- developing a new Campus Facilities Master Plan that is environmentally responsible and community-engaging and that will contribute to the College's growth and development plans;
- building a Student Center that is Silver Leed certified;
- expanding campus sustainability and green efforts by establishing a clear policy and supportive programs that reflect the College's commitment to the responsible and ethical use of campus facilities and resources;

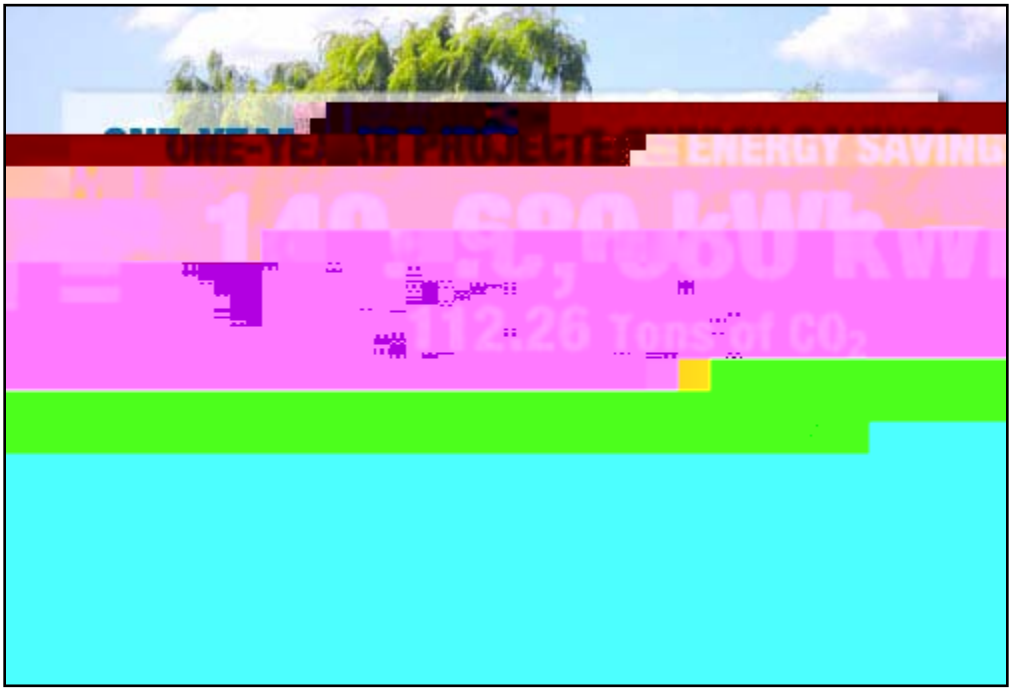
Several academic departments are frequent partners in green curricular initiatives. The Sociology and Urban Studies Program offers a course in Contemporary Social Ideas which examines social ecology: the study of human as well as natural ecosystems in their interrelationships; an examination of the problems of pollution, food and hunger, nuclear power, alternative technologies such as wind and solar, and the environmental crisis. In the Business Administration department, each year Dr. Joyce Henson's Senior Seminar in Business Marketing focuses on projects to help prepare students for careers in energy conservation and recycling.

Since 2007, the College has participated in climate-related educational initiatives, such as the Green Jobs Conference and Focus the Nation, a national forum dedicated to promoting climate change awareness and the creation of the clean energy economy. In 2008 and 2009, Focus the Nation drew together faculty members from nine disciplines discussing "green" practices and ideas. Panels included professors in Biology, Physics, Communications, Political Science, Business and Economics, Fine Arts, Theology, Philosophy and English. This year, Mr. Omar Freilla, the founder of Green Worker Cooperatives, was the Earth Week Lecturer. He spoke on Green Jobs and Environmental Justice. Ernabel Demillo, lecturer of communication, spoke on the Greening Movement, U.S.A. Saint Peter's College plans to continue and expand its programs in interdisciplinary collaboration in sustainability learning.

To support the academic programs, the SPC Library offers a link to **Green File**, a free research database focusing on the relationship between human beings and the environment, with well-researched but accessible information on topics ranging from global warming to recycling to alternate fuel sources and beyond.

