



Monmouth University
Environmental Assessment:
MOU Semiannual Report
August 17, 2010



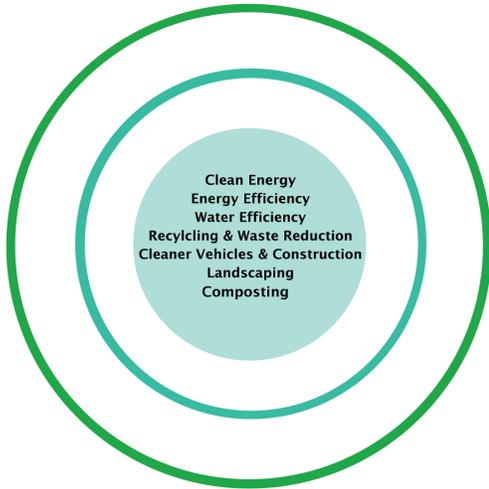
Environmental Protection Agency
Region 2

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Accomplishments

Reductions of 11,299 MTCO₂e



Memorandum of Understanding

On January 16, 2009, Monmouth University signed a Memorandum of Understanding (MOU) pledging to become an environmental steward by implementing a number of green initiatives that would reduce its carbon footprint and further improve our planet's environment. This partnership with the United States Environmental Protection Agency (EPA) and Monmouth University has resulted in reducing energy, water and solid waste production across campus operations.

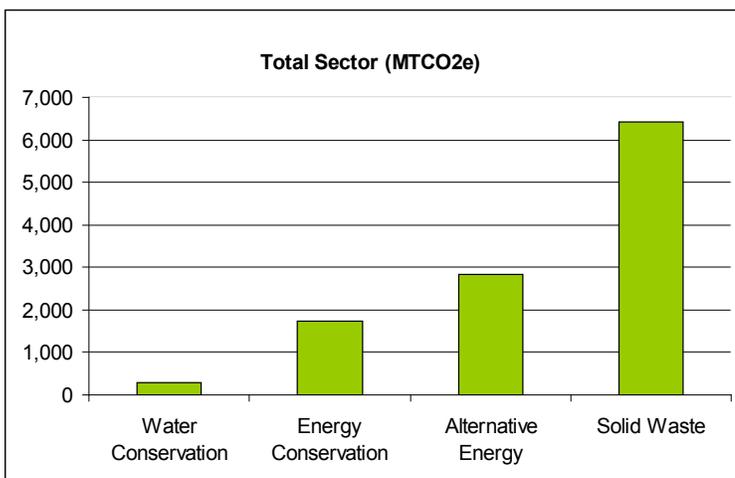
Reduction in Environmental Footprint

In the last two years, Monmouth University has provided three updates documenting their green initiatives. The EPA has analyzed the submitted information and generated an environmental footprint for the organization. Due to the progressive green efforts of the organization, the university has managed to reduce its carbon footprint by 11,299 MTCO₂e.

Environmental Metrics	Total Sector (MTCO ₂ e)
Energy Conservation	1,738
Water Conservation	282
Solid Waste	6,423
Green Landscaping	3
Transportation	7
Alternative Energy	2,846
Total MTCO ₂ e	11,299

*Metric Ton Carbon Dioxide Equivalent

High Impact Initiatives



Continous Improvements

The environmental footprint generated for Monmouth University is an estimate based on current knowledge. Certain environmental data points cannot be converted to carbon dioxide equivalents because scientific models do not currently exist. As calculation methodologies improve, future environmental assessments will be updated to include any greenhouse gas reduction estimates.

Accomplishments

Reductions of 11,299 MTCO₂e



Reduction in Environmental Footprint

EPA used the following environmental conversion models to calculate metric tons of carbon dioxide equivalents:

- Greenhouse Gas Equivalencies Calculator allows different units to be inputted to convert the efforts into scenarios that can be easily communicated to the public
- GHG Conversion Tool May 2009 is a more comprehensive tool that can convert a wide ranging of reduction initiatives like electricity conversation, green energy, fuel substitution, green chemistry, water conservation and materials management
- RECON Model can be used to examine the energy impacts of purchasing, manufacturing of post-consumer recycled content
- Warm Model is used to examine the greenhouse impacts of solid waste issues related to recycling, combustion, composting and landfilling

Accomplishments

Reductions of 11,299 MTCO₂e

Greenhouse Gas Equivalencies

What does the reduction of 11,299 MTCO₂e represent ?

The organization's effort is equivalent to any one of the following statements:

- Annual greenhouse gas emissions from 2,160 vehicles



- Carbon dioxide emissions from 1,270,979 gallons of gasoline



- Carbon dioxide emissions from 26,277 barrels of oil consumed



- Carbon dioxide emissions from the electricity use of 1,371 homes for one year



- Carbon dioxide emissions from propane cylinders 470,792 used for home barbeques



- Carbon dioxide emissions from 151 tanker truck's worth gasoline



- Carbon dioxide emissions from the energy use of 962 homes for one year

