



BOARD OF REGENTS

Summary of Item for Action, Information or Discussion

TOPIC: Report to the Board titled: "Climate Actions and Progress Toward the Reduction of Greenhouse Gas Emissions at Institutions of the USM"

COMMITTEE: Finance

DATE OF COMMITTEE MEETING: June 18, 2013

SUMMARY: All USM institutions are signatories to the American College and University Presidents Climate Commitment (ACUPCC). The ACUPCC is a "high-visibility effort" to address global climate change by creating a network of colleges and universities that have committed to neutralize their greenhouse gas emissions and accelerate the research and educational efforts of higher education to equip society to re-stabilize the earth's climate.

Signatories of the Presidents' Climate Commitment are required to submit Implementation Profiles, Greenhouse Gas Reports, Climate Action Plans, and Progress Reports in the ACUPCC Reporting System. These reports are made regularly, based on a series of scheduled milestones established by the Commitment. All are publicly available online.

What follows is a report from each campus based on their individual goals and progress toward GHG reductions as reported to the ACUPCC. This report is provided for your information. Future reports and discussion can be incorporated into the Board meeting schedule as needed.

ALTERNATIVE(S): This is an Information Item.

FISCAL IMPACT: This is an Information Item.

CHANCELLOR'S RECOMMENDATION: This is an Information Item.

COMMITTEE RECOMMENDATION:

DATE:

BOARD ACTION:

DATE:

SUBMITTED BY: Joseph F. Vivona 301.445.1923



CLIMATE ACTIONS AND PROGRESS TOWARD THE REDUCTION OF GREENHOUSE GAS EMISSIONS AT INSTITUTIONS OF THE USM

A REPORT TO THE BOARD OF REGENTS

May 30, 2013

The USM adopted the American College & University Presidents Climate Commitment (ACUPCC) as the standard mitigation approach for all institutions, and the presidents of all USM institutions have signed the Commitment. The ACUPCC process, with its nationally benchmarked implementation program of milestones, schedules and resources geared specifically to higher education provides the ideal implementation tool for mitigation efforts at USM institutions.

Climate change mitigation efforts are similar for all institutions in all states and proven and measurable tools and methodologies are available from other signatory schools that will ultimately accelerate our success in this important effort. Furthermore, the ACUPCC includes incentives in the form of deadlines and public reporting of uniform achievement measures to help encourage all institutions to maintain their momentum, thus making it the most effective and efficient way for USM institutions to move toward carbon neutrality.

The Presidents' Climate Commitment*

The ACUPCC is a "high-visibility effort" to address global warming (global climate disruption) by creating a network of colleges and universities that have committed to neutralize their greenhouse gas emissions and accelerate the research and educational efforts of higher education to equip society to re-stabilize the earth's climate.

What is Sustainable Development? The commonly accepted definition of sustainable development is defined as, "development that meets the needs of the present with- out compromising the ability of future generations to meet their own needs."

However, as pointed out by Lander Medlin (executive vice president, Association of Physical Plan Administrators), "sustainability is not just about protecting the environment—it is also about finding ways to meet the basic needs of all current and future generations of humans." The ACUPCC seeks to encourage higher education institutions to give their students tools to think with a sustainable perspective for the future.

What is the role of the ACUPCC? The ACUPCC seeks to create connections with higher educational institutions in order to carry out two goals:

1. The first is to make an agreement with these colleges and universities that they will commit to eliminate their net greenhouse gas emissions from specified campus operations.
2. The second focuses on education and the institutions' ability to promote research of sustainability programs and empower the "higher education sector to educate students, create solutions, and provide leadership-by-example for the rest of society."

ACUPCC provides "a framework and support" for America's colleges and universities. The ACUPCC relies on institutions of higher education to be role models for their communities as well as students, and to educate people who will contribute to fighting to reverse global warming and create a sustainable society.

This Report to the Board of Regents

It has been said that "the first step towards getting somewhere is to decide that you are not going to stay where you are." Institutions of the University System of Maryland have been pursuing sustainability and energy conservation for decades.

The accelerated pace of climate change, however, has pushed sustainability initiatives into high gear and USM institutions are pursuing mitigation and adaptation activities on their campuses at a pace that has drawn the attention of the Governor and agencies of the State. USM is a recognized leader in climate change mitigation, recycling and energy reduction; and it is important that we maintain this positive momentum.

Signatories of the Presidents' Climate Commitment are required to submit Implementation Profiles, Greenhouse Gas Reports, Climate Action Plans, and Progress Reports in the ACUPCC Reporting System. These reports are made regularly, based on a series of scheduled milestones established by the Commitment.

What follows is a report from each campus based on their individual goals and progress toward GHG reductions as reported to the ACUPCC. This report is provided for your information. Regular reports and ongoing discussion can be incorporated into the Board meeting schedule as needed.

*This section is from public statements published at <http://www.presidentsclimatecommitment.org/>

University of Maryland, Baltimore

PROGRESS TOWARD CLIMATE ACTION GOALS

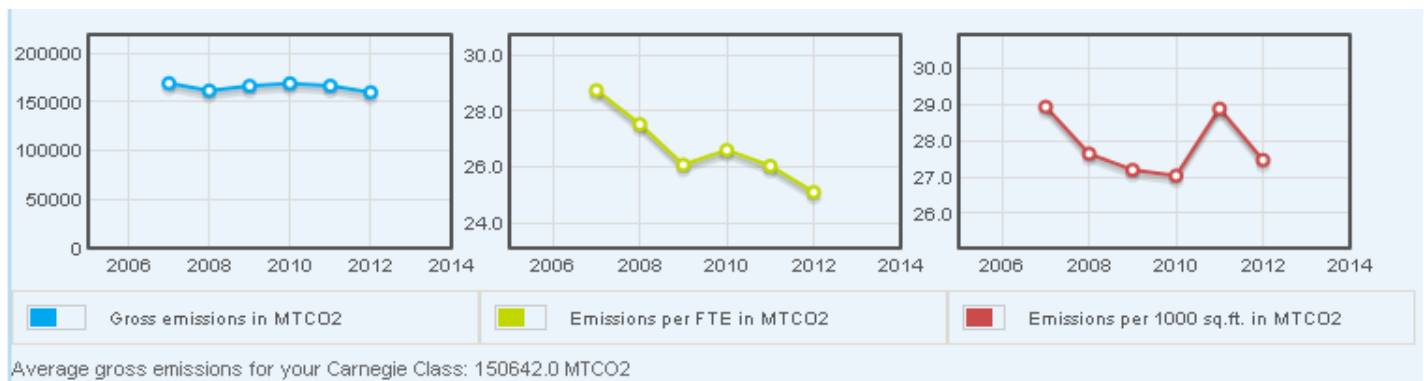
I. GHG Emissions and Reduction Targets

Climate Neutrality Target Date:

Interim Milestone Emission-Reduction Target	Target Date	Baseline
25	2020	2007
35	2030	2007
50	2040	2007

GHGs Summary

Reporting Year	Gross Emissions	Net Emissions	FTES Enrollment	Total Bldg SF
2012	159,749	146,893	6368	5,816,308
2011	166,436	160,030	6395	5,762,219
2010	168,859	164,490	6349	6,246,553
2009	166,356	162,405	6382	6,117,962
2008	161,482	157,567	5868	5,842,508
2007	169,059	165,806	5884	5,842,508



Summary Totals

- Change in GHG gross emissions: -9310
- Change in GHG emissions per 1000 sq.ft. building space: 1.33
- Change in GHG emissions per full time enrollment (FTE): -1.04

University of Maryland, Baltimore

PROGRESS TOWARD CLIMATE ACTION GOALS

II. Action Plan Summary

Guided by the Campus Sustainability Committee and its four subgroups (Design/Construction, Operations, Education and Awareness, and Transportation), the University has made significant progress in making sustainability part of the UMB culture.

Design/Construction Successes:

- Exploring the development of a combined heat/power facility
- Implementation of energy-saving space temperature set points and night setbacks
- LEED Gold certification for the School of Pharmacy Addition
- All programs for new construction and major renovations include the requirement for LEED Silver or better
- Adopted the use of low flow fume hoods and a maximum of six air changes in lab buildings
- Retrofitting all campus fluorescent lighting from T12 and T8 to T5
- Eliminated incandescent lighting campus-wide and replaced with CFL or LED lighting
- Established a building re-commissioning program and will hire a re-commissioning manager to oversee the process
- Increased green space; i.e, turn hard surfaces to green space
- Redesigned Plaza Park to be a vibrant and useful green space

Operations Successes:

- Recycling of electronics and batteries
- Achieved a campus-wide 41.25% recycle rate for paper, plastic, and cans
- Goodwill containers on campus
- Goodwill shop located in the BioPark
- Participate in the govedeals.com websites to auction used equipment
- Eliminated the use of personal trash containers by encouraging the use of a centralized location to deposit trash, bottles, cans, and other recyclable items

Transportation Successes:

- Electric vehicle charging stations in every garage
- New, energy efficient shuttle buses
- Zipcars on campus, a car sharing alternative to having a vehicle on campus
- Bike Racks, secure bike cage
- Improved carpooling programs with designated carpool parking spaces
- Participation in the Guaranteed Ride Home Program
- Partnered with Zimride, a program that allows people to search for rides or post information about needing a ride. The program interfaces with all social media including Facebook, Twitter, and the University's website
- In partnership with the City of Baltimore, the Charm City Shuttle, which makes several stops throughout the UMB campus, service residents, downtown employees, students and tourists and anyone else who wishes to ride. The shuttle is intended to reduce congestion and greenhouse gas pollution by offering a convenient, reliable and eco-friendly form of public transportation.

