

2024 INFO CHALLENGE

Navigating Sustainability: Insights from Green Terp Program Data and UMD Energy Usage



MIDN 2/C Gabriel Abreu, Abby Lutz, Ethan Tolentino, Justin Werner

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01 Unveiling Insights

What data are we given and what do we plan to do with it?



What is Our data?

- ❑ Our dataset consists of registrations & certifications of staff and faculty into the Green Terp Program

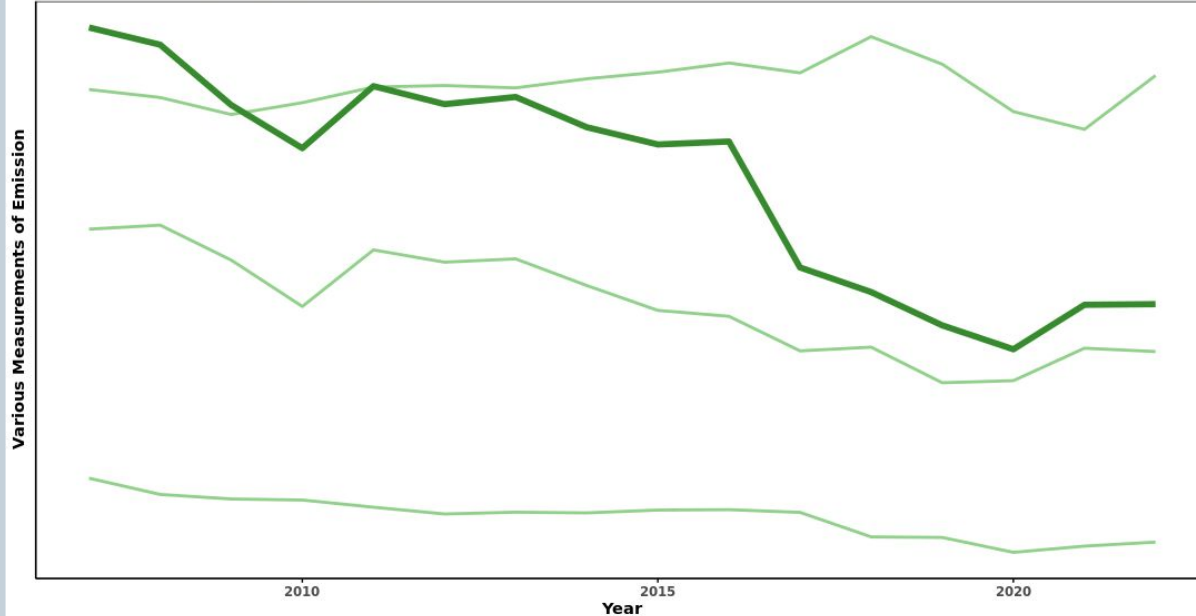
What is the Green Terp Program? Is it working?

- ❑ As part of their efforts, the Green Terp Program aims to educate students and faculty on environmental conservatism and *reduce UMD's environmental impact*.

01 Unveiling Insights

University of Maryland Emissions Report

Various measurements of greenhouse gas emissions among other pollutants from 2006 to 2022 at the University of Maryland according to the sustainableumd project.



