

Highlights of MSU's Environmental Footprint Effort

Practices for Environmental Impact Mitigation	Cost & Benefits	Implementation
<p>1. MSU is considering the installation of a "Vegawatt Power System" which turns WASTE Vegetable Oil into electricity.</p>	<ol style="list-style-type: none"> 1. Automated production of 5kW of electricity. 2. Reduced electricity demand and energy costs 3. Reduces the carbon footprint. 4. Estimated Annual savings is \$10,836. 5. Environmental footprint reduction. 	<p>STATUS: Planning Stage.</p> <p>Unit requires 80 gallons of vegetable oil per week, and MSU produces 105 gallons per week. Project is very feasible.</p>
<p>2. MSU is considering the installation of a Waste oil heater at the motor pool to augment the existing heating system. The Waste oil produced during the summer months will be stored for usage during the winter months.</p>	<ol style="list-style-type: none"> 1. The cost of the unit is approximately \$5K, and it can provide heat for an area of 5000 sq. ft 2. The heating area of the motor pool is about 6000 square feet. 3. Environmental footprint reduction. 	<p>STATUS: Planning Stage.</p> <p>Unit requires 675 gallons of waste oil per month, and MSU produces approximately 142 gallons per month.</p>
<p>3. MSU currently maintains 1800 square feet of Green Roof and plan to expand its green roof usage.</p>	<ol style="list-style-type: none"> 1. Reduces roof temperature and increases HVAC efficiency. 2. Ecological benefits. 3. Helps with storm water management 4. Roof has a longer life because the membrane is protected from fluctuating temperatures. 5. Environmental footprint reduction. 	<p>STATUS: Implemented and expanding.</p>
<p>4. MSU conserves water by the utilization of automated irrigation systems on the lawns and football fields.</p>	<p>Environmental footprint reduction.</p>	<p>STATUS: Implemented and expanding.</p>
<p>5. MSU has an Energy Management System which is connected to about 80% of the build on campus and the system is expanding.</p>	<p>Conserves electricity by : -</p> <ol style="list-style-type: none"> 1. Scheduling the occupancy of HVAC units. 2. Continually Adjusting the 	<p>STATUS: Implemented and expanding.</p>

	<p>temperature setpoint.</p> <p>3. Utilizing outside air for “free cooling” whenever possible.</p>	
<p>6. MSU Recycles and the recyclables include papers, cardboards, bottles, cans, rubber, batteries, pallets and bulbs.</p>	<p>1. Environmental footprint reduction.</p> <p>2. Receives an average monthly revenue of about \$300.</p>	<p>STATUS: Implemented and expanding.</p>
<p>7. MSU is working with Ohms Energy Company, LLC to conserve electricity via “Demand Response”.</p>	<p>1. Reduced electricity consumption during peak periods.</p> <p>2. Environmental footprint reduction.</p>	<p>STATUS: implementation is in progress.</p>
<p>8. MSU uses environmental friendly cleaning products.</p>	<p>Environmental footprint reduction.</p>	<p>STATUS: On going.</p>
<p>9. MSU is installing energy efficient lighting fixtures on all new buildings.</p>	<p>1. Environmental footprint reduction.</p> <p>2. Reduced electricity consumption.</p>	<p>STATUS: On going.</p>
<p>10. MSU has initiated an energy savings email account which is used mainly for education, suggestions and comments on energy savings.</p>	<p>Environmental footprint reduction.</p>	<p>STATUS: On going.</p>