



10-year Sustainability Plan

Revised July 2018



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Vice President's Note



In 2018, Kingsborough was awarded NYSERDA's REV Campus Challenge at the Achiever level. The REV Campus Challenge supports clean energy efforts by recognizing and supporting colleges and universities that implement clean energy projects on campus and in surrounding communities.



Eduardo Rios
Vice President Finance and Administration
Kingsborough Community College
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Brooklyn, NY 11235

Dear fellow members of the CUNY community,

Kingsborough Community College is committed to help foster a more sustainable future. We have taken significant steps to reduce our waste, become more energy efficient, and educate our campus community about how they can contribute to our sustainable goals. The KCC Campus Sustainability 10-Year Plan is a high priority project with many segments of our community contributing to its success.

Our 10-year sustainability plan sets an ambitious agenda for the future. Goals for advancement are set forth in the Campus Sustainability 10-year Plan. This plan guides the college's green initiatives, using the CUNY Sustainability Initiative and PlaNYC 2030 guidelines. Please take the time to read our Plan and help Kingsborough fulfill its commitment to achieve these goals. If you would like to become involved in the college sustainability efforts or have any questions, please contact my office at 718-368-5899.

I want to thank the members of the KCC Sustainability Council for their help in creating a more sustainable campus.

Kingsborough Community College Sustainability Council

- Chair Eduardo Rios, Vice President Finance & Administration
- Co-Chair Celeste Creegan, MPH, Director Environmental Health and Safety
- Co-Chair Anthony Corazza, Assistant Vice President Campus Facilities

Council Members:

- Dr. Christina Colon, Ph.D., Associate Professor of Biology
- Maureen Daly, Director, Events Management
- Dr. Reza Fakhari, Vice President and Professor at Kingsborough Community College
- Peter Hermida, University Architect
- Asif Hussain, Assistant Vice President and Chief Information Officer
- Dr. Jacob Mey, Associate Professor at City University of New York
- Janine Palludan, Associate Director of Academic Affairs
- Kiesha Stewart, Finance Procurement Director

Sincerely,

Eduardo Rios

Sustainability Mission Statement

Kingsborough Community College is committed to becoming more energy efficient, reduce energy usage, institutionalize energy awareness that addresses the behavioral changes of students and faculty, and subsequently reduce Green House Gas (GHG) emissions to improve our environment. This plan guides the college's green initiatives, using the CUNY Sustainability Initiative and PlaNYC 2030 guidelines. Goals for advancement in each of these areas are set forth in this Campus Sustainability 10-year Plan. Completed and in-progress items are tracked through the plan. To advance our mission, KCC is focusing its efforts on the seven pillars of sustainability that include:

1. Energy
2. Water
3. Recycling
4. Procurement
5. Food and Nutrition
6. Transportation
7. Outreach and Education



About Kingsborough Community College

Founded in 1963 as part of the City University of New York (CUNY), Kingsborough Community College remains firmly committed to its mission of “providing both liberal arts and career education...[and] to promoting student learning and development as well as strengthening and serving its diverse community.” Kingsborough combines the best of what a college can offer. Its tranquil seaside location is a perfect setting for reflective academic pursuits, yet the college’s active engagement in the community provides students with exciting opportunities to become productive participants in a growing and vital borough.

Kingsborough has been named one of the leading community colleges in the country by the Aspen Institute College Excellence Program. It has also earned national recognition for its creative and effective use of learning communities, for the large number of degrees it confers, for the high percentage of graduates who continue their studies, and for the innovative programs that draw thousands of non-traditional students to its campus every year.

Kingsborough serves a widely diverse population of approximately 14,000 students and consistently ranks among the leading community colleges in the country in associate degrees awarded to minority students. Approximately 70% of Kingsborough’s students are enrolled in a liberal arts or science degree program; the rest pursue degrees in more specialized, career-oriented programs such as business, communications, criminal justice, culinary arts, nursing and allied health careers, information technology, journalism, maritime technology, tourism and hospitality, and the visual arts. It also maintains one of the most comprehensive adult and continuing education programs in New York City.

The college takes pride in its many support programs that enhance student success. All students are offered individual, personal and academic counseling; workshops to improve basic skills; and career planning and placement. Students enjoy the accessibility of Kingsborough faculty and administrators.

Kingsborough is a major presence in the bustling borough of Brooklyn and has partnered with dozens of schools borough-wide to create a seamless transition to college. Kingsborough also sponsors numerous activities year-round to meet the professional, recreational and cultural needs of the community, including lectures, concerts, art exhibits and theater productions.

Campus Description and Facilities

Kingsborough Community College is located in Manhattan Beach, on the southern tip of Brooklyn, New York. Surrounded by water on three sides (the Atlantic Ocean, Jamaica Bay, and Sheepshead Bay), Kingsborough enjoys a natural setting which adds to our unique characteristics as a CUNY campus.