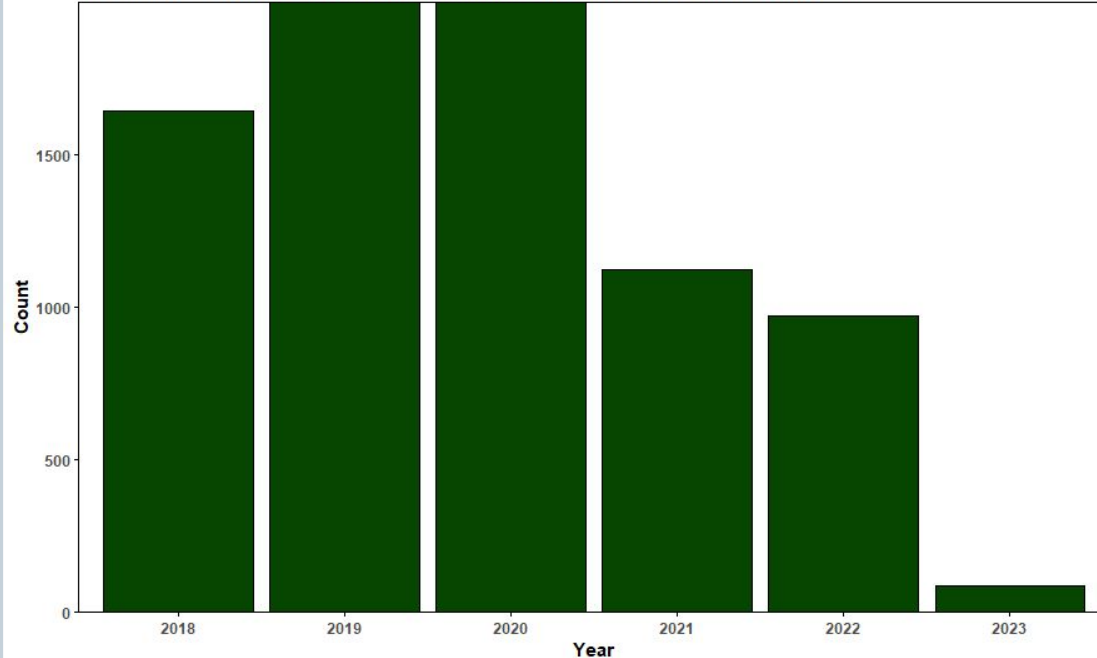
Source: University of Maryland sustainableumd, sustainingprogress.umd.edu

- ❑ Overall decrease in GGEs since 2006
- ❑ Decrease continues at the start of Green Terp program
- ❑ Small spike back up during COVID
 - ❑ No Green Terp certifications during 2020

01 Unveiling Insights

Registration Counts Over Time

The number of students who have registered in the Green Terp Program from 2018 to 2023.



- ❑ Participation decreasing over time

Is it working?

- ❑ The green terp program has likely had impact
- ❑ Healthy behaviors may lead to less greenhouse gas emissions

The Mission

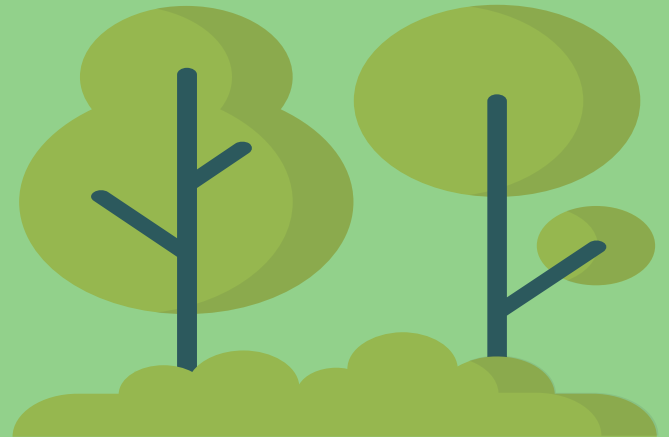
With outside information and faith in the process, we determine getting people on board with the green terp program is important to the mission of eliminating environmental impacts



02

Reconnaissance

Who is on board?



What does “on board” look like?

