

Onondaga Community College

Sustainability Action Plan



September 2009

Introduction

In May of 2007 Dr. Debbie L. Sydow, President of Onondaga Community College, signed the American College and University Presidents Climate Commitment (ACUPCC).

As a signatory to the agreement, Onondaga Community College (OCC) agreed to initiate activities designed to help the campus to achieve climate neutrality. In principle, a climate neutral organization acts proactively to offset activities that produce carbon and then release carbon into the atmosphere. Generally these offsets will either reduce or capture and sequester the carbon.

This report will focus on:

1. the actions currently underway (from May 2007) to comply with the requirements and recommendations of the ACUPCC,
2. efforts to mitigate and / or offset carbon emissions,
3. a brief overview of the results of the initial emissions inventory and
4. specific recommendations relative to future activities.

The following is a summary of activities already undertaken as well as recommendations for additional steps to allow Onondaga Community College to become climate neutral. This discussion follows the template outlined in the ACUPCC agreement.

College Profile

Student Enrollment

Enrollment	Fall 2003	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008
Headcount	8,468	8,195	8,263	9,394	10,637	10,712

Employees

For Base Year 2006			
Full Time faculty	Part time faculty	Full time staff	Part time Staff
181	627	320	222

Facilities

Building Space Sq Ft			
Gross	Laboratory	Healthcare	Residential
998,632	81,784	1,200	141,777

Source: Association for the Advancement of Sustainability in Higher Education (AASHE), 2009

Actions to date, continuing initiatives

Within two months of signing this document, create institutional structures to guide the development and implementation of the plan.

In July, 2007 OCC established a Sustainability Task Force with three subcommittees – 1) Operations, 2) Community Outreach and 3) Curriculum. The task was to focus efforts with regard to tangible actions that could be taken to promote internal and external awareness, to create an environment for organizational change, and to identify actions to meet the goals and objectives of the agreement. Task force members include students, community representatives, faculty and administrative staff.

The Sustainability Task Force endorsed the concept of three the three pillars of sustainability first attributed to the Bruntland Commission’s 1987 report, entitled “*Our Common Future*”. These pillars of sustainability are commonly regarded as being “Social Equity, Environmental Stewardship, and Economic Health”.

Although the Sustainability Task Force has recommended that Onondaga Community College consider these pillars equally, this report will focus on the efforts of the Task Force specific to meeting the requirements of the ACUPCC. The efforts of the Task Force considered the focus of being a:

- ✓ Student Centered Environment,
- ✓ Learning Focused Institution, and having a
- ✓ Community Oriented Approach

The Operations subcommittee focuses attention on the daily activities of the college departments to include, but not limited to Public Information, Management Services, Facilities, Auxiliary Services and Information Technology. Practices impacting such areas as purchasing decisions, energy management, equipment utilization and waste stream management, transportation, cleaning and maintenance were discussed with the goal of developing short, intermediate and long-term strategies to improve operations and to reduce the overall carbon footprint.

The Community Outreach subcommittee initially focused attention on internal and external messaging and programs to engage all members of the campus community; as well as to acknowledge our role as an educational leader in a community setting by providing education and training to the extended members of the community. Community leaders, students, faculty and administrators participate in this initiative. This subcommittee has been combined with the Operations subcommittee.

The Curriculum subcommittee was tasked with developing the plan to satisfy the mandate that “climate neutrality and sustainability becomes a part of the curriculum and other educational experience for students”. This subcommittee is faculty driven with participation from across the various disciplines. Approaches range from creation of an Associates Degree program leading to a transfer degree in Sustainability to a Certificate Program in Architectural Technology to a Bio-technology concentration in Physical Sciences.

Within one year of signing this document, complete a comprehensive inventory of all greenhouse gas emissions (including emissions from electricity, heating, commuting, and air travel) and update the inventory every other year thereafter.

The inventory was completed using software provided by Clean Air Cool Planet (CACP). Further discussion regarding specific metrics is contained later in this report. The initial base year data was for the 12 month period beginning September 1, 2006.

Within two years of signing this document, develop an institutional action plan for becoming climate neutral, which will include:

A target date for achieving climate neutrality as soon as possible.

It is challenging to establish a precise date for achieving complete carbon and climate neutrality. Like many academic institutions, Onondaga Community College is affected by external variables such as the national economy, development of renewable energy technologies, future cost of carbon offsets, student enrollment, physical plant growth and development; as well as local variables such as business and population contraction that directly impact the local tax base.

For two years in a row, Onondaga Community College (OCC) was the fastest growing campus among the sixty four (64) campuses that comprise the State University of New York (SUNY) system, and in December 2007 was identified by the National Trade Journal, *Community College Week*, as one of the fastest growing community colleges in the nation. Onondaga experienced a growth rate of 27.8% in Fall of 2007 as compared to Fall of 2005, with the trend continuing for Fall 2009. OCC students are primarily commuters, directly impacting Scope 3 emissions. Scope 3 emissions represented 54% of the overall CO₂ emissions profile.

These variables will impact the rate at which the human, financial and political capital can be committed to achieve climate neutrality. This must be measured against the growing body of evidence that the time for change is upon us immediately at this moment, not later. The consequence of inaction is incalculable.