Education and Awareness Successes:

Created a sustainability website that highlights campus efforts

Promotion of major University initiatives such as the Farmers Market, campus recycling, alternative transportation, the Green Room, and energy conservation

Educating the University community regarding sustainability initiatives and how they can get involved

The development of effective communication and outreach tools, such as the UM Go Green website, the use of digital displays, Facebook, Twitter, the University website, the University newsletter (VOICE) and the VOICE online

Monthly lunch and learn sessions with invited guest speakers who discuss sustainability

University of Maryland (College Park)
PROGRESS TOWARD CLIMATE ACTION GOALS

I. GHG Emissions and Reduction Targets

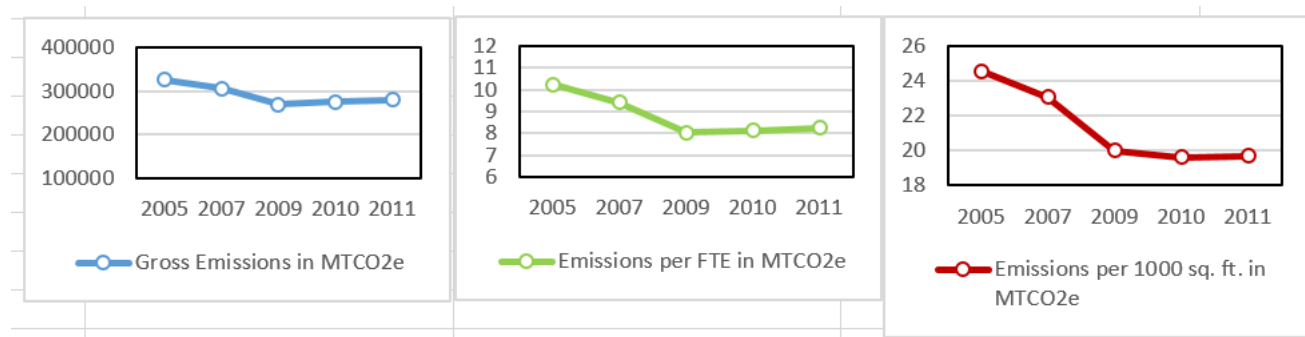
Climate Neutrality Target Date: 2050

Interim Milestone Emission-Reduction Target	Target Date	Baseline
15 % reduction in carbon emissions	2012	2005
25% reduction in carbon emissions	2015	2005
50% reduction in carbon emissions	2020	2005
60% reduction in carbon emissions	2025	2005

GHGs Summary

Reporting Year	Gross Emissions	Net Emissions	FTES Enrollment	Total Bldg SF
2005	325,015	325,015	31,726	13,236,841
2006	316,255	316,255	31,589	13,236,841
2007	305,365	305,365	32,420	13,236,841
2008	303,579	303,579	33,211	13,367,415
2009	268,695	268,965	33,518	13,436,383
2010	274,699	237,141	33,838	14,004,247
2011	280,337	278,356	34,033	14,242,643
<i>change since 2005</i>	<i>(13.7% reduction)</i>	<i>(14.4 % reduction)</i>	<i>(7.3 % increase)</i>	<i>(7.6% increase)</i>

Graphs



Summary Totals

- Change in GHG gross emissions: Reduction of 46,658 MTCO₂e
- Change in GHG emissions per 1000 sq.ft. building space: Reduction of 5.0 MTCO₂e
- Change in GHG emissions per full time enrollment (FTE): Reduction of 2.1 MTCO₂e

University of Maryland (College Park)
PROGRESS TOWARD CLIMATE ACTION GOALS

II. Action Plan Summary

Overall

- 14.4 % net reduction in carbon emissions achieved as of 2011.
- A 2012 carbon footprint will be completed this summer; Projections indicate that the 2012 target of a 15% reduction will be met.
- In April 2013, a Sustainable Buildings and Energy Sources Work Group chaired by the Associate Vice President for Facilities Management recommended new energy policies to the University Sustainability Council that would cap carbon from campus growth and require 20 percent energy savings for all campus buildings by 2020. If approved by the President and Senate, the implementation of these policies will keep UMD on track to meet the 2015 target of a 25% reduction in carbon emissions from power and operations.
- Additional work groups are needed to address challenges in reducing carbon emissions associated with on-site power generation and air travel.

Energy Conservation

- \$20 million contract for improved energy efficiency in nine buildings completed (23% of carbon savings)
- Multiple energy conservation projects including lighting upgrades in hallways, classrooms and offices; installation of occupancy sensors in general purpose classrooms; installation of variable frequency drives on chillers and other HVAC equipment; additional controls on laboratory fume hoods; and optimization of computer equipment and usage in limited areas (at least 12% of carbon savings)
- Green Office Program developed to encourage behavior changes to reduce energy use in offices (small, unmeasurable percentage of carbon savings)
- Energy Performance Contract with Intercollegiate Athletics (ICA) currently under construction (a reduction of approximately 535 MT-CO₂e will be factored into 2013 carbon footprint and will increase to 765 MT-CO₂e in 2014)

Renewable Energy

- Three 20-year contracts through USM to purchase energy from regional wind and solar projects (a reduction of over 7,500 MT-CO₂e will be factored into 2012 carbon footprint)
- One 20-year contract to purchase energy from on-site rooftop solar project (a reduction of approximately 440 MT-CO₂e will be factored into 2016 carbon footprint)
- One-time student purchase of 66,000 Renewable Energy Certificates (RECs) to reduce emissions from purchased power in 2010

Transportation

- 5,130 commuter parking permits eliminated by students, faculty and staff choosing to use alternative modes of transportation (28% of carbon savings)
- Outreach, education, support and incentives for commuters to use public transportation, ride sharing, biking or walking to get to campus

Solid Waste

- Single stream recycling, "Can-the-Can, construction waste recycling, and other strategies increased campus waste diversion from landfills to 64%; remaining waste is sent to landfills that use carbon capture technologies (15% of carbon savings)
- Composting programs to collect organic waste from dining halls, landscaping and campus barns (1% of carbon savings)

Education & Research

- New sustainability minor developed and launched in 2012 is now second largest minor on campus
- Education for Sustainability Work Group began meeting in spring 2013 to develop a list of core competencies that all students should have to address; and to map strategies/courses that teach these core competencies.

BOWIE STATE UNIVERSITY
PROGRESS TOWARD CLIMATE ACTION GOALS

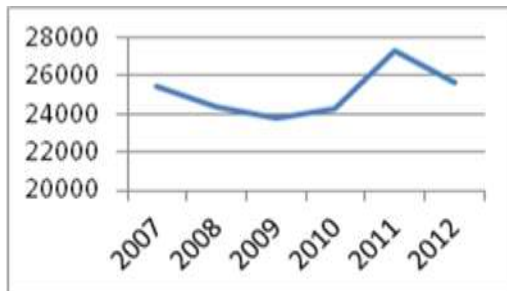
I. GHG Emissions and Reduction Targets

Climate Neutrality Target Date:

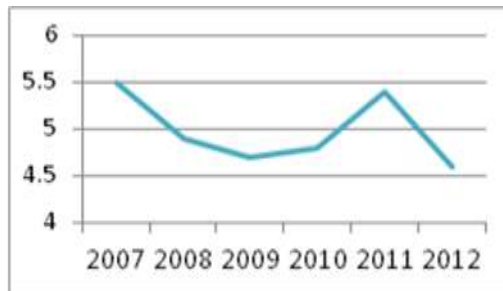
Interim Milestone Emission-Reduction Target	Target Date	Baseline
20% reduction in Total Scopes 1, 2, 3 emissions	By 2019	Baseline of 2007
15% reduction in Total Scopes 1, 2, 3 emissions	By 2025	Baseline of 2007
10% reduction in Total Scopes 1, 2, 3 emissions	By 2035	Baseline of 2007

GHGs Summary

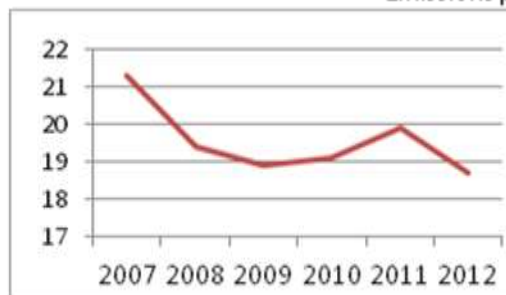
Reporting Year	Gross Emissions	Net Emissions	FTES Enrollment	Total Bldg SF
2007	25444	24907	4647	1191996
2008	24367	24070	4926	1257430
2009	23743	23448	5045	1257430
2010	24306	24002	5113	1275485
2011	27325	26991	5060	1372130
2012	25669	25669	5608	1372130



Gross emissions in MTCO2



Emissions per FTE in MTCO2



Emissions per 1000 sq ft. in MTCO2

Summary Totals

- Change in GHG gross emissions: 32851
- Change in GHG emissions per 1000 sq.ft. Building space: 21.139

- Change in GHG emissions per full time enrollment (FTE): 3.766

Bowie State University

PROGRESS TOWARD CLIMATE ACTION GOALS

II. Action Plan Summary:

In the years since the BSU Climate Action plan was developed the university has made significant strides towards reaching carbon neutrality such as:

- Implementing an Energy Performance Contract (i.e., lighting and bathroom retrofits, fortifying building envelope)
- Purchase of electric service vehicles
- Employed energy-efficiency principles during the design of the Fine and Performing Arts Center

In addition, other efforts undertaken by the university to enhance sustainability awareness and promote sustainable lifestyles include:

- Forging partnerships with Toyota Green Initiative and Verizon.
- BSU was the launching ground for the Nationwide Toyota Green Initiative (TGI)
- BSU staged a fully immersive TGI event including:
 - A student-focused lecture series, recycling and other activities relating to sustainability as a way of life, and
 - A greenhouse re-planting activity undertaken where student groups separated and replanted 87 day lilies and 16 irises, which yielded upward of 250 perennials in the spring for replanting as part of the campus landscape.
 - Student involvement in the TGI recycle event yielding upward of 7,000 pounds or over 3 tons of recyclable materials to include:
 - Plastic: 5,365 lbs.
 - Aluminum: 1,172 lbs.
 - Paper: 367 lbs.
 - Clothing: 21 lbs.
 - Glass: 267 lbs.

