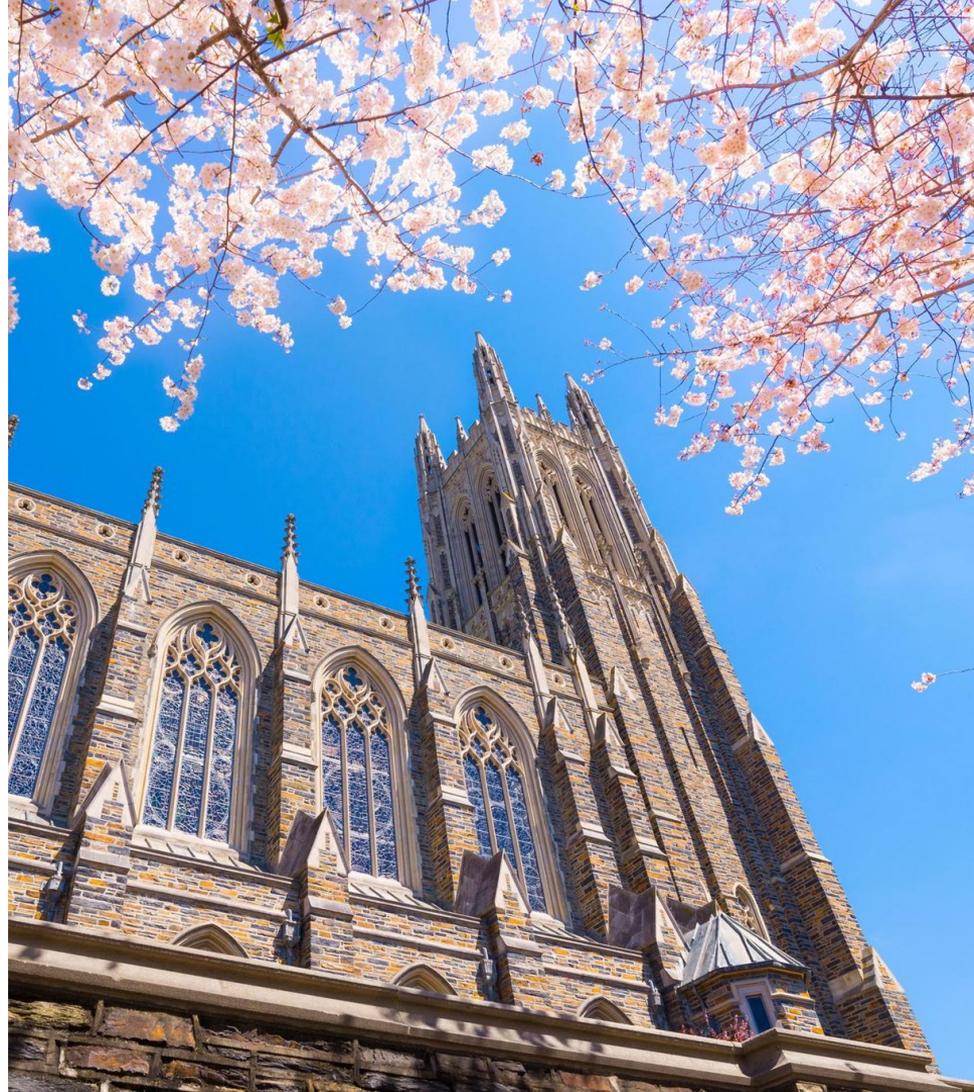


Sustainability At Duke

Green Lab Certification
Outreach and Engagement



2019 Climate Action Plan

- Energy
- Transportation
- Carbon Offsets
- Education
- Communication

Growing Green



Becoming A Carbon Neutral Campus

Energy Recommendations

- **Increase efficiency of buildings on campus**
- **Educate key decision-makers on campus about building energy use**
- Investigate ways to scale the use of biogas on campus instead of natural gas
- Large-scale, offsite solar

Communications Recommendations

- Host departmental-specific workshops about sustainability at Duke
- Develop departmental- or school-specific Climate Action Plans
- **Bolster the Green Certification program for workplaces, labs, classrooms, dorms, and events**

Communications Recommendations



Outreach and Communications Recommendations:

- Develop a robust network of Sustainability Champions in all workplaces, classrooms, labs, and dorms.
- Develop a formal network of Sustainability Champions, who serve as both advocates and ambassadors of sustainability at Duke.
- Gather stories from Sustainability Champions about their experiences and share them with the Duke community.
- Host a recognition ceremony for students, staff, and faculty Sustainability Champions.
- Provide sustainability challenges to Sustainability Champions and newsletter recipients.

