University of Pittsburgh

Department of Civil and Environmental Engineering

FINAL REPORT

Greenhouse Gas Inventory of University of Pittsburgh

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Ву

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Preface

This report presents the greenhouse gas inventory results for University of Pittsburgh (UPitt).

The authors acknowledge the contribution of Laura Zullo from Facilities Management Department of UPitt, who provided valuable data that allowed us to complete the inventory. In addition, we sincerely thank all other UPitt staff members who provided us data and shared important information regarding their sustainable practices. Financial support for the project was provided by Mascaro Center for Sustainable Innovation (MCSI). We are grateful for their support.

Executive Summary

The objective of this report is to assess the Greenhouse Gas (GHG) Inventory for the Pittsburgh Campus of University of Pittsburgh (UPitt). The report presents a GHG emissions inventory from direct or indirect activities of UPitt. We anticipate that the report will serve as a guideline for any committee or group aiming to reduce the emissions of UPitt in the future. Understanding current GHG levels is a necessary step towards developing policies and strategies to lower GHGs.

For this benchmark study, fiscal year 2008 was chosen as the temporal boundary in order to be able to observe the impact of switching to the new Carrillo St. steam production plant that has ultra-low NO_x control technology, the lowest to be used by any higher educational institute in the U.S. [1].

A vast majority of emissions were from purchased electricity and steam. These two categories are responsible for 71% of total emissions. Directly financed air travel follows as the next category having the highest percentage of GHG emissions. Global warming contribution of each category is given as a percent of total emissions in Figure 1.

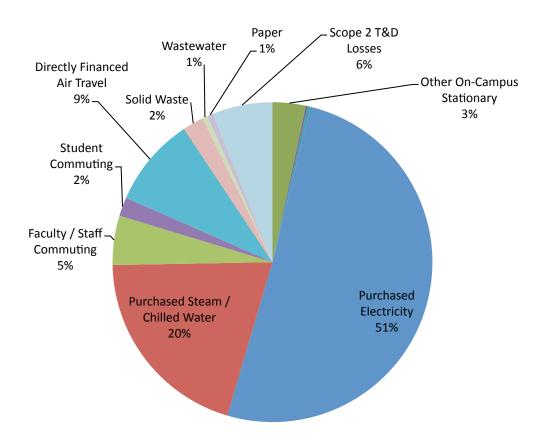


Figure 1. Detailed distribution of Greenhouse Gas Emission Results

Different operational boundaries may be chosen for the GHG inventory of a campus. Having different options restrains accurate comparison of results among different schools. Emission results obtained through using four different operational boundaries are presented in Table 1.

Table 1. Summary of Greenhouse Gas Emissions for University of Pittsburgh for Fiscal Year 2008

| Category | Metric ton CO ₂ E |
|---|------------------------------|
| Purchased Electricity | 138,700 |
| Purchased Steam | 55,100 |
| Directly Financed Air Travel | 24,800 |
| Steam Transmission Losses | 16,600 |
| Faculty / Staff Commuting | 13,600 |
| Natural Gas | 9,200 |
| Solid Waste | 5,700 |
| Student Commuting | 5,200 |
| Paper | 1,600 |
| Wastewater | 1,500 |
| Refrigerants | 800 |
| University Fleet | 500 |
| Total Emissions | 273,400 |
| Reporting Metric | |
| Required reporting (Scope 1 and 2) | 204,200 |
| Scopes 1 and 2, Air Travel, Solid Waste Management | 234,700 |
| Scopes 1 and 2, Transportation and Solid Waste Management | 253,600 |
| All Accountable Emissions | 273,400 |

1. Introduction

Universities have the knowledge that is necessary to create a sustainable environment at their campuses. Increasing number of student communities, and increased enrollment in the sustainability field illustrate the increasing attention directed towards sustainability. Higher education institutions are often responsible for teaching and conducting research on environmental issues such as climate change. Educational institutions have the opportunity to lead society towards the solution of this global problem, which is a common threat for humans regardless of country and location.