A review of target dates established by other academic institutions suggest a wide variety of target dates as indicated in the table below:

Campus	Targets and Dates
Brown University	45 to 47% % below 2007 levels by 2020
Yale University	10% below 1990 by 2020
Columbia University	30% below 2006 by 2017
UC at Berkeley	1990 levels by 2014
Middlebury College	Carbon neutral by 2016
Cornell University	7% below 1990 levels by 2012
University of Florida	Aggressive scenario carbon neutral by 2020
" "	Moderate scenario carbon neutral by 2030

Source: Association for the Advancement of Sustainability in Higher Education (AASHE), 2009

However, most strategies employed by these institutions identified several similar approaches, including: behavioral change leading to increased conservation, changes in institutional culture, investment in clean and green technology, equipment and supplies, physical plant improvements that take advantage of Heating, Ventilation, and Air Conditioning (HVAC) efficiency improvements, construction that endorses Leadership in Environmental Design (LEED) concepts, and utilization of the purchase of carbon offsets as a last resort.

Later in this report there are specific recommendations by functional area that will lead to reduction of greenhouse gas emissions. One recommended strategy will be that a moderate scenario be pursued, leading to a **25% reduction over the 2006-2007 base year by 2020-2021**. It is also recommended that the strategy be dynamic and should be updated after assessing progress made against the base year.

To better understand the opportunity for reducing greenhouse gas emissions, it is important to understand the source of these emissions.

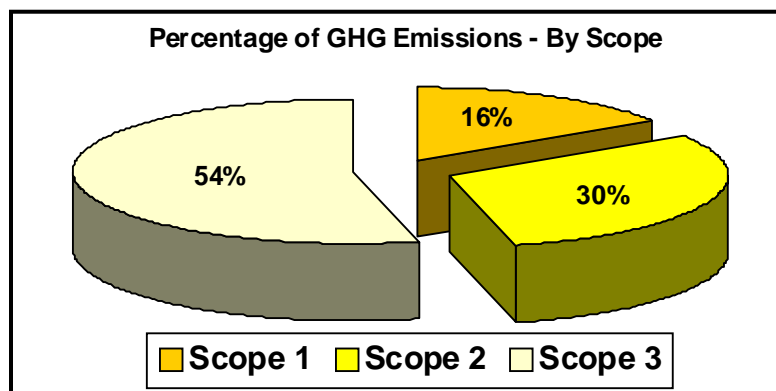
Scope 1 GHG (greenhouse gas) emissions are those directly occurring "from sources that are owned or controlled by the institution, including: on-campus stationary combustion of fossil fuels; mobile combustion of fossil fuels by institution owned/controlled vehicles; and "fugitive" emissions. Fugitive emissions result from intentional or unintentional releases of GHGs, including the leakage of HFCs (hydrofluorocarbons) from refrigeration and air conditioning equipment as well as the release of CH₄ (methane) from institution-owned farm animals." (ACUPCC Implementation Guide p. 11, 2009).

Scope 2 emissions are "indirect emissions generated in the production of electricity consumed by the institution." (ACUPCC Implementation Guide p. 11, 2009).

Scope 3 emissions are all the other indirect emissions that are "a consequence of the activities of the institution, but occur from sources not owned or controlled by the institution" such as commuting, air travel for university activities, waste disposal; embodied emissions from extraction, production, and transportation of purchased goods; outsourced activities; contractor owned- vehicles; and line loss from electricity transmission and distribution" (ACUPCC Implementation Guide p. 11-12, 2009).

Data gathered from the Clean Air Cool Planet (CACP) inventory calculator established the base year GHG emissions as the following:

- Scope 1: 2,435 metric tons (16%)
- Scope 2: 4,691 metric tons (30%)
- Scope 3: 8,320 metric tons (54%)



Interim targets for goals and actions that will lead to climate neutrality;

As stated above, Onondaga will pursue strategies leading to a 25% reduction of greenhouse gases over the 2006-2007 base year emissions as reported in the Clean Air Cool Planet Emissions Inventory by 2020-2021.

In an effort to be consistent with the ACUPCC required reporting years, Onondaga has established interim targets for reducing overall greenhouse gas emissions as follows:

Fiscal Year	Percent Reduction of Greenhouse Gas Emissions	Metric Tons of CO₂
2006-2007 (base year)	N/A	15,446
2010-2011	8 %	14,210
2012-2013	12 %	13,592
2014-2015	16 %	12,975
2016-2017	19 %	12,511
2018-2019	22 %	12,048
2020-2021	25 %	11,585

It is also recommended that the strategy be fluid and should be revisited after assessing progress made against the base year.

Actions to make climate neutrality and sustainability a part of the curriculum and other educational experience for all students.

Through external funding received from New York State, Onondaga Community College also created new curriculum in Environmental Technology - Geoscience, Architectural Technology – to promote sustainable building principles, and Automotive Technology – Automotive Emissions Monitoring and Testing. These new and revised programs will position our students to become the leaders of tomorrow’s generation with regard to development of emerging green technologies.

