Executive Summary

As part of Kennesaw State University’s (KSU) commitment to resource conservation, sustainability, and fiscal responsibility, KSU’s Office of Campus Planning and Sustainability completes an annual greenhouse gas (GHG) inventory. The 2017 inventory is the sixth such inventory conducted for KSU and the second inventory post-consolidation between KSU and Southern Polytechnic State University (SPSU). This inventory reflects the impact of KSU’s operations, including utility consumption, travel, commuting habits, and waste generation and disposal, on greenhouse gas emissions.

This inventory shows KSU’s operations contributed 108,451 metric tons equivalent of carbon dioxide to the atmosphere in fiscal year 2017, a three percent decrease from the 2016 GHG inventory, and a 22 percent decrease from the 2014 inventory, which is a summation of KSU and SPSU data. The emissions generated per student decreased 26 percent from 2016 to 2017, with our current report reflecting 3.46 metric tons equivalent of carbon dioxide per student, compared with 4.67 in 2016 and 4.77 in 2014.

Purchased electricity is the main driver of KSU’s greenhouse gas emissions. This accounts for 47 percent or 50,681 metric tons equivalent of carbon dioxide. Student commuting is the second largest driver of greenhouse gas emissions; it accounts for 31 percent or 34,066 metric tons equivalent of carbon dioxide. This is a marked change from the 2016 report, in which scope three emissions (which includes student commuting) accounted for 59 percent of all emissions generated. These changes are in part due to increased involvement from Plant Operations staff in properly accounting for all purchased electricity and partly from changes in how the average student commute is calculated.

The decrease in emissions per students is not solely due to changes in methodology. It reflects on-going efforts across multiple departments to advance sustainability initiatives at the operational and user level. For example, Parking and Transportation is modifying its approach to parking permits, carpooling, and bus routes in an effort to reduce single occupancy vehicles on campus. Plant Operations is working on a campus-wide Energy and Water Dashboard displaying real-time demand and consumption for many buildings on campus; this dashboard is being coupled with educational efforts to promote conservation. The University is looking into options to cost-effectively deploy additional solar PV projects on campus. Facilities increased the availability of recycling infrastructure on campus and recorded an increase in recycling rates; we hope to expand upon that further with educational outreach initiatives 2018 and 2019.
About KSU

KSU is a dual-campus university due to a 2015 consolidation with Southern Polytechnic State University. The two campuses are 10 miles apart and are both located near highway I-75 in north metro Atlanta. The northern campus, referred to as Kennesaw campus, is the larger of the two campuses and offers a more traditional liberal arts experience. The southern campus, referred to as the Marietta campus, is smaller; this campus serves as the STEM campus, with engineering, architecture, and computer science. The two campuses consolidated as one university in fall 2016. This is KSU's second inventory post-consolidation.

KSU is a public college and is the third-largest university in Georgia; its fall 2016 enrollment was 31,360 students, measured as full-time equivalents. While KSU is primarily a commuter school, we house 5,080 students on-campus and we are actively developing plans to build more on-campus housing. Additionally, local apartments provide housing for at least 4,000 students near campus.

Campus Boundaries

The first step in any greenhouse gas inventory is defining the boundaries of the institution to delineate where to source operational data. KSU includes in its boundaries all buildings owned or operated by the University or by the KSU Foundation. (For the purposes of this report, KSU will mean both KSU and the KSU Foundation, unless stated otherwise.) Included in our inventory are academic buildings, offices, dining facilities, athletic buildings, a gym, a library, parking decks, and residence halls. Due to the diverse ownership structure, it was at times difficult to get all operational data; however, we worked in good faith to ensure the data was comprehensive. Our boundaries correlate with those identified in the publicly available campus maps; these are located on-line at http://www.kennesaw.edu/maps/.

In addition the these two campuses, KSU offers select classes in Paulding County and near Cobb Galleria. Due to the fact that we neither own nor operate these buildings, this data is excluded from the inventory.