Certification Rate

$$\frac{\text{Certifications}}{\text{Total Registrations}}$$

*Measure of
Participation*

Green Scores

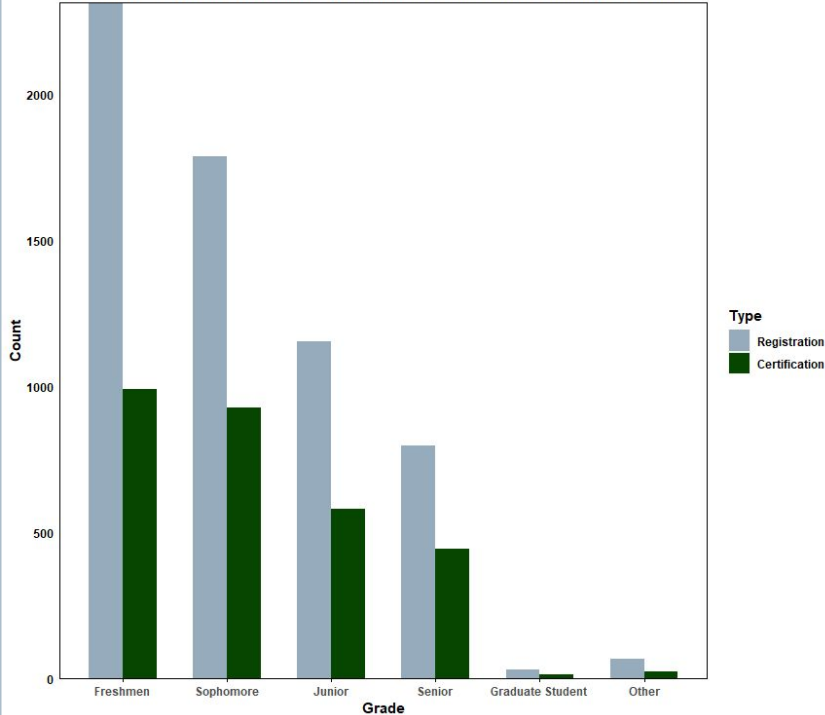
Σ of selected
environmentally
conscious
behaviors

*Measure of
Dedication*

Across UMD, who is on board?

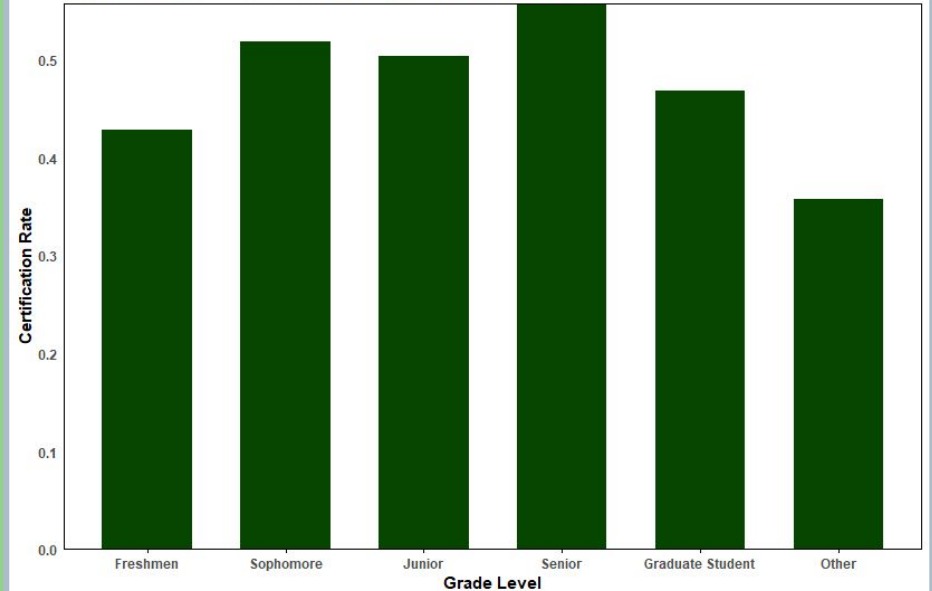
Participation Across Grade Levels

The number of students per grade who registered and certified in the Green Terp Program.



Certification Rate by Grade Level

The certification rate of students in the Green Terp program by grade.



