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10 YEAR SUSTAINABILITY PLAN

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Dear Students, Faculty and Staff,

I am pleased to report that City College of New York (CCNY) is making significant progress toward reaching the goals of becoming a sustainable campus. The comprehensive action plan we developed is already impacting everything we do in terms of our energy consumption, recycling, waste reduction, and purchasing practices.

The present action plan describes how we are enriching our curriculum and research practices, as well as enhancing the way we engage students in reaching our goals. We are reducing energy consumption through sustainable maintenance practices and automated systems controls. We are campaigning to decrease our consumption and increase our overall recycling. We are also stepping up our efforts in purchasing products that are environmentally friendly.

We recognize that as an institution of higher education, our role goes beyond adopting sustainable operating practices. Therefore, we are committed to changing the way we teach, learn, conduct research, and live at CCNY by implementing leadership through example in our community.

An example of this commitment is our participation in the 2011 U.S. Department of Energy Solar Decathlon competition. More than 100 students from the Bernard and Anne Spitzer School of Architecture, and Grove School of Engineering were involved in designing and building a solar-powered home for high-density urban environments like New York City. Aided by faculty advisors, alumni, and other supporters, the Solar Roofpod was a successful endeavor.

As Team New York, they developed the interdisciplinary problem-solving skills required to meet the challenges of sustainable design and living. They learned about construction management techniques, energy systems design, and about operation and sustainable materials and building products. Additionally, they raised awareness for sustainable design and solar-powered living through a successful communications campaign that garnered widespread media coverage.

Our ongoing sustainability commitment extends our impact far beyond the borders of our campus. Through students activities, research and serving learning courses, we are actively helping the surrounding community and other New York neighborhoods understand and meet their environmental challenges. Through our curriculum, research centers, key faculty and our masters degree in sustainability, we are preparing a new generation to address the challenges in a world where environmental concerns take on heightened importance.

My thanks to all at CCNY who have worked so hard to develop and carry out our campus sustainability master plan and to Sustainable CUNY for their leadership and counsel. I look forward to updating you on our progress in the coming years.

Sincerely,

Lisa S. Coico
President
The City College of New York Overview

Campus Mission Statement
“Committed to rethink and adapt the way we teach, learn, conduct research, and operate as an institution.”

CCNY will work to lower its carbon footprint by reducing its greenhouse gas emissions, increasing our recycling and sustainable planting. We will ensure campus sustainability by fostering environmentally sound habits and behaviors across the campus while engaging the Harlem community. CCNY will carry out this mission by exercising leadership in education and research, always mindful of our urban setting and the needs of the richly diverse population that we serve.

Campus Description and Scope
The CCNY campus occupies 35 acres along Convent Avenue from West 130th Street to West 141st Street in New York City. The five original buildings were designed by George B. Post and are considered some of the finest examples of neo-Gothic architecture at any institution in the United States. Today the campus consists of 16 buildings totaling approximately 3 million square feet, and an additional 400,000 square feet are under construction on the southern area of the campus and scheduled for completion by the year 2014.

Founded in 1847, CCNY was the first free public institution of higher education in the United States. By upholding high admissions standards and requiring a high level of accomplishment for obtaining a degree, CCNY continues its commitment to accessibility and excellence in both undergraduate and graduate education.
City College is one of the most diverse institutions in the United States, with over 85% of our students identified as members of ethnic minorities. Through its divisions of Humanities and the Arts, Science, Interdisciplinary Studies, and professional schools of Biomedical Education, Engineering, Architecture, and Education, CCNY provides its diverse student body of over 16,500, with opportunities in academic, creative, and professional fields. Many programs at CCNY create unique opportunities for all students, especially those from under-represented groups, to fully participate in research, scholarship, and community service.
Plan Summary

This plan has been prepared under the guidance of the CCNY Sustainability Taskforce. Leadership is provided by CCNY’s President, Dr. Lisa S. Coico.

The bulk of the greenhouse gas reductions will be achieved through projects addressing energy consumption. However, the campus community, faculty, staff and students, will be asked to make behavioral changes that will help reduce our emissions. It is our goal that these actions not only help CCNY reduce its carbon footprint, but that it will create an important connection for students between what they learn in the classroom, and the impact they have on their physical environment.