This report stems from this understanding and aims to quantify and therefore facilitate strategies that will eventually reduce campus emissions. GHG inventory is a first step towards effective reduction policies since one main purpose of the inventory is to identify hotspots among different sources.

There are three stages to the GHG inventory process: data collection; GHG emissions calculation; and data analysis for climate action planning [2-3].

- Step one: Data Collection many items of raw data are required to conduct a GHG inventory, such as purchased electricity, transportation, solid waste, refrigerants, offsets, etc.
- Step two: Emissions Calculations collected data is then processed as input into a calculator tool. The American College and University Presidents' Climate Commitment (ACUPCC) recommends the use of Clean Air Cool Planet Campus Carbon Calculator (CA-CP calculator). The CA-CP calculator is an Excel-based spreadsheet that uses national inventories and methodologies of the Intergovernmental Panel on Climate Change (IPCC) and calculators of the Greenhouse Gas Protocol, and has been adapted for use with higher education institutions. The CA-CP calculator covers all emission sources with the defined scopes of the ACUPCC.
- Step three: Data Analysis the calculator converts all emissions into CO₂ equivalent terms in order to compare GHG sources and identify hotspots within the institution. These areas then form the greatest opportunities for emission reductions.

The report begins by introducing the CA-CP calculator, and then boundaries are defined. Results are presented under each category together with the various assumptions made during calculations. Discussion of results and recommendations for updating this report in the future are presented. The last chapter of the report is the conclusions section.

2. Clean Air-Cool Planet Campus Carbon Calculator

The CA-CP calculator is a widely used tool to calculate GHGs, and is specifically designed for schools. Currently, it is used by over 500 schools in North America [4].

The tool is an Excel spreadsheet designed to facilitate data collection and analysis. This first step forms the basis for institutional action on reducing greenhouse gas emissions. Although the primary purpose of the tool is to conduct a greenhouse gas inventory, the tool can be used to facilitate other tasks also. If data regarding carbon reduction projects are available, such as the amount of reduction expected for a certain commodity, the tool can be used to estimate future GHG emissions taking into account "business as usual" emissions and reductions from potential projects.

The calculator uses standard methodologies and emission factors given by the GHG Protocol Initiative, and is a preferred tool by the ACUPCC [4]. CA-CP calculator version 6.4 tool was used in this project.

3. Boundaries of the Inventory

Three boundaries exist for calculating the campus GHG emissions: organizational, operational, and temporal.

3.1. Organizational Boundaries

Organizational boundaries are generally the highest-level of the three boundaries, and therefore the first boundaries that are drawn during the creation of the GHG inventory. Organizational boundaries state whether GHG emissions are measured for one department, school, or for the entire campus. Depending on this boundary, the facilities and buildings that are to be included into the analysis are determined. For this study, UPitt's Oakland Campus was selected as the organizational boundary. Buildings managed and used by University of Pittsburgh Medical Center (UPMC) were excluded, as well as other regional campuses that belong to UPitt.

Within this organizational boundary, buildings owned and managed by UPitt at the Oakland Campus consisted of 78 buildings and had a gross building area of 9.4 million ft². During the study period, 24,755 full—time equivalent (FTE) students were enrolled at UPitt. Undergraduate student housings near the campus were included into the analysis. However, housing buildings owned by UPitt but are outside campus boundaries were not included in this analysis since each tenant is directly billed by utility companies in these buildings.

3.2. Operational Boundaries

The operational boundaries identify sources to include in the inventory. The GHG protocol uses "scopes", in which all emissions are categorized into three scopes [4-5].

Direct emissions from sources that are owned and controlled by UPitt fall under scope 1. Emissions coming from university fleet vehicles and refrigerants are also examples of scope 1 emissions.

Scope 2 emissions are indirect emissions from sources that are neither owned nor operated by UPitt, but whose products are linked to campus energy consumption. Purchased electricity and steam are examples of scope 2 emission sources.