Despite its small size, Saint Peter's College offers a wide array of conference and special

energy consumption by **37,420 kWh**. Based on these savings, the one-year projected savings are broken down this way:



Detailed results of the 2009 competition:

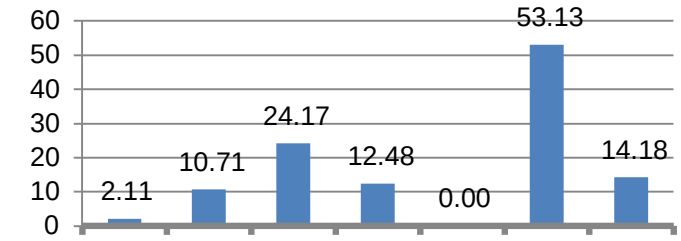


Table B.1: Electricity Conservation Competition Results

Faculty in the Biology Department are also active researchers in this field. Dr. Michael Held's area of specialization is forestry, while Dr. Laura Twersky's research on phytochemicals examines the medicinal uses of plants and related conservation issues. John Ruppert is pursuing research on Brownfield succession in order to improve our trajectory models for the ecosystem services these sites may provide in the future.

In 2009, the College established the Center for Microplasma Science and Technology (CMST), which serves as the National Center of Excellence in this emerging scientific field. The research agenda involves more environmentally sound techniques of air and water purification along with various other environmental remediation methods. Under the leadership of Physics Professors WeiDong Zhu, Ph.D. and Jose Lopez, Ph.D., the CMST is developing ways in which to turn waste water into potable water without the use of harmful chemicals. Some of these same processes may be used to clean medical waste or petroleum by-products and thus turning them into harmless liquids. The use of microplasma has the potential to revolutionize the renewable energy industry.

Saint Peter's College plans to continue and expand its programs in this area. Proposed collaborative environmental research for the near future is discussed in the following section.

C. COMMUNITY OUTREACH

Events promoting awareness and action include lectures on environmental issues, screenings of documentaries, community clean-up projects, and contests encouraging green action and awareness. R

Partnerships. Through the Institute for the Advancement of Urban Education, Research and Action and the Public Policy Program, Saint Peter's College seeks to develop community partnerships essential for the work of sustainability. Among the Community Block Organizations that have been collaborative in the development of neighborhood surveys are Fairmount Housing Coalition, Bergen Community United, and the Jersey City Episcopal Community Development Corporation. We plan to work with New Jersey-based GreenFaith, an inter-religious environmental stewardship organization, to build a coalition with CBOs around air quality monitoring and analysis, and public advocacy for clean air.

Global Learning. The Offices of Campus Ministry and Community Service have designed global learning models for justice and cultural appreciation in the developing world, with increasing attention to the need for the integration of environmental sustainability. Semester long preparation for a two-week immersion experience to Honduras or Ecuador includes student presentations in history, political economy, culture and geography. Our longer term goal is deepening relationships with our partner communities toward progress in global sustainability. For example, our students can connect the Latin American struggle to prevent environmentally destructive practices of extractive industries (e.g. oil and gold) with the U.S. struggle to prevent coal companies from engaging in Mountain Top Removal (MTR) operations.

In addition to Latin America, as part of our Global Outreach program, we prepare students for a week-long immersion over Spring Break in West Virginia and Kentucky where they learn about MTR. During the cultural immersion trips to Appalachia or Latin America, students engage in daily reflection and analysis. Upon return to campus, students disseminate global solidarity/

Junkyard Dogs. Care and respect for the city in which you live, work, or attend school in, is vital to the creation of a strong community. The goals of this group are to set an example of care and responsibility for our surroundings; to interact with the residents of Jersey City and strengthen our community ties, campus to neighborhood and neighborhood to campus; to interact with the children of Jersey City and create a consciousness and practice of "green behavior"; and to provide a more humane and healthier environment in Jersey City. The requirement for membership is a pledge to participate in our monthly clean-up day in a section of the city, working to clean the streets, sidewalks etc. and to visit a local school once a semester to present on the issue of civic responsibility and self-awareness.

Kresge Fellowship. Saint Peter's College was granted a 2009 Kresge Fellowship Award. A total of 15 fellowships were presented by Second Nature, a national nonprofit organization focused on sustainability in higher education, to advance campus green building at under-resourced institutions: "This fellowship program provides schools with the opportunity to learn about the resources and networks available to construct and renovate campus buildings in ways that save money, reduce environmental and health impacts, serve as educational tools, and increase student enrollment."