The majority of CCNY’s greenhouse gas emissions is mitigated through projects that address energy consumption across campus facilities such as: Participation in the New York Power Authority (NYPA) Peak Load Management Program, CUNY’s renewable energy purchase program, campus-wide steam trap installation and maintenance, and Heating, Ventilating, and Air Conditioning (HVAC) system retro-commissioning.

Our energy reduction goals for the next five years target potential capital projects. We have already completed phase I of our HVAC system upgrade project for the Marshak building with the installation of a curtain wall around the 13-floor tower.

The old heat exchanger assembly and pumps in our NAC boiler plant have been renovated and steam-traps have been upgraded. Shepard Hall, a 1907 Gothic stone structure, is also undergoing a comprehensive exterior
renovation that will result in energy saving maximization and cost reductions. Recently, 175 laboratory fume hoods were retrofitted with low flow ventilation fans that reduce the potential of exhaust air being re-introduced into the air intakes.

CCNY also seeks to decrease carbon emissions by encouraging the use of public transportation, biking, carpooling, and walking. We provide accommodations for cyclist commuters and incentives to those who use hybrid vehicles for their commute to campus. CCNY has replaced regular gasoline buses with energy efficient diesel vehicles, natural gas, and electric vehicles for its fleet.

In the area of recycling, CCNY has invested in 30-yard containers to separate garbage from recyclables and e-waste is diverted through a third-party company. In addition, we have partnered with the Department of Sanitation of New York to track all waste that leaves our premises. This partnership allows us to accurately analyze our consumption habits and explore better “reduce and reuse practices”. A new Data Center opened September 2011 with over 300 PC & MAC computers in the North Academic Building. All computers, carpets, and furniture are certified recyclable.

During the Spring of 2011, we kicked off our “Rethink & Reconsider” campaign that educates the college community about our recycling practices. Our food service contractor, Metropolitan, has also adopted our campaign in order to improve recycling in key locations around campus.

In an effort to reduce water waste, we have installed low flow plumbing faucets across campus and posted signs in bathrooms with contact information for reporting leaks or other problems. We have installed 3 eco-
friendly hydration stations to decrease the use of plastic water bottles and promote the use of refillable water containers; we plan to install a total of 8 on campus, 5 more on Spring 2012.

CCNY Masters Program in Sustainability partners with the NY Restoration Project in managing 130,000 gallons/year of NYC’s storm water runoff. The new CUNY Advance Science Research Center (ASRC) and the CCNY Research Building, currently under construction in our south campus, have incorporated solutions to reduce storm water runoff.

CCNY’s procurement program goals are to purchase the best quality goods and services at the best possible price from the most responsible vendors. We have aligned our procurement policies with the goal of reducing greenhouse emissions. These purchasing practices include buying Energy Star-rated appliances and equipment, increasing the number of alternative-fuel vehicles acquired, and buying at least 33% of all items purchased made with recycled materials. We purchase environmentally friendly cleaning products, and we include contract requirements with on-campus service providers to comply with CCNY sustainable policies. We have also implemented policies regarding the purchase of computers, carpets, and furniture that can be recycled.

Beginning Fall 2009, Metropolitan, our food vendor, implemented our policy of buying seasonal produce from farmers within 150 miles of campus. By Fall 2010, they had doubled the amount of locally grown produce they purchased and offered them in the newly renovated student café located in the Hoffman Lounge and in our new venue in the Marshak building, called the “Marshak Gallery Café.”

CCNY’s strategies in the area of Sustainable Outreach and Education are designed to expand on the foundation already in place,
In Fall 2011, over 100 of our students participated in our first Solar Decathlon, a competition by the U.S. Department of Energy, challenging teams to design, build, and operate an affordable, efficient and appealing solar-powered house. The “Solar Roofpod” will return to campus for permanent installation, and serve as a sustainable design learning tool. Participation in this event is one of the many ways we focus on educating and training the next generation of professionals to compete in the fields of sustainable building and renewable energy.

which benefits from a faculty and student body committed to and aware of climate change issues. This helps to foster leadership in the culture of sustainability on campus and within the community, and helps to make sustainability an integral part of the academic curriculum and research practices.

