

Loyola University Maryland FY22 Sustainability Analysis

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University of the Sciences in Philadelphia
University of Toledo
University of Vermont
University of Washington
University of West Florida
University of Wisconsin - Madison
Vanderbilt University
Virginia Commonwealth University
Wake Forest University
Washburn University
Washington State University
Washington State University - Tri-Cities Campus
Washington State University - Vancouver
Washington University in St. Louis
Wayne State University
Wellesley College
Wesleyan University
West Chester University
West Virginia Health Science Center
West Virginia University
Western Oregon University
Westfield State University
Widener University
Williams College
Worcester Polytechnic Institute
Worcester State University

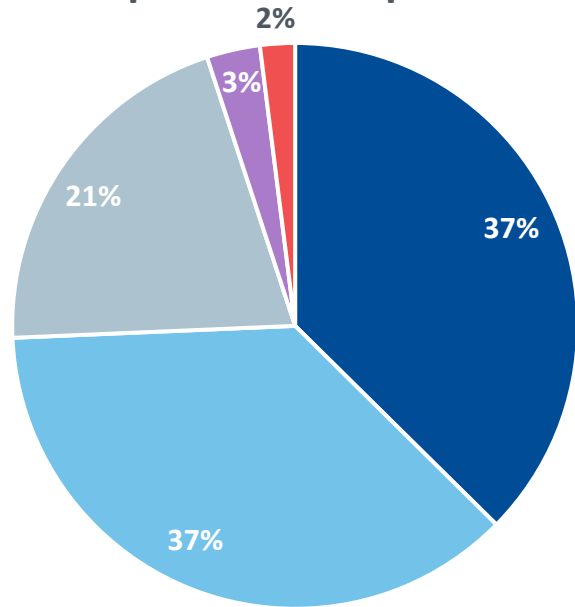


Sustainability & Campus Carbon Footprint

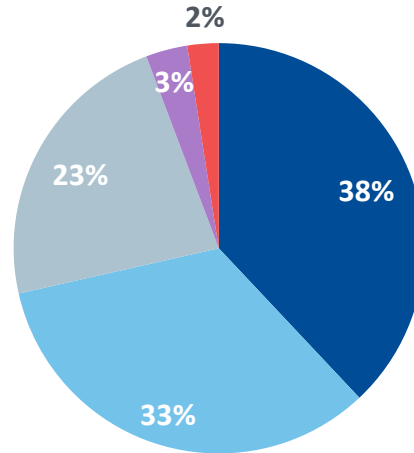


Campus Impression of Sustainability

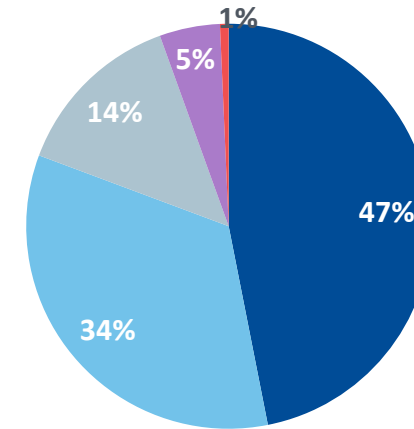
Importance of Reducing Carbon Footprint on Campus



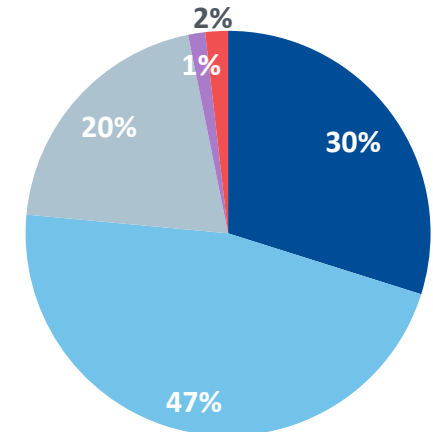
Response by Role: Students



Response by Role: Faculty



Response by Role: Staff

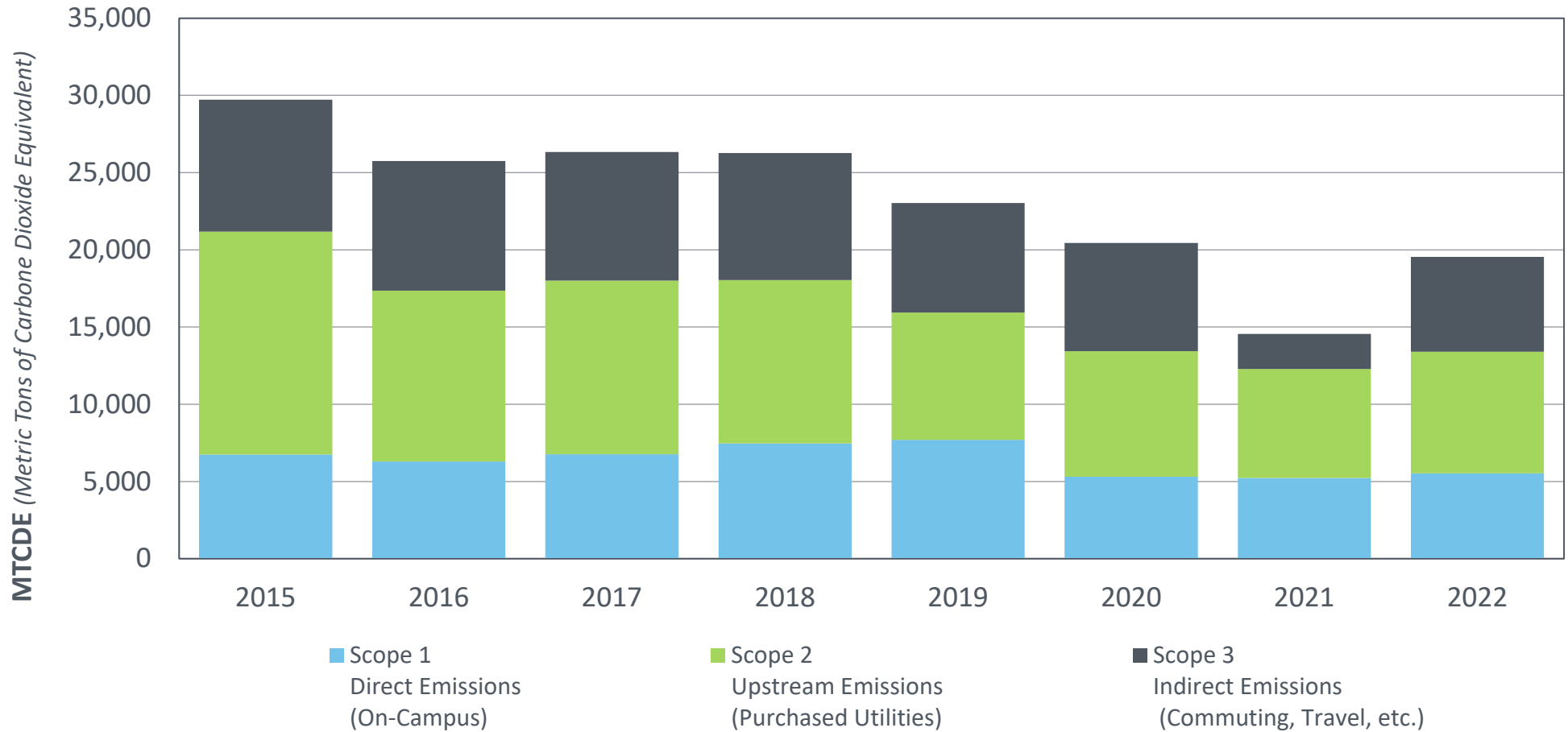


■ Extremely Important
 ■ Very Important
■ Neutral
 ■ Unimportant
■ Very Unimportant

■ Extremely Important
■ Very Important
■ Neutral
■ Unimportant
■ Very Unimportant