Scope 3 emissions are other sources that are neither owned nor operated by UPitt but are either directly financed (i.e. commercial air travel paid by UPitt, waste removal) or are otherwise linked to the campus via influence or encouragement (i.e. air travel for study abroad programs, daily faculty, staff, and

student commuting). Emissions associated with paper consumption and landscaping activities are also included in this field.

Emissions that fall under Scopes 1 and 2 are mandatory and must be included in the inventory by the GHG protocol. Although Scope 3 emissions are deemed optional by the GHG protocol, researchers are encouraged to include as many emission sources as possible to obtain a realistic inventory for the institution.

3.3. Temporal Boundaries

The final boundary is the temporal boundary. The calculator uses fiscal years instead of calendar years since most schools use fiscal years to report results. Fiscal years typically begin on July $\mathbf{1}^{st}$ and end on June $\mathbf{30}^{th}$.

For this study, fiscal year 2008 was used to develop a year one benchmark and observe the potential impact from the new Carrillo St. steam plant. The new steam plant uses natural gas instead of coal and has ultra-low NO_x control technology. Future GHG inventory studies can observe the impact of this decision on total GHG emissions of UPitt.

4. Emissions

The context of each emission source, results obtained, and assumptions made during calculations are detailed under each section below. Table 3 summarizes all of the information. However, individual data points input into the CA-CP calculator are also provided at the end of each subsection.

4.1. Scope 1 Emissions

Scope 1 emissions cover sources that are managed by UPitt and so are directly under its responsibility.

4.1.1. Stationary combustion

On-campus stationary sources at UPitt include combustion of natural gas used for heating air and water in some buildings. However, close to 80% of steam is purchased from a nearby steam plant and distributed via pipes, and therefore on-campus combustion levels are relatively low, at 9,162 metric ton CO_2 equivalent (MT CO_2E). Small amounts of natural gas used in laboratories and backup generators are also included in this value.

Conversion factors required to convert the amount of natural gas into energy units were obtained from EPA's Energystar website [6]. Carbon emission factors already input into the calculator, which are in accordance with the GHG protocol were used to estimate CO₂ equivalence of results.

• Stationary combustion: 173,169 MMBtu for natural gas

4.1.2. University Fleet

Another source of scope 1 emissions is the University Fleet. Emissions from the *production* of vehicles are neglected in the calculator since the majority of emissions over the life cycle of a vehicle are created

during its use phase, from combustion of fossil fuels. Gallons of fuel consumed over the period of study, separated according to type of fuel are required to estimate emissions.

UPitt has a policy to use biodiesel instead of regular diesel for vehicles that run on diesel. Unlike regular diesel derived from crude oil, biodiesel is made from animal fat and plant oils. CO_2 emitted during biodiesel combustion is theoretically offset by the carbon sequestered during the life of the fuel source, such as soybean or vegetable matter from which the biodiesel was derived. Biodiesel can be mixed with petroleum diesel to create different blends suitable for different vehicle engines and performance. A mix of 5% biodiesel and 95% petroleum diesel is labeled as a B5 mix, whereas pure biodiesel is labeled as B100 [7]. Although different grades of biodiesel are currently available in the market, only two biodiesel mixtures exist in Pittsburgh, B5 or B100 [8]. B5 type of blend was assumed to be used for the University Fleet since higher grades of biodiesel might cause performance problems especially during winter months. The difference in CO_2 emission factors for these two blends is less than 0.1%.

Based on data obtained from UPitt's Transportation Services, fuel consumption quantities were determined. Accordingly, 42,300 gallons of gasoline and 11,220 gallons of biodiesel of B5 blend were consumed. By using conversion factors, these values are converted into a total of 485 MT CO₂E.