We are preparing our students to meet the environmental challenges of the 21st century by engaging all of our resources in offering an undergraduate degree in Environmental Engineering and an interdisciplinary Masters of Science in Sustainability in the Urban Environment. During the past four years, we have hired additional top climate research scientists to join our already engaged faculty. Currently, we offer a course on Global Climate Change as part of the core curriculum for our non-science majors.

The University’s Energy Institute which performs research on sustainable energy technologies, the New York NOAA-CREST center, and CUNY’s Environmental CrossRoads Initiative are located in our campus. In addition, the Economics, Business, and Earth and Atmospheric Sciences departments are jointly developing an undergraduate major in Environmental Studies.
The City College of New York Campus Sustainability 10-Year Plan

Action Plan by Pillar Area
Established by the Office of the President in 2007, The CCNY Green Taskforce consists of seven teams of students, faculty and staff. Guiding our efforts of becoming a more sustainable campus, CCNY Green monitors the areas of energy, water, transportation, recycling, procurement, nutrition, and community outreach.

Several tracking and reporting systems are used to monitor our progress toward achieving the goals for each area and the over-arching aim of reducing CCNY’s greenhouse gas emissions by 30 percent by 2017 and to an effective level of zero by 2050.

CCNY periodically checks its progress toward achieving its energy goals by using a greenhouse gas emissions measurement tool developed specifically for this purpose. This measurement tool follows the guidelines of the World Resources Institute; this tool provides information on greenhouse gas emissions associated with mobile and stationary fuel sources, fugitive sources, process sources, purchased electricity and steam, as well as solid waste quantities, and greenhouse gases generated by commuters.

Figure 1 and 2 illustrate CCNY CO2 equivalent emission totals.

Figure 1. Source: O’Brien and Gere

Figure 2. Source: O’Brien and Gere
The campus infrastructure makes up approximately 80 percent of CCNY’s energy consumption. Re-evaluating the way we use energy is our best opportunity to reduce our greenhouse gas emissions. We can achieve our goals through conservation, renewable energy, accurate tracking, and behavioral changes.

### CCNY / PlaNYC Energy Conservation Measures (ECM)

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<th>ECM No.</th>
<th>Energy Conservation Measure Description</th>
<th>Annual Electrical Savings (kWh)</th>
<th>Annual Fossil Fuel Savings (MMBtu)</th>
<th>Annual Energy Cost Savings ($)</th>
<th>Capital Cost ($)</th>
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MMBtu = 1,000,000 Btu  
MT CO₂E = Metric tons of CO₂ equivalent emissions

Source: O'Brien and Gere / Note: projects indicated with (*) identified for potential implementation.
In order to support CCNY’s commitment to PlaNYC, our greenhouse gas inventory program was developed following both the WRI/WBCSD and ICLEI greenhouse gas accounting protocols. These protocols were adopted by the Intergovernmental Panel on Climate Change for national-level greenhouse gas inventories.

Current Goals:
- Continue to install high efficiency lighting fixtures and switches.
- Replace all window air conditioner (A/C) units with Energy Star versions.

Future Goals:
- Replace steam-traps in Marshak to reduce heat loss and enhance cooling when appropriated.
- Upgrade and update the Heating Ventilation and Air Conditioning System (HVAC) in Compton Goethals, Baskerville Hall and Steinman building.
- Replace all existing vending machines to Energy Star rating machines.

Students in one iMedia Study Room in cTy Technology Center (NAC First Floor)

The Solar Roofpod investigated the reuse of space in dense urban environments by harnessing the power of the sun to produce clean energy.
Water

- Completed Goals:
  - Three hydration stations have been installed in the NAC, Marshak, and Steinman buildings.
  - Contact information for reporting leaks or other problems has been posted in bathrooms.
  - Low flow toilets and faucets fixtures have been installed across campus.

- Current Goals:
  - Installation of 5 additional hydration stations across campus.

- Future Goals:
  - Develop education campaign to prevent water waste and minimize consumption.
  - Assess possibilities to reduce storm water runoff.

During periods of heavy rainfall storm water runoff exerts pressure on NYC’s sewer infrastructure. CCNY currently partners with the NY Restoration Project which manages approximately 130,000 gallons of storm water per year to reduce combined sewer overflow into the Gowanus Canal. In addition, Team New York’s Roofpod was designed to help mitigate water runoff from building’s rooftops.
Transportation

- Completed Goals:
  - Switched vehicles in our fleet from regular fuel power to fuel-efficient, hybrid or electrical vehicles.
  - Installed bicycle racks across campus to encourage cycling rather than driving.
  - Set up reduced parking rates to those who drive hybrid fuel vehicles to campus.
  - Run extended hours for the shuttle bus service to and from subways stations in order to encourage utilization of public transportation.