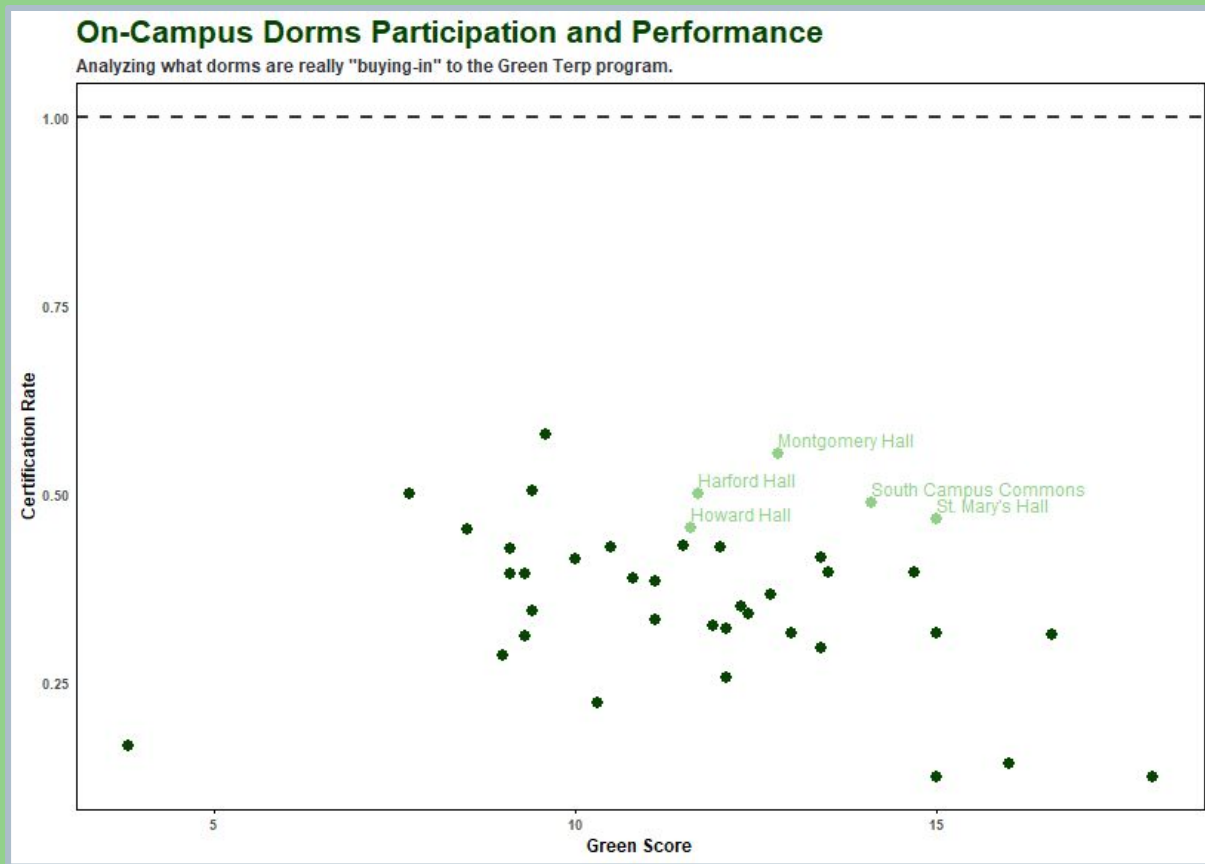
Initial Impressions

- ❑ Freshmen have the lowest follow through **but** the highest participation
- ❑ Proportionally, Seniors have the highest certification rate **but** participate the least out of undergraduate students