Two assumptions were made related to data availability. Retrospective vehicles lists were not available; therefore, the first assumption was that the University Fleet size in December 2009 was the same as in June 2008. Out of 254 registered vehicles in December 2009, 51 belonged to other regional campuses and were excluded from the total. Of the remaining 203 vehicles, some were purchased after the study period of fiscal year 2008. However, there are two impediments to excluding those vehicles from the current list. First, although it would be easy to remove vehicles purchased during 2009 and 2010, the same is not true for vehicles purchased during 2008, since month of purchase is not specified in the list, and fiscal year ends at the end of June. Second, the list does not contain information about vehicles that were sold during this period. If new vehicles were purchased as replacements, then removing new vehicles from the list has the potential to decrease the University Fleet size and result in underestimation of actual fuel consumption. Therefore, the current list was used in this study assuming that the number of vehicles remained constant over the duration. This assumption could potentially overestimate actual emissions coming from University Fleet, although not at a level to cause significant changes in the end results.

The second assumption was related to fuel tracking systems as UPitt uses two separate systems to track fuel consumption, namely Voyager and Guttman Oil Fuel Tracking Systems. Close to 80% of Fleet vehicles are tracked via Voyager. However, data for fiscal year 2008 could not be found for Voyager, and fuel consumption was approximated from year 2009.

With respect to Guttman Oil, weekly fuel consumption reports for the entire fleet was obtained covering the period from October 2007 until June 2008. UPitt started to use Guttman Oil in October 2007 and previous data was not available. Therefore, although this data belongs to fiscal 08, it is not a full year of data. Results were increased by a third to account for the previous three months.

• wiversity fleet: 42,300 gallons of gasoline and 11,220 gallons of biodiesel of B5 blend

4.1.3. Refrigerants

Hydrofluorocarbons (HFCs) and perfluorocarbons (PFCs) are greenhouse gases that are often used for refrigeration and are accounted under Scope 1 emissions [4]. Under ideal conditions, these gases are used in a closed loop system and do not contribute to GHG once they are input into the system. However, leaks in the system result in fugitive emissions and are included in the GHG inventory since some of these refrigerants have high global warming potentials (GWP). The amount of fugitive emissions is assumed to be equal to the amount of refrigerants needed to recharge the systems during maintenance activities. Table 2 below presents the type and amount of refrigerant used at UPitt together with the GWP of each refrigerant. The total GHG potential from refrigerants was 800 MT CO₂E.

| Refrigerant Type | GWP for 100 years | Source | Amount Used (lb) |
|------------------|-------------------|--------|------------------|
| R12 | 10,890 | [9] | 20 |
| R123 | 77 | [10] | 400 |
| R134a | 1,300 | [11] | 41 |
| R22 | 1,700 | [12] | 657 |
| R404a | 3,900 | [13] | 1 |
| R414 | 1,450 | [14] | 19 |
| R500 | 8,100 | [13] | 3 |
| R503 | 15,000 | [13] | 1 |

Table 2. Fugitive Emissions for Fiscal Year 2008

 Refrigerants: Individual amounts given in Table 2 were input into the CA-CP calculator. GWP coefficients were also modified accordingly.

4.1.4. Agricultural activities

Since there are no herding animals at the Pittsburgh Campus, GHGs from animals were assumed to be zero. An agricultural activity which has potential GHG emissions is the use of fertilizers for landscaping activities, which is accounted under Scope 1 emissions. Synthetic fertilizers are used around the campus for landscaping. Synthetic fertilizers are labeled with their chemical makeup using three numbers to represent the percentages of nitrogen (N), phosphorus (P), and potassium (K). Therefore, a fertilizer having the numbers 10-15-20 would possess a nitrogen content of 10%, phosphorus content of 15%, and potassium content of 20%. Fertilizers contribute towards GHG emissions when a portion of their nitrogen content volatizes and forms the compound N₂O.

Different commercial fertilizers have different nitrogen percentages. A weighted average was calculated based on the amount of fertilizer used and its specific nitrogen content. The resulting average was approximately 475 pounds of fertilizer having an average nitrogen content of 13%. By using the emission factors present in the CA-CP calculator, $0.3 \text{ MT CO}_2\text{E}$ was obtained for GHG emissions from fertilizers.