Reduction of Total Emissions Since 2015

Total Emissions



Scope 3 Emissions
-28% from 2015

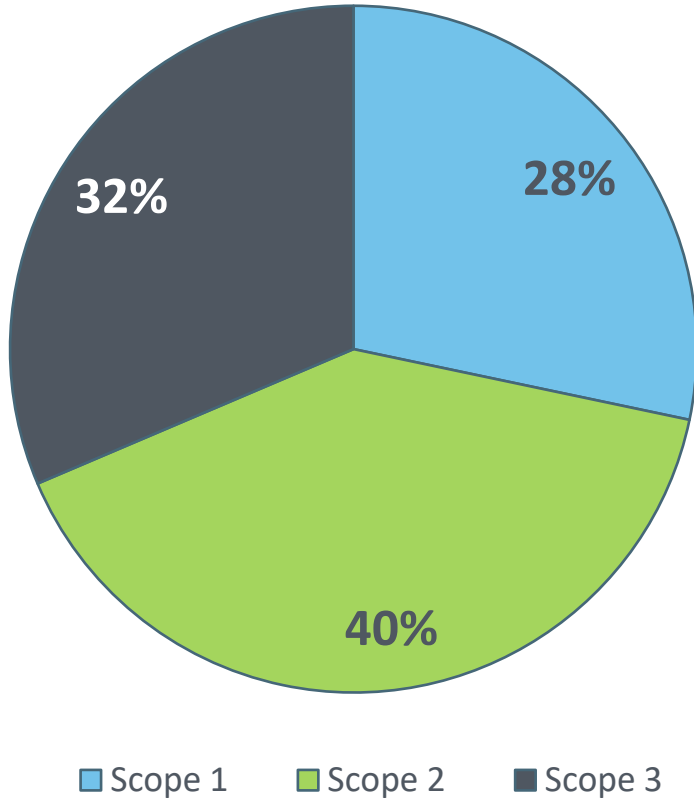
Scope 2 Emissions
-45% from 2015

Scope 1 Emissions
-18% from 2015

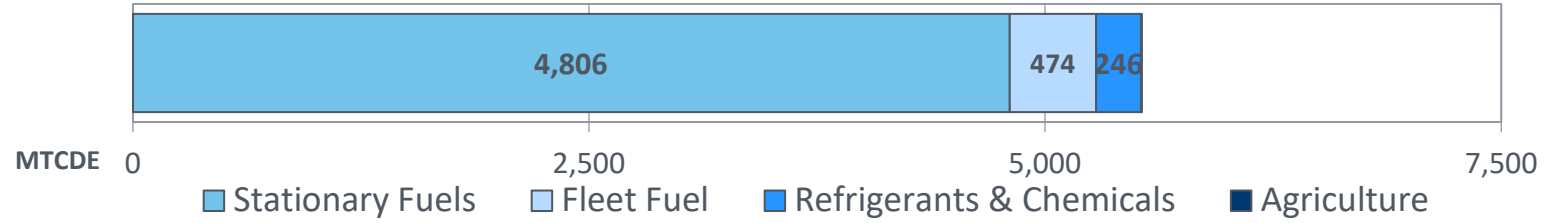
FY22 Loyola Emissions Profile

FY22 emissions total 19,539 MTCDE

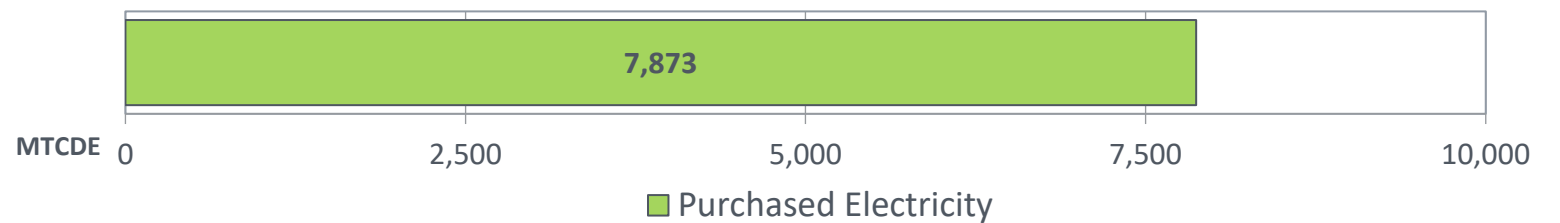
FY 22 Emissions by Scope



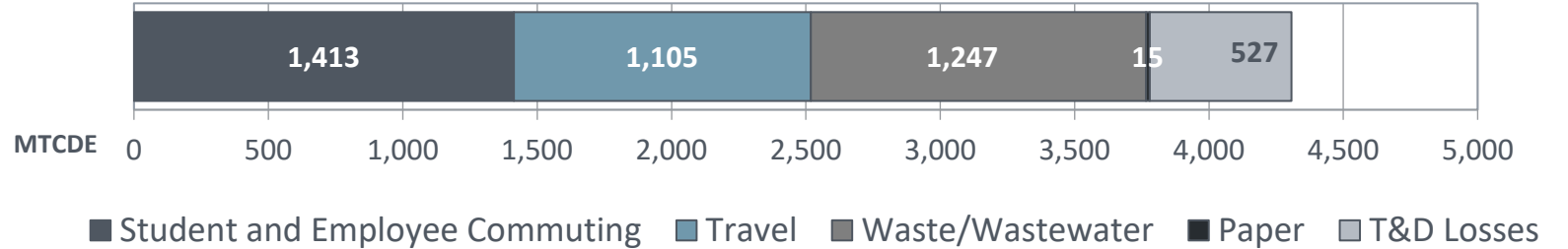
Scope 1 Sources



Scope 2 Sources



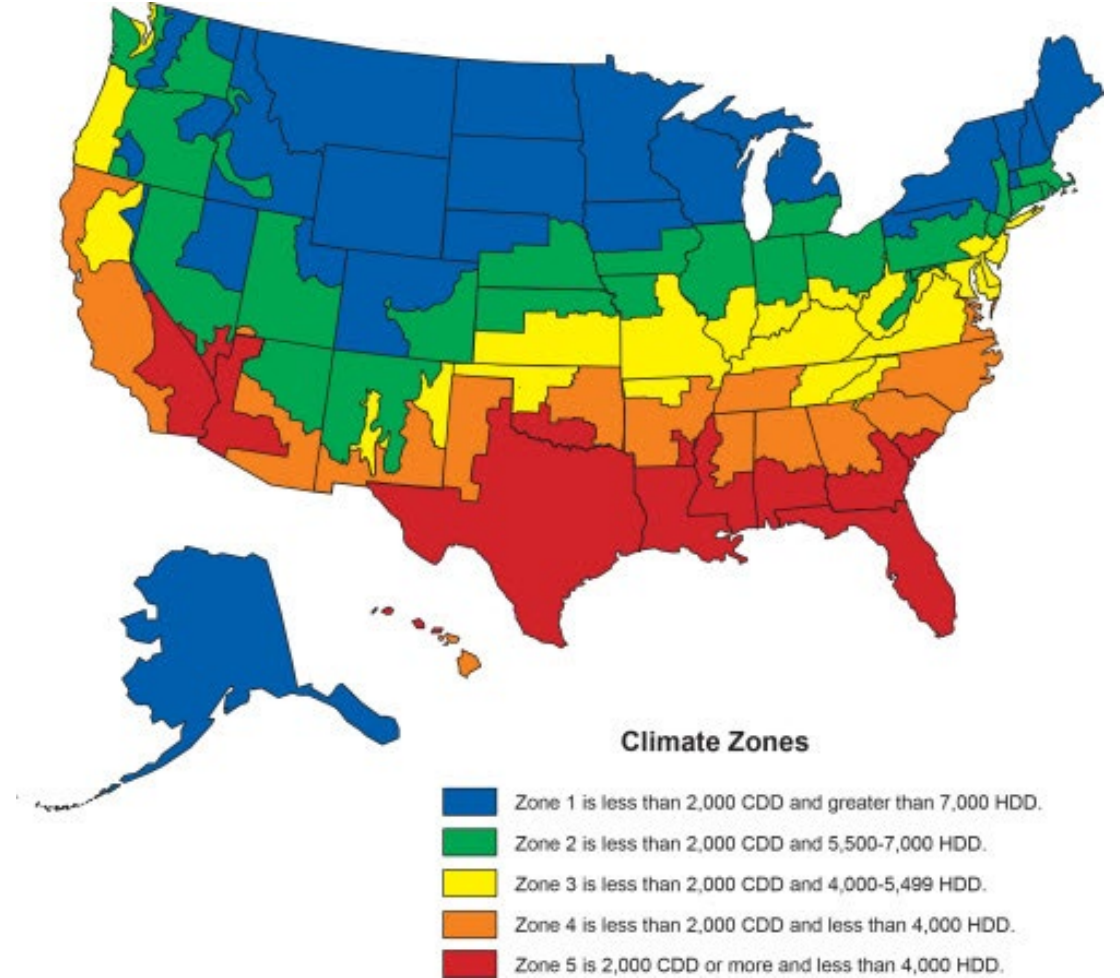
Scope 3 Sources



Sustainability Peers

Climate zone is taken into account when selecting peers

Sustainability & Energy Peers	Location
American University	Washington, DC
Bentley College	Waltham, MA
Boston College	Chestnut Hill, MA
New Jersey Institute of Technology	Newark, NJ
Rider University	Lawrenceville, NJ
Swarthmore College	Swarthmore, PA
The Catholic University of America	Washington, DC