- **2013** - 10 Green Certified Labs
- **2014** - 49 Green Certified Labs
 - The Battle of the Schools sustainability competition resulted in a 390% increase in the number of green certified laboratories.
- **2021** - 80 Green Certified Labs at Duke

Sustainability Strategic Plan

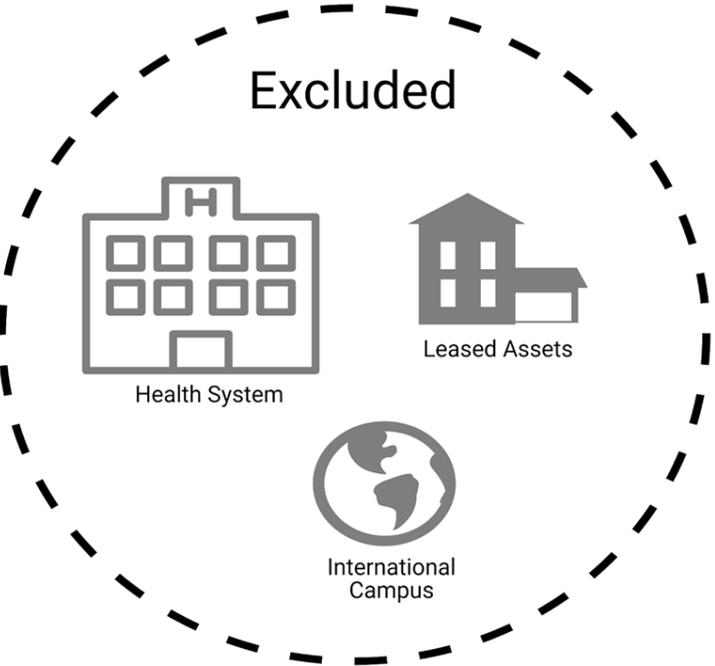
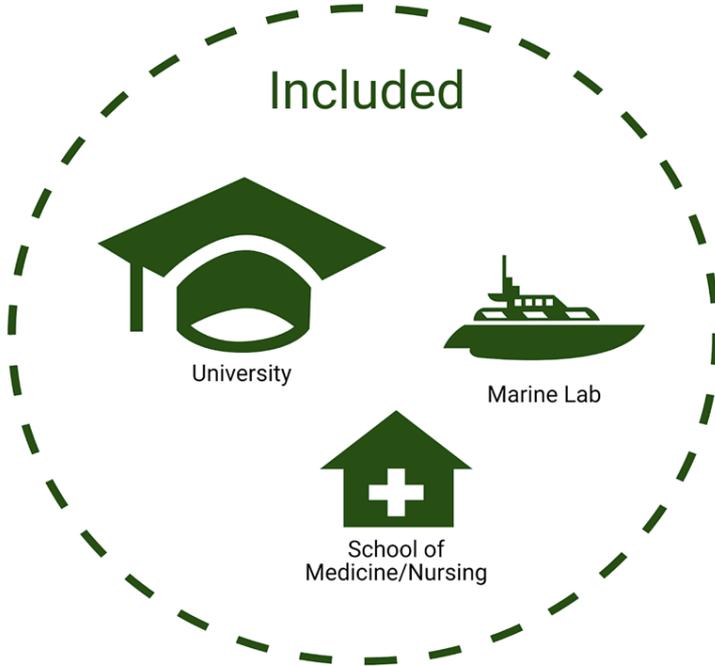
- CAP Focus Areas
 - Emissions
 - Water
 - Waste
 - Natural Resources
 - Food
 - Procurement