BSU was awarded a Verizon Sustainability Grant. The proceeds from this grant are being used for the following:

- The purchase of 1,000 room-sized recycle bins to be placed in each student room of the 7 campus residence halls.
- Purchase of 4 outdoor recycle centers
- Purchase of (5) bike racks
- Sustainability Poster campaign using student poster designs.

Towson University

PROGRESS TOWARD CLIMATE ACTION GOALS

I. GHG Emissions and Reduction Targets

Climate Neutrality Target Date:

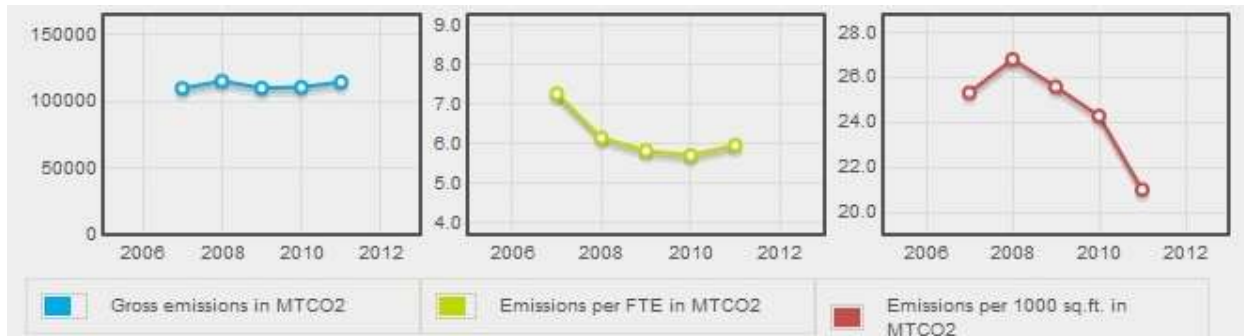
Interim Milestone Emission-Reduction Target	Target Date	Baseline
25% reduction in emissions per full time equivalent enrollment	2020	2008
50% reduction in emissions per full time equivalent enrollment	2030	2008
100% reduction in emissions per full time equivalent enrollment	2050	2008

GHGs Summary:

Reporting Year	Gross Emissions	Net Emissions	FTES Enrollment	Total Bldg SF
2008	118,057	114411.0	18,699	4,296,237
2009	113,825	109183.0	18,860	4,441,170
2010	109,428	109798.8	19,343	4,552,210
2011	112,361	112625.0	19,160	4,552,210

Graphs:

Table 1: Towson Greenhouse Gas Emissions FY 2008 – FY 2011 Table 2: Towson Greenhouse Gas Emissions FY 2011



Summary Totals:

- Change in GHG gross emissions: Towson University's net GHG emissions have decreased by 4.8 percent relative to the 2008 baseline.
- Change in GHG emissions per 1000 sq.ft. building space: Emissions decreased 10.2 percent from 2008.
- Change in GHG emissions per full time enrollment (FTE): Emissions decreased 7.1 percent from 2008.

Table 3. Normalized net GHG emissions and energy consumption by FY w/ trends

Metric	FY 2008	FY 2009	FY 2010	09-10 % Change	FY 2011	10-11 % Change*	08-11% Change
MTCO2e/ FTE Student	6.314	6.035	5.657	-6.26%	5.864	3.66%	-7.11%
MTCO2e/1000 GSF Physical Space	27.479	25.630	24.039	-6.21%	24.683	2.68%	-10.18%
MTCO2e/Community Member	5.384	5.139	4.824	-6.13%	4.964	2.92%	-7.79%
Mil. BTU/ FTE Student	88.981	85.222	82.697	-2.96%	87.079	5.30%	-2.14%
Mil. BTU/ 1000 GSF Physical Space	387.280	361.899	351.381	-2.91%	366.511	4.31%	-5.36%
Mil. BTU/Community Member	75.874	72.561	70.507	-2.83%	73.714	4.55%	-2.85%
MTCO2e/Mil. BTU	0.071	0.071	0.068	-3.40%	0.067	-1.56%	-5.09%

Towson University

PROGRESS TOWARD CLIMATE ACTION GOALS

II. Action Plan Summary

Highlights of Progress:

Between FY 2008 and FY 2009:

- Towson University's total GHG emissions have decreased by 4.8 percent relative to the 2008 baseline.
- GHG emissions from stationary fuel decreased by 10 percent, faculty and staff commuting by 31 percent, student commuting by 10 percent, and solid waste by 7 percent.
- GHG emissions from purchased electricity increased 7 percent.
- Fewer GHGs are emitted and less energy consumed per gross square foot of space, per full-time equivalent student, and per community member.

Goals:

TU will be increasing its enrollment in the next ten years. As a result new facilities will be built and old ones renovated or demolished. TU must be prepared for near-term growth in physical space and associated increases in energy demand. Specifically, electricity consumption on-campus will likely continue to rise with an anticipated addition of 1.2 million gross square feet by FY 2015. Offsetting this growth in greenhouse gas emissions to a degree is the addition of 700 beds on campus, which will reduce GHG emissions from student commuting. Towson's climate goals are to

- Reduce greenhouse gas emissions per full time equivalent enrollment (FTE) by 25 percent by 2020.
- Reduce GHG emissions per FTE by 50 percent by 2030.
- Reduce GHG emissions per FTE by 100 percent by 2050.

Actions Taken:

- TU completed an \$8 million Energy Services Contractor (ESCO) project to increase the energy efficiency of campus lighting in 2012. The project will reduce greenhouse gas emissions by 10,000 tons annually and save more than \$1 million in energy costs each year.
- In late 2010, the lighting fixtures on the east canopy of the Enrollment Services building were replaced with high-efficiency LED fixtures. The new lighting consumes 70 percent less energy than the previous fixtures.
- Electric SmartMetering systems have been installed in almost all campus buildings providing accurate, real time monitoring of electrical usage and demand.
- The Campus Utility Plant Addition, completed in 2009, has expanded the production and distribution of heating, cooling and electricity on campus. The efficiencies gained from buildings being connected to the plant are expected to reduce the university's cooling power consumption significantly.
- The University has engaged the services of a Curtailment Services Provider (CSP) to enroll in demand side management programs with the Pennsylvania-New Jersey-Maryland (PJM) regional transmission organization. These programs provide cost incentives, usually based on wholesale market rates, for voluntary electrical load reduction during periods of high electrical demand in the regional area.
- The university built two LEED Gold certified buildings—The College of Liberal Arts and West Village Commons. All future buildings will be built to Leadership in Energy and Environmental Design (LEED) Silver standard or better.
- The campus fleet contains five electric and hybrid vehicles. Shuttle buses, increased parking costs, and a car share have been expanded to reduce emissions from commuting.
- In 2013 TU installed 18 electric vehicle charging stations in its parking garages.
- In 2011, the University received an estimated 7 percent of its purchased electricity from renewable sources as part of Maryland's Renewable Portfolio Standard.
- The university's single stream recycling program currently diverts 18 percent of the trash to recycling.
- In fall 2011 the university expanded its composting program to all major dining halls on campus. The program reduced campus carbon emissions by 1,682 metric tonnes of carbon dioxide equivalents.