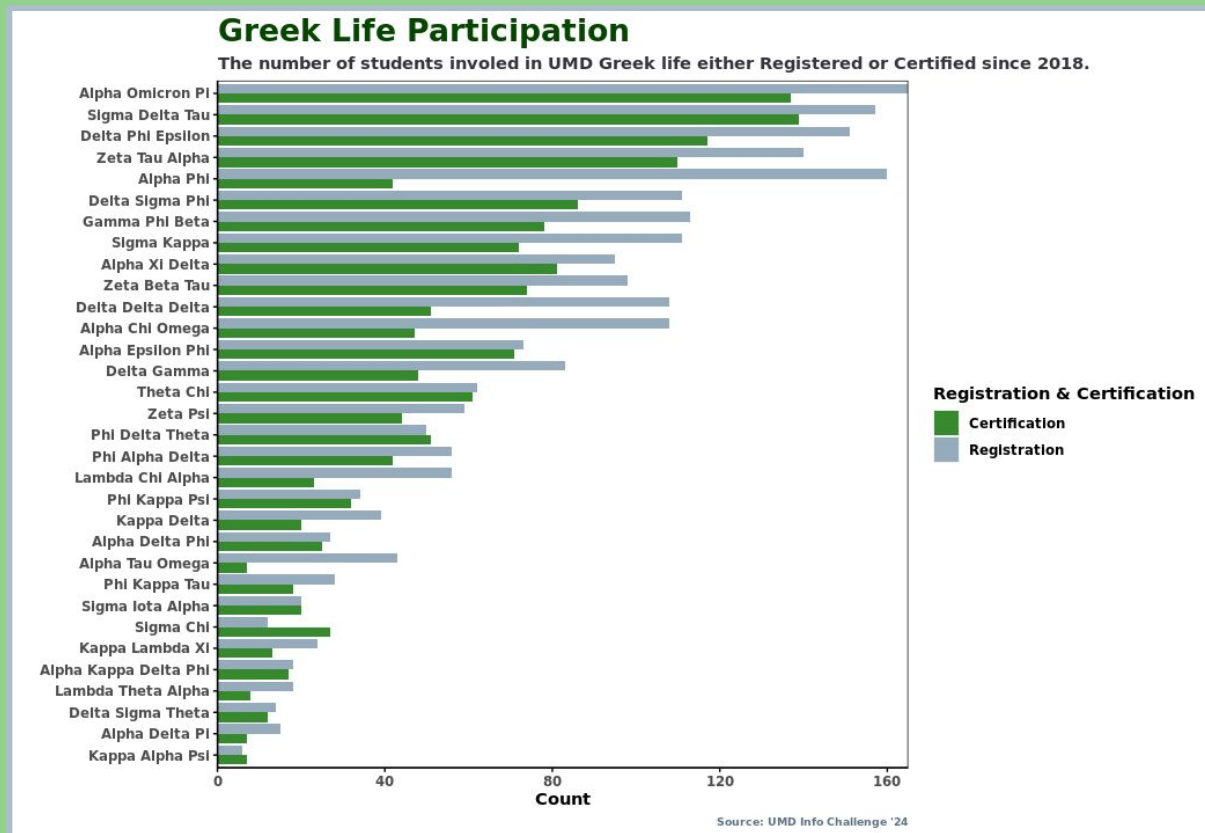
Considerations

- ❑ There are fewer faculty and graduate students

