



Priority II- Initiatives for next 2-3 Years

Redirecting Our campUS Toward Environmental Sustainability



Water: Toilets

Total High Flow (6.1 gal/ per flush: 119

Gallons Used Per Year: 1,744,512

Cost Per Year: \$ 28,949.67

Total Low Flow (1.6 gal/per flush): 131

Gallons Used Per Year: 520,396.8

Cost Per Year: \$ 8,635.83

If all High Flow Toilets were replaced with Low Flow the initially cost would be \$35,400, but would save:

Per Day: \$94.75

Per student year: \$21,224

Toilets would be paid off in: 373 Days



Motion Sensors:

The average classroom is occupied 32.5 hours per week. If motion sensors were implemented this would mean that lights would be on 17.5 hours less per week. Or 910 hours less per year. Saving approximately \$110 per year, per classroom.



Insulation:

By using an infra-red temperature gun it was found that older buildings have poorer insulation compared to the new buildings.



Energy Star Printers:

Save \$30 a year in energy costs per printer when compared to ordinary printers. They use significantly less amounts of energy, reducing Colby-Sawyer's carbon footprint greatly.



Double Sided Printers:

Colby-Sawyer College currently has approximately 343 printers in use on campus. If we were to switch to network printers we would need only one or two printers per floor compared to 123, saving money and energy.

Pool Cover:

Would have positive environmental impact by reducing energy needs along with costs. With a thermal pool cover, savings of 50 % - 70% are possible. This is around \$2,200 dollars a year.



Recycling:

Expand the recycling program currently on campus to include small recycling bins in each dorm room and office group and recycling centers on more floors of dorms and administrative buildings. **60%** of students would welcome recycling bins in their dorm room and would be more likely to recycle with these bins.

Priority II List:

Green Buildings

Green Fund

Insulation

Motion Sensors

Pool Cover

Printers – Double Sided

Printers – Energy Star

Recycled Paper

Recycling

Water

Recycled Paper:

If CSC switched to 100% recycled paper it would only cost \$4 more per student.



Green Fund:

Green ROUTES' goal is to develop an Environmental Fund for greening initiatives to improve Colby-Sawyer College's impact on the environment. 195 out of the 248 students that participated in Green Routes' survey question agreed to pay an additional \$25 in tuition to establish a Green Fund at Colby-Sawyer.

Green Buildings:

Green building design is a smart thing for Colby-Sawyer to consider and invest in because it would greatly decrease the college's environmental footprint and at the same time, it would provide huge long-term savings.



Financial Benefits of Green Buildings Summary of Findings (per ft²)

Category	20-year Net Present Value
Energy Savings	\$5.80
Emissions Savings	\$1.20
Water Savings	\$0.50
Operations and Maintenance Savings	\$8.50
Productivity and Health Value	\$36.90 to \$56.30
Subtotal	\$52.90 to \$71.30
Average Extra Cost of Building Green	(-\$3.00 to -\$5.00)
Total 20-year Net Benefit	\$49.90 to \$66.30

Source: Capital E Analysis
www.cap-e.com