



## Commitment to the Environment: Start a Sustainability Program at Your College

**Association of Community College Trustees  
2010 Leadership Conference  
Toronto, Canada**



# Commitment to the Environment: Start a Sustainability Program at Your College



**Richard Walker**

WHAT IS **SUSTAINABILITY**



**SUSTAINABILITY is**  
using methods, systems or materials  
that won't deplete resources  
or harm  
the natural environment.

# QUESTIONS AND ANSWERS



# **SUSTAINABILITY TASK FORCE**

**Biology and Engineering Professors**

**Technical Assistant**

**Mathematics Department Chair**

**Dean of Nurse Education and Health Professions**

**Student Representatives**

**Director of Fiscal Affairs**

**Director of Facilities Management**

**Executive Dean of Institutional Effectiveness**



**Paul Wolff**

**Director of Sustainability**

**Bunker Hill  
Community College**



Paul's interactive educational tools

show how green buildings work







Integrated,  
hands-on learning  
activities

help to increase awareness  
of sustainability





Paul  
**PROMOTED**

sustainability to  
**55,000** attendees



at a  
city-wide festival  
in the Summer 2010.



Paul **SUBMITTED**  
grant proposals  
to the  
**United States**  
**Department of Education**

and the  
**National Science**  
**Foundation**

for the development of  
sustainability curricula.



Paul is the  
**ADVISOR**

to the student  
Sustainability Club  
on campus

## WORKSHOP TOPICS

- INTEGRATION OF SUSTAINABILITY INTO CURRICULUM
- STRATEGIES FOR AN EFFICIENT WORKPLACE
- REDUCING PAPER IN THE CLASSROOM
- GREEN JOBS EDUCATION



Paul created a series of workshops for faculty and staff professional development.



## INSTITUTIONAL GOAL

**Develop and Cultivate  
College-Side Sustainability Initiatives**



## OBJECTIVES

Promote greater conservation of resources

Develop new academic programs

Reduce impact on the environment

Integrate sustainability

# INTEGRATION OF SUSTAINABILITY



**Computer Information Technology Class**  
Students use “Watts Up” Meters  
to measure energy use



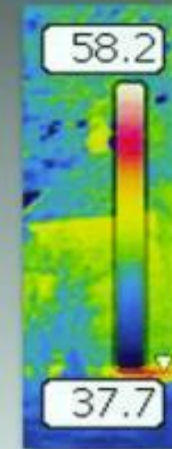
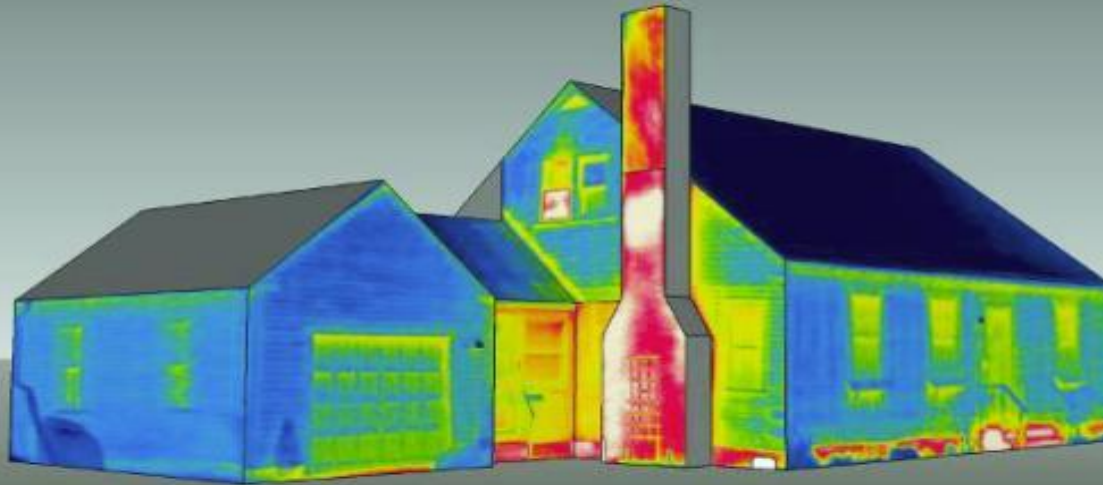
# INTEGRATION of SUSTAINABILITY



**English as a Second Language Department**  
Students use sustainability vocabulary to  
practice language skills

# INTEGRATION of SUSTAINABILITY

3D Infrared Visualization  
Single Family House



## Introduction to Engineering Course

Students take infrared images of campus buildings to understand science principles



## Commitment to the Environment: Start a Sustainability Program at Your College



**Jeanne-Marie Boylan**



Health and Wellness Center



Gymnasium for Athletics and Special Events



Interior View of Building Entrance



Classroom and Simulation Laboratory

# WHAT IS LEED





**LEED**

**stands for**

**LEADERSHIP in ENERGY**

**and**

**ENVIRONMENTAL DESIGN**

**LEED is**

**an ecology-oriented  
building certification program  
created by the  
U.S. Green Building Council (USGBC)**

**Green Buildings  
worldwide are  
certified with a  
voluntary,  
consensus-based  
rating system  
created by the**

**UNITED STATES  
GREEN BUILDING  
COUNCIL**



**There are four levels of LEED certification.**



We anticipate that the Health and Wellness Center will receive a **LEED GOLD** rating.



