



**RESOURCE CONSERVATION AT ST. MARY'S COLLEGE
MD State Environmental Footprint / Higher Education Summit**

1. Resource Conservation through existing Infrastructure Upgrades

- An Energy Performance Contract managed by DGS has helped reduce our annual energy consumption by about 20%. It consists of 15 energy conservation measures such as interior lighting upgrades, boiler replacement, fume hood conversion, vending machine controllers.
- In-house infrastructure upgrades: will be reducing our annual energy consumption by about 1%. They include outdoor lighting upgrades, motion sensors

2. Resource Conservation through New Construction

New buildings will be Green buildings. Target is LEED Silver certified. Green buildings are 25% to 30% more energy efficient than similar conventional buildings.

3. Resource Conservation through Campus Operational Changes

Several measures such as adjusting room temperature and tightening buildings hours of operation (4-day work week in the summer) are either already being implemented or being evaluated for future implementation.

Operational Changes could reduce our annual energy use by approximately 6%.

4. Resource Conservation through Behavioral Change

An Awareness and Training Program was created several years ago to change the culture in students' residences and promote resources conservation (such as turning off lights and unused equipments, taking shorter showers, recycling). The program was recently expanded to reach out to faculty and staff.

As an example of behavioral change the campus community voted last fall to remove trays at the Cafeteria which will reduce food waste, water and energy consumption.

5. Resource Conservation through on-site renewable energy

The new Muldoon River Center is equipped with a geothermal heat pump system (partially funded by students) that uses 45% less energy to heat and cool the building than a conventional system. We also have a 3KW photovoltaic panel on the Library roof.

We are currently evaluating several systems such solar water heating for residences, wind turbines, or a biomass generator.

6. Offsetting emissions from our energy consumption

Starting two years ago, students have purchased Renewable Energy Credits to offset 100% of our electrical consumption.

The planting of new trees throughout campus also helps offset the college green house gas emissions.

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