Geographic Boundary

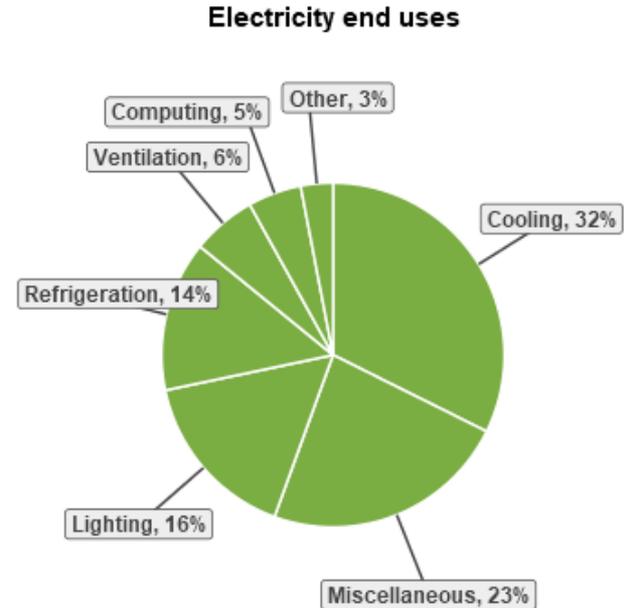


8 Green Lab certifications at
Duke Main Hospital



Importance of Energy Reduction in Labs

- Labs are 5 times more energy intensive than other campus spaces, on average.
- Cost to operate a fume hood at Duke is \$5000 per year. Same cost as running 3.5 houses.
- Cost to operate an ultralow freezer at Duke is \$1200 per year.
- Shut the Sash Campaign saved \$3,000 in energy costs per year.



Notes: May not total to 100% due to rounding. Miscellaneous is a CBECs category. Other combines end use categories < 5%: Office equipment, Heating, Cooking.

© E Source; 2012 data from the US Energy Information Administration

Pratt Greengineering Campaign



Pratt Greengineering Campaign



Duke Engineering Commits to Sustainability

JUNE 10, 2019

School-wide 'GREENgineering' initiative to reduce waste, boost recycling and save energy



Savannah Volkoff, a PhD candidate in environmental engineering, prepares reagent samples in her Hudson Hall lab and then recycles used plastic pipette-tip boxes.

“We are a top-10 school in environmental engineering, and I felt strongly that we could use our expertise to improve our local environment and show leadership on campus.”

RAVI V. BELLAMKONDA
VINIK DEAN OF ENGINEERING



Presentation: Greening Your Lab

MAY 2, 2019

Research and teaching labs are energy-intensive—using about five times more energy than other campus spaces, on average.

This presentation provides a brief but comprehensive overview of the why and how to obtain Green Lab Certification at Duke.

[View and download presentation »](#)

Green Labs Certification-Presentation-PPT.pptx ▾

GREENING YOUR LAB: Green Lab Certification

- GREENgineering at Pratt
- Duke Office of Sustainability
- Green Labs at Duke

GREENgineering: Duke Bleeds GREEN

MARCH 1, 2020 | BY ASHA MALLAPRAGADA

Initiated by Dean Ravi Bellamkonda, GREENgineering is working toward a greener and more sustainable Pratt School of Engineering



Members of the GREENgineering team talk to Pratt School of Engineering members about their efforts in making Duke greener and more sustainable.

Pratt Greengineering Campaign

- Identify activated and motivated stakeholders in your institutions different silos
- Provide Deans and Departments with incentives like awards and publicity in newsletters

Outstanding Leadership in Sustainability – Student

Trisha Dupnock, Ph.D student, Environmental Engineering



With her actions and ideas, Dupnock has helped make the Pratt School of Engineering greener.

Celebrate Efforts and Action

The IVQAC Receives Gold Level Green Lab Certification



Celebrate Efforts and Action



PUBLISHED NOVEMBER 27, 2013 IN CAMPUS, ACADEMICS, WORKINGDUKE

DUKE SCHOOLS 'BATTLE' FOR SUSTAINABILITY

Faculty and staff improve sustainable status of classrooms, offices, labs



Questions?

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