The state of Massachusetts requires a minimum of a **LEED CERTIFIED** rating for new buildings.



PLATINUM



52-69 points

GOLD



39-51 points

SILVER



33-38 points

CERTIFIED



26-32 points



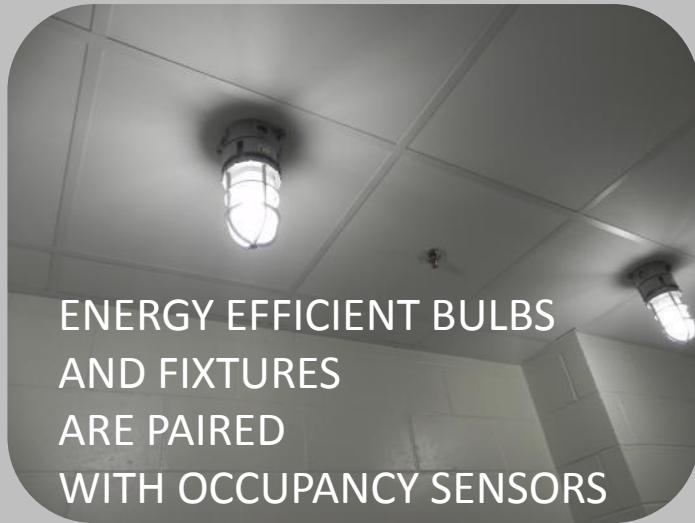
LOW FLOW TOILETS AND FAUCETS

## Green Features: Water Efficient Fixtures



LOW FLOW TOILETS, SHOWERS AND FAUCETS

## Green Features: Water Efficient Fixtures



ENERGY EFFICIENT BULBS  
AND FIXTURES  
ARE PAIRED  
WITH OCCUPANCY SENSORS



OPERABLE WINDOWS ALLOW  
NATURAL VENTILATION



REFLECTIVE ROOFING MATERIAL  
REDUCES HEATING  
AND COOLING NEEDS

## Green Features: Energy Efficiency





REGIONALLY SOURCED  
WOOD FLOORING



FSC CERTIFIED  
ARCHITETURAL MILLWORK AND TRIM



RECYCLED GLASS WALL PARTITIONS

**Green Features: Sustainable Materials**



FSC CERTIFIED WOOD TRIM



RECYCLED ALUMINUM SIDING



TILE FLOORING  
FROM REGIONAL  
SUPPLIERS

**Green Features: Sustainable Materials**



**Green Features: Natural Lighting**



**Green Features:** Native landscaping with drought resistant plants



# Commitment to the Environment: Start a Sustainability Program at Your College



**Denise Bruno Matthews**

**WHAT IS  
CLIMATE ACTION PLANNING**



**WHAT IS  
A CLIMATE ACTION PLAN**



# QUESTIONS AND ANSWERS





# **A CLIMATE ACTION PLAN is**

**A comprehensive document**

**that includes all the information related to  
efforts to measure**

**the environmental impact  
and plan for the future.**



# CLIMATE ACTION PLAN SELECTED COMPONENTS

Climate Commitment



## CLIMATE COMMITMENT

*“ .....On behalf of our students, faculty, staff and college community, I am deeply concerned about the unprecedented scale and speed of global warming and its potential for large-scale, adverse health, social, economic and ecological effects.*

*As a result, I am making this commitment to reducing carbon emissions on our campus. ”*

Mary Fifield, President  
Bunker Hill Community College





# CLIMATE ACTION PLAN SELECTED COMPONENTS

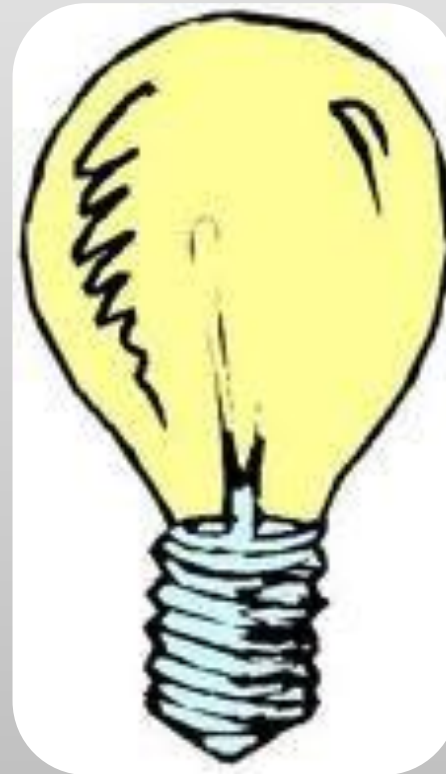
Greenhouse Gas Inventory Report



# GREENHOUSE GAS INVENTORY

## Sources of Emissions

**-Electricity  
(Measured in kilowatt  
hours)**





# GREENHOUSE GAS INVENTORY

## Sources of Emissions

-Natural Gas  
(Measured in therms)