Other tangible activities include campus wide participation in such events as “Focus the Nation 2008”, Earth Week and the “2009 National Teach in Day”. These events featured student presentations, faculty seminars, presentations by community leaders involved in sustainability, as well as participation in webinars featuring national experts. These events were open to the larger community as well.

Student organizations such as the Whole Earth Club and Phi Theta Kappa also were actively engaged in promoting awareness during these events.

Faculty and staff from Onondaga Community College also actively participate in local activities such as the Sustainability Academy. This volunteer organization travels throughout the greater Syracuse community sponsoring a series of workshops designed to inform residents of specific activities that may be undertaken to promote sustainable living.

Faculty and staff also support the local work of local organizations involved in local sustainability initiatives - such as Greening USA, the Upstate NY Chapter of US Green Building Council (USGBC), the Creative Core Green team and FOCUS Greater Syracuse.

While it is difficult, if not impossible, to measure the direct impact upon emissions reduction, each of these activities creates the impetus to achieve the cultural change necessary to support the efforts to change activities that lead to activities that generate greenhouse gas emissions.

Onondaga Community College also recognized the obligation as a workforce development training provider to educate our workforce in sustainable technologies by providing programs such as LEED for Contractors - in partnership with USGBC, Photovoltaic Installer Training - in partnership with SUNY Environmental School of Forestry as well as training employees of our regional transportation system, Centro, with skills necessary to allow the operation of a bus fleet powered with cleaner fuels than traditional diesel engines.

Actions to expand research or other efforts necessary to achieve climate neutrality.

As a Community College, Onondaga is not actively engaged in primary research. However, Onondaga Community College has a strong relationship with SUNY-Environmental Science and Forestry (ESF), a doctoral granting research institution. Onondaga faculty and ESF faculty are routinely engaged to ensure that curriculum modifications are current and relevant.

Initiate two or more of the following tangible actions to reduce greenhouse gases while the more comprehensive plan is being developed.

Establish a policy that all new campus construction will be built to at least the U.S. Green Building Council's LEED Silver standard or equivalent.

Onondaga Community College committed to this standard during Summer 2007. In addition, at least one campus building is being brought to the LEED – EB (Existing Building) standard.

Adopt an energy-efficient appliance purchasing policy requiring purchase of ENERGY STAR certified products in all areas for which such ratings exist.

Onondaga Community College Management Services adopted this policy immediately after the agreement was signed and is in effect today.

Establish a policy of offsetting all greenhouse gas emissions generated by air travel paid for by our institution.

There currently is no policy in place. During the base year, air travel represented 1% or 202,453 total miles traveled.

Source: Clean Air Cool Planet Gas Emissions Inventory, 2008

Encourage use of and provide access to public transportation for all faculty, staff, students and visitors at our institution.

A pilot program has been established to provide enrolled Onondaga students for the fall 2008 and spring 2009 semesters with free bus service to and from the Onondaga campus and anywhere Centro travels in Onondaga County, 24 hours a day, 7 days a week. In addition, employees who use public transportation, as well as those looking at public transportation as an alternative, can now purchase bus passes “pre-tax” as part of the Fare Deal program.

Within one year of signing this document, begin purchasing or producing at least 15% of our institution’s electricity consumption from renewable sources.

Beginning in 2007-2008, Onondaga Community College began purchasing Renewable Energy Certificates (RECs) offsetting 30% of the campus electrical consumption.

Establish a policy or a committee that supports climate and sustainability shareholder proposals at companies where our institution's endowment is invested.

The investment portfolio is managed through Vanguard. There is currently no policy or practice in place to undertake this review.

Participate in the Waste Minimization component of the national RecycleMania competition, and adopt 3 or more associated measures to reduce waste.

Onondaga Community College competed in the 2009 RecycleMania Competition. The rankings and weights for Onondaga are as follows:

Onondaga Community College placed 32nd nationally in the Grand Champion Division and 2nd among New York State Colleges. 3.56 lbs of paper per person, 1.47 lbs of cardboard per person, 1.51 lbs of bottles and cans per person, and .21 lbs of food waste per person were diverted from the waste stream. Onondaga Community College also finished 11th nationally and 2nd within New York State in the waste minimization category.

Produce an Operational Plan on an annual basis that establishes specific actions and measurable objectives that can be monitored.

Attached is the 2009 – 2010 Sustainability Operational Plan which reflects a significant number of objectives to be accomplished.

Appendix A – Specific Future Recommendations

Specific future recommendations

- Establish a cost center within the operating budget for identifying revenues to support the initiatives, establishing the ability to track return on investment, as well as the commitment of financial and human resources; and to establish accountability measures to ensure that progress towards goals is both measurable and continuous.
- Establish “sustainability champions” within each campus department to promote behavioral change leading to increasing activities on campus that yield a reduction in activities that generate greenhouse gas emissions.
- Continue marketing efforts that identify OCC as a leader in sustainable practices.
- Reward innovative ideas that yield efficiency improvements.