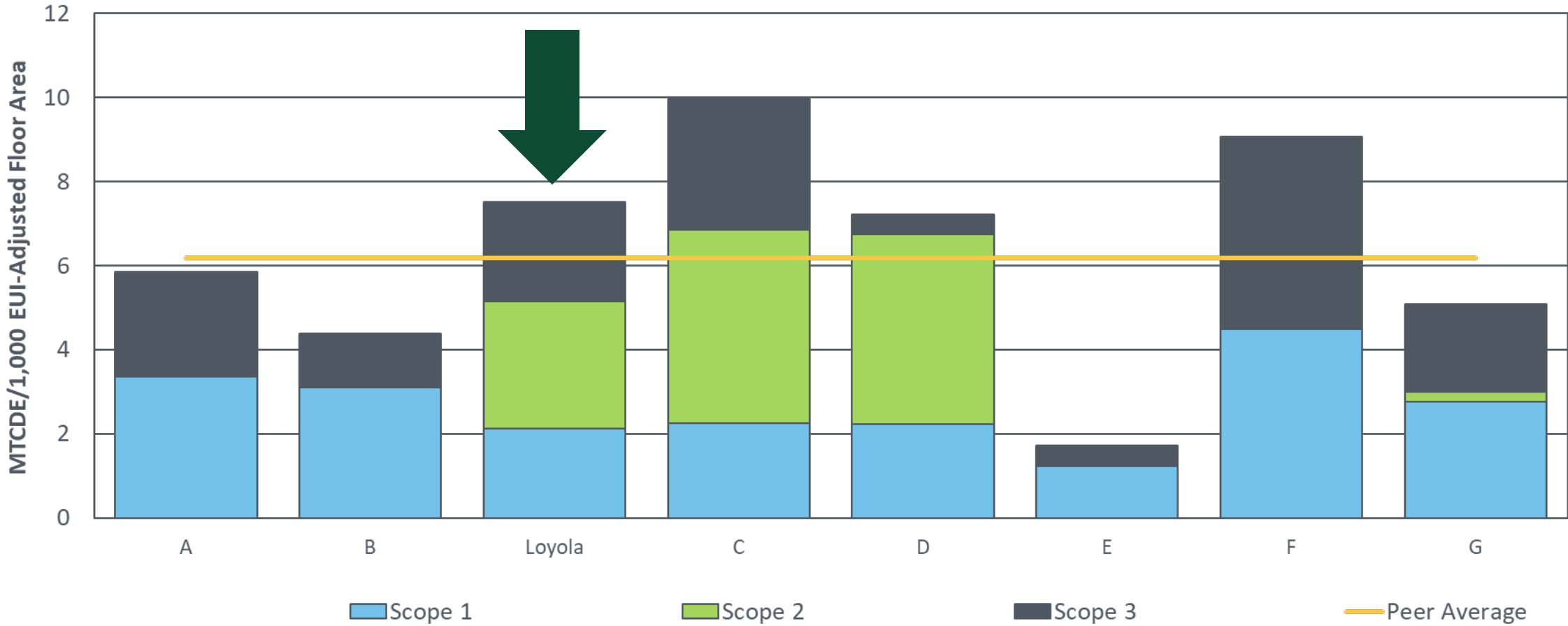




Emissions Compared to Peers

5 out of 8 peers offset 99-100% of their Scope 2 emissions

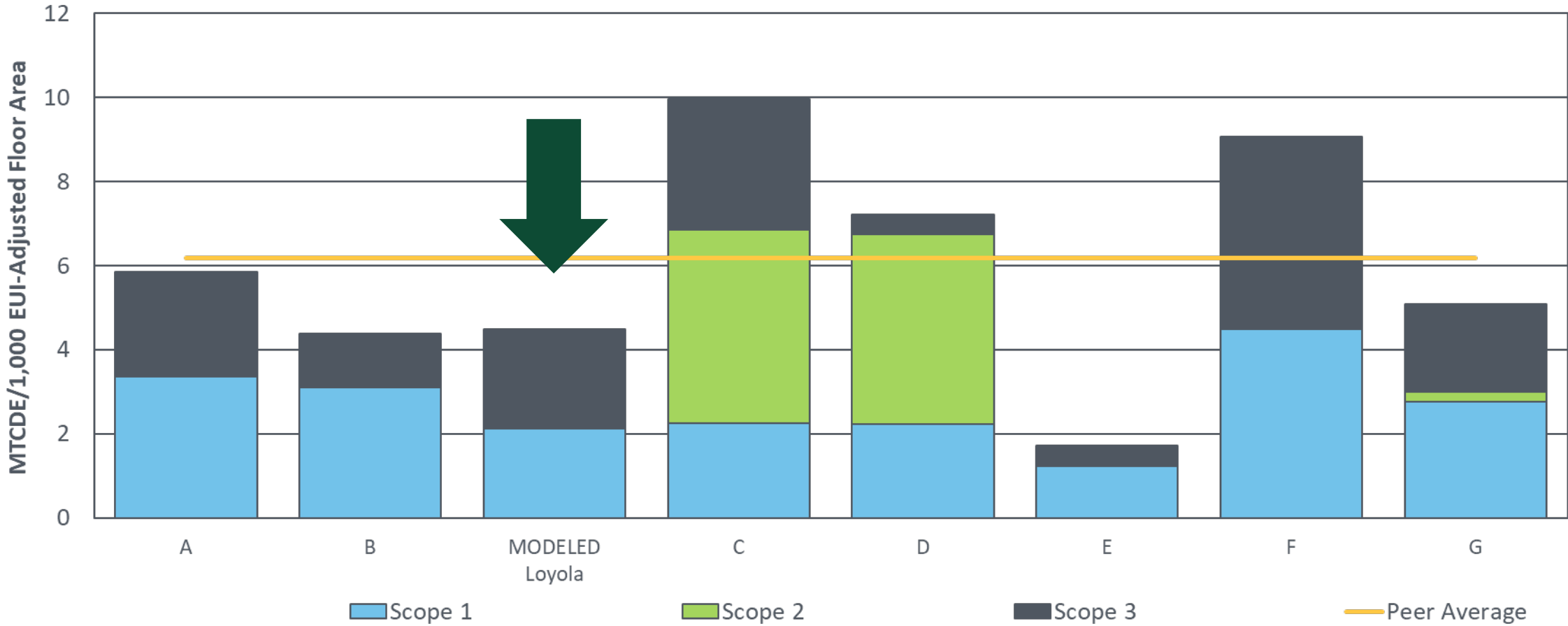
FY22 Carbon Emissions vs. Peers



MODEL: Impact of Offsetting Scope 2

If Loyola offset 100% of Scope 2 emissions, this is the impact on the emissions profile