University of Maryland Eastern Shore

PROGRESS TOWARD CLIMATE ACTION GOALS

I. GHG Emissions and Reduction Targets

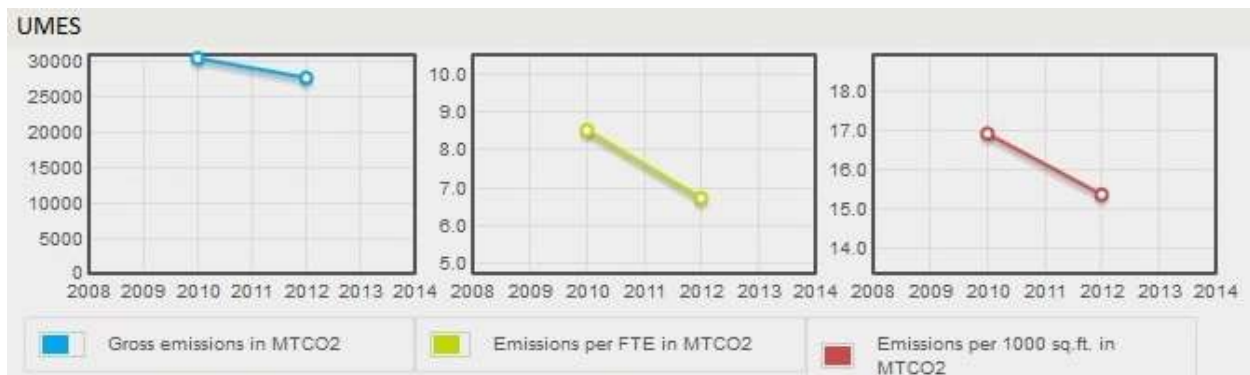
Climate Neutrality Target Date:

Interim Milestone Emission-Reduction Target	Target Date	Baseline
12% Reduction	2015	2010
25% Reduction	2020	2010
100% Reduction	2050	2010

GHGs Summary

Reporting Year	Gross Emissions	Net Emissions	FTES Enrollment	Total Bldg SF
2010	30,352.3	30,352.3	3,560	1,793,344
2012	27,599.7	26,434.4	4,104	1,794,574

Graphs



Summary Totals

- Change in GHG gross emissions: **-2,752.60**
- Change in GHG emissions per 1000 sq.ft. building space: **-1.55 (% Change)**
- Change in GHG emissions per full time enrollment (FTE): **-1.80**

University of Maryland Eastern Shore

PROGRESS TOWARD CLIMATE ACTION GOALS

II. Action Plan Summary

1. The UMES Greenhouse Gas (GHG) overall reduction level in 2012 was 12%. This target was realized three years ahead of the 2015 target of 12%. Future GHG targets are 25% by 2020, and 100% by 2050.
2. UMES with SunEdison installed and commissioned a 2.2 MW Solar Farm in March, 2011. It produces over 3,000 megawatt hours annually and will account for about 10% of UMES' annual electricity usage. To date, this facility has produced more than 7,635 megawatt hours of clean electricity.
3. UMES received a LEED Gold Certification on its renovation of a 64 year old Somerset Hall Building which houses the School of Pharmacy.
4. UMES has several grants in sustainability efforts and research in bio-fuel and bio energy research, carbon capture and coastal ecosystems. UMES received \$245,000 in external funds in January 2011 from the U.S. Department of Education and established a laboratory used in carbon capture research.
5. UMES established the Center for the Integrated Study of Coastal Ecosystem Processes and Dynamics in the Mid-Atlantic Region in fall 2010 funded by the National Science Foundation's CREST (Center for Research Excellence in Science and Technology) program for \$5 million over a five-year period.
6. UMES is developing a workforce development program with area community colleges and utilities companies aimed at providing education for the workforce in renewable energy industry.
7. UMES has incorporated sustainability courses in many academic programs.
8. UMES is negotiating with a Wind Turbine developer to install 3 MW Wind Turbine on campus as a pilot program for a larger proposed 150 MW Wind Turbine project in Maryland's Eastern Shore.
9. UMES has strengthened the role of the Student's Sustainability Engagement Committee. Students in 2012 conducted a campus wide climate change survey, and conducted UMES Green Campus Awareness Campaign rally in spring 2012 that included a Green Fashion Show.
10. Wicomico Hall, a residential dormitory renovated in August 2010, utilized geothermal energy system in heating and cooling of the building and geothermal system will be used in the new Aviation Science & Engineering building planned to open in July 2015.
11. UMES' successful energy conservation programs include efficient building and lighting systems, replacement of older heating, ventilation, and air condition (HVAC) systems and equipment, replacement of metal halide light fixtures with LED fixtures, thus reducing energy consumption in facilities and the institution's carbon footprint.
12. The use of hybrid/flex fueled vehicles, procurement of energy star products, and the use of environmentally friendly housekeeping products are part of the UMES campus e-operation.
13. UMES 2011-2016 Strategic Plan: includes: (1) engagement of faculty, staff and students in the implementation of the Climate Action Plan (CAP); (2) promotion of existing alternative transportation solutions to stakeholders; (3) development and implementation of waste reduction targets and programs; (4) creation of a smoke free campus; (5) the conduct of climate-specific research programs on carbon capture and sequestration, and gas mitigation strategies; and (6) the conduct of research on the indirect impact of ammonia reductions in poultry houses and use of growth regulators on grass to reduce energy use for maintenance.

FROSTBURG STATE UNIVERSITY

PROGRESS TOWARD CLIMATE ACTION GOALS

I. GHG Emissions and Reduction Targets

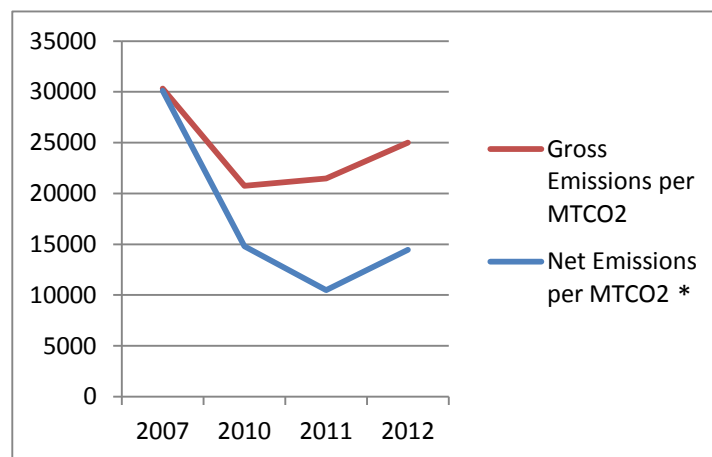
Climate Neutrality Target Date:

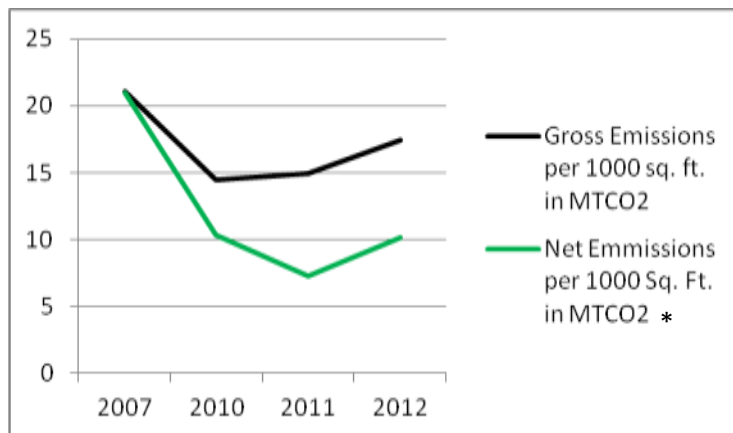
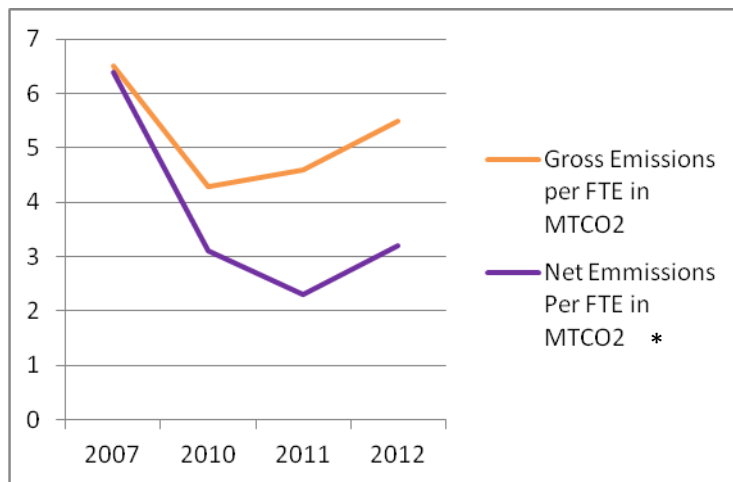
Interim Milestone Emission-Reduction Target	Target Date	Baseline
15% reduction in Total Scopes 1, 2, 3 Emissions	2010	2007
20% reduction in Total Scopes 1, 2, 3 Emissions	2014	2007
25% reduction in Total Scopes 1, 2, 3 Emissions	2016	2007
	2030	2007

GHGs Summary

Reporting Year	Gross Emissions	Net Emissions	FTES Enrollment	Total Bldg SF
2012	24,986 metric tons of CO ₂ e	14,438 metric tons of CO ₂ e	4517.0	1,435,431.0 sq ft
2011	21,479 metric tons of CO ₂ e	10,479 metric tons of CO ₂ e	4606.0	1,435,431.0 sq ft
2010	20,747 metric tons of CO ₂ e	14,809 metric tons of CO ₂ e	4791.0	1,435,431.0 sq ft
2009	No information provided			
2007	30,308 metric tons of CO ₂ e	30,088 metric tons of CO ₂ e	4652.0	1,435,431.0 sq ft

Graphs:





* Net emissions change is primarily due to purchase of renewable energy.