Fertilizers: 475 pounds with average nitrogen content of 13%

4.2. Scope 2 Emissions

Scope 2 emission sources cover purchased electricity and steam that are vital for the activities of UPitt. These two items usually make up the majority of emissions of any institution.

4.2.1. Purchased Electricity and Steam

Purchased electricity and steam are a part of scope 2 emissions of the GHG inventory. Electricity consumption was 198 million kWh for this study period.

The CO_2 emissions from purchased electricity were calculated using the emission factors present in the CA-CP calculator. The primary source is from U.S. EPA's E-GRID program [15]. E-GRID has fuel mix information both on a state level, and on a sub-region level based on fuel mix. UPitt is located in the RFC West power pool (RFCW) (Figure 2) with the majority of electricity generated from coal as presented in (Figure 3). The given regional fuel mix and emissions factors were used to convert electricity consumption into MT CO_2 E emissions. The results yield 138,700 MT CO_2 E for electricity consumption.

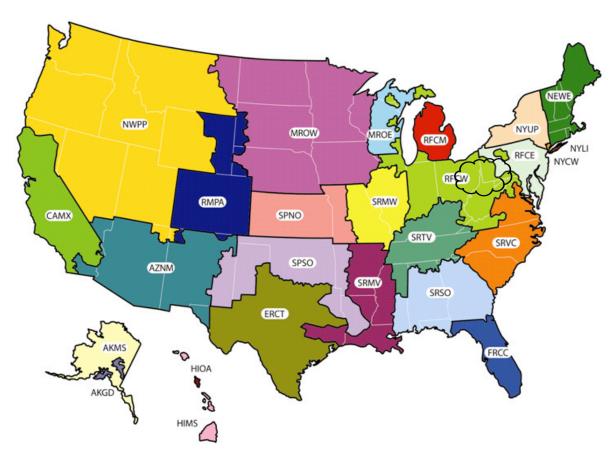


Figure 2. Sub-regions as defined by e-GRID [15]

2005 eGRID Subregion Resource Mix (RFCW)

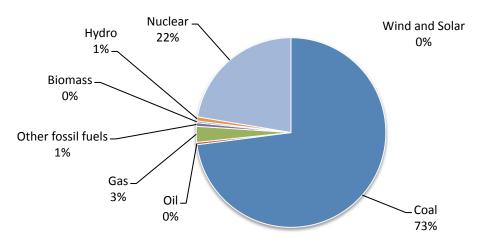


Figure 3. Fuel Mix of Electricity Consumed by University of Pittsburgh [15]

Imported steam is a common energy source for campuses in cities with centralized steam production [4]. The amount of steam used by individual buildings was obtained from UPitt's Facilities Management Department. The amount of steam was recorded in pounds and converted to energy units [6]. The total steam consumption was calculated to be 636,000 million British thermal units (MMBtu). By default, the CA-CP calculator assumes a fuel mix of 50% natural gas and 50% distillate oil for steam production. However, until July 2009, Bellefield Boiler Plant used both coal and natural gas to produce steam, and so distillate oil has been replaced with coal for the fuel mix used to produce steam, given in the CA-CP calculator. By using the exact fuel mix of the boiler plant obtained for the study period, total GHG emissions were found to be 55,100 MT CO₂E.

Purchased electricity: 198,000,000 kWh

Purchased steam: 636,000 MMBtu

4.3. Scope 3 Emissions

Sources that emit GHGs but that are indirectly related to UPitt are covered under scope 3. For example, UPitt contracts solid waste management, but emissions coming solid waste are the responsibility of UPitt. Another example is directly financed air travel.