Appendix B – Acronyms and Abbreviations in This Report

Acronyms and abbreviations in this report

AASHE	Association for the Advancement of Sustainability in Higher Education
ACUPCC	American College and University Presidents Climate Commitment
CACP	Clean Air Cool Planet
CH ₄	Methane
CO ₂	Carbon Dioxide
(SUNY)-ESF	Environmental Science and Forestry
FOCUS (Greater Syracuse)	Forging Our Community’s United Strength
GHG	Greenhouse Gas
HFC	HydroFluoroCarbon
HVAC	Heating, Ventilation, and Air Conditioning
LEED	Leadership in Environmental Design
LEED – EB	Leadership in Environmental Design for Existing Buildings
NY or NYS	New York or New York State
OCC	Onondaga Community College
RECs	Renewable Energy Certificates
sq ft	square feet
SUNY	State University of New York
UC (at Berkeley)	University of California (at Berkeley)
US or U.S. or USA	United States or United States of America
USGBC	United States Green Building Council

Appendix C – Sustainability Task Force Members

Sustainability Task Force Members

Faculty	Campus Department	Title
Ken Bobis	Architecture / Interior Design	Professor
Jim Carey	Business	Professor
Buck Gabriel	Env Tech/Geo Science	Adjunct Professor
Doug Hagrman	Chemistry / Physical Science	Assistant Professor
Deb Irwin	Teaching Center / English	Director of Teaching Center and Professor
Karl Klein	Computer Studies	Associate Professor
Peter Kraii	Biology	Associate Professor
Brian McAninch	Physical Science	Associate Professor
Gary Ruebseman	Automotive Technology	Instructor
Jim Ruddock	Architecture / Interior Design	Professor
Tim Stedman	Computer Studies	Associate Professor

Administrator / Staff	Campus Department	Title
Christina Brown	Corporate and Public Partnerships	Coordinator, Workforce Development
Laurie Couse	Residence Life	Office Assistant
David Durfey	Information Technology	Coordinator, Computing Support
Bill Emm	Administrative Services	Chief Financial Officer
Sarah Gaffney	Auxiliary Services	Director, Auxiliary Services
Terry Griffin	Educational Services	Assistant to the Provost
Rich Hillman	Information Technology	Coordinator, Computer Support
Michael Heise	Administrative Services	Assistant to the Chief Financial Officer
Amy Kremenek	Public Affairs	Chief Public Affairs Officer
Christine McCullough	Human Resources	Director, Human Resources
Mike McMullen	Management Services	Assistant Director Management Services
John Paddock	Facilities	Director of Facilities
Nicole Schlater	President Office	Assistant to the President
Steve Simmons	Facilities	Assistant Director Facilities Operations
Steve Suarez	Facilities	Assistant Director Facilities Operations
Dave Wall	Corporate and Public Partnerships	Director, Corporate and Public Partnerships

Name	Campus Affiliation	Title
Joseph Barry	Clean Communities of Central NY	Founder and Director Emeritus
David Booth	Johnson Controls	Account Executive
Stephen Crolick	Onondaga Community College	Student
John Daniel	C & S Engineering	
David Green	King & King Architects	Project Manager
Tracie Hall	US Green Building Council –	Executive Director- Upstate NY Chapter
Mark Lichtenstein	Syracuse Center of Excellence	Managing Director
Mary Ellen Mangino	Workforce Development Institute	Regional Director
Margaret McIntire	Johnson Controls	Higher Education Business Executive
Ashley O'Mara	Onondaga Community College	Student
Melissa Perry	Destiny USA	Director of Sustainability
Kayla Spivey	Onondaga Community College	Student
Jennifer Spoor	Naef Recycling	Green School and College Coordinator

2009-2010 Sustainability Operational Plan

Onondaga Community College

Auxiliary Services

- Goal Dining– To minimize the environmental and social impacts of operations while providing a variety of nutritious and sustainably grown foods at a reasonable cost to the campus community.
- Goal Bookstore– To maintain a superior level of service while striving to minimize the environmental, social, and economic impact.
- Goal – Residence Life - To minimize the environmental, social, and economic impacts of operations while providing a high quality living/learning environment.

Facilities Management

- Goal – To conserve energy, through behavioral change, demand reduction, to engage external partners in the development of facilities and best practices in the management and maintenance of physical plants.

Faculty

- Goal - To link our formal teaching mission with informal teaching opportunities to develop understanding, attitudes and habits that promote sustainability.

Information Technology

- Goal – To maximize the resources of the Onondaga Community College IT Department as a higher educational leader.

Management Services

- Goal –To build sustainability into the college purchasing policy.

Students

- Goal – To develop environmental awareness on campus and to encourage the student body to make small lifestyle adjustments to lessen their ecological footprint and therefore the campus footprint as a whole.

Transportation

- Goal – To conserve energy, reduce campus parking demand, reduce air pollution and reduce the campus' contributions to global warming through the study of our transportation practices.

Waste Stream Management

- Goal – Instilling the metric of sustainability throughout campus by generating administrative support and dedicated efforts.

Draft Sustainability Operational Plan Onondaga Community College

Strategy

Sustainability – Auxiliary Services

Goal Dining– To minimize the environmental and social impacts of operations while providing a variety of nutritious and sustainably grown foods at a reasonable cost to the campus community.

Goal Bookstore– To maintain a superior level of service while striving to minimize the environmental, social, and economic impact.

Goal – Residence Life - To minimize the environmental, social, and economic impacts of operations while providing a high quality living/learning environment.