FY22 Carbon Emissions vs. Peers



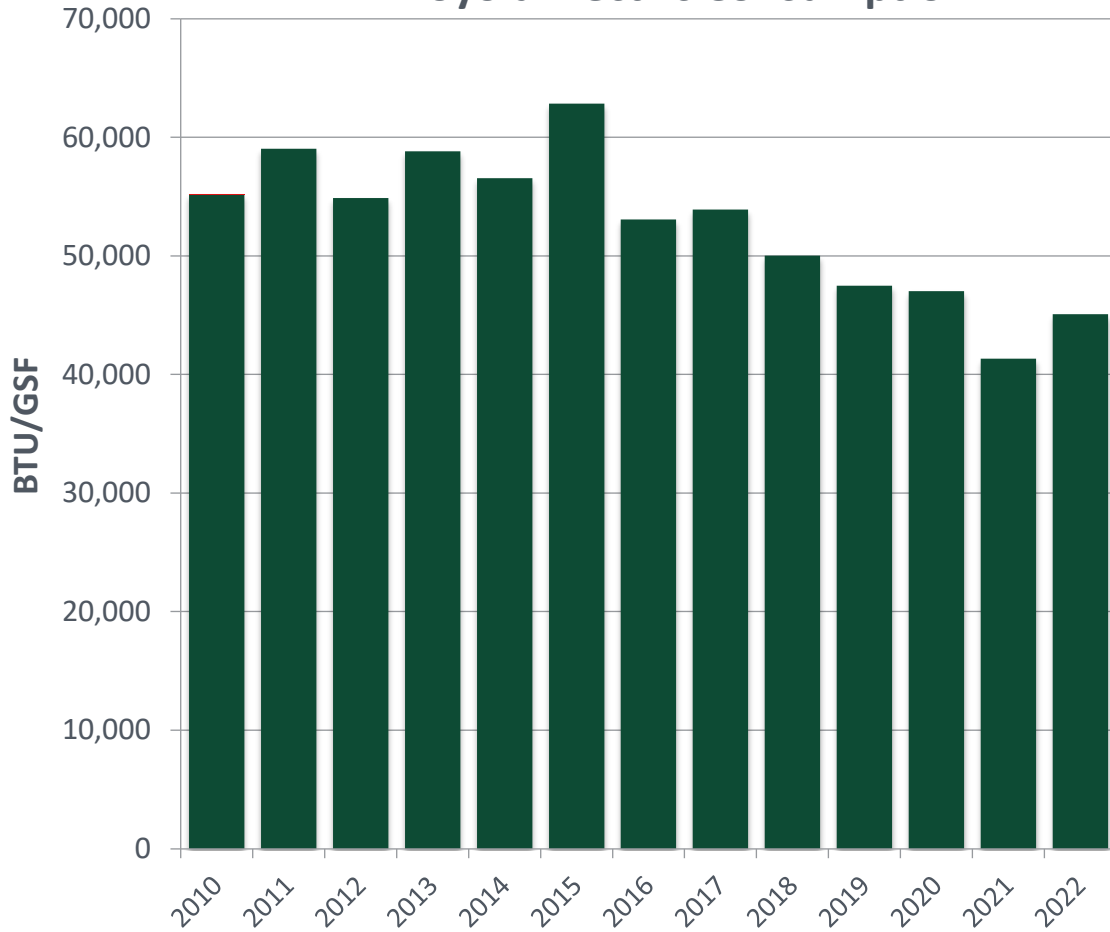
Utility Consumption Drives Emissions



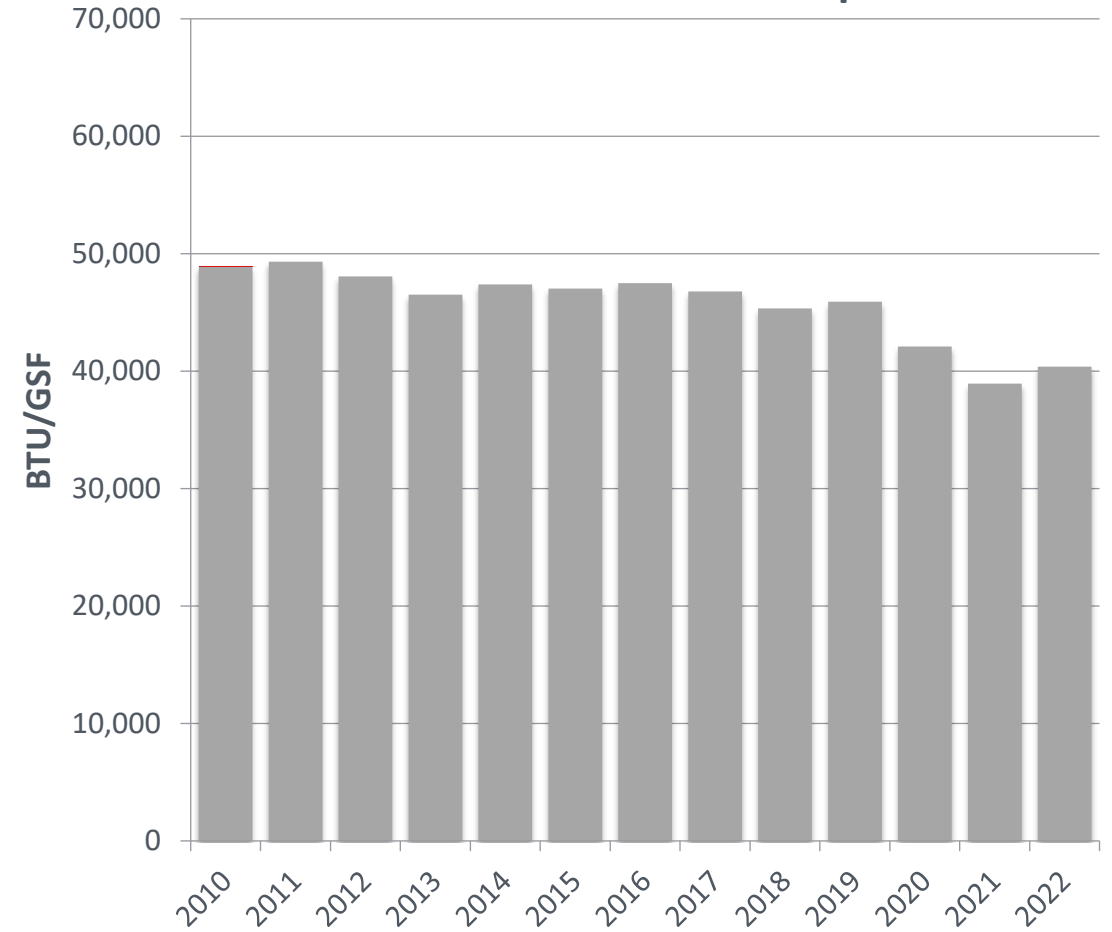
Decreasing Electric Consumption Positively Impacts GHG

Reduction in consumption is driven by electricity, with a 18% reduction in since FY2010