**Bunker Hill  
Community College**

imagine the possibilities

# GREENHOUSE GAS INVENTORY

## SOURCES OF EMISSIONS

-Vehicle Fuels  
(Regular and Diesel)

(Measured in gallons)





**Bunker Hill  
Community College**

imagine the possibilities

## **CLIMATE ACTION PLAN SELECTED COMPONENTS**

Climate Impact Reduction Projects





# CLIMATE IMPACT REDUCTION STRATEGIES

## Lighting

Upgrading or  
replacing fixtures  
and bulbs



# CLIMATE IMPACT REDUCTION STRATEGIES

## HVAC Equipment

Upgrading or  
replacing heating  
and cooling  
equipment.





# CLIMATE IMPACT REDUCTION STRATEGIES

## Awareness and Behavioral Programs





# CLIMATE IMPACT REDUCTION STRATEGIES

## Awareness and Behavioral Programs



A current student awareness campaign at Bunker Hill Community College is:

**“What’s Your Carbon Footprint? “**

On National Sustainability Day, students will encourage as many people as possible to reduce their individual footprints.



# CLIMATE ACTION PLAN SUMMARY OF SELECTED COMPONENTS

Climate Commitment

Greenhouse Gas Inventory Report

Climate Impact Reduction Projects



## Commitment to the Environment: Start a Sustainability Program at Your College



**Thariq Iqbal**



**Sustainability Club**  
**Bunker Hill Community College**



Charles River Cleanup



# Boston Greenfest 2010

## Wild Flower Seeds



## Cookies



# Boston Greenfest 2010



**Cookies**

**Wild Flower  
Seed Packets**

**“Going Green Surveys”**

LEITH SHARP, ACCLAIMED DIRECTOR OF SUSTAINABILITY AT HARVARD UNIVERSITY SPEAKING WITH STUDENTS



Boston Society of Architects Public Lecture Series



Mr. and Ms. Sustainability Contest



Mr. and Ms. Sustainability Contest



Mr. and Ms. Sustainability Contest



## Commitment to the Environment: Start a Sustainability Program at Your College



**THANK YOU**



**Paul Wolff**

**Director of Sustainability**

**Bunker Hill  
Community College**

**[pjwolff@bhcc.mass.edu](mailto:pjwolff@bhcc.mass.edu)**



Bunker Hill Community College - Windows Internet Explorer

http://www.bhcc.mass.edu/index.php

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Bunker Hill Community College

Home Page October 7, 2010

Prospective Students | Current Students | Workforce Development | Alumni, Donors & Friends | BHCC Online | Community & Visitors

**Building Your Future.**  
Register for Classes

REGISTERATION

FALL 2010 SEMESTER

Download 2010 - 2011 BHCC College Catalog

Download Fall 2010 Click Here for New and Revised Options

**The White House Summit on Community Colleges**

SELECT DESIRED LANGUAGE: Chinese French Russian Spanish Vietnamese

COLLEGE EVENTS & NEWS

**BUNKER HILL COMMUNITY COLLEGE**

**Au Pair WEEKEND PROGRAM**  
Satisfy your USDS educational requirement in one or two weekends.

NEWS RELEASES

Entrepreneurship Center at Bunker Hill Community College Wins National Recognition  
Bunker Hill Community College Fall Enrollment Breaks Another Record  
Bunker Hill Community College at Greenfest on Boston City Hall Plaza

FEATURED LINKS

- Find Courses
- Welcome Back Center
- International Center
- Audio Visual Department
- Career Center
- BHCC Art Gallery
- Academic Calendar
- Instructional Technology Center
- SLOAP Database

ABOUT BHCC

- Application for Admission
- BHCC Organizational Charts
- BHCC Library
- BHCC Bookstore
- Commonwealth Honors Program
- Contact Information
- Directions to BHCC
- Equal Opportunity Policy
- Fact Book
- How to Pay Your BHCC parking ticket
- Job Opportunities
- Student Email Information
- Study Abroad

**BHCC Joins Climate Commitment**  
Click here to learn more

Bunker Hill Community College Website:

[www.bhcc.mass.edu](http://www.bhcc.mass.edu)

Click on "Climate Commitment" Icon For Template



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