Project/Activity	High Priority	Resources Needed	Timeframe/Completion	Criteria/Measure for Satisfactory Outcome	Progress Report
Purchase local products when feasible Auxiliary Services – Dining Services & Bookstore	X	<ul style="list-style-type: none"> o Local vendors 	Continuous	<u>Dining Services</u> <ul style="list-style-type: none"> o Meet with local produce companies to discuss the feasibility of ongoing relationships. o Relationships must be cost effective and provide high quality products. o Encourage participation in the Pride of New York program by our food service provider. The Pride of New York program: <ul style="list-style-type: none"> o Identifies items that can be purchased in local area. o Helps consumers make informed purchases. <u>Bookstore</u> <ul style="list-style-type: none"> o Research the path items take to the campus. o Compare impact of purchasing from various parties and locations. o Develop relationships with local providers. 	
Provide opportunities for the campus community to be informed about sustainability and sustainable efforts Auxiliary Services – Dining Services & Bookstore	X		Continuous	<u>Dining Services</u> <ul style="list-style-type: none"> o Identify campus educational opportunities working collaboratively with campus clubs and committees. o Communicate sustainability initiatives to the campus community. <u>Bookstore</u> <ul style="list-style-type: none"> o Expand sustainable educational materials in the bookstore. o Collaborate with college community to highlight and activities coordinated by different campus constituencies. 	
Investigate opportunities to increase sustainability within the dining services area Auxiliary Services – Dining Services			Continuous	<ul style="list-style-type: none"> o Participate in state, regional, and national food service organizations to share ideas and increase exposure to cutting edge practices. 	

Draft Sustainability Operational Plan Onondaga Community College

Strategy

Sustainability – Auxiliary Services

Goal Dining– To minimize the environmental and social impacts of operations while providing a variety of nutritious and sustainably grown foods at a reasonable cost to the campus community.

Goal Bookstore– To maintain a superior level of service while striving to minimize the environmental, social, and economic impact.

Goal – Residence Life - To minimize the environmental, social, and economic impacts of operations while providing a high quality living/learning environment.

Project/Activity	High Priority	Resources Needed	Timeframe/Completion	Criteria/Measure for Satisfactory Outcome	Progress Report
Unused prepared foods leftover in excess Auxiliary Services – Dining Services			Continuous	○ Donate usable leftover prepared foods to local food banks.	
China, flatware, and glasses Auxiliary Services – Dining Services			Continuous	○ Increase use of washable china, flatware, and glasses for catered events held on campus.	
Explore ways to help reduce the economic impact on students of purchasing texts, while also minimizing the impact printed texts have on the environment Auxiliary Services - Bookstore	X		Continuous	○ Increase percentage of used book availability by 4% annually. ○ Expand book buy back program by 4% annually.	
Create an environment of continuous learning and foster personal growth Auxiliary Services – Residence Life			Continuous	○ Provide programming that exposes residence hall students to the impacts of sustainable practices.	
Implement facility improvement measures leading to reduction in carbon emissions and utility use Auxiliary Services – Residence Life			May 2011	○ 10% reduction in carbon emissions from electricity and natural gas consumption over the 2006 base year.	

Draft Sustainability Operational Plan Onondaga Community College

Strategy

Sustainability – Facilities Management

Goal – To conserve energy, through behavioral change, demand reduction, to engage external partners in the development of facilities and best practices in the management and maintenance of physical plants.

Project/Activity	High Priority	Resources Needed	Timeframe/Completion	Criteria/Measure for Satisfactory Outcome	Progress Report
Johnson Controls (JCI) the College's Sustainable Energy Solution Partner will conduct an energy audit and recommend improvements Facilities Management	X	<ul style="list-style-type: none"> o Facilities staff o Sustainability Task Force 	Jan. 2011	<ul style="list-style-type: none"> o Energy Conservation Measures (ECMs) resulting in a minimum of 5% reduction in carbon emissions from electricity and natural gas usage over the 2006 base of 15,446 metric tons of CO₂. 	
Implement action steps in the Sustainable Landscape Master Plan in consultation with EDR, a Landscape Architect consultant Facilities Management	X	<ul style="list-style-type: none"> o Facilities staff o Public Affairs 	Continuous	<ul style="list-style-type: none"> o 10% annual reduction in fuel consumption and CO₂ emissions. o 4% annual reduction in water use. o Increase diversity of landscape materials & plants. o Communicate sustainability initiatives to the campus community. 	
Design and construct the SRC Arena as the College's 1 st LEED-NC project Facilities Management		<ul style="list-style-type: none"> o Facilities Staff o JCI o Cannon Design o C&S 	Dec. 2011	<ul style="list-style-type: none"> o Attain LEED-NC Silver or better certification. 	
Incrementally obtain LEED-EB (Existing Building) Operations and Maintenance Certified status for each existing campus facility Facilities Management		<ul style="list-style-type: none"> o External Consultant o Facilities Staff 	2020-2021	<ul style="list-style-type: none"> o Incrementally certify each existing building LEED-EB O&M. o Entire campus certified LEED-EB O&M by end of 2020-2021. 	
Reduce campus fleet emissions by using alternative vehicles (electric vehicles) and/or replacing retired vehicles with zero or low emission vehicles Facilities Management	X	<ul style="list-style-type: none"> o Facilities Management Services 	Continuous	<ul style="list-style-type: none"> o 10% annual reduction in fuel consumption and CO₂ emissions. 	