Greenhouse Gas Calculations

The greenhouse gas inventories measure different source of greenhouse gas emissions. These sources are referred to as “scope one, scope two, and scope three” emissions. The Greenhouse Gas Protocol defined the different sources and created this as an international standard for reporting.

Scope one emissions come from sources owned or controlled by the reporting entity. Scope one emissions includes on-site fossil fuel combustion (such as natural gas), renewable energy production, refrigerant management, fertilizer use, and fleet fuel consumption.

Scope two emissions come from purchased electricity, heat, or steam. KSU purchases electricity from Georgia Power, Marietta Power and Water, and Cobb County EMC. The GHG inventory takes into account the fuel blend used by the utilities. If KSU’s utilities were to rely exclusively on coal to create electricity, for example, this would create higher emissions for KSU than if KSU’s utilities used nuclear or a blend of renewable energy.

Scope three emissions come from sources not owned or directly controlled by the institution, but directly related to the institution’s operations. Scope three emissions include commuting by students, staff, and faculty, study abroad and work travel, solid waste, wastewater treatment, and office paper. Food also falls under Scope three emissions; we were unable to capture data on food purchases this year, but expect to be able to provide that data in the future.

KSU Sustainability staff collected operational data across multiple departments, including Facilities, the Foundation, Auxiliary, Housing, and Athletics. KSU Sustainability staff compiled that data and then imported it into the Sustainability Indicator Management and Analysis Platform (SIMAP), an on-line greenhouse gas calculator developed by the University of New Hampshire. This tool is located at https://unhsimap.org/home. This tool is recognized by Second Nature and is utilized by many peer colleges throughout the U.S.
Operational Data: Sources, Owners, and Methodologies for Calculations

A summary of data sources and the responsible department for each emission source is listed below. Emission sources marked with an asterisk (*) were calculated based on a series of assumptions, versus on verifiable data (such as receipts). Raw operational data from 2016 and 2017 is included in Table Four. Emissions sources marked with an up-facing arrow (^) were calculated differently than in years past. Detail on both the assumptions and the calculations is below the table.

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Data Sources</th>
<th>Data Owners</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scope 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Gas^</td>
<td>Monthly utility bills.</td>
<td>Plant Operations, Facilities The Foundation Housing &amp; Residence Life Athletics</td>
</tr>
<tr>
<td>Solar PV^</td>
<td>Estimates based on system size.</td>
<td>Plant Operations, Facilities</td>
</tr>
<tr>
<td>Fleet (gas, diesel)</td>
<td>Gas purchases for fleet vehicles, golf carts and other equipment, and the Big Owl Bus.</td>
<td>Auto Shop Building Services, Facilities Transportation</td>
</tr>
<tr>
<td>Fertilizers</td>
<td>Fertilizer purchases for landscape and grounds crew.</td>
<td>Landscape and Grounds, Facilities</td>
</tr>
<tr>
<td>Refrigerants</td>
<td>Storage log.</td>
<td>Mechanical, Electrical and Plumbing; Facilities</td>
</tr>
<tr>
<td><strong>Scope 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electricity^</td>
<td>Monthly utility bills.</td>
<td>See “Natural Gas.”</td>
</tr>
<tr>
<td><strong>Scope 3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commute^</td>
<td>Estimates based on number of parking permits sold relative to KSU population and estimated daily vehicle miles travelled, based on city or county of origin for students, staff and faculty.</td>
<td>Transportation Housing (for residential students)</td>
</tr>
<tr>
<td>Travel*</td>
<td>Reimbursement for mileage travelled (receipt-based); estimates based on rental car trips, air travel, and study abroad.</td>
<td>Travel Study Abroad</td>
</tr>
<tr>
<td>Waste</td>
<td>Tonnage reports from waste contractors.</td>
<td>Buildings Services, Facilities Housing Athletics</td>
</tr>
<tr>
<td>Compost</td>
<td>Tonnage reports from contractors for food waste, grounds, and cooking oil.</td>
<td>Dining Services Athletics</td>
</tr>
<tr>
<td>Wastewater</td>
<td>Monthly utility bills.</td>
<td>See “Natural Gas.”</td>
</tr>
<tr>
<td>Office Paper^</td>
<td>Estimates based on data provided by printing company (RICOH) and Procurement.</td>
<td>RICOH Procurement</td>
</tr>
</tbody>
</table>