- Goals in Progress:
  - Meticulously collect data on fuel consumption and costs in order to help us understand our practices and therefore, help us reduce emissions.

- Future Goals:
  - Continue to conduct surveys to assess potential emission savings by changing driving patterns.
  - Purchase only fuel-efficient or hybrid vehicles when replacing or adding to the fleet.

CCNY benefits from its proximity to public transportation. Most of our students use public transportation to commute to campus; therefore, we are focusing our energy conservation activities on promoting walking, cycling, carpooling, and acquiring fuel efficient vehicles.
An extensive recycling program and marketing campaigns are encouraging everyone on campus to recycle, reuse, and to consume less. We not only separate paper, plastic, and metal, but also properly dispose of e-waste, carpeting, batteries, and construction debris.

- Completed Goals:
  - Installed three hydration stations to decrease the use of plastic water bottles and promote the use of refillable water containers.
  - Donated computers and electronic equipment that were repaired for re-use rather than sent to dismantlers.
  - Installed electric Dyson hand dryers in restrooms to reduce paper waste.
  - Provided training to facilities and custodial staff to increase awareness of recycling and conservation practices.
  - Partnered with the Department of Sanitation of New York to track all waste that leaves the premises in order to analyze our consumption habits and explore better “reduce and re-use practices”.
  - Recycled used cooking oil into biodiesel fuel (Metropolitan).
- Goals in Progress:
  - Launch a major recycling campaign with posters and advertisements on key locations such as offices, computer labs, restrooms, and cafeterias.
  - Study the areas where recycling efforts can be increased or modified, by continually evaluating the use of receptacles and locations across campus.
  - Install five more hydration stations and promote the use of refillable containers by launching a campaign during which students can trade-in a bottle of water in exchange for a refillable container.
  - Continue enforcing our recycling policies with food service vendors and contractors.
  - Adopt a comprehensive campus-wide double sided printing policy.
- Future Goals:
  - Use “CCNY Green” webpage and other social media as marketing tools to post updates and information about campus recycling practices.
  - Encourage all college departments to accept lightly-used furniture and equipment before purchasing new items.
  - Reduce the amount of electronic equipment that is discarded by establishing an agreement with a non-profit organization that will take it to repair and redistribute.
  - Continue to purchase products made from recycled materials, and educate the campus community that reducing waste is preferable to recycling.
Procurement

♦ Completed Goals:
  • Implemented “green only” cleaning products.
  • Increased purchase of recycled items from Staples from 15% to 18% for the years 2010 and 2011.
  • Purchased computers, carpets and furniture that can be recycled.

♦ Current goals:
  • Increase purchase of recycled items by another 3%.
  • Continue to meet the college’s paper needs while maintaining compliance with NYS Executive Order 4.
  • Obtaining best prices using existing General Service Contractors and EcoLogo certified brands.

♦ Future goals:
  • Continue to purchase computers and furniture that can be recycled.
  • Purchase rubber products made from recycled rubber where available, feasible and practical.

CCNY’s procurement program goals are to purchase the best quality goods and services at the best possible price from the most responsible vendors in accordance with CUNY and NY State regulations. To the extent possible, CCNY is shifting its procurement policies to incorporate sustainability practices, packaging and utensils.

Our purchasing policies aim to comply with New York State’s Executive Order 4 which requires purchasing sustainable products, such as: 100 percent post-consumer recycled paper products; Energy Star equipment, environmentally friendly hydraulic fluids for use on outdoor trash compactors; double-yield toner cartridges; “Green” cleaning and custodial products; and hybrid vehicles.

