

2019 Sustainability Report for Marymount Manhattan College

Dear Students, Faculty and Staff,

Our goal at Marymount Manhattan College is to provide our students with a comfortable and safe learning environment where they can freely express themselves as they explore new ideas, new approaches, and new worlds.

As recent reports from the IPCC and federal government have made clear, there is great urgency to address climate change, reduce our carbon footprint, and show our commitment to operating a sustainable college. We understand buildings in New York City make up 40% of carbon emissions and we understand our responsibility to help.

Marymount Manhattan College has made significant progress over the last few years, and we look forward to making more in the near future. I wanted to highlight some of the changes we have made to our facilities to help reduce energy consumption and Greenhouse Gas Emissions (GHG). It is important we work together to achieve our goals and we hope this will lead to a continued dialogue on what can be done to reduce the effects of climate change.

Marymount Manhattan College recently installed a Building Management System (BMS) at our main campus, upgrading the heating, ventilation and air-conditioning (HVAC) systems and controls. A Building Management System allows for all mechanical systems within the building to be operated automatically rather than manually. That means that we now have the control to make our building more efficient through advanced digital controls that allow us to respond to occupancy levels, which will reduce our energy consumption. The goal of this project was to better manage our facilities, increase student and faculty comfort, and to reduce carbon emissions. We believe this project will lead to better overall experience for our students.

As part of the BMS project, MMC has also installed a real-time energy management system. This will allow MMC to identify energy waste through real-time data and analytics software platform. We are one of the first participants in New York City to install this type of system and anticipate that it will yield significant carbon results. The Real-Time Energy Management system (MoBIUS) will allow us to continuously improve our facilities.

MoBIUS (Management of Building Information, Utilities and Systems) is a comprehensive energy management service that will allow MMC to:

- Identify energy waste and consumption



- Continually monitor and provide alerts when equipment isn't working optimally. This allows our staff to make real-time adjustments, reducing energy consumption.
- Analyze data to identify aging and inefficient equipment, allowing us to make the necessary changes to improve your comfort and health of our campus.
- Develop and deploy solutions early on so that our buildings operate at peak performance.

In addition, we are currently purchasing 100% of our electricity usage directly from Renewable Energy sources. Over the past 10 years, we have offset over 7.5 megawatt hours of electricity consumption via renewable energy sources, which is the equivalent of powering 1230 homes for a year.

To ensure that we are not only undertaking the right actions to reduce our carbon emissions, but are also achieving our sustainability goals, we have engaged with an energy and sustainability partner, [Bright Power](http://brightpower.com) (brightpower.com). In the last year, we have already implemented three projects that will reduce our emissions, and we can already see a difference.

Sustainability Projects by the Numbers:

- Source Energy Savings – **13%**
- Carbon Emissions Reduction – **18%**
- Carbon Eliminated – **874 Metric Tons**

Environmental Impact:

These projects will have the same impact as eliminating GHG emissions from:

- 187 passenger vehicles driven for 1 year
- 305 tons of waste recycled instead of landfilled
- 2,143,272 miles driven by an average passenger vehicle

Greenhouse gas emissions from



These projects will have the same environmental impact as:

- Preserving 7.1 acres of U.S. forests
- 1,030 acres of U.S. forests in one year
- Planting 22,663 tree seedlings grown over 10 years

Carbon sequestered by



Potential Future Plans

We understand the importance of continuing to improve our carbon footprint and become a more sustainable institution and will continue to improve our carbon footprint.

We will facilitate Town Hall meetings where our partner, Bright Power, will provide energy and water experts. We are proud that our students find ways to learn and grow outside of the classroom and anticipate many of our students will take advantage of this opportunity. The focus of the Town Hall will include:

- Discussion around the improvements MMC has implemented.
- Information around New York City's newly proposed legislation to reduce carbon emissions citywide.
- Discussion around how students can take daily action to support MMC's goals.
- An opportunity to answer student, faculty and parent questions.
- How you as individuals can do your part in helping to mitigate the effects of climate change

We look forward to continue this discussion and open dialogue with students, faculty and parents. Marymount Manhattan's administration remains impressed by our community's commitment to bettering themselves and the world around them. Each of you gives us hope that together, we can fight climate change.

Sincerely,
Members of the Environmental Sustainability SPIN Team