*Notes items which were estimated based on assumptions versus on verifiable data.
^Notes items for which calculations are different than in previous years.
As noted above, data for four emissions sources were developed based on estimates versus on verifiable data, such as record logs and receipts. These sources were Solar PV generation, commuting, travel, and office paper purchases. Additionally, we used different calculations for some data sources than we did in previous years; these are marked with an up-arrow (^). Below is an explanation of the methodology used for aforementioned emission source.

**Natural Gas, Electricity and Water:** It appears as though past reports only listed utility consumption data as reported for the Kennesaw campus in the annual Board of Regents utility report. However, this report leaves out utility data from Housing, Athletics, and other Foundation properties, as well as from Marietta campus. In this report, we included previously missing data, expanding the emissions contributed to each of these sources.

**Solar PV:** Marietta campus hosts a 15-Kw solar PV system. This is split into a both ground-mounted system near the Engineering Technology Center building and a rooftop system on top of the Engineering Technology Center building. KSU does not currently track the monthly or annual generation data from the system inverters. However, we plan to begin tracking and publicly reporting on generation data as part of our general sustainability outreach. Therefore, this data will be included in future greenhouse gas reports (likely in the FY2019 greenhouse gas report).

Estimates were based on the calculations from the National Renewable Energy Laboratory, which takes into consideration systems size, geographic location, and amount of sun received annually. Generation data was not reported in previous greenhouse gas inventories.

**Commuting:** KSU is a commuter school with limited alternative commute options such as biking, walking, or public transportation. Commuting is also one of the largest contributors to KSU’s greenhouse gas emissions. However, unlike in other parts of the inventory, we lack accurate data on commuting habits and thus rely on a series of calculations and assumptions to calculate the greenhouse gas emissions associated with commuting.

To make these calculations for students, we looked at the following known facts directly and indirectly related to commuting:

- Full-time equivalent enrollment for fall 2016 (31,360)
- Number of parking permits purchased by off-campus students (19,467)
- Students living on-campus: 5,080
- Students living in apartment complexes near campus: 4,037
- County of origin data for all students (based on permanent address at time of application – i.e. typically tied to their parents’ address).
- City of origin data for all staff and faculty (based on permanent address at time of application).

KSU sustainability staff estimated the number of miles one would travel from each city or county to arrive at campus. We then estimated the percentage who would drive to Kennesaw campus or to Marietta campus, based on actual numbers attributed to each campus. We assumed any student whose permanent address would have him or her driving more than fifty miles one-way would have relocated to the Cobb area and we assigned him or her a Cobb address.

Based on these calculations, we assumed students had an average one-way commute of 37 miles. We also assumed students drove to campus an average of three days per week for 42 weeks per year. These estimates only applied to students who lived off-campus. We then estimated the percentage of trips made by car, bike, bus, or by foot and estimated mileage for each commute. Raw data for these estimates is included in Table 5.

We made two major changes in this methodology, compared with in previous years:

1. Previously, we would assume that students driving 75 miles or further had relocated to Cobb County; this year we reduced that cut-off to 50 miles.
2. Previously, we would assume that students would drive to campus 3.5 days per week. Given the number of two-day classes, we shortened that to three days per week.
3. For staff and faculty estimates, we followed the same methodology, with a few key differences:
   a. Mileage calculations were made at the city-level, versus the county level.
   b. Staff were assumed to drive to campus an average of 4.5 times per week, 48 weeks per year.
   c. Faculty were assumed to drive to campus an average of 3.5 times per week, 42 weeks per year.
   d. We assumed city of origin data was accurate, regardless of miles per commute except when it reflected an out-of-state destination. In those cases, we assumed the individual had relocated to Cobb County.

**Travel:** University travel covers regional trips in personal vehicles, business travel by plane or rental car, and student study abroad by plane. While we have detailed records for miles travelled by personal vehicle, we developed calculations for all other types of travel.