Draft Sustainability Operational Plan Onondaga Community College

Strategy

Sustainability – Facilities Management

Goal – To conserve energy, through behavioral change, demand reduction, to engage external partners in the development of facilities and best practices in the management and maintenance of physical plants.

Project/Activity	High Priority	Resources Needed	Timeframe/Completion	Criteria/Measure for Satisfactory Outcome	Progress Report
Campus suites to meet or exceed criteria for green suite Facilities Management		<ul style="list-style-type: none"> o Facilities 	Continuous	<ul style="list-style-type: none"> o New campus suites to meet green suite standard. o Convert a minimum of five existing suites each year to meet the standards of “green suites”. 	
Convert lecture classrooms to “carry in- carry out” Facilities Management	X	<ul style="list-style-type: none"> o Facilities 	Dec. 2011	<ul style="list-style-type: none"> o 20% increase in “carry in – carry out” classrooms each year. o Lecture classrooms converted “carry in – carry out” by Dec. 2011 	

Draft Sustainability Operational Plan Onondaga Community College

Strategy

Sustainability – Faculty

Goal - To link our formal teaching mission with informal teaching opportunities to develop understanding, attitudes and habits that promote sustainability.

Project/Activity	High Priority	Resources Needed	Timeframe/ Completion	Criteria/Measure for Satisfactory Outcome	Progress Report
Sustainability will be recognized throughout campus departments and students would have the opportunity to study sustainability in their coursework Faculty	X	<ul style="list-style-type: none"> ○ Faculty participation ○ Student Participation ○ Awareness 	Continuous	<ul style="list-style-type: none"> ○ Students that choose to select sustainability topics for papers and presentations will share their knowledge with the rest of the student body. 	
Raise awareness of students and staff by encouraging participation in campus sustainability events Faculty	X	<ul style="list-style-type: none"> ○ Awareness ○ Public affairs 	Continuous	<ul style="list-style-type: none"> ○ Increased participation in campus events demonstrating an increased campus commitment to sustainability. 	
To develop and maintain outreach efforts so that the campus sustainability lessons can be learned by and understood by the public Faculty	X	<ul style="list-style-type: none"> ○ Public affairs ○ Continuing and Extended Learning 	Continuous	<ul style="list-style-type: none"> ○ A momentum to create a sustainable community, by forming partnerships with community organizations and businesses. 	

Draft Sustainability Operational Plan Onondaga Community College

Strategy

Sustainability – Information Technology

Goal – To maximize the resources of the Onondaga Community College IT Department as a higher educational leader.

Project/Activity	High Priority	Resources Needed	Timeframe/Completion	Criteria/Measure for Satisfactory Outcome	Progress Report
Server consolidation and vitalization without negative effect on service levels or reliability Information Technology		<ul style="list-style-type: none"> ○ Information Technology ○ Vendors ○ Campus Community 	Continuous	<ul style="list-style-type: none"> ○ Reduce total energy consumption by efficiently utilizing current hardware ○ Reduce energy consumption by a reduction in hardware. ○ Power down unneeded servers. ○ Test, develop, and evaluate new applications without the need for a new physical server or impacting the current production servers. 	
Thin Client Computing Information Technology		<ul style="list-style-type: none"> ○ Information Technology ○ Vendors ○ Campus Community 	Continuous	<ul style="list-style-type: none"> ○ Continue to investigate and implement WYSE Terminal Thin Client solutions. 	
Lifecycle Replacement (PCs, Monitors, Network Printers) Information Technology	X	<ul style="list-style-type: none"> ○ Information Technology ○ Campus Community ○ Vendors 	Continuous	<ul style="list-style-type: none"> ○ Reduce total energy consumption and environmental impact by incorporating sustainability into the PC Lifecycle Replacement Policy focusing on PCs and peripherals. ○ IT will continue to purchase Network Laser Printers with Duplex printing capabilities. 	
Lifecycle Replacement (Audio Visual) Information Technology	X	<ul style="list-style-type: none"> ○ IT ○ Campus Community ○ Management Services 	Sept 2010	<ul style="list-style-type: none"> ○ Investigate the creation of a Lifecycle Replacement Policy/Schedule for Audio Visual Equipment. 	
PC – Energy Savings Mode Information Technology	X	<ul style="list-style-type: none"> ○ Information Technology ○ Campus Community 	Continuous	<ul style="list-style-type: none"> ○ Reduce total energy consumption and environmental impact by incorporating sustainability in the Energy Savings/Power Option setup of campus PCs. ○ Set up campus PC's in energy savings mode as follows: <ul style="list-style-type: none"> ○ Employee office computers- screen saver enabled after 10 minutes; after 30 minutes of no activity, the pc goes into Standby. ○ Student use PC's- screen saver enabled after 10 minutes; after 30 minutes of no activity, the pc will shut down. ○ Smart classrooms- Deepfreeze-shut down after 2 hrs of inactivity. 	
Duplex Printing Information Technology		<ul style="list-style-type: none"> ○ IT ○ Management Services ○ Vendors 	Continuous	<ul style="list-style-type: none"> ○ Change default settings on network printers to duplex printing where applicable. 	