4.3.1. Directly Financed Outsourced Travel

UPitt finances different modes of transportation for its operations which include air travel, rental car, bus, and personal mileage reimbursement. The different modes of financed travel are recorded as a single entry into the reimbursement statement that also includes items such as hotels, per diem, and meals. UPitt's current accounting system does not permit an analysis of total travel distances.

Cost information was obtained from UPitt's Transportation Services regarding the amount spent towards air travel by faculty, staff and the Athletic Department. For outsourced bus transportation, total distance travelled was given to be 440,000 miles.

Air travel data was only available in monetary values and therefore had to be converted into miles traveled before inputting into the CA-CP calculator. Association for the Advancement of Sustainability in Higher Education (AASHE) proposes to use guidelines given by the Air Transport Association (ATA) for air travel [16-17]. ATA has historical records of nominal air travel prices given in passenger miles. For 2008, the nominal price was 13.75 cents per passenger mile. However, in order to include taxes and certain fees, AASHE advises to increase unit costs by 20%, resulting in 16.5 cents per passenger mile. The use of this coefficient yields close to 32 million miles of air travel at UPitt, which includes financed travel for faculty, staff, and the Athletic Department.

Based on the data available, financed air travel emits 24,800 MT CO_2E and bus transportation emits 110 MT CO_2E .

Directly financed air travel: 32,000,000 air miles

• Other directly financed travel: 440,000 miles

4.3.2. Commuter travel

There are several important factors that influence commuter habits of UPitt population. Subsidized and accessible public transportation, combined with the proximity of neighborhoods, which the students prefer to reside, present an advantageous situation for reducing campus emissions from commuting.

Currently there are 4,437 parking spaces within UPitt parking lots, 165 metered parking spaces allocated for public use, totaling 4,600 parking spaces at UPitt Oakland campus. In addition, UPitt currently has 3,084 parking permits issued to faculty and staff. Remaining parking spaces are allocated for daily parking.

There are currently 1,000 bike racks distributed around the campus. During warmer months, these racks are typically full, implying that 1,000 students bike to school when weather conditions permit. However, use of bike racks decreases during winter months, which forms the majority of the school year. In order to include this in the analysis, it was assumed that 30% of bike racks overall are used throughout the year.

Residence hall capacity in Oakland is 7,200 students. In addition, there are many student housing options in South Oakland. All of these students are assumed to walk to UPitt accounting for approximately 35% of student population.

Although their numbers are low, some students drive to campus. Detailed information regarding the number of substance which makes close to 1,250 students.

The remaining portion of students was assumed to use bus transportation to commute to the campus, which makes 60% of the total student population. Due to an agreement between UPitt and Port Authority of Pittsburgh, students ride buses without charge, which is a strong incentive aimed at increasing ridership.

Excluding faculty working for UPMC, Pitt had 2,154 faculty during fiscal year 2008. The vast majority of faculty is assumed to prefer to drive to work. The ratio of driving to work was assumed to b Faculty faculty. The commute to work was neglected.

Carpooling data did not distinguish between faculty and staff, therefore, all carpooling personnel were assumed to be staff rather than faculty. This assumption is further supported by the fact that working hours of staff are more consistent allowing for carpooling. Faculty hours tend to be irregular. Number of participants for carpooling was 384. Combined with 65 people using vanpooling, the total number of shared ridership is close to 450, corresponding to less than 10% of UPitt staff.

Staff not commuting via carpooling is assumed to be equally divided among car and bus transportation. Similar to students and faculty, Pitt staff can ride buses without charge. This incentive together with regular work hours is assumed to result in higher ratio of bus transportation of staff compared to faculty. Data regarding actual bus usage of UPitt personnel and students was not available. Therefore, estimates were used for bus transportation. UPitt is currently in a transition to replace existing ids to allow for more data collection in the future.