For rental vehicles, we took the final cost and multiplied it by the IRS reimbursement rate for personal vehicle mileage. For plane travel (both business and study abroad), we guessed the airport travelled to (typically choosing the capital city, unless other information was available) and calculated mileage using the on-line tool Air Miles Calculator ([airmilescalculator.com](http://airmilescalculator.com)). In some cases, we estimated multi-city routes.

**Office Paper Purchase:** RICOH and Procurement provided estimates of the number of units of paper purchased. Paper purchases were not included in previous greenhouse gas inventories

**GHG Emissions Data**

The SIMAP carbon calculator measures KSU’s carbon footprint based on reported operational data. We found a nearly even split between scope two and scope three emission sources (47% and 45%, respectively) with the balance of emissions from scope one sources (8%). This is a change from last year, in part due to changes in estimating commuting data and in part due to increased involvement by Plant Ops and Sustainability staff in identifying all electricity purchases. The total number of scope one emissions increased from 1,432 metric tons equivalent of carbon dioxide to 8,735 metric tons equivalent of carbon dioxide in FY 2017. This increase is likely due to improved reporting by Plant Operations staff, rather than a significant increase in natural gas consumption.
In 2016, KSU consolidated with Southern Polytechnic State University, creating a dual-campus experience and increasing enrollment exponentially. As a result of this consolidation, KSU is now the third largest public university in Georgia. Additionally, our actual enrollment continues to outpace projected enrollment, although we are making policy changes to allow us to better control our enrollment going forward. Despite these gains, the emissions have decreased significantly since 2014 and slightly from 2016. Additionally, emissions on a per student basis have decreased from 4.67 metric tons per person to 3.46 metric tons per person. This data is illustrated in graph two and table two, below.
### Table 2: Emissions by year and Scope (measured in Metric Tons equivalent of Carbon Dioxide)

<table>
<thead>
<tr>
<th>Scope</th>
<th>FY 2014</th>
<th>FY 2016</th>
<th>FY 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope 1</td>
<td>1,130.35</td>
<td>1,432.05</td>
<td>8,736</td>
</tr>
<tr>
<td>Scope 2</td>
<td>52,198.65</td>
<td>45,072.12</td>
<td>50,681</td>
</tr>
<tr>
<td>Scope 3</td>
<td>85,746.62</td>
<td>65,308.34</td>
<td>49,033</td>
</tr>
<tr>
<td>Total emissions, by year</td>
<td>139,075.62</td>
<td>111,812.51</td>
<td>117,943</td>
</tr>
<tr>
<td>Emissions per full-time student</td>
<td>4.77</td>
<td>4.67</td>
<td>3.46</td>
</tr>
</tbody>
</table>

FY 2014 data includes total emissions from KSU and SPSU prior to consolidation; FY 2016 and FY 2017 data represent post-consolidation KSU.

Table three and graph three, below, show the breakdown of greenhouse gas emissions by activity, such as commuting, electricity purchases, solid waste disposal.