Tree Campus USA. The Saint Peter's College Englewood Cliffs campus recently hosted a tree planting with the Sisters of Saint Joseph of Peace and the Englewood Cliffs Shade Tree Commission. The tree planting is the first step that the College is taking to be recognized by Tree Campus USA, an organization that recognizes college and university campuses that effectively manage their campus trees and work wlir. -1.3heirerec8Tngive wgles

- All College offices, including student computer labs, are only permitted to purchase recycled paper (minimum 25% recycled paper) for printers and copy machines. R
- Collins Building Services has switched its cleaning products to green seal formulas. R
- Sodexo, our campus food service, has banned Styrofoam

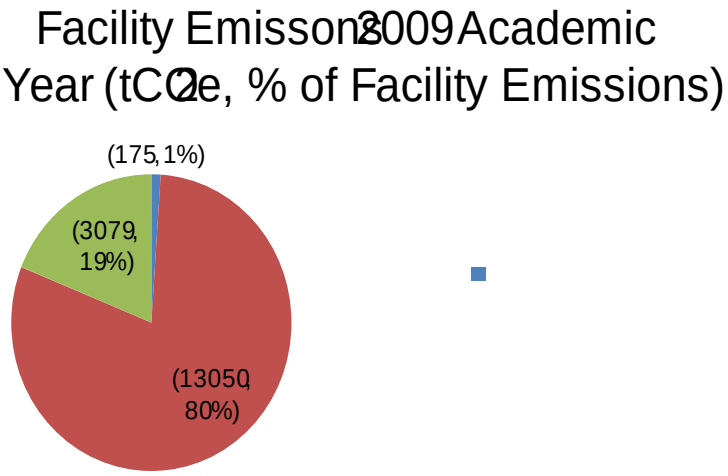

Facility Emissons 2009 Academic Year (tCO2e, % of Facility Emissions)
(175, 1%)
(3079, 19%)
(13050, 80%)

Figure VII.1: 30 Year Emissions Trajectory

In the following section Saint Peter's College outlines how the campus

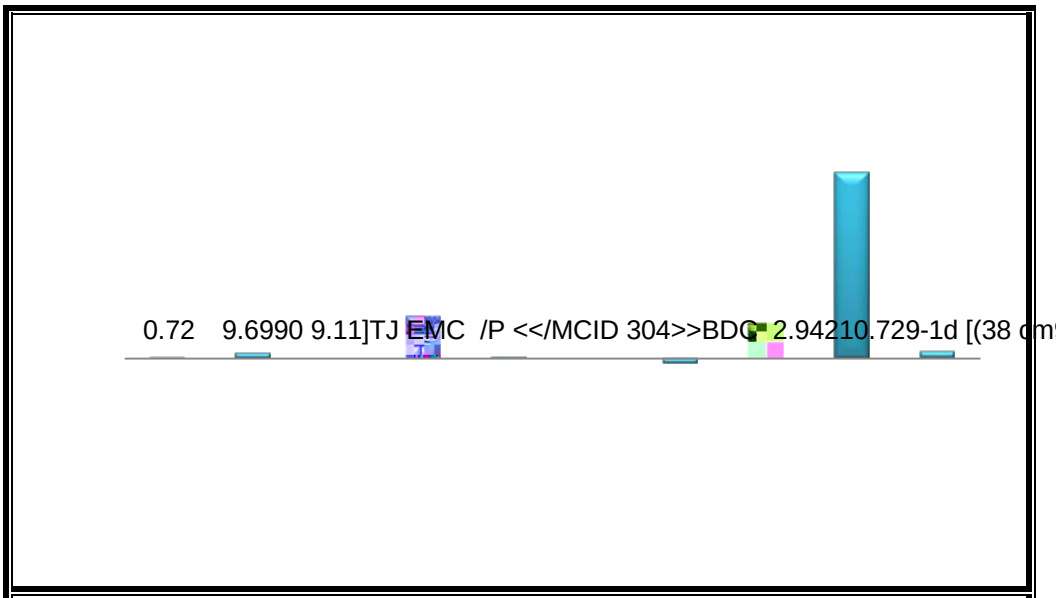


Figure VII.3 Cost per year of one metric ton reduction in CO_2 per mitigation strategy

Figure VII.4 Total yearly carbon reduction per mitigation strategy

Wind Energy

Beginning January 1, 2010, the electricity purchased for all buildings on the Saint Peter's College Jersey City campus is 100 percent renewable "green" energy. Saint Peter's is the second private college in the state of New Jersey to purchase green energy as its sole source of electricity, thereby displacing an estimated 3,085 metric tons of carbon dioxide throughout the year, which