Summary Totals

- Change in GHG gross emissions: 21,479.00
- Change in GHG emissions per 1000 ft² building space: 14.96
- Change in GHG emissions per full time enrollment (FTE): 4.66

FROSTBURG STATE UNIVERSITY

PROGRESS TOWARD CLIMATE ACTION GOALS

II. Action Plan Summary

GOALS	ACTIONS TAKEN	PROGRESS	Completed Projects
CLIMATE ACTION PLAN			
Sustainability Leadership Structure	Office of Sustainability and Sustainability Coordinator established	Completed	Completed
Shift to Renewable Purchased Energy	Greater than 15% renewable energy purchased/year	Ongoing	Ongoing
Offset Plan	In Progress	Not Completed	
TRACKING			
Tracking Emissions and Resource Use	solid waste, recycling and metered energy is tracked	Ongoing	All most all buildings are individually metered for electricity use, meters are read monthly
Sub-Metering Analysis System	In Progress	Not completed	
Surveys and Benchmarking	In Progress	Not Completed	
Mitigation through Reduce, Reuse, Recycle			
Resource and Energy Conservation Plan	In Progress	Ongoing	Performing Arts stage relamping with LED's, Ort Library relamping, All exit signs replaced with LED's across campus, Installed low-flow shower heads in all campus residence halls, Sustainable Energy Research Facility (SERF) (Hope for LEED Platinum)
Recycling	In Progress	Ongoing	Participation in RecycleMania
Composting	In Progress	Not Completed	
Transportation Plan	No action to date	Not Completed	
Mitigation through Land Use and Foods			
LEED and Renewable Energy for New Construction		Ongoing	Lane University Center renovated to LEED Gold, new buildings to meet LEED guidelines.
Grounds Maintenance and Forest Preservation	FSU is recognized by the Arbor Day Foundation as a member of "Tree Campus USA".	Ongoing	FSU is a member of "Tree Campus USA" meeting the five core standards for sustainable campus.
Sustainable Cuisine	Continuing discussions	Ongoing	

Coppin State University

PROGRESS TOWARD CLIMATE ACTION GOALS

I. GHG Emissions and Reduction Targets

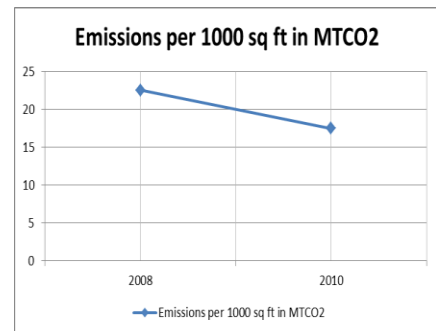
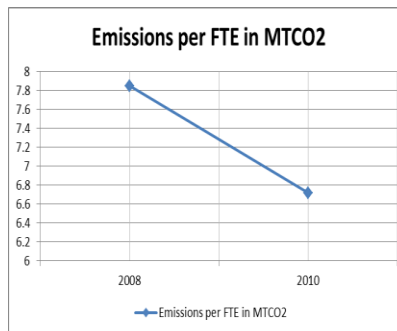
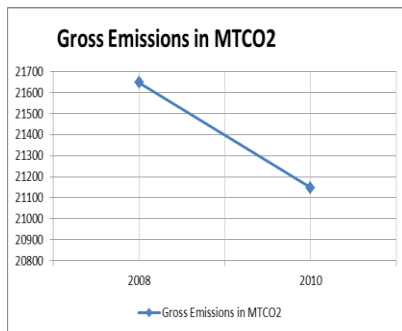
Climate Neutrality Target Date:

Interim Milestone Emission-Reduction Target	Target Date	Baseline
15% reduction of purchased electricity emissions	2015	2008

GHGs Summary

Reporting Year	Gross Emissions	Net Emissions	FTES Enrollment	Total Bldg SF
2008	21,648 metric ton	21,648 metric ton	2759	961,064
2010	21,148 metric ton	20,830 metric ton	3148	1,207,423

Graphs



Summary Totals

- Change in GHG gross emissions: 501MTCO₂
- Change in GHG emissions per 1000 sq. ft. building space: 5 MTCO₂
- Change in GHG emissions per full time enrollment (FTE): 1.1 MTCO₂

Coppin State University
PROGRESS TOWARD CLIMATE ACTION GOALS

II. Action Plan Summary

- The Energy Performance Contract was awarded and we are working towards implementing the ECM.
 - ❖ Water reduction ECM was completed.
 - ❖ Mechanical ECM is in process with the fume hood work at HHSB completed.
 - ❖ Lighting ECM is proceeding as scheduled.
 - ❖ Building envelop ECM was completed.
 - ❖ Several other projects are being analyzed to increase the energy savings at the Campus.
- The Recycling Policy of the Campus was reviewed and signed by the VPAF. Implementation is in progress and we have been able to double our recycling rate from 6.586% in 2011 to 12.78% in 2012.

Salisbury University

PROGRESS TOWARD CLIMATE ACTION GOALS

I. GHG Emissions and Reduction Targets

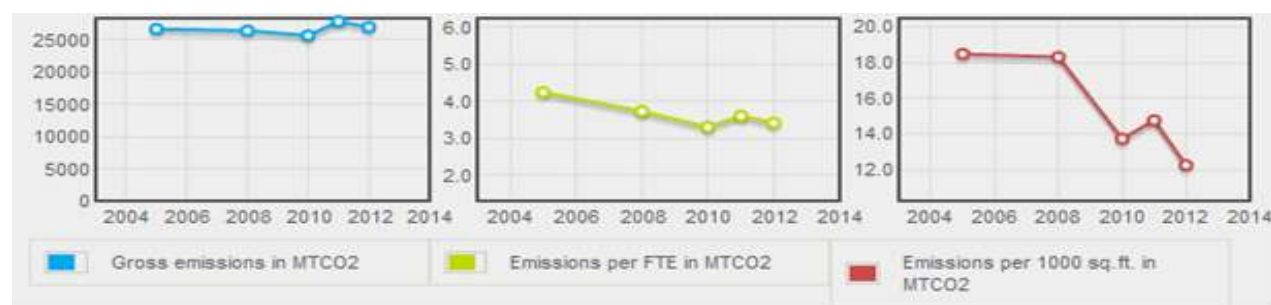
Climate Neutrality Target Date:

Interim Milestone Emission-Reduction Target	Target Date	Baseline
15% in Total Scopes 1,2,3	2012	2005
25% in Total Scopes 1,2,3	2015	2005
30% in Total Scopes 1,2,3	2020	2005
50% in Total Scopes 1,2,3	2025	2005
100% in Total Scopes 1,2,3	2050	2005

GHGs Summary

Reporting Year	Gross Emissions	Net Emissions	FTES Enrollment	Total Bldg SF
2005	26696.0	26678.0	6277.0	1444989.0
2008	26441.0	26413.62	7074.0	1444989.0
2010	25679.0	24841.62	7747.0	1871731.0
2011	27868.0	26672.62	7716.0	1889463.0
2012	27003.0	24650.62	7881.0	2206748.0

Graphs



Summary Totals

- Change in GHG gross emissions: **1485.0**
- Change in GHG emissions per 1000 sq.ft. building space: **-5.70450589278**
- Change in GHG emissions per full time enrollment (FTE): **-0.600706121148**

II. Action Plan Summary

Since Salisbury University President Janet Dudley-Eshbach signed the American College & University Presidents' Climate Commitment in 2007, the campus has grown physically while keeping its carbon footprint in check. From 2008-2012, SU has received U.S. Green Building Council LEED Silver or Gold certification for two newly constructed academic buildings, a new residence-retail complex housed in the largest building on campus, and four renovated traditional residence halls. Four of these buildings are climate controlled, in total or in part, by geothermal systems.

In 2010, SU released a plan to reduce its net greenhouse gas emissions to zero by 2050. Many of the efforts in the plan built on SU's ongoing sustainability commitment, including its 2006 partnership with Pepco Energy Services, Inc. on campus-wide energy conservation measures expected to total more than \$5.3 million in savings by 2021—a plan lauded by the Maryland Board of Public Works. Through the partnership, PEPCO replaced many of SU's lighting, plumbing and HVAC fixtures with more energy-efficient models. With renovations making many of SU's buildings more carbon-friendly since then, the University has widened its scope to focus on vehicle emissions. Initiatives have included replacing many cars in SU's motor pool fleet with hybrid fuel models, adding more bike racks and partnering with the City of Salisbury to create a bike lane on one of the most popular routes to the University to encourage students to cycle instead of drive, creating a shared ride program to promote carpooling, and installing what are believed to be the Eastern Shore's first public electric vehicle charging stations.

In the classroom, SU established an official Environmental Studies Department in 2012. Since 2010, Salisbury students have won five coveted U.S. Environmental Protection Agency Greater Research Opportunity fellowships. For several years, those with environmental interests have been able to study and reside together through SU's Living Learning Community Green Floor. The Student Government Association hosts annual celebrations for Earth Week and Campus Sustainability Day, and recently proposed a mandatory student sustainability fee that would assist with "green" efforts. Other student organizations such as the Smart Growth Club and Gulls Going Green promote sustainability to SU and the surrounding community by hosting public events including environmental speakers and film screenings. Students also have volunteered their time to help create and maintain organic gardens on and off campus.