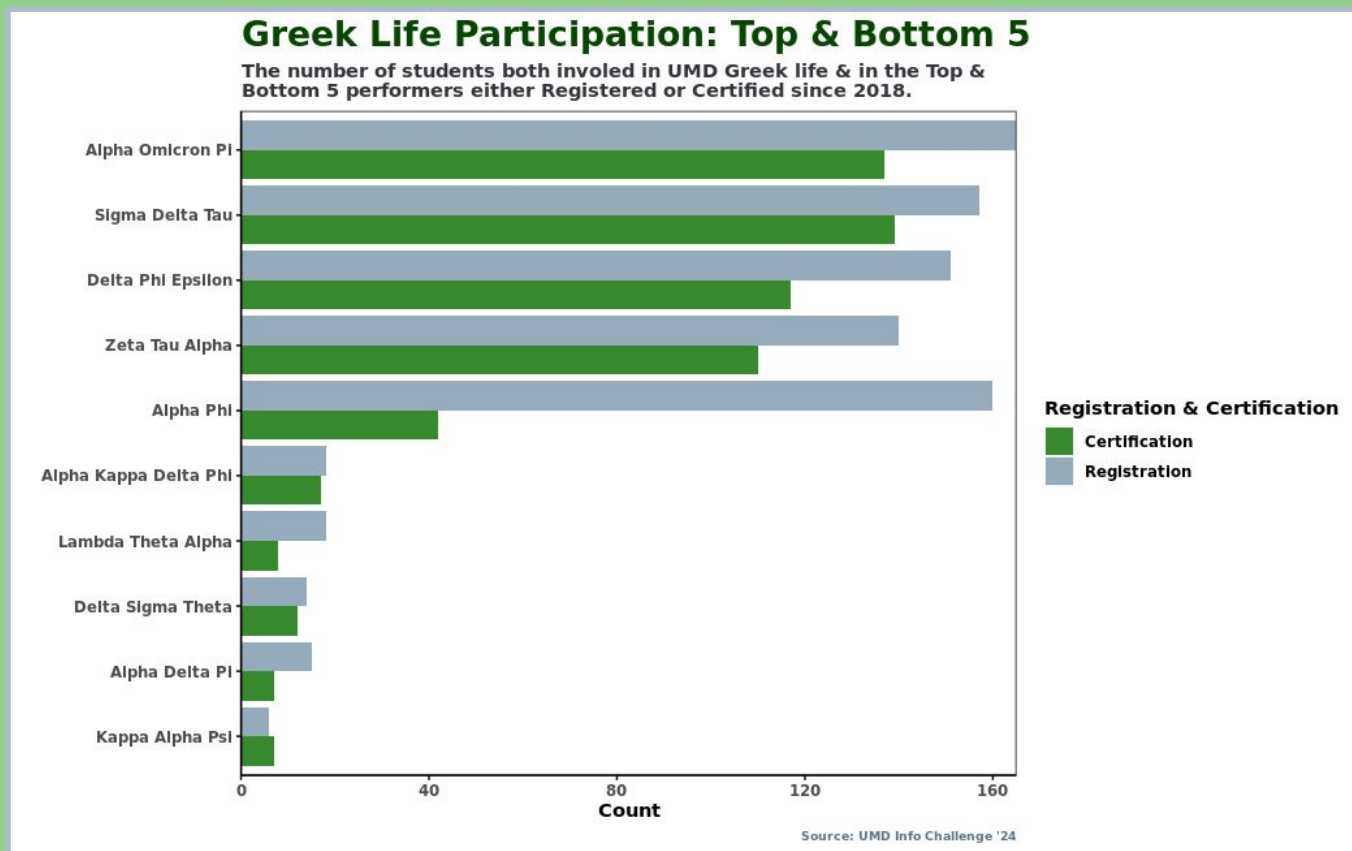
Across UMD, who is on board?



Across UMD, who is on board?



Across UMD, who is on board?



