31, 2009
 - Target 1 was met. The “Know Where to Throw” campaign was launched during 2009.

Objective 2: Increase availability of recycling containers throughout campus – ongoing

- Target 1: Distribute 30 new recycling containers near exits of campus buildings by December 31, 2009
 - Target 1 was met. More than 30 new recycling containers were distributed in 2009.

Objective 3: Explore diverting rendering wastes to compost

- Target 1: Investigate possibility of composting animal carcasses and bedding (rather than shipping or incinerating) by December 31, 2009
 - A feasibility study of composting animal carcasses and bedding was conducted. The process (in-vessel composting) is technically feasible for many waste streams but it is still unclear if it will be economically viable.

PROCUREMENT

Objective 1: Continued promotion of green catalog throughout campus

- Target 1: Promote green purchases to faculty, students and staff by various means including WSU Announcements and possibly hosting a green catalog product show on campus by December 31, 2009

- Target 1 was met. On December 1, 2009 a “Sustainability Fair” was held at the Student Union Building emphasizing green purchasing opportunities to WSU departments.

New Objectives and Targets for 2010:

WATER

Objective 1: Improve stormwater management on campus

- Target 1: Develop and implement stormwater Operations and Maintenance plans.
- Target 2: Develop and deliver stormwater education materials for residents and tenants.

AIR

Objective 1: Develop greenhouse gas reduction strategies

- Target 1: Complete a Climate Action Plan to document ways WSU will work to reduce greenhouse gas emissions in the future.
- Target 2: Complete a greenhouse gas emissions inventory for CY 2009.

HAZARDOUS MATERIALS

Objective 1: Design and construct facilities that are more environmental, health and safety conscious.

- Target 1: Create design and construction standards and a commissioning checklist to encourage consistent application of environmental, health and safety standards during the design, construction and commissioning of new or remodeled facilities.

Objective 2: Reduce short term and long term risk and liability from hazardous chemical waste treatment and disposal.

- Target 1: Volunteer to serve on the State of Washington chemical waste disposal services contract re-bid technical evaluation committee.

FACILITY DESIGN, CONSTRUCTION AND MAINTENANCE

Objective 1: Continue supporting green/sustainable design, construction and maintenance activities on campus.

- Target 1: Deliver training to new WSU designers, project officers, and construction engineers/coordinators and provide refresher training to existing staff.
- Target 2: Begin construction of the Global Animal Health building – design and construction to LEED silver standards.

FOOD

Objective 1: Create stronger partnerships with local farmers and businesses

- Target 1: Investigate options to secure partnership with the WSU Tukey Farm with the purchase of local apples (Goal 2,000 lbs.) by December 31, 2010
- Target 2: Work to expand partnership with WSU Organic Farm by December 31, 2010
- Target 3: Plant an organic herb garden adjacent to a WSU dining hall and use the herbs for meals served at the dining hall.

ENERGY

Objective 1: Continue to identify and implement energy use avoidance projects

- Target 1: Conduct an economic feasibility study of in-vessel composting to determine viability as a diversion of animal parts and bedding from incineration.
- Target 2: Participate in a new innovative Department of Energy Pacific Northwest Smart Grid demonstration project with the City of Pullman.

WASTE MANAGEMENT

Objective 1: Continue to explore diverting rendering wastes to compost

- Target 1: Conduct an economic feasibility study of in-vessel composting to determine viability as a diversion of animal parts and bedding from incineration.

PROCUREMENT

Objective 1: Continue to promote green purchasing policies

- Target 1: Establish an official University policy that requires the use of 100% recycled content white paper for most uses, reduce the overall use of paper and recycle paper to the greatest extent possible.
- Target 2: Establish a contract for low product packaging/coreless toilet paper (up to 95% reduction in solid waste) and encourage use across campus.

Management Signature and Date

Rich Heath
Senior Associate Vice President, Business and Finance

Date