Loyola Electric Consumption



Peer Electric Consumption

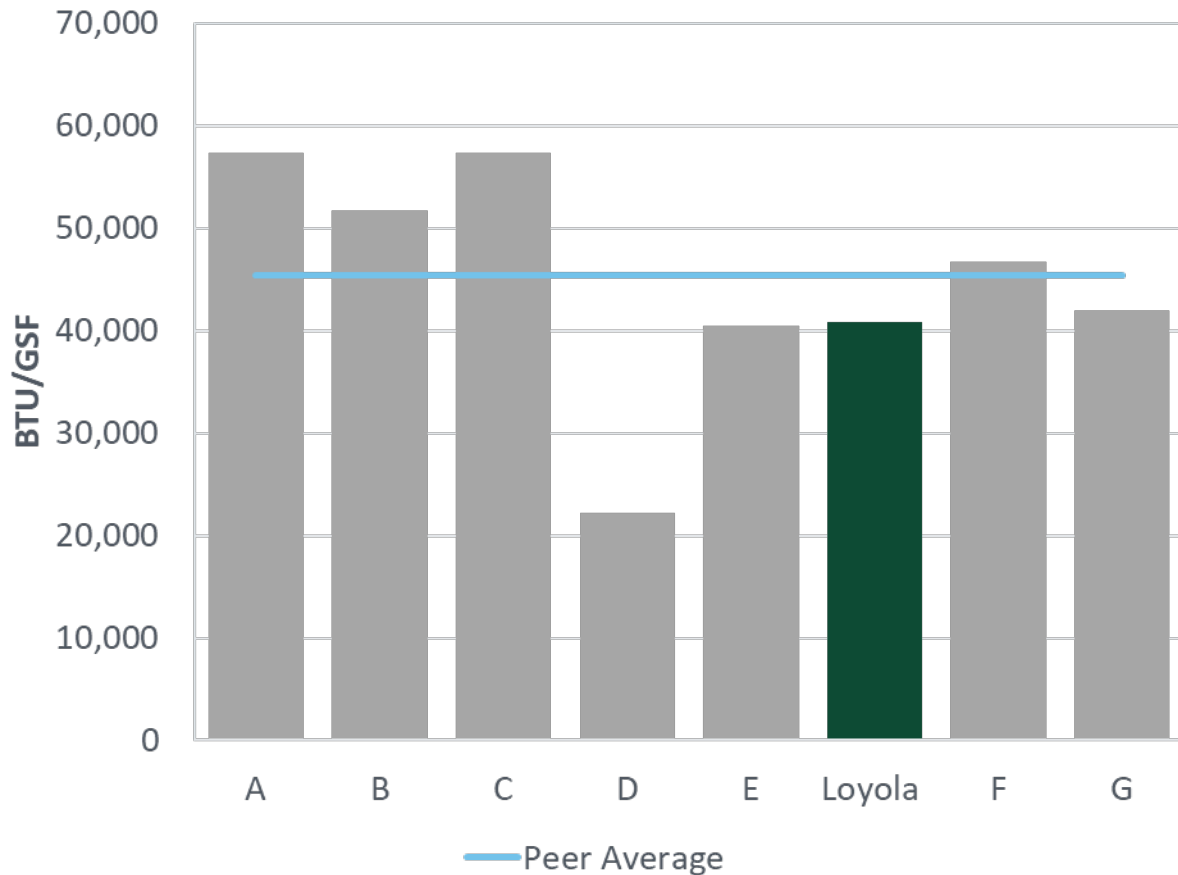




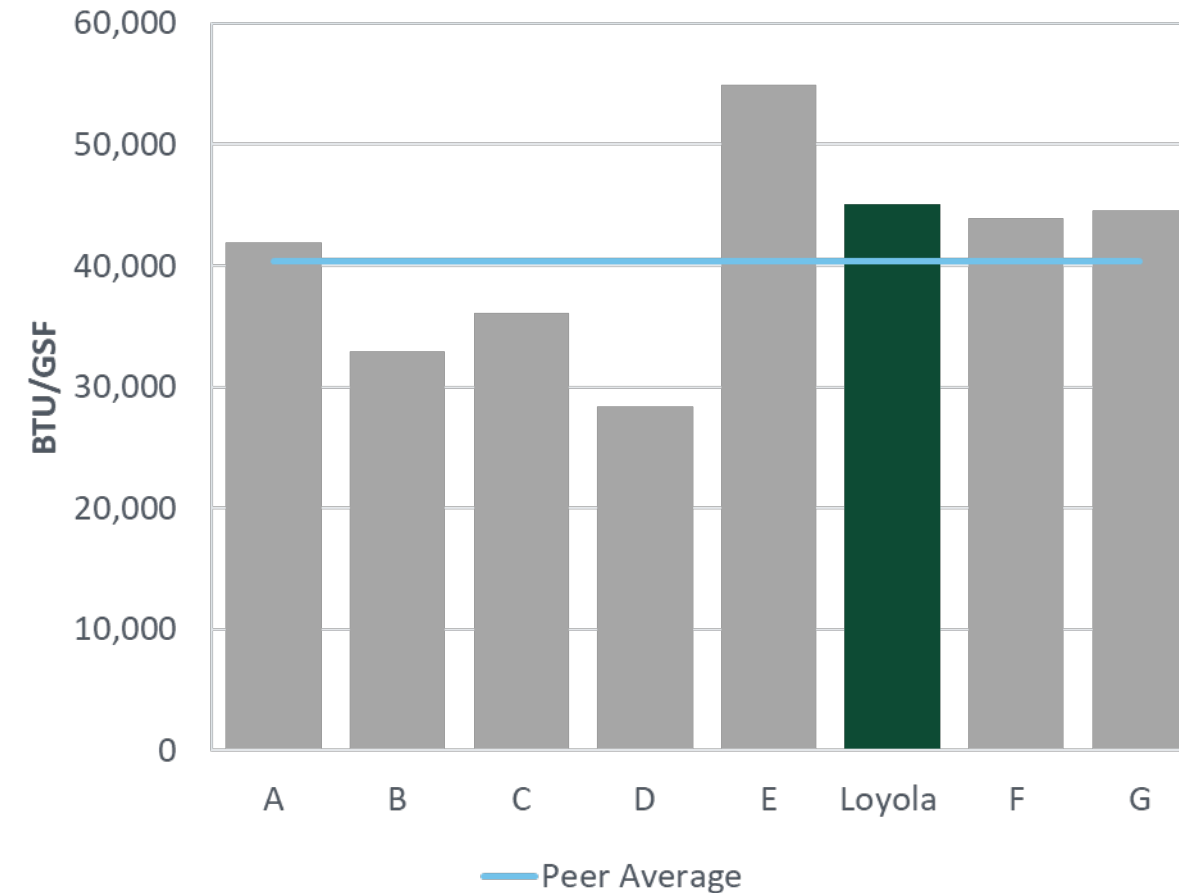
Loyola Consumes Same as Peer Average

Total consumption (fossil + electric) is on par with peer average

Fossil Consumption vs. Peers



Electric Consumption vs. Peers



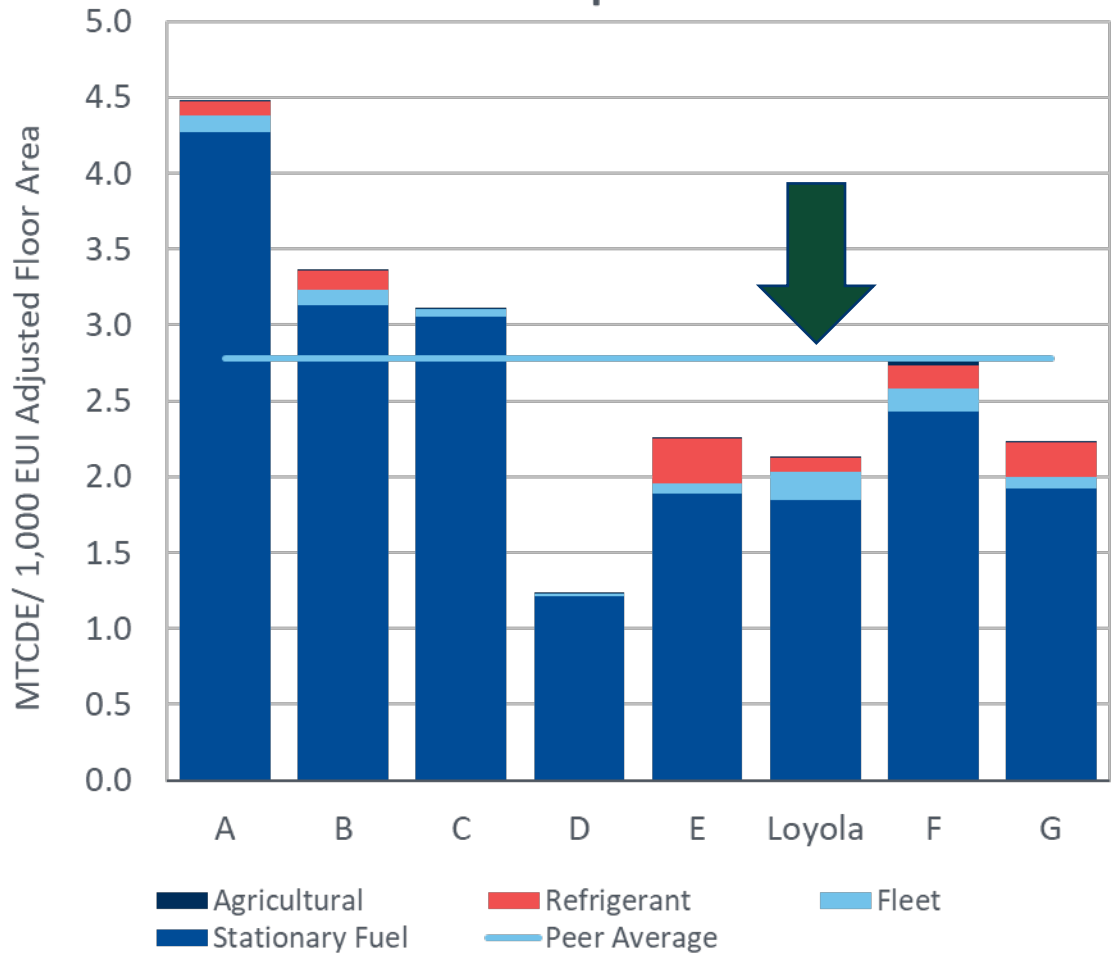
Institutions ordered by increasing tech rating