Our food service vendor, Metropolitan, has added sustainable clauses into the contracts negotiated with suppliers. They also comply with our policies on using environmentally friendly cleaning supplies and paper products for our dining rooms. Since the onset of our CCNY Green Taskforce, our dining rooms no longer use Styrofoam products, and we continue to research biodegradable packaging.
Sustainable Dining

Completed Goals:
- Instituted a policy of procuring produce from within 150 miles of campus.
- Created a 60 foot “Sustainability Wall” in the cafeteria of the North Academic Building to engage and educate the campus community by displaying content about sustainable practices.
- Added a venue in the Hoffman Student Lounge, which sells organic, locally grown food.
- Developed a 70 foot wall gallery in the Marshak Gallery Café dedicated to exhibiting environmental and sustainability related research conducted by our faculty.

Current Goals:
- Work with Metropolitan, to provide incentives to those who use their own refillable coffee mugs.
- Increase the number of recycling containers inside the main cafeteria.

At CCNY, sustainable dining means offering healthy, nutritious, and affordable meals and providing a service that minimizes its impact on the environment. To accomplish this, we source local, organic, and seasonal food through our vendor, Metropolitan.

Since 2007, Metropolitan has been complying with CCNY guidelines in reducing the environmental impact of its operations on campus. In addition, it has been purchasing green cleaning products for use in the cafeteria and kitchen areas. Metropolitan has also doubled the amount of locally grown produce purchased. In Spring 2010, after the Hoffman Student Lounge was renovated it began selling organic, locally grown, wholesome and nutritious food. Later that year the Marshak Gallery Café opened offering the same sustainable products.

Metropolitan’s waste oils are recycled for conversion to biodiesel fuel.
**Sustainable Education & Outreach**

- **Completed Goals:**
  - Implemented recycling campaign throughout campus.

- **Current Goals:**
  - Reduce bottle water consumption by not only installing hydrations stations but promoting their use.
  - Implement a policy on double sided printing in computer labs and decrease college’s consumption through education.
  - Use our “Sustainable walls” in NAC student dining area and Marshak Gallery Café to increase awareness by displaying educational content on climate change and sustainability.

- **Future Goals:**
  - Create an undergraduate Environmental Studies Program that approaches complex environmental issues.
  - Incorporate sustainable practices into events hosted and sponsored by CCNY or by external parties.

CCNY’s strategies in the area of Sustainable Outreach and Education are designed to foster leadership in creating a culture of sustainability on campus and within the community. This makes sustainability an integral part of the academic curriculum, research practices, and all extracurricular activities.

- Increase CCNY’s participation in community activities related to the environment and sustainability.
- Incorporate sustainability education into Urban Scholars and Upward Bound programs for middle school and high school students who can share what they learn about sustainability with their community.
- Celebrate Earth Day to educate incoming students about our climate commitments.
- Increase visibility of campus environmental clubs and their activities through Student Life services.
Student Engagement

Student participation and education are essential for CCNY in achieving its goal of becoming a sustainable campus. We strongly focus our curriculum on sustainability through interdisciplinary programs in order to prepare our students to meet the challenges of climate change.

This past year, over 100 of our students participated in a global competition organized by the U.S. Department of Energy requiring teams to design, build, and operate an affordable, efficient and appealing solar-powered house. The Solar Roofpod project encouraged students to investigate the reuse of space in dense urban environments, harnessing the power of the sun to produce clean energy, recycling storm water and developing rooftop gardens. The prototype exercised an example of eco-conscious living through modern technology and engineering.

We encourage student engagement through our programs, faculty, scholarships and through our two “sustainable walls” located in the student dining areas of NAC and Marshak buildings.

Research

As CUNY’s flagship campus for science and engineering, CCNY has a strong foundation in conducting research related to the environment, sustainability, and energy.

It is home to several research institutes that investigate issues in these disciplines, including the NOAA Cooperative Remote Sensing Science and Technology Center, the Center for Water Resources and Environmental Research, the Environmental Crossroads Initiative, the CUNY Energy Institute, the Institute for Urban Systems, the Institute for Municipal Waste Research and the University Transportation Research Center. In addition, several faculty members have research interests in these areas and are actively conducting their own investigations.

With the addition of key faculty to The Grove School of Engineering, new research institutes on sustainability are being developed on our campus. They include the CUNY Energy Institute, and the CUNY Environmental Crossroads Initiative. These programs are not only advancing knowledge and training graduate students, they are also designed to involve undergraduates in research, particularly those from historically under-represented groups, as a way to encourage them to pursue advanced studies.