Draft Sustainability Operational Plan Onondaga Community College

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Sustainability – Information Technology

Goal – To maximize the resources of the Onondaga Community College IT Department as a higher educational leader.

Project/Activity	High Priority	Resources Needed	Timeframe/Completion	Criteria/Measure for Satisfactory Outcome	Progress Report
Reduction of Desktop Ink Printers Information Technology		<ul style="list-style-type: none"> ○ Sustainability Task Force ○ IT ○ Mgmt. Servs ○ Campus Community 	Continuous	<ul style="list-style-type: none"> ○ Dramatically reduce the number of local desktop ink printers. ○ Develop a program to target efficient use of network printers and fully adopt network model throughout campus. ○ Require Division Head approval with justification for any future personal desktop printer purchase requests. 	
Student Print Management Solution Information Technology	X	<ul style="list-style-type: none"> ○ Sustainability Task Force ○ IT ○ Mgmt. Servs. ○ Campus Community 	Continuous	<ul style="list-style-type: none"> ○ Develop a plan to increased awareness of the amount of consumables we use and currently waste. ○ Develop and implement a student print quota. 	
On-Line Learning and Virtual OCC Information Technology		<ul style="list-style-type: none"> ○ IT ○ Online Lrning ○ SUNY SLN ○ Campus Community 	Continuous	<ul style="list-style-type: none"> ○ Continue IT support and involvement with On-Line Learning and Virtual OCC budgeted initiatives and projects. 	
Reduction of Paper Use/Generation Information Technology	X	<ul style="list-style-type: none"> ○ Information Technology ○ Campus Community 	Continuous	<ul style="list-style-type: none"> ○ Continued IT support and involvement in approved and budgeted projects/initiatives to reduce the need for paper forms, applications and etc. 	
Media Link Information Technology		<ul style="list-style-type: none"> ○ IT ○ Vendors 	Continuous	<ul style="list-style-type: none"> ○ The Audio Visual Department is able to remotely monitor, control, and power off Smart Classroom equipment. 	
Research and Development Information Technology		<ul style="list-style-type: none"> ○ IT ○ Sustainability Task Force ○ Campus Community ○ Vendors ○ User Groups ○ List Servs 	Continuous	<ul style="list-style-type: none"> ○ The continued encouragement to research new technologies, options, devices, etc to further Onondaga's climate-neutral action plan. 	

Draft Sustainability Operational Plan Onondaga Community College

Strategy

Sustainability – Management Services

Goal –To build sustainability into the college purchasing policy.

Project/Activity	High Priority	Resources Needed	Timeframe/ Completion	Criteria/Measure for Satisfactory Outcome	Progress Report
Purchase Renewable Energy Certificates (RECS) to offset carbon footprint Management Services	X	<ul style="list-style-type: none"> ○ Funds to purchase the RECs 	Annually	<ul style="list-style-type: none"> ○ Purchase 15% or more of electricity from renewable sources. 	
E-purchasing Management Services	X	<ul style="list-style-type: none"> ○ Management Services ○ IT Personnel 	December 31, 2009	<ul style="list-style-type: none"> ○ 100% Implemented and utilized to support sustainability ○ Gain 15% in costs savings. 	
Purchase Energy Star Certified appliances Management Services	X	<ul style="list-style-type: none"> ○ Management Services ○ IT Personnel 	Continuous	<ul style="list-style-type: none"> ○ All Appliance and Computer Monitors are Energy Star Certified. 	
Require Architects and Engineers to design new campus construction that will be built to at least the U.S. Green Building Council's LEED Silver standard or equivalent Management Services	X	<ul style="list-style-type: none"> ○ Management Services ○ Facilities personnel ○ External Consultant ○ funding for LEED Cert. 	Continuous	<ul style="list-style-type: none"> ○ All new campus construction is certified LEED Silver. 	
Assist Campus Facilities in the Procurement of green seal certified industrial paper products Management Services		<ul style="list-style-type: none"> ○ Campus facilities ○ Management Services ○ Funding 	Continuous	<ul style="list-style-type: none"> ○ Investigate campus utilization green seal industrial paper products. 	
Reduction of chemical and energy usage by the campus duplicating department Management Services		<ul style="list-style-type: none"> ○ Funds to purchase updated equipment 	Continuous	<ul style="list-style-type: none"> ○ Keep duplicating equipment updated reduces efficiency, chemical usage and energy consumption. 	

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Strategy

Sustainability – Management Services

Goal –To build sustainability into the college purchasing policy.

Project/Activity	High Priority	Resources Needed	Timeframe/Completion	Criteria/Measure for Satisfactory Outcome	Progress Report
Green purchasing and procurement policies through the management services department Management Services	X	<ul style="list-style-type: none"> o Management services 	Continuous	o Develop and follow purchasing policies where a minimum of 30% of campus purchases are focused on sustainability.	
Surplus equipment will be evaluated of use by other campus departments and affiliated agencies Management Services		<ul style="list-style-type: none"> o Management services o Financial Services 	Continuous	o Campus equipment will be used throughout its entire life cycle reducing the need to purchase new equipment and furnishings.	
Review existing bid verbiage for the potential of including product origin as part of campus bids Management Services		<ul style="list-style-type: none"> o Management Services 	Continuous	o Potential reduction of the transportation footprint associated with transportation of goods to campus if a policy could be adopted.	