The campus is located on a 70-acre peninsula (3,036,348 square feet) in the Manhattan Beach section of Brooklyn. Approximately 55% of the total acreage is landscaped and 25% of the site is paved. The footprint of the various buildings occupies about 20% of the site. The campus also contains a 10,000 square foot marina and a 2-acre (90,000 square foot) beach. The Leon M. Goldstein High School for the Sciences, owned by the NYC Department of Education, is also located on the campus grounds.

Typically, the permanent buildings are steel framed, with metal stud and gypsum wallboard interior walls, reinforced concrete floors, with face brick and concrete block exterior cavity walls. Construction, which predates the NYS Energy Code, is devoid of exterior wall insulation. The buildings range from one to eight stories in height.

The temporary buildings are typically steel framed, with metal stud and gypsum wallboard interior walls, with insulated exterior corrugated metal panel walls. These buildings range from one to two stories in height.

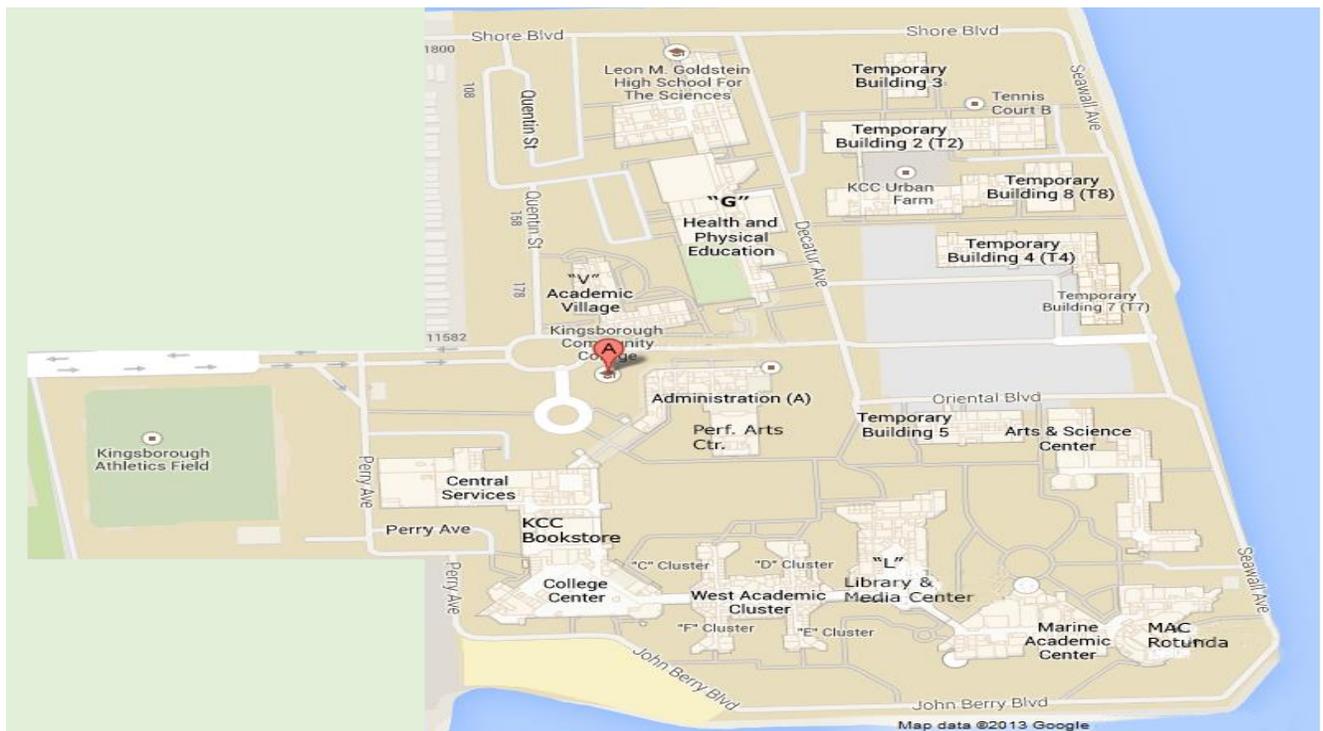
There are 27 parking lots throughout the campus with 1,355 parking stalls (52 of which are reserved for the handicapped). An off-site parking area near the campus offers the College an additional 1,006 parking spaces during the fall, winter and spring Semesters.

The buildings on campus include:

- A College Marina that is the home of the Maritime Technology Program.
- Two gymnasiums and an indoor pool.
- The 743-seat Leon M. Goldstein Performing Arts Center and the 298-seat Playhouse.
- A 1,600 square foot Art Gallery.
- An Aquarium.