### Table 3: Greenhouse Gas Emissions by source, measured in Metric Tons Carbon Dioxide Equivalent

<table>
<thead>
<tr>
<th>Source</th>
<th>Methane</th>
<th>Carbon Dioxide</th>
<th>Nitrous Oxide</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scope One Emissions</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other On-Campus Stationary</td>
<td>18.34</td>
<td>7,375.52</td>
<td>4.37</td>
<td>7,398.24</td>
</tr>
<tr>
<td>Direct Transportation</td>
<td>2.31</td>
<td>1,130.74</td>
<td>11.04</td>
<td>1,144.08</td>
</tr>
<tr>
<td>Refrigerants &amp; Chemicals</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>189.90</td>
</tr>
<tr>
<td>Fertilizer &amp; Animals</td>
<td>0.00</td>
<td>0.00</td>
<td>3.69</td>
<td>3.69</td>
</tr>
<tr>
<td><strong>Scope Two Emissions</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purchased Electricity</td>
<td>112.80</td>
<td>50,549</td>
<td>19.87</td>
<td>50,681</td>
</tr>
<tr>
<td><strong>Scope Three Emissions</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculty Commuting</td>
<td>12.56</td>
<td>2,387.66</td>
<td>50.10</td>
<td>2,450.32</td>
</tr>
<tr>
<td>Staff Commuting</td>
<td>19.84</td>
<td>3,817.29</td>
<td>79.27</td>
<td>3,916.41</td>
</tr>
<tr>
<td>Student Commuting</td>
<td>169.54</td>
<td>33,218.42</td>
<td>678.88</td>
<td>34,066.84</td>
</tr>
<tr>
<td>Directly Financed Air Travel</td>
<td>0.59</td>
<td>2,391.79</td>
<td>8.13</td>
<td>2,400.51</td>
</tr>
<tr>
<td>Other Directly Financed Travel</td>
<td>1.46</td>
<td>277.98</td>
<td>5.83</td>
<td>285.27</td>
</tr>
<tr>
<td>Study Abroad Air Travel</td>
<td>0.70</td>
<td>2,808.23</td>
<td>9.54</td>
<td>2,818.47</td>
</tr>
<tr>
<td>Solid Waste</td>
<td>267.53</td>
<td>0.00</td>
<td>0.00</td>
<td>267.53</td>
</tr>
<tr>
<td>Wastewater</td>
<td>0.00</td>
<td>0.00</td>
<td>109.57</td>
<td>109.57</td>
</tr>
<tr>
<td>Paper Purchasing</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>68.30</td>
</tr>
<tr>
<td>T&amp;D Losses</td>
<td>5.90</td>
<td>2,643.68</td>
<td>1.04</td>
<td>2,650.62</td>
</tr>
</tbody>
</table>
Graph 3: GHG Emissions, by Source

- Other On-Campus Stationary
- Direct Transportation
- Refrigerants & Chemicals
- Fertilizer & Animals
- Purchased Electricity
- Faculty Commuting
- Directly Financed Air Travel
- Study Abroad Air Travel
- Solid Waste
- Paper Purchasing
- T&D Losses
- Other Directly Financed Travel
- Staff Commuting
- Student Commuting
- Wastewater
Operational Data

Below is the raw operational data for 2016 and 2017. The raw data allows easier comparisons across years, especially for relevant departments.

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Unit of Measurement</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>therms</td>
<td>1,018,427</td>
<td>1,391,083</td>
</tr>
<tr>
<td>Solar PV</td>
<td>kWh</td>
<td>-</td>
<td>21,849</td>
</tr>
<tr>
<td>Fleet (gas, diesel)</td>
<td>gallons</td>
<td>145,851</td>
<td>113,176</td>
</tr>
<tr>
<td>Fertilizers</td>
<td>pounds</td>
<td>4,430</td>
<td>3,146</td>
</tr>
<tr>
<td>Refrigerants</td>
<td>pounds</td>
<td>256</td>
<td>297</td>
</tr>
<tr>
<td>Electricity</td>
<td>kWh</td>
<td>73,104,936</td>
<td>95,914,913</td>
</tr>
</tbody>
</table>

Commute

See Table 5.

<table>
<thead>
<tr>
<th>Commute</th>
<th>Student*</th>
<th>Faculty</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>%</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>Bike</td>
<td>12%</td>
<td>1%</td>
<td>1%</td>
</tr>
<tr>
<td>Walk</td>
<td>12%</td>
<td>2</td>
<td>1%</td>
</tr>
<tr>
<td>Carpool</td>
<td>3%</td>
<td>17</td>
<td>3%</td>
</tr>
<tr>
<td>Bus</td>
<td>12%</td>
<td>7</td>
<td>1%</td>
</tr>
<tr>
<td>Personal Car</td>
<td>65%</td>
<td>96%</td>
<td>95%</td>
</tr>
</tbody>
</table>

*Student commute excludes students who live on campus (and therefore do not “commute” in the traditional sense.