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Strategy

Sustainability – Students

Goal – To develop environmental awareness on campus and to encourage the student body to make small lifestyle adjustments to lessen their ecological footprint and therefore the campus footprint as a whole.

Project/Activity	High Priority	Resources Needed	Timeframe/Completion	Criteria/Measure for Satisfactory Outcome	Progress Report
Encourage recycling and composting on campus through the website and campus publications. - Participate in Recyclemania Students		<ul style="list-style-type: none"> o Public Affairs o Facilities o Sustainability Task Force o Student Government o Student Body 	Continuous	<ul style="list-style-type: none"> o Increase in the amount of materials being recycled and composted on campus by 15% annually. o Place in the top three colleges in NY for Recyclemania competition. 	
Energy conservation- encourage students living in the residence halls to reduce energy consumption by encouraging the use of compact fluorescent bulbs, keeping room windows closed and unplugging electronic devices over breaks and when not in use Students	X	<ul style="list-style-type: none"> o Public Affairs o Facilities o Sustainability Task Force o Student Government o Student Body o Residence hall staff 	May 2011	<ul style="list-style-type: none"> o Creation of the Guide to Living Green at Onondaga (publication given to each residence hall member). o 10% reduction in carbon emissions from electricity and natural gas consumption over the 2006 base year. 	
Engage students' participation in Earth Week and Campus Sustainability Week activities Students		<ul style="list-style-type: none"> o Public Affairs o Student Assoc. o Student Govt. o Res. hall staff 	Continuous	<ul style="list-style-type: none"> o Communicate sustainability initiatives to the campus community. o Educate students about campus sustainability practices. 	

**Draft Sustainability Operational Plan
Onondaga Community College**

Strategy

Sustainability – Transportation

Goal – To conserve energy, reduce campus parking demand, reduce air pollution and reduce the campus’ contributions to global warming through the study of our transportation practices.

Project/Activity	High Priority	Resources Needed	Timeframe/Completion	Criteria/Measure for Satisfactory Outcome	Progress Report
Continued investigation of transportation options, programs, and incentives for students and employees Transportation		<ul style="list-style-type: none"> ○ Funds ○ Auxiliary Services ○ Human Resources 	Continuous	<ul style="list-style-type: none"> ○ Increased use of public transportation will reduce the amount of personal use vehicles commuting daily. ○ Create a parking permit fee that would give incentives for individuals driving hybrid, low emission vehicles, or who carpool. 	
Encourage the use of non-fossil fueled vehicles commuting to campus by creating more bicycle parking on campus and completion of the bike lane on the campus road Transportation		<ul style="list-style-type: none"> ○ Funds ○ Facilities 	3 years	<ul style="list-style-type: none"> ○ 10% annual reduction in fuel consumption and CO₂ emissions. 	
Increase in the number of campus peace officers and facilities employees using bicycles for campus transportation Transportation		<ul style="list-style-type: none"> ○ Funds ○ Facilities ○ Peace Officers 	Continuous	<ul style="list-style-type: none"> ○ 10% annual reduction in fuel consumption and CO₂ emissions. 	

**Draft Sustainability Operational Plan
Onondaga Community College**

Additional Plan Feedback and Notes

Project/Activity	High Priority	Resources Needed	Timeframe/Completion	Criteria/Measure for Satisfactory Outcome	Progress Report
Waste stream management Waste Stream Management	X	<ul style="list-style-type: none"> ○ Facilities ○ Public affairs 	Continuous	<ul style="list-style-type: none"> ○ A successful waste reduction plan will result in a decline in the amount of recyclables. ○ Recycling throughout auxiliary areas of campus will increase 20%. 	
Expansion of campus composting efforts Waste Stream Management		<ul style="list-style-type: none"> ○ Increased staffing or dedicated time 	Continuous	<ul style="list-style-type: none"> ○ An increase in composting efforts in the Children’s learning center and satellite cafeteria in Mawhinney Hall. 	
Use of Earth friendly cleaning products by campus facilities Waste Stream Management		<ul style="list-style-type: none"> ○ Funds within operating budget 	Continuous	<ul style="list-style-type: none"> ○ Campus facilities will continue the use of earth friendly, sustainable cleaning products. 	
Hire Chief Sustainability Officer to coordinate campus sustainability efforts Waste Stream Management	X	<ul style="list-style-type: none"> ○ Funds within operating budget 	January 2010	<ul style="list-style-type: none"> ○ Hire Chief Sustainability Officer. 	
Reduce campus paper use Waste Stream Management		<ul style="list-style-type: none"> ○ Funds within operating budget ○ IT Support ○ Public Affairs 	Continuous	<ul style="list-style-type: none"> ○ Enhance promotion of sustainability efforts to include further emphasis on “thinking about the environment before printing”. ○ Increase use of electronic forms such as an electronic time keeping system, electronic applicant flow system. 	