Campus Description and Facilities continued

- The Marine and Academic Center includes The Rotunda, which is a 12,000 square foot conference/event facility, numerous classrooms, computer labs.
- The Robert J. Kibbee Library and Media Center, contains over 150,000 items.
- Eighteen general-purpose instructional computer labs with more than 500 work stations and approximately 200 computer workstations in specialized instructional facilities.
- A computerized testing facility with more than 150 stations.
- The Leon M. Goldstein High School for Sciences and Math which is New York City Department of Education High School with a capacity to educate 800 students per semester.
- An Urban Farm that is an organic, year-round food production site.
- The College building area is 1,294,021 square feet (gross) and 813,276 square feet (net). There are 20 buildings on campus with a relative age of 40 years for our temporary structures and 35 years for the main buildings with the exception of our Marine and Academic Center, which was opened in 1991 and our Academic Village, which opened in 2002.



1. Energy

Conservation

Completed

Kingsborough was awarded NYSERDA’s REV Campus Challenge at the Achiever level. The REV Campus Challenge promotes clean energy efforts by recognizing and supporting NYS colleges and universities that implement clean energy projects and principles on campus, in the classroom, and in surrounding communities.

Real-time Energy Monitoring was implemented, which allows us to track our energy consumption to identify where and how energy is being used on our campus, track problems that may be resulting in excess energy usage, and make adjustments to conserve energy. Using this platform, KCC may be able to reduce energy use by up to 30%.

Participation in the “Demand Response” incentive programs. Reducing electrical demand at times of high demand also helps to limit the use of the dirtiest power plants, during peak demand periods.

Purchase and installation of technology to control idle computers remotely.

A variety of technologies were implemented to create a smaller, efficient and greener data center. These efforts have help cut our data centers energy use by almost 20%.

Energy continued

A study was completed to create a comprehensive picture of KCC Campus energy use to find opportunities for improved efficiency and savings.

In Progress

Install Photocell Lighting Controls in all Corridors with windows.

Reduce electricity use in window lighted corridors by installing Photocells.

Install Energy Star rated window AC units in the T Building.

Phased project to reduce electricity consumption by replacing unusable window AC units with more energy efficient models.

Make modifications to conserve energy in HVAC Systems and Lighting in T-2 and T-4 Buildings.

2. Water

Conservation

Completed

Renovated restrooms in Leon Goldstein.

Installed low flow self-flush flushometers in in the Performing Arts Center restrooms.

Installation of touch-less, low flow faucets in restrooms.

Introduced a water filtration system to campus to eliminate plastic bottles on campus and offer students free, cold, filtered water.

In Progress

Prevent water and unnecessary water consumption by fixing existing leaks and establishing a program to maintain plumbing fixtures throughout campus.

Install touch-less low flow faucets in T-4 Allied Health Laboratory.

Renovate T2 & T4 bathrooms and T4 laboratory with new low flow, self-flush, flushometers in touch-less low flow faucets, and occupancy sensors.

3. Recycling

<p>Reduce chemical waste.</p> <p>Reduce solid landfill & incinerator waste generated by campus.</p> <p>Recycle vegetable oil from cafeteria.</p> <p>Save trees by recycling cardboard and paper</p> <p>Implement New York State's Bottled Beverage Recycling Bill</p>	<p style="text-align: center;"><i>Completed</i></p> <p>Recycle fluorescent bulbs, batteries, computers, waste oil, and antifreeze.</p> <p>Installed paper, plastic, can recycling points throughout the campus.</p> <p>Retrofit of Kingsborough's Green boat to use recycled oil for fuel.</p> <p>Placed recycle bins for paper in offices. Retained Royal Recycling Solution to pick up and recycle cardboard quarterly.</p> <p>Reduced the usage of the U.S. Mail System for student communications by 75% with current technology such as e-mail, texting, blackboard and the use of the internet community site, i.e. Facebook & My Space, etc.</p> <p style="text-align: center;"><i>In Progress</i></p> <p>Install bottle return vending machines.</p> <p>Offer student clubs the opportunity to collect return deposit bottles on campus (only) to utilize refund money collected for student club activities.</p>
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4. Procurement

Reduce energy use by computers.

Reduce use of paper.

Completed

Purchase of CRT computer screens with efficient Plasma Screens.

Reduce paper use by manage purchasing orders online.

Reduce paper use by changing printing methods.

Purchase 30% recycled paper for copy and print.

College community utilizes e-procurement to manage purchase orders online and reduce the use of paper.

Limited single sided printing and relocated some public printing stations.

Replace single printing machines with power efficient multi-function printers.

Use of recyclable HP toners and recycled papers.

Centralization of printing in the library to decrease the amount of equipment usage.