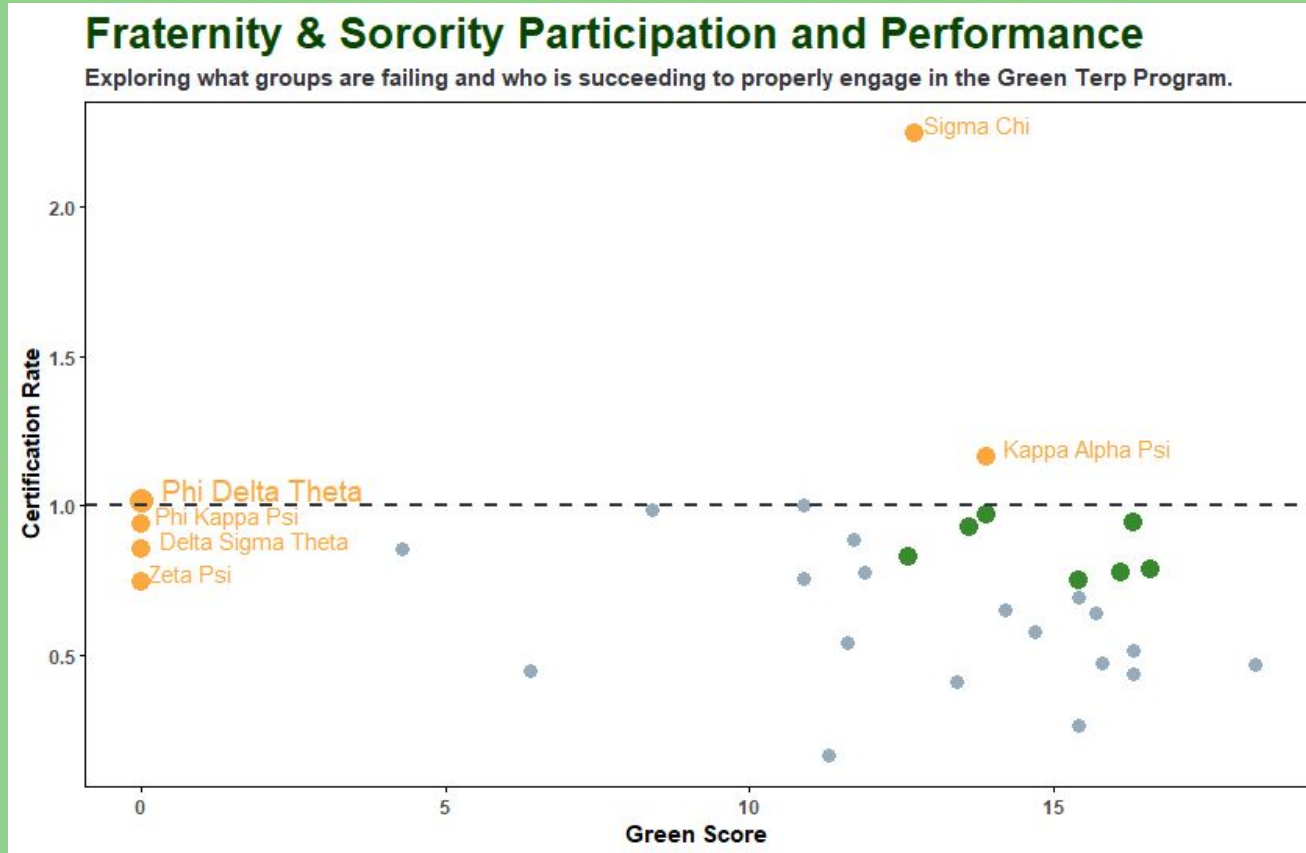
Who's hurting the mission?

- ❑ Certain class years are participating and/or dedicating to the Green Terp Program at varying levels
 - ❑ Greek life has large disparities
- *Note:** a few have higher certifications than registrations...

What this boils down to:

- ❑ *Participation & Dedication* varies greatly, so while some groups do well, some need more attention...

Who's hurting the mission?