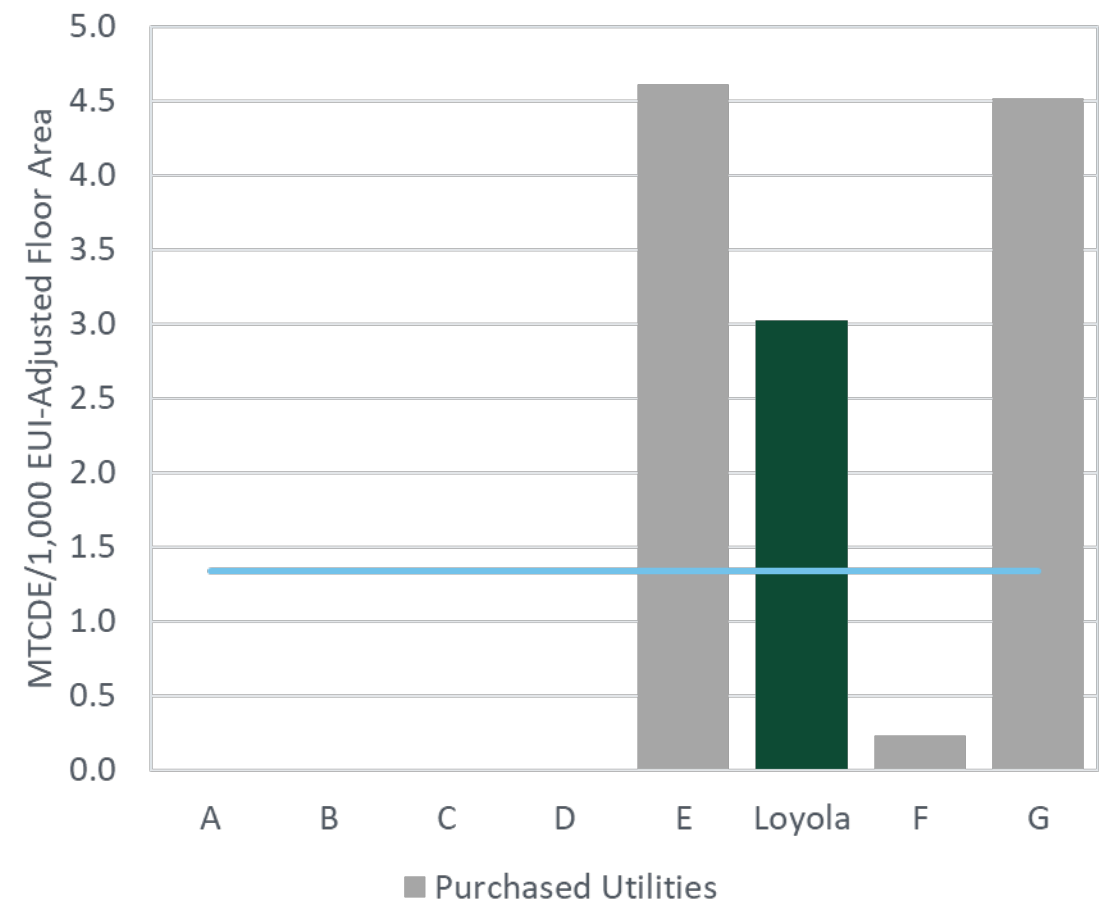
Peers Offset Electricity to Reduce Emissions Profile

5 out of 8 peers offset 99-100% of their purchased electricity

Peer Scope 1 Emission



Peer Scope 2 Emission

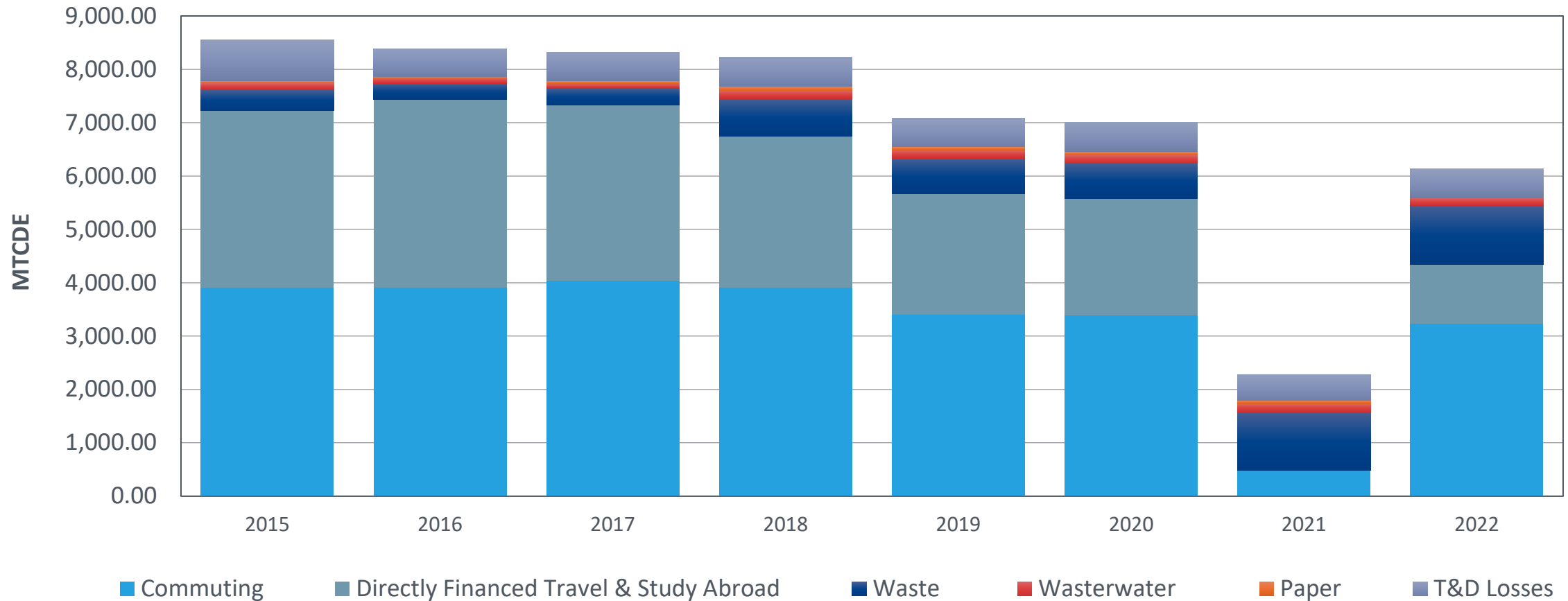


Scope 3 Emissions Profile



Total Scope 3 Emission

Scope 3 Emission by Source



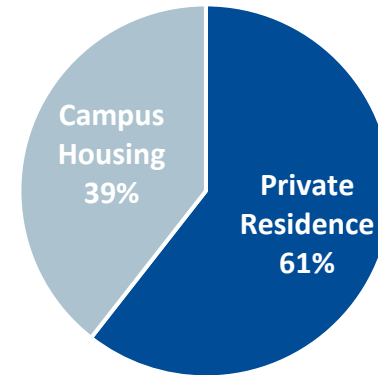
Updated Commuting Data Based on Nov. 2022 Survey

961 responses collected from November 9, 2022 to November 23, 2022

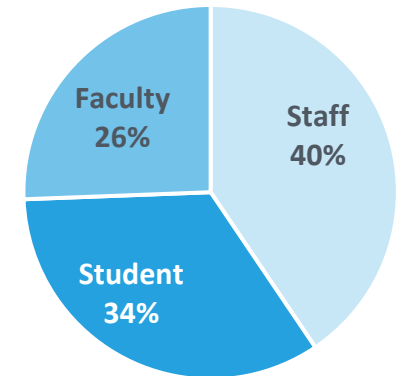
	Commuters	Reside on Campus	Totals
Faculty	149	1	150
Staff	236	4	240
Student	197	374	571
Total	582	379	961