Centralization of printing in the library to decrease the amount of equipment usage.

Mandated double-sided printing.

<p><i>Procurement continued</i></p> <p>Campus-wide use of green products</p>	<p>Encourage the use of multi-function machines instead of separate printers and FAX machines.</p> <p>Purchase of “Energy Star” computers, monitors and printers</p> <p>Use of green seal products for cleaning.</p> <p>Adopt policy of purchasing items certified by organizations such as EPEAT, Energy Star, etc</p> <p>Purchase items with a take-back programs..</p> <p>Created green purchasing policy for frequently bought items.</p> <p>Included environmental standards in IT procurement policies.</p> <p>Purchase of “Energy Star” computers, monitors and printers.</p> <p>Eliminated styrofoam products from cafeteria.</p>
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5. Food and Nutrition

Nutrition and Healthy Eating Habits

Completed

Created an Urban Farm that is an organic, year-round food production site.

In Progress

Introduce locally grown fresh fruits and vegetables on campus.

Require Food Service Vendor to establish a recipe file for healthy food that is low salt and sugar diets and heart healthy.

Eliminate saturated and trans fats from food preparation and vending machine offerings.

Use specialists in the preparation and purchase of sustainably nutritional foods.

Increase the number of healthy choice/organic snacks in cafeteria and vending machines that are reasonably priced.

To eliminate waste and better serve our student population, our food service vendor will offer remaining cafeteria hot food trays to students for free between the hours of 7 and 8 p.m. Monday through Thursday during each 12-week semester.

Increase the number of vegetarian selections in the cafeteria.

<p><i>Procurement continued</i></p>	<p>Increase the variety of kosher and Hallal foods.</p> <p>Increase the number of steamed, poached and roasted dishes sold in the cafeteria.</p> <p>Student Group to research the interest of the college community in having an on-campus green market.</p> <p>Meet with Community Board No. 15 to determine community interest in campus green market.</p>
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6. Transportation

Affordable and Sustainable Alternatives to Driving

Completed

Over 500 KCC employees and students have joined the carpool database, and over 300 have received customized transit itineraries.

Kingsborough Community College was awarded the Clean Air NY Campus Award by 511NY Rideshare and Clean Air NY. These programs help commuters find easy, affordable and sustainable alternatives to driving alone.

KCC provides free continuous yellow bus service during peak class hours between three key Metropolitan Transit Authority subway stations and campus.

Completed

Use of bicycles for patrols to patrol campus.

Use of clean and alternative fuels for campus vehicle fleet.

In Progress

Reduce the campus' vehicle GHG emissions by replacing 60% of the current vehicle fleet with clean fuel technology vehicles.

7. Outreach and Education

Education

Completed

Dream Green News Letter to promote sustainable initiatives on campus.

An annual Eco-Festival to involve students, faculty, staff and the external community in educational programming centered on the environment and sustainability.

Creation of urban farm on campus.

In Progress

Create a brochure for faculty and staff will list ways to reducing office waste.

Introduce a new program segment on Sustainability for their New Employee Orientation Program which is held each autumn.

Include a sustainability awareness/educational component as part of the college's New Student Orientation Program.

Outreach

In Progress

Creative service learning experiences for students on the Green Boat.

Reduce the use of printed books by 10% and replace printed materials with E-Books.

Outreach and Education continued

Communicate sustainability initiatives with our student population by utilizing to Facebook, Twitter, and My Space etc.

Expand participation by College Now, Leon M. Goldstein High School and the Kingsborough Early College Secondary School students.

Promote sustainability efforts through Campus Leadership Programs.

Include sustainability projects as part of the curriculum.

The Responsibility 2 Care (R2C) Program is unique to KCC and seeks to promote environmental awareness and provide a platform for student involvement and engagement in keeping Kingsborough Community College Clean.

Create student and staff teams to participate in collecting cartridges and recyclable electronics.

Utilize the KBCCs Brown Bag Lunch Seminar Program, to educate faculty and staff on how to participation in sustainable initiatives.

Inform faculty and staff of campus sustainability opportunities and information.

Establish best practices, policies, and standards for sustainable for sustainability for Buildings and Grounds.

Outreach and Education continued

Identify and prioritize resource conservation opportunities in offices, labs and buildings.

Distribute recyclable mugs and water bottles at student events.

Represent the environmental movement at KCC during campus events, such as Eco-Festival, Commencement, Homecoming, KCC for a Day, CampusFest, New Student Orientations, and student government activities.

Award employers who promote sustainability.

Reduce the number of cigarette butts on campus.

Increase the number of students participating in the Student World Assembly Campus Cleanup Day.

Inform students of water filtration system dispenser locations on campus and encourage students to carry personal reusable drinking cups.