In order to calculate emissions, distance travelled were input into the CA-CP calculator. For students not living at residence halls in Oakland or nearby neighborhoods, the average commuting distance was assumed to be 4 miles each way for driving and bus transportation. The area within 4 mile radius of Oakland includes several neighborhoods students prefer to reside such as Shadyside, Squirrel Hill, Greenfield, and several neighborhoods to the west of Oakland including half of Downtown.

avg distance commute faculty

as compared to av

miles for students, to increase the number of neighborhoods. The distance of 12.5 miles is the calculated weighted average distance for faculty and staff that drive to work and have parking permits.

Another input required to calculate emissions was the number of days students commuted, which can be assumed to be equal to the number of weeks they have classes. Majority of students attend school for Fall and Spring semesters. Attendance drops significantly during Summer semester. Excluding all holidays and break periods, students have 30 weeks of class period. They are assumed to commute to school for this period only.

For faculty and staff, 47 working weeks in a calendar year were assumed. Due to winter recess and other observed holidays, UPitt is closed approximately 3 weeks for faculty and staff. Assuming a 2 week paid vacation time, the number of working weeks in a year becomes 47.

 Commuting: 25,357,793 miles for personal vehicles and 13,316,745 miles for bus transportation for faculty and staff. For students, 1,485,270 miles for personal vehicles and 18,031,178 miles for bus transportation.

4.3.3. Waste

Solid waste is managed by Republic Waste Services and is landfilled without methane recovery or electricity generation. Landfills release methane and CO₂ emissions as organic waste decomposes. However, the CO₂ emissions are not included in the inventory since same, or even greater amounts of CO₂ would have emitted to the atmosphere under normal aerobic decomposition, as part of the natural life cycle of the biomass [7, 18]. Therefore, only methane emissions occurring at landfills need to be accounted for the inventory.

During fiscal year 2008, 5,246 tons of solid waste was generated by UPitt. The CA-CP calculator yields 5,688 MT CO_2E due to methane released from landfills.

Solid waste: 5,246 short tons of solid waste with no CH₄ recovery

4.3.4. Wastewater

Based on data from UPitt's Facilities Management, wastewater was assumed to be equal to the amount of water consumed in almost all campus buildings. It is not clear whether there is a possibility to measure the actual contribution of UPitt to the municipal sewage stream. This problem has been stated by other researchers as well, but a solution to the problem could not be found. Even if the assumption made here is an overestimation of the actual situation, it results in 1,466 MT CO₂E from wastewater, which does not have a significant impact when compared to total emissions of UPitt.

Wastewater: 278,350,000 gallons to the septic system

4.3.5. Paper

Paper is vital for almost any type of business establishment. It is perhaps more important for educational facilities where printed material in great quantities are consumed daily. Therefore, capturing this potentially significant emission source was another objective of the study, although not mandatory based on ACUPCC guidelines. Information regarding the quantity of purchased regular and recycled paper was obtained through the Budget Department. Based on this data, 13% of purchased paper includes some grade of post-consumer waste, of which 85% includes 30% post consumer waste. GHG emissions from paper consumption is 1,626 MT CO₂E.

• Paper: 1,113,742 lb of 0% recycled, 15,900 lb of 10% recycled, 5,463 lb of 20% recycled, 140,465 lb of 30% recycled, and 2,155 lb of 100% recycled paper use was input into CA-CP calculator.

5. Discussion of Results

GHG emissions of UPitt for fiscal year 2008 amounted to 267,518 MT CO₂E. The percentage result distribution is presented in Figure 4, followed by detailed information in Table 3.

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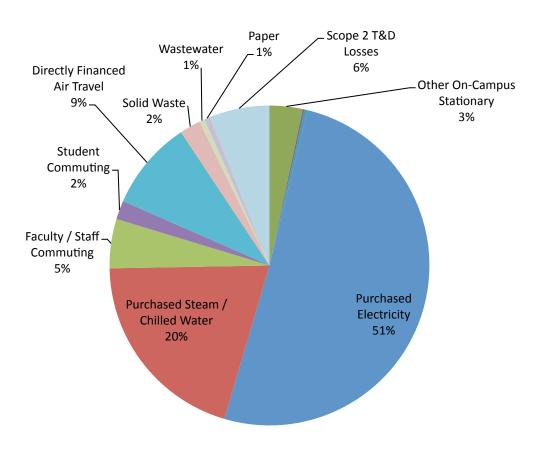