Expanding research in subjects such as environmental sciences, climate change, and sustainable energy is a priority for CCNY. Construction of the CUNY-CCNY Science Research Center on our campus, and CCNY’s new status as a Ph.D. granting institution give us an edge in attracting top faculty, graduate students, and research funding dedicated to these areas.

Dr. Marco Tedesco, Earth & Env. Sciences
Conducting research on glacier melting in Greenland
Curriculum

CCNY addresses sustainability across the curriculum in two ways. First, a new general education requirement ensures that all undergraduates – not only those in the Science, Technology, Engineering, and Math (STEM) disciplines – receive a foundation in issues related to climate change. Second, we have been developing interdisciplinary academic programs designed to prepare students for the opportunities that a “green” economy will require.

Starting in the Fall 2009 semester, CCNY added a new course on global climate change requirement of the core program for all non-science majors. Engineering and Science majors are exposed to environmental coursework through the Earth and Atmospheric Sciences, and Biology departments.

In Spring 2010, the College introduced a new masters program, Sustainability in the Urban Environment, which leads to an M.S. degree in Sustainability. It draws on multiple disciplines such as architecture, engineering, science and economics. Students trained in the program work in teams to design and implement strategies for the development of sustainable water, land, air, food, energy, waste, construction, and transportation practices. In addition, they are prepared to work in a diverse professional setting involving collaboration, interaction, and communication with teams of scientists, engineers, architects and others. The Spitzer School of Architecture combines Landscape Architecture, Urban Design, and Sustainability to address urban environmental issues.

In Fall 2010 semester the Division of Science introduced an elective course, Science 31350, Health and Wellness Service Learning. The course objective is to educate students to become more involved in the effort to reduce campus carbon emissions.

Currently, the Department of Earth and Atmospheric Science and the Department of Business are developing an interdisciplinary Bachelors of Arts program in Environmental Studies. The program will provide a broad foundation in the sciences and allow students to follow a specific track that will emphasize economics, social policy, or environmental regulation. They will be trained to work in interdisciplinary teams. Students who complete the program will gain an advantage for entry into graduate programs.
Community Development and Training

Community sustainability-related programs include a neighborhood beautification project through the Charles B. Rangel Center for Public Service. This project involves CCNY and Harlem CREW High School students working together to create a garden in a vacant lot on 140th Street between Lenox and Adam Clayton Powell Avenues.

The Colin Powell Center for Policy Studies offers a Community Engagement Fellowship for undergraduates of any discipline or major to design and carry out a project that addresses community needs in a sustainable way. The program seeks students who are involved with their communities, who value awareness of community concerns, and who hope to advocate for positive change through ongoing work with community organizations and leaders.

CCNY’s Office of Continuing and Professional Studies (CPS) offers “green” training through online courses in partnership with Noble Strategy and Pro Train Online.

www.theknowledgebase.org/ccny/.

Urban and Governmental Affairs

CCNY is an active participant in the affairs of the Upper Manhattan communities that surround the campus, which include the neighborhoods of Harlem, Washington Heights, and Inwood. CCNY engages members of these communities through a variety of opportunities for promoting sustainable practices. Our involvement includes helping residents shred documents and encouraging recycling.

CCNY’s lecture halls, dining halls, and other facilities are often used as venues for events hosted by community groups. These events present an opportunity to educate and encourage participants to adopt sustainability practices that keep the neighborhood green.

Through the Urban Scholars and Upward Bound programs at CCNY, we can educate middle school and high school students about sustainability by encouraging them to spread their awareness with a “green” message to family and friends. This can be achieved by integrating hands-on experience, such as field trips, into the curriculum.

Faculty and students are encouraged to participate in community sustainable activities. In Spring 2011, for example, CCNY’s Division of Science students were involved in a Health and Wellness Service Learning Class that hosts a Farmers Market to provide fresh produce and teach the community about the benefits of a healthy lifestyle. In addition, CCNY will participate in community events that promote sustainability, or are organized by local environmental organizations.

CCNY’s research on sustainable urban living includes efficient energy management, landscape irrigation, and energy-saving heating and cooling systems.
Appendix A

Contributors and Advisors to the CCNY Plan
### CCNY Green Task Force

<table>
<thead>
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<th>Chair</th>
<th>Title</th>
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<tr>
<td>CCNY Green Task Force Co-chair</td>
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