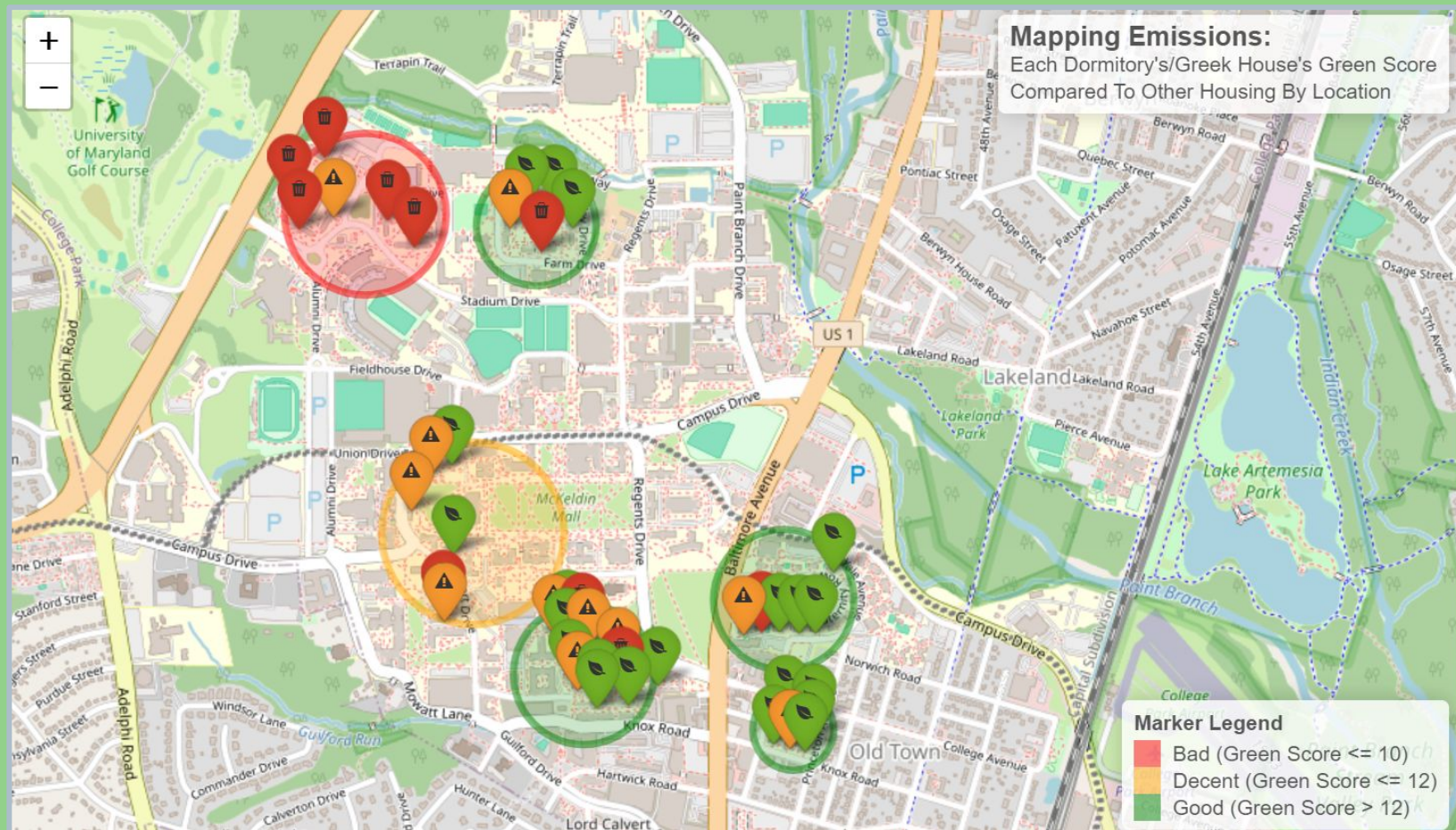
03

Our Recommendations

Who Needs Attention & What the
Green Terp Program Might Consider
Moving Forward



03 Our Recommendations



03 Our Recommendations

Regroup & Refocus

Redirect resources towards the areas with lower green scores.

High Participation vs. Low Dedication

Re-emphasize the importance of lifestyle changes. It is not just a form to fill out!

Certification Cheating

It's not about certification it's about a healthier environment.

Check for registration before certification.

These groups Need More Attention

Participation of Grad Students, Integrity of Greek Life, Increase Engagement from Upperclassmen

Questions?