SU also has made great strides in waste management. In 2012, the campus signed an agreement with Blue Hen Organics that allows 100 percent of food waste (including paper products) from SU's dining hall to be composted into a soil enhancement product used by area farmers and the University's Horticulture Department. The effort helps keep some 300 tons out of local landfills annually and allowed SU to recycle more than 50 percent of its total waste for the first time since its recycling program began in 1990.

Other initiatives have included installing water bottle filling stations throughout campus to encourage students to drink from reusable water bottles instead of buying bottled water and converting washers and dryers in SU's traditional residence halls to high-efficiency models. Many beyond the campus have taken notice. In addition to earning local and state "green" honors, SU has been named among the most environmentally responsible universities nationwide by *The Princeton Review*, which has included Salisbury in its *Guide to Green Colleges* for four consecutive years.

University of Baltimore

PROGRESS TOWARD CLIMATE ACTION GOALS

I. GHG Emissions and Reduction Targets

100% by 2040

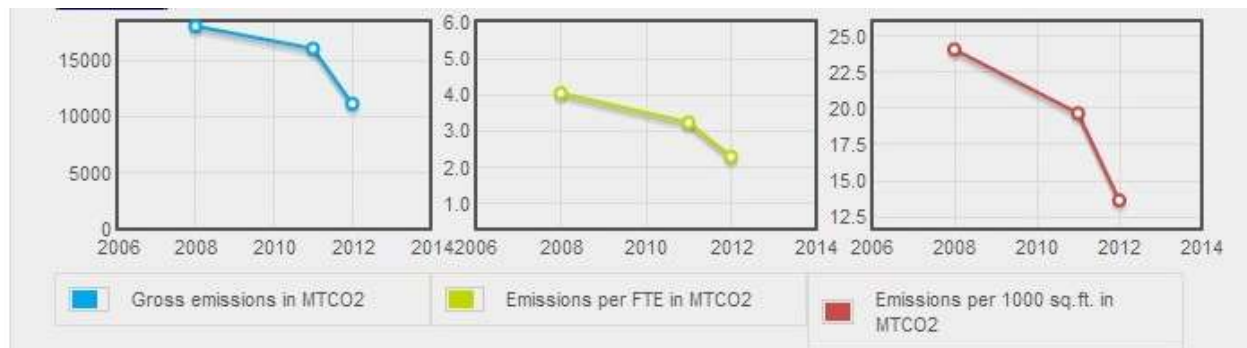
Climate Neutrality Target Date: 2040

Interim Milestone Emission-Reduction Target	Target Date	Baseline
30%	2015	2008
60%	2025	2008
90%	2035	2008

GHGs Summary

Reporting Year	Gross Emissions	Net Emissions	FTES Enrollment	Total Bldg SF
2008	18038	18038	4458	749361
2010	16045.6	16045.6	4960	816129
2012	11139	11139	4855	816129

Graphs



Summary Totals

- Change in GHG gross emissions: -6899
- Change in GHG emissions per 1000 sq.ft. building space: -10.4225976935
- Change in GHG emissions per full time enrollment (FTE): -1.75187332601

University of Baltimore
PROGRESS TOWARD CLIMATE ACTION GOALS

II. Action Plan Summary

Accomplishments include:

- Exceeding 2015 GHG goal by 2012. UB initiatives yielded a GHG reduction of over 35% from 2008 baseline. GHG reduction achieved by the combination of a reduced commuting footprint and the implementation of energy saving upgrades financed through performance contracting. Such energy upgrades include:
 - building envelope upgrades
 - installation of low flow aerators
 - installation of skylights
 - installation of green roof
 - retrofitting/replacement of inefficient chillers/boilers and other mechanical equipment
 - energy efficient computer sleep modes
 - new energy efficient lighting
- Creating a Sustainability & Human Ecology major in the Fall of 2010 that now has 42 affiliated with major
- Incorporating sustainability in staff orientations
- Heavy marketing of alternative transportation leading to quadrupling of annual student transit passes purchases since 2007
- Large increase in the number of student living close to campus
- Introduction of pre-tax faculty and staff transit passes
- Eliminating almost five acres of surface parking
- Since 2008, UB and partners developed 95 percent of campus surface parking into LEED silver or higher buildings
- The creation of a designated LEED silver student residential facility, which will functionally eliminated school commuting GHG's for these students
- LEED Platinum law facility completed in 2013, pending certification

Not listed in the 2009 Climate Action, but significant related accomplishments include:

- Planting 60 new mature trees on campus
- Planting over 300 plus native trees off-campus
- Utilizing social media to promote sustainable initiatives and educational opportunities on and off campus

University of Maryland University College

PROGRESS TOWARD CLIMATE ACTION GOALS

I. GHG Emissions and Reduction Targets¹

The University of Maryland University College has made significant progress towards climate neutrality and sustainability since signing the American Colleges and Universities President's Climate Commitment in 2007. The University has continued to serve a growing student body, employ more faculty and staff, and expand its building space without significant increases in overall greenhouse gas emissions. This accomplishment can be attributed to the strategies adopted and implemented as a part of UMUC's 2009 Climate Action Plan. Specifically, UMUC has adopted an environmentally preferable procurement policy, expanded its recycling and composting program, and created the position of sustainability coordinator.

UMUC has realized electricity cost savings and GHG stability despite adding new facilities as a result of ambitious energy efficiency investments. The University has implemented multiple energy efficiency measures in the past three years including installation of occupancy sensors, demand control ventilation and an energy recovery unit. Also, low efficiency T8 light bulbs were replaced by more efficient, high-output T5 light bulbs throughout several buildings, and the University adopted Smart power strips in most of its facilities. On the transportation front, the University has purchased alternate fuel vehicles, made video conferencing available as an alternative to air travel, and continues to communicate alternative transportation options with faculty and staff. UMUC's transportation management plan for the new Academic Center at Largo features subsidies for faculty, staff and students who commute by bicycle and reserves premium parking locations for low emissions and hybrid vehicles. UMUC continues to make climate change outreach and education a priority. The University is a member of the Maryland Green Business Registry as well as the Maryland Department of the Environment's College Climate Action Workgroup. These initiatives serve as important forums for recognizing and improving our climate neutrality efforts. Also of note, UMUC participated in the 2011 MADE-CLEAR event. Funded by the National Science Foundation, this event brought together climate science experts, sustainability managers, government officials, and k-12 teachers to discuss climate change education. Finally, the University's growing undergraduate and graduate Environmental Management programs and certificates incorporate sustainability tenets and practices.

Climate Neutrality Target Date: 2050

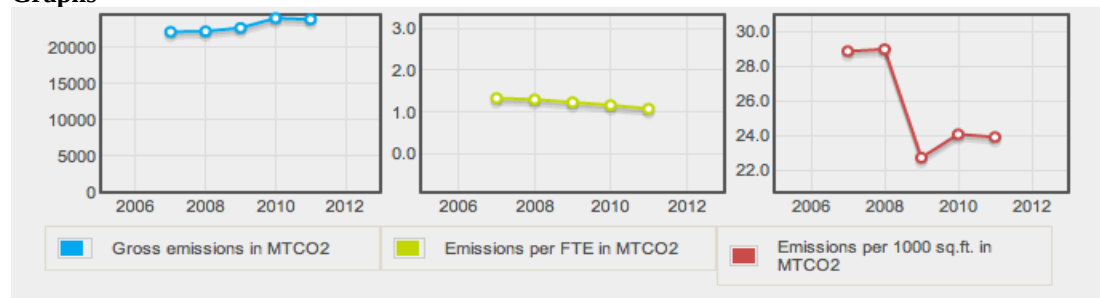
Interim Milestone Emission-Reduction Target	Target Date	Baseline
10 percent	2012	2008
15 percent	2015	2008
25 percent	2020	2008

GHGs Summary

Reporting Year	Gross Emissions	Net Emissions	FTES Enrollment	Total Bldg SF
2007 (FY)	22070.6	22070.6	16588	764839
2008 (FY)	22155.6	22155.6	17055	764839
2009 (CY)	22620.6	22572	18368	995198
2010 (CY)	23960.1	23650.3	20602	995198
2011 (CY)	23796.4	23354.1	22089	995198

¹ All progress report data and responses are from 2012 Progress Report (Submitted January 15, 2012). Available online at: <http://rs.acupcc.org/progress/330/>.

Graphs



Summary Totals

- Change in GHG gross emissions: **167,180**
- Change in GHG emissions per 1000 sq.ft. building space: **-6.734**
- Change in GHG emissions per full time enrollment (FTE): **-.124**

II. Action Plan Summary²

The UMUC Climate Action Plan (CAP) primarily focuses on strategies that will mitigate GHG emissions from electricity and transportation, which accounted for 95 percent of the University's emissions in FY 2008. The CAP puts forward 13 strategies to mitigate GHG emissions including 7 specific strategies targeted at electricity procurement (e.g., purchase electricity from sources, efficiency improvements) and 6 strategies targeted at transportation (e.g., expanding ride sharing and flexible scheduling for employees) (See Figure 1 below). Follow through of mitigation strategies will be facilitated by specific deadlines, goals and designation of responsibilities.