**Miles are calculated one-way per SIMAP instructions.
Emission Reduction Action Plan

The greenhouse gas inventory is an important part of KSU’s sustainability efforts as it helps us to evaluate the impact of different programs and initiatives over time in reducing greenhouse gas emissions. It is also helpful to compare raw operational data year-to-year to measure the impact at that level.

Measurement alone does not make a difference. Below is summary of planned and on-going initiatives to further reduce our emissions in each of the key areas categories.

<table>
<thead>
<tr>
<th>Natural Gas</th>
<th>Ongoing</th>
<th>Planned</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Monitor natural gas use on a monthly basis using utility bills.</td>
<td>• Develop energy and water dashboards for all sub-metered data and increase use of this tool for real-time energy management.</td>
</tr>
<tr>
<td></td>
<td>• Use conservation tools and management strategies outlined in our Energy Management Plan.</td>
<td>• Develop an energy management plan for Kennesaw campus.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solar PV</th>
<th>Ongoing</th>
<th>Planned</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Maintain 15 kW solar PV installation on Marietta campus.</td>
<td>• Monitor solar generation on a monthly basis and share data via energy / water dashboard.</td>
</tr>
<tr>
<td></td>
<td>• Explore opportunities to cost-effectively deploy more solar across KSU.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fleet vehicles (gas and diesel purchases)</th>
<th>Ongoing</th>
<th>Planned</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Encourage staff to use the Big Owl Bus when travelling between campuses.</td>
<td>• Purchase more fuel-efficient vehicles as replacement needs arise</td>
</tr>
<tr>
<td></td>
<td>• Promote no-idling policy.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fertilizers</th>
<th>Ongoing</th>
<th>Planned</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Follow integrated pest management strategies and limit use of mulch and other fertilizer.</td>
<td>• No changes.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Refrigerants</th>
<th>Ongoing</th>
<th>Planned</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Follow written procedures on refrigerant management</td>
<td>• Conduct cross-campus procedure review.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Conduct bi-annual reporting to monitor leaks and prioritize equipment replacement, as needed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Update design guidelines so new equipment purchases comply with intent of Kigali Accord.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electricity</th>
<th>Ongoing</th>
<th>Planned</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Monitor natural gas use on a monthly basis using utility bills.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Use conservation tools and management strategies outline in our Energy Management Plan.</td>
<td></td>
</tr>
</tbody>
</table>
| **Planned** |  | **Develop energy and water dashboards for all sub-metered data and increase use of this tool for real-time energy management.**  
**Develop an energy management plan for Kennesaw campus.**  
**Develop Operational Standards for both campuses.**  
**Conduct educational outreach activities to drive behavioral change.** |
| **Commut** |  | **Recent changes to permits incentivizes students, staff, and faculty to pick an alternative commute. Continue to evaluate fee structure options.**  
**Continue to evaluate routes and modify to serve on-campus and off-campus users.** |
| **Planned** |  | **Increase promotion of public transit options, including the planned 10X route.**  
**Increase promotion of telework and compressed work week options.** |
| **Travel** |  | **N/A** |
| **Planned** |  | **Explore options for students to purchase carbon offsets as part of study abroad program on a voluntary basis.** |
| **Waste** |  | **Offer single-stream recycling throughout campus.**  
**Host recycling for special events, such as cardboard-recycling at move-in, swap shop at move-out, and pumpkin launch.** |
| **Planned** |  | **Implement recycling education program at student, staff and faculty level.**  
**Install recycle across America standardized recycling labels on the Marietta campus under a pilot program and measure impact.** |
| **Compost** |  | **Collect food waste from dining services, convert to comports, and return to Hickory Grove Farm in closed-loop system.**  
**Collect green waste and send to Hickory Grove Farm.** |
| **Wastewater** |  | **N/A** |
| **Planned** |  | **Develop energy and water dashboards for all sub-metered data and increase use of this tool for real-time water management.**  
**Measure impact of Net Blue program for new construction.** |
| **Office Paper** |  | **N/A** |
| **Planned** |  | **Work with UITS and RICOH to make double-sided printing standard.**  
**Work with procurement to promote purchases of recycled paper.** |
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