Data included in GHG inventory

Commuters vs. On-Campus Housing



Commuter Respondents by Role

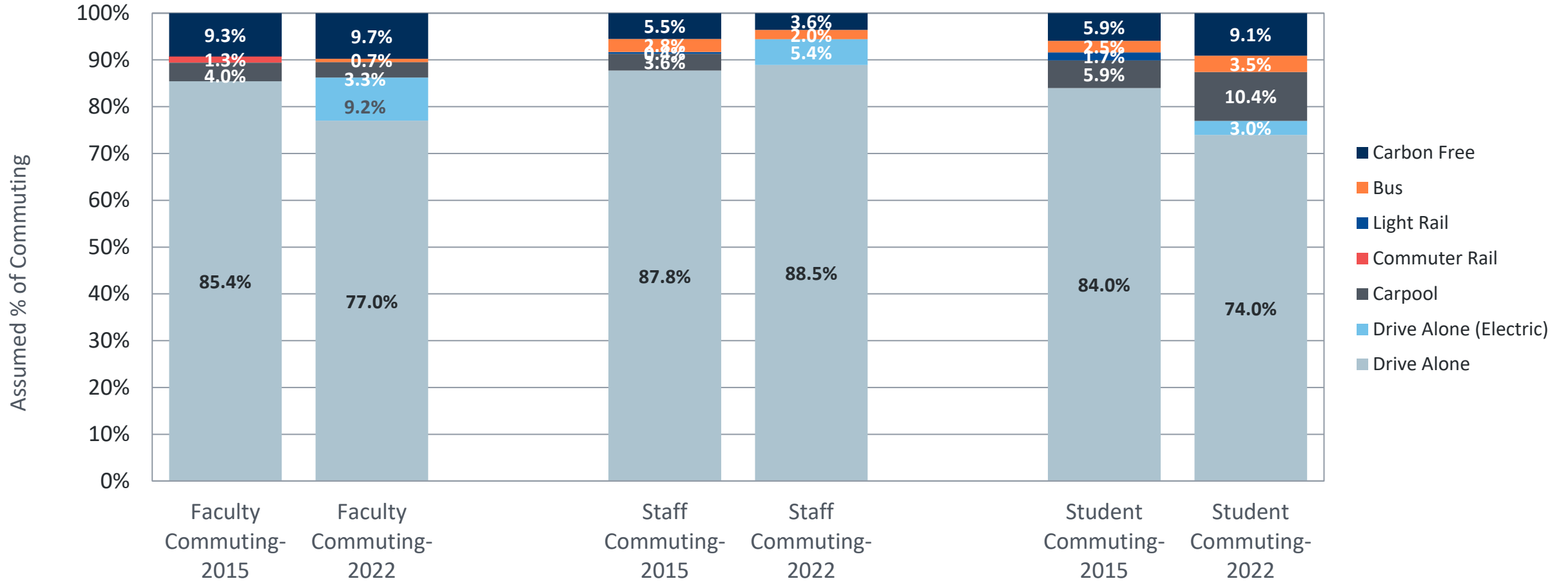


Respondents who dropped out of the survey before completing the first question about commuting mode are not included in the results

Mode of Transportation, 2015 vs. 2022

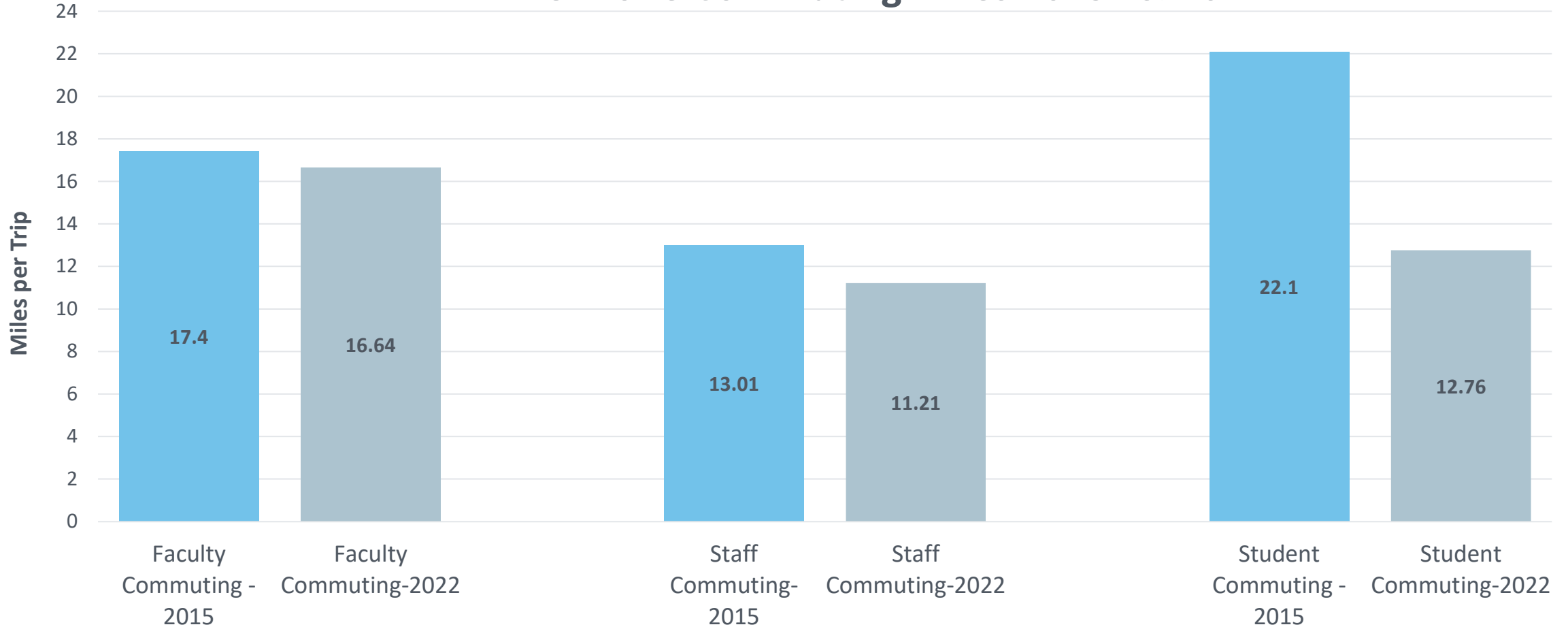
Electric Vehicles was not an option in FY15's survey

Loyola's Methods of Transportation



Shorter Trip Distances Reduce Commuting Emissions

Drive Alone Commuting Miles 2015 vs. 2022



Reaching Goals



Strategies for Reducing Emissions

AVOIDANCE:

Prevent activities before they start

Example: Increase space utilization instead of building or acquiring new space

ACTIVITY:

Reduce the existing level of an activity

Example: Consume fewer BTUS' of energy/travel fewer miles

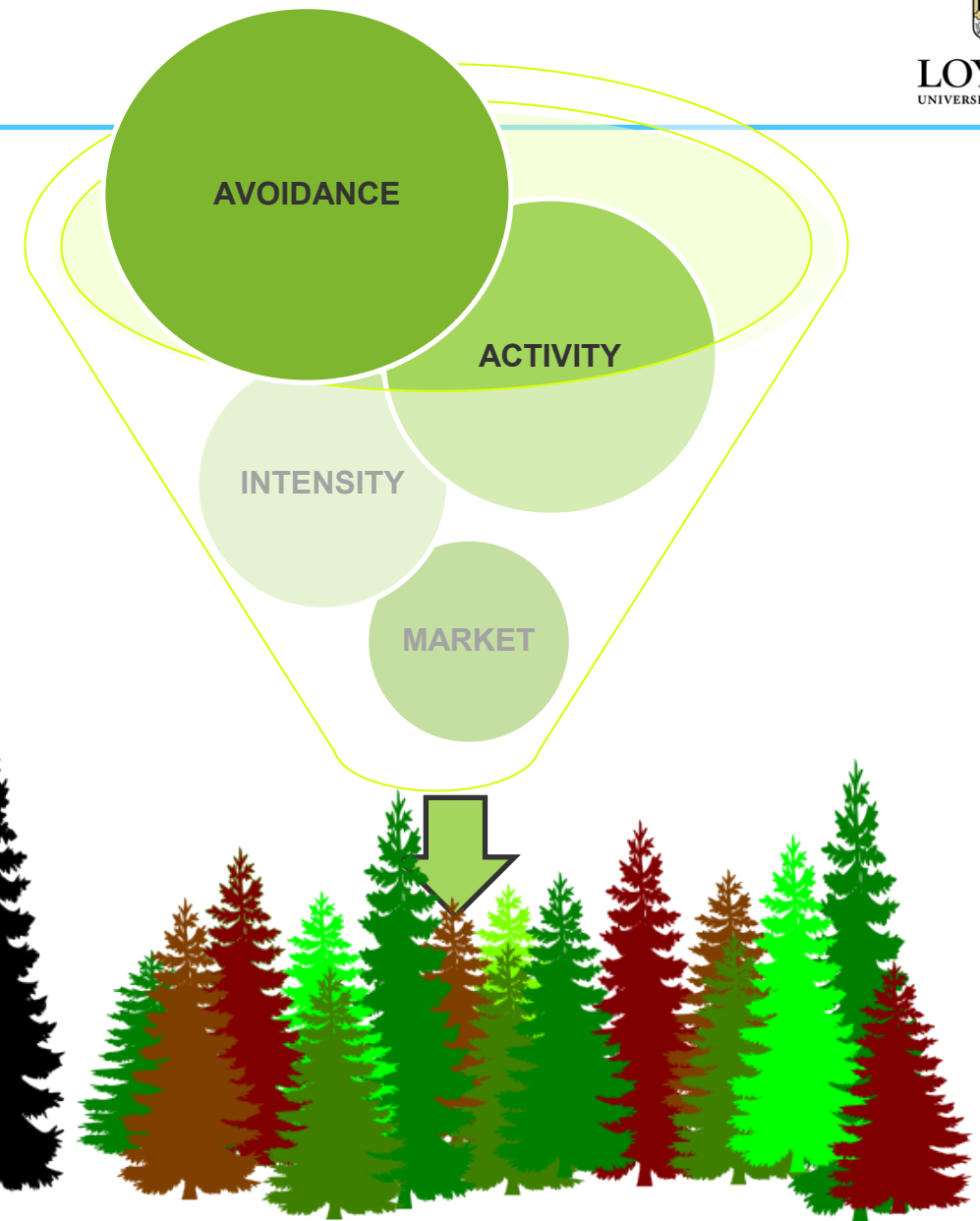
INTENSITY:

Lessening the carbon intensity of activities

Example: Fuel switching (coal to biomass)

MARKET:

Utilizing Market mechanisms to neutralize unavoidable GHGs

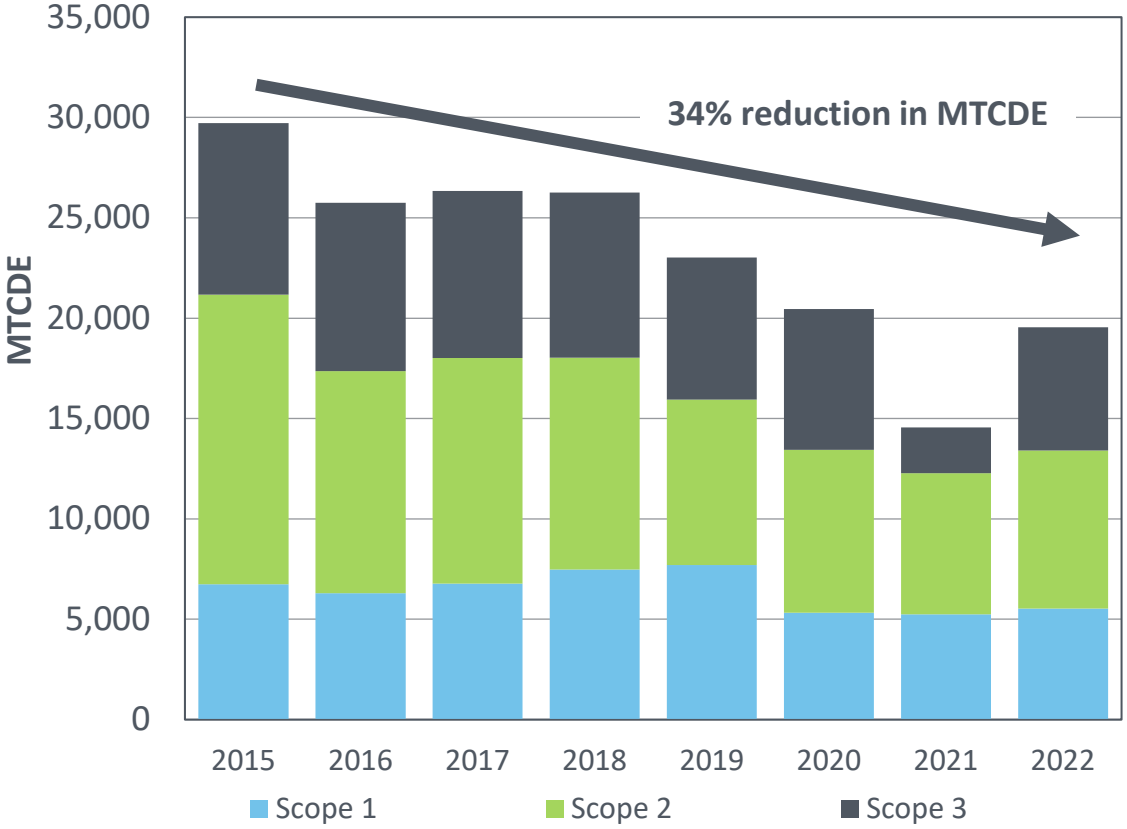




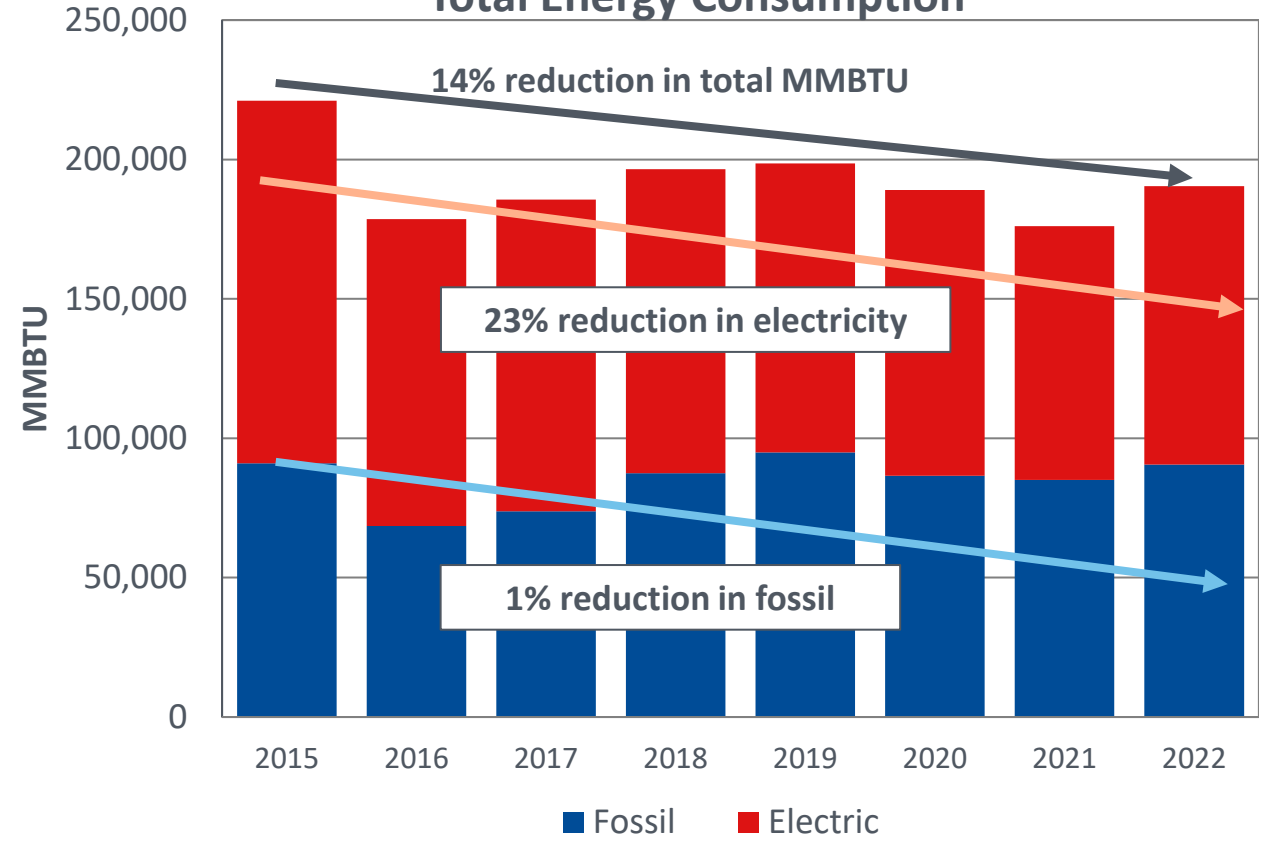
Performance to Climate Action Plan Goals

Loyola's Climate Action Plan*
Achieve carbon neutrality by 2050 (interim goal to reduce emissions 30% by 2030); Reduce energy consumption 20% by 2030

Total Emissions



Total Energy Consumption



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Building knowledge