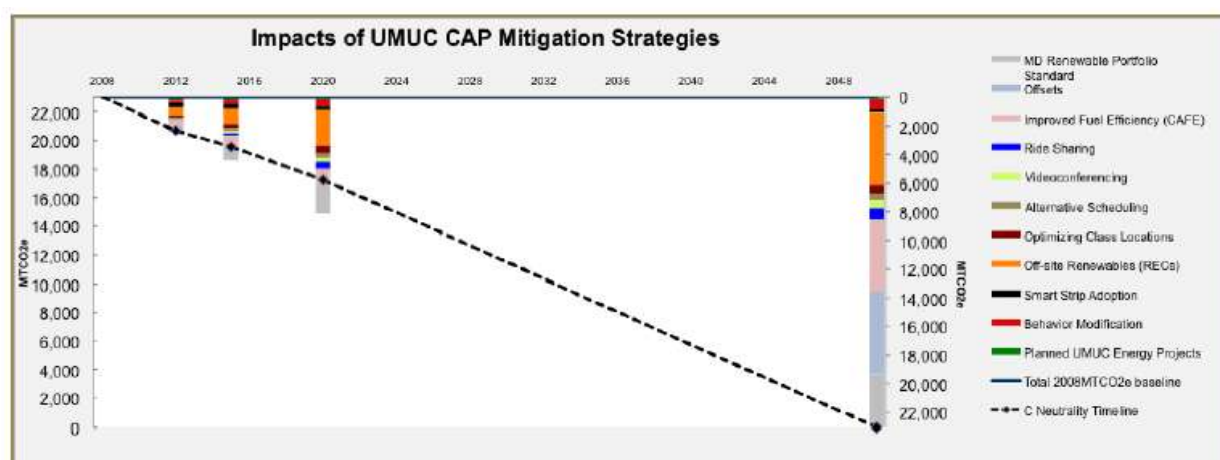


Figure 1. UMUC mitigation strategies with expected GHG reductions and milestones

Concerning education and outreach, UMUC will employ both formal (e.g., classroom) and informal educational strategies for its students and employees. The University will expand upon the Environmental Management Program by offering more courses, expanding enrollment and additional integration of climate-relevant topics. All students and employees will receive educational material during the orientation process regarding the University's commitment to sustainability and neutrality. Furthermore, a Sustainability Coordinator will be hired at UMUC to expand educational opportunities including sustainability-focused emails, seminars, and workshops.

² All climate action plan data and responses are from 2010 Climate Action Plan (Submitted January 15, 2010). Available online at: <http://rs.acupcc.org/cap/462/>.

UMBC

PROGRESS TOWARD CLIMATE ACTION GOALS

I. GHG Emissions and Reduction Targets

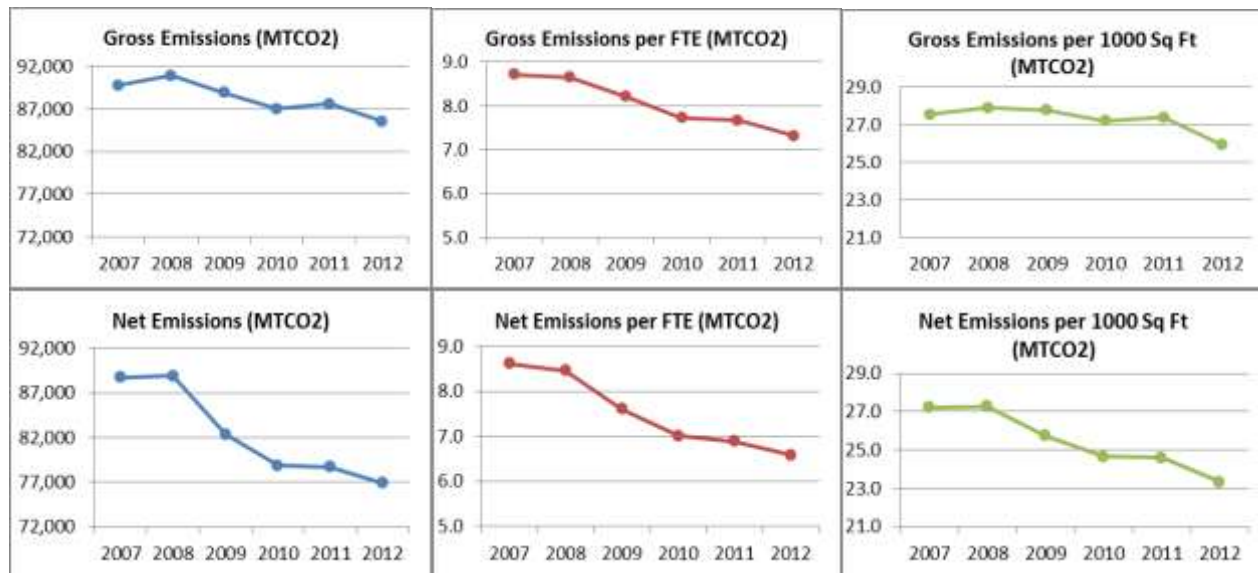
Climate Neutrality Target Date:

Interim Milestone Emission-Reduction Target	Target Date	Baseline
10% Reduction In Total Scopes 1, 2, 3 Emissions	By 2012	Relative To Baseline Emissions In 2007
15% Reduction In Total Scopes 1, 2, 3 Emissions	By 2015	Relative To Baseline Emissions In 2007
25% Reduction In Total Scopes 1, 2, 3 Emissions	By 2020	Relative To Baseline Emissions In 2007
40% Reduction In Total Scopes 1, 2, 3 Emissions	By 2030	Relative To Baseline Emissions In 2007
60% Reduction In Total Scopes 1, 2, 3 Emissions	By 2040	Relative To Baseline Emissions In 2007
80% Reduction In Total Scopes 1, 2, 3 Emissions	By 2050	Relative To Baseline Emissions In 2007
100% Reduction In Total Scopes 1, 2, 3 Emissions	By 2075	Relative To Baseline Emissions In 2007

GHGs Summary

Reporting Year	Gross Emissions	Net Emissions	FTES Enrollment	Total Bldg SF
2007	89761.0	88710.0	10295.0	3259224.0
2008	90952.0	88878.0	10509.0	3259224.0
2009	88902.0	82346.0	10824.0	3198968.0
2010	87061.0	78867.0	11263.0	3198968.0
2011	87614.0	78709.0	11429.0	3198968.0
2012	85534.0	76919.0	11693.0	3299351.0

Graphs



Summary Totals

- Change in GHG gross emissions: -2147.0
- Change in GHG emissions per 1000 sq.ft. building space: -0.152397060469
- Change in GHG emissions per full time enrollment (FTE): -1.052955139

UMBC

PROGRESS TOWARD CLIMATE ACTION GOALS

II. Action Plan Summary

Comparing FY 2012 to the FY 2007 baseline, UMBC's net CO₂ emissions have been reduced by 13.3%. Leadership has been provided by the Climate Change Task Force, comprised of faculty, staff, and students, and its four work groups- Energy and Waste Management, Transportation, Outreach, and Education and Research. A Climate Action Plan was put in place in September 2009, establishing targets to achieve Climate Neutrality by 2075.

Successful initiatives UMBC has undertaken to achieve climate goals include:

Energy and Waste Management successes include:

- Implementation of energy-saving space temperature set points and night setbacks.
- Improved occupied/unoccupied scheduling and space utilization.
- Chilled Water optimization project underway to reduce carbon footprint another 3.5%.
- Composting on campus initiated in True Grits dining hall, and moving to retail areas.
- Central Plant high-efficiency boiler upgrades including stack economizer.
- Energy Star vending machines.
- Reduced waste in Dining Hall via tray-less service and napkin dispensers on each table.

Transportation successes include:

- New, more efficient shuttles, biodiesel buses.
- 2 Zipcars on campus, a car sharing alternative to having personal vehicles campus.
- More bike racks installed on campus and on buses/shuttles.
- Improved Carpooling program with designated carpool parking spaces.
- 2 Electric Vehicle charging stations.

Outreach successes include:

- Creation of sustainability website.
- Sustainability internship program.
- "Spotlights" highlighting sustainability initiatives, seminars, and events.
- Five year report on campus efforts to address climate change issued in 2012

Education & Research successes include:

- First Year Seminar courses on climate change and sustainability initiated.
- Undergraduate program in Environmental Engineering initiated.
- Sustainability topics are included as part of new student orientation.
- Curriculum and research pertaining to sustainability is better documented and included on website.
- Faculty curriculum workshop to integrate sustainability across the disciplines this summer.
- 2013 New Student Book Experience selection is focused on climate change.
- Campus awareness rose with weeklong Earth Day events, including documentaries, tree plantings, bike clinic, speakers and more.

Planning is underway to advance further progress through the following projects:

- Introducing a green office program to reduce energy use through changes in practices and policies adopted by campus offices.
- Upgrading outdoor lighting efficiency.
- Improving biking policies and infrastructure, introducing a bike share pilot program.
- Standardizing new containers and signage for waste, dual stream recycling, and composting.

UNIVERSITY OF MARYLAND

CENTER FOR ENVIRONMENTAL SCIENCE

PROGRESS TOWARD CLIMATE ACTION GOALS

I. GHG Emissions and Reduction Targets

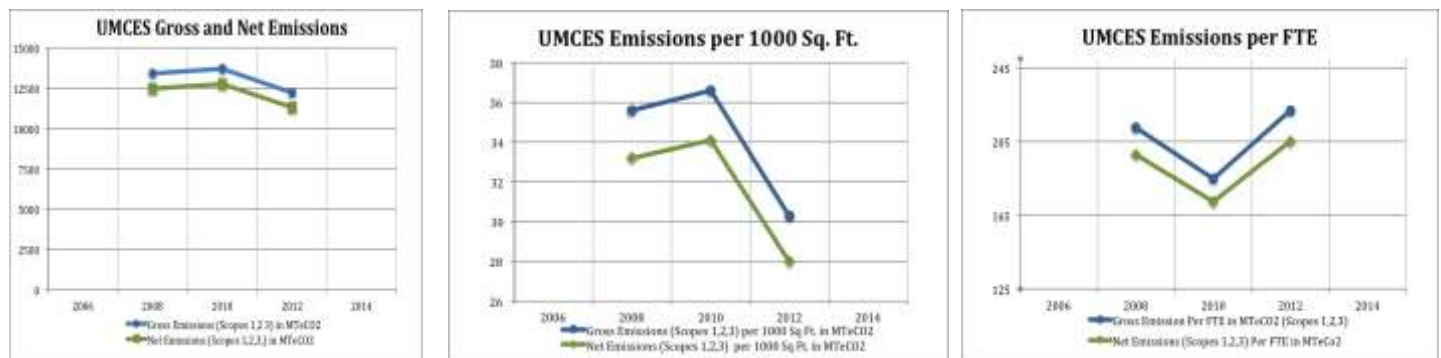
Climate Neutrality Target Date:

Interim Milestone Emission-Reduction Target	Target Date	Baseline
10%	2012	2008
15%	2015	2008
23%	2020	2008
90%	2050	2008

GHGs Summary

Reporting Year	Gross Emissions	Net Emissions	FTES Enrollment	Total Bldg SF
2008	13,399	12,480	63	375,979
2010	13,692	12,773	74	374,339
2012	12,212	11,291	55	403,637

Graphs



Summary Totals

- Change in GHG gross emissions: -1187
- Change in GHG emissions per 1000 sq. building space: -5.3
- Change in GHG emissions per full time enrollment (FTE): 9.3

UNIVERSITY OF MARYLAND
CENTER FOR ENVIRONMENTAL SCIENCE
PROGRESS TOWARD CLIMATE ACTION GOALS

II. Action Plan Summary

Our Climate Action Plan outlines the steps we will be taking to reduce our environmental impact. We have taken greenhouse gas inventories and set goals for reducing emissions at each of our laboratories. We have upgraded aging infrastructure to newer, more energy-efficient alternatives by working with Constellation Energy. Recently signed agreements will save both energy and reduce costs over the next 15 years. All new campus construction will be built to at least the U.S. Green Building Council's LEED Silver standard or equivalent. We will purchase or produce at least 15% of our institution's electricity consumption from renewable sources. We are a member of the Maryland Green Registry.

In addition to leading the Center's efforts, President Donald Boesch also leads the University System of Maryland's 12-campus environmental sustainability effort as the system's Vice Chancellor for Environmental Sustainability.

Our commitment to climate change is echoed in the development of an UMCES-wide Environmental Sustainability Council (ESC) that consists of students, faculty and staff from the Center's three laboratories, Center Administration, UMCES @IMET and Maryland Sea Grant College Program. The ESC functions as a task group and advisory body to the President and Administrative Council and serves as the "institutional structure" to guide the development and implementation of a comprehensive climate action plan in fulfillment of the ACUPCC.

GOALS

- Implement and enforce policies to "power down" during non-working hours
- Upgrade existing IVN video conferencing systems at all locations
- Install on-campus renewable energy sources
- Convert on-site fossil fuel use to biofuels
- Selectively redesign or replace HVAC systems and further insulate facilities
- Capture and re-use gray water and rainwater
- Utilize Renewable Energy Certificates and/or Carbon Offsets

PROGRESS

Projects which have been completed within the past year or are in progress:

- Replace chiller at Bernie Fowler Lab – CBL
- Waterproof and insulate porch at DuPont Bldg. – CA
- Replace windows Beaven Hall and Swift House with 70 low-e windows, vinyl insulated frames - CBL
- Replace air handling unit (AHU) in Morris Marine Lab with a programmable unit to allow for shut down at night and more closely regulate heat. This will reduce both electric and propane usage. – HPL
- Replace six split-system heat pumps at various locations at CBL
- Replace and relocate air handling unit at Appalachian Lab from an interior to exterior unit. New unit is more energy efficient and will free up mechanical room space. – AL
- Replace air handling unit heating and cooling coils at Bernie Fowler Lab – CBL
- Laboratory Exhaust System Upgrades - Installation of the variable frequency drives (VFDs) on the exhaust fans as a recommend ECM during Constellations Energy's site audit – AL (MEA SALP)
- New computer and software purchases that support web-based video conferencing so that meetings can be held for small groups over the web in lieu of traveling – all UMCES units
- Recycling and waste minimization programs in place - all UMCES units
- Increased purchasing of recycled office and maintenance products. – all UMCES units
- When necessary, replacing office computers with laptops instead of traditional desktop computers. In addition to providing portability, these machines can use as little as 25% of the electricity of a standard desktop computer and monitor – all UMCES units

When necessary, replacing non-energy efficient equipment with newer *Energy Star* models – all UMCES units

The Universities at Shady Grove

PROGRESS TOWARD CLIMATE ACTION GOALS

I. GHG Emissions and Reduction Targets

[from ACUPCC Progress Report tab of the same name]

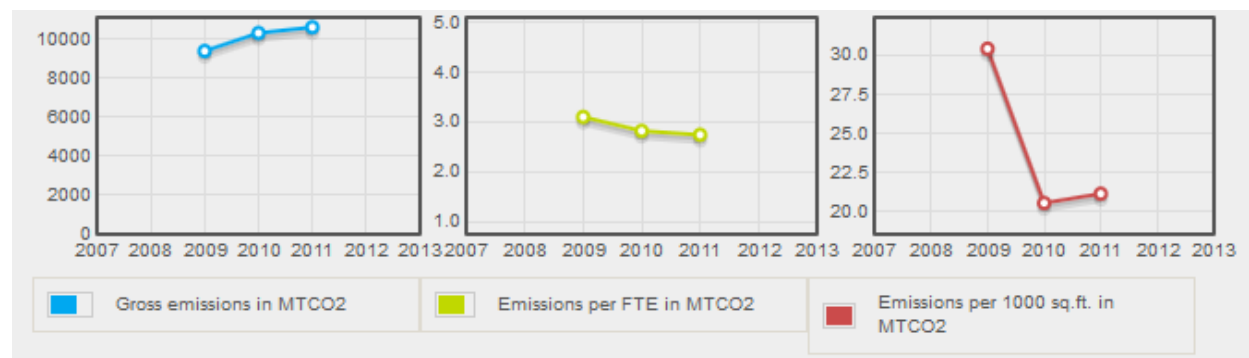
Climate Neutrality Target Date:

Interim Milestone Emission-Reduction Target	Target Date	Baseline
Reduce emissions by 25%	2020	2009
Reduce emissions by 50%	2035	2009
Carbon Neutrality	2050	2009

GHGs Summary

Reporting Year	Gross Emissions	Net Emissions	FTEs Enrollment	Total Bldg SF
2009	9370.6		3656	501,800
2010	10,261.1		3870	501,800
2011	10,492.2		4042	501,800

Graphs



	FY 2009	FY 2010	FY 2011
Gross Emissions	9,396.1	10,317.9	10,616.3
Offsets	-25.5	-56.8	-124.1
Net Emissions	9370.6	10,261.1	10,492.2

Summary Totals (above)

- Change in GHG gross emissions: Increase of 1,122 metric tons
- Change in GHG emissions per 1000 sq.ft. space: Reduction of 9.5 mtCo2e/1,000 GSF
- Change in GHG emissions per full time enrollment (FTE): Reduction of 0.4 mtCo2e/FTE



PROGRESS TOWARD CLIMATE ACTION GOALS

II. Action Plan Summary

Transportation:

- A transportation survey developed as part of Greenhouse Gas Inventory. Another survey was conducted for the Shuttle service to and from College Park.
- Developed a "Transportation Task Force" that is looking at all aspects of transportation on campus and ways to reduce our GGI.
- We are working with County officials to look at the campus comprehensively and see how public transportation to and from the campus can be increased or decreased.
- We were recently chosen by the County to have a bike share station here at USG.

Buildings:

- We had a feasibility study done on the two older buildings to consider the LEED® EB rating system.
- Working with administration to determine if we are going to apply for this rating system.

Emissions:

- We submitted a revised GGI for the years 2009-2011
- We converting an entire building (Building I) to LED lighting.
- We were able to change 662 fixtures, yielding an annual energy savings of \$20,825.47 and kWh Savings of 160,196. Using EPA Regional Emission Factors, the following Power Plant Emissions will be avoided:
 - Carbon Dioxide, 128.16 tons
 - Sulfur Dioxide, 656.80 tons
 - Nitrogen Oxides 208.25 tons

Procurement Practices:

- We are in the process of reviewing all of our procurement procedures.

Waste Reduction/Recycling:

USG continues its efforts toward waste reduction and recycling,
Recognized by Montgomery County Government for our recycling efforts.

Energy:

As noted under 'buildings' we are in the process of looking into LEED/EB for our two older buildings.

Outreach:

Hosted a "Community Day" for over 4,000 people, with a green theme and partnered with many local green businesses, non-profits, and educational partners .