Figure 4. Detailed Distribution of UPitt's FY2008 GHG Emission Results

Table 3. Summary of UPitt's GHG Emissions for Fiscal Year 2008

| | 2008 | Energy Consumption | CO ₂ | CH₄ | N ₂ O | CO ₂ E |
|---------|------------------------------|-----------------------|-----------------|---------|------------------|-------------------|
| | | | | | | Metric |
| | | MMBtu | kg | kg | kg | Tonnes |
| Scope 1 | Co-gen Electricity | - | - | - | - | - |
| | Co-gen Steam | - | - | - | - | - |
| | Other On-Campus | | | | | |
| | Stationary | 173,169 | 9,135,679 | 913 | 18 | 9,200 |
| | Direct Transportation | 6,794 | 474,287 | 80 | 28 | 500 |
| | Refrigerants & Chemicals | - | - | - | - | 800 |
| | Agriculture | - | - | - | 1 | 0 |
| Scope 2 | Purchased Electricity | 1,516,172 | 138,141,644 | 961 | 1,824 | 138,700 |
| | Purchased Steam / Chilled | | | | | |
| | Water | 762,771 | 49,293,289 | 5,173 | 402 | 55,100 |
| Scope 3 | Faculty / Staff Commuting | 188,794 | 13,342,553 | 2,189 | 774 | 13,600 |
| | Student Commuting | 71,069 | 5,124,457 | 375 | 157 | 5,200 |
| | Directly Financed Air Travel | 125,950 | 24,728,701 | 244 | 280 | 24,800 |
| | Other Directly Financed | | | | | |
| | Travel | 1,533 | 110,924 | 6 | 3 | 100 |
| | Study Abroad Air Travel | - | - | - | - | - |
| | Solid Waste | - | 1 | 247,311 | - | 5,700 |
| | Wastewater | - | ı | 58,454 | 412 | 1,500 |
| | Paper | - | ı | • | - | 1,600 |
| | Scope 2 T&D Losses | 190,097 | 16,256,744 | 367 | 202 | 16,600 |
| Offsets | Additional | | | | | - |
| | Non-Additional | | | | | - |
| Totals | Scope 1 | 179,963 | 9,609,966 | 993 | 47 | 10,400 |
| | Scope 2 | 2,278,943 | 187,434,933 | 6,134 | 2,226 | 193,800 |
| | Scope 3 | 577,443 | 59,563,379 | 308,945 | 1,827 | 69,100 |
| | All Scopes | 3,036,349 | 256,608,278 | 316,073 | 4,101 | 273,400 |
| | All Offsets | | | | | _ |
| | | | | | Net | |
| | | | | | Emissi | |
| | | | | | ons: | 273,400 |

The scoped approach, as defined previously, categorizes emission sources based on level of responsibility but does not dictate the boundaries to be used for emissions reporting. The final decision is left to the discretion of the institution. Nevertheless, some guidelines by the GHG Protocol Initiative and the ACUPCC exist to ensure that reported results are compatible with each other. Proposed boundaries are as follows [4]:

• All Scope 1 and scope 2 emission sources: Scope 1 and 2 are minimum levels for reporting emissions. The World Resources Institute (WRI) Corporate Accounting and Reporting Standard

require reporting of all Scope 1 and Scope 2 emissions, but considers scope 3 emissions optional. ACUPCC on the other hand requires scope 1 and scope 2 emissions, as well as scope 3 categories of commuting and directly financed air travel.

- All directly financed emissions: This boundary includes Scope 1 and Scope 2 emissions as well as directly financed Scope 3 emissions such as air travel and solid waste management.
- All directly financed emissions, and selected directly encouraged emissions: In addition to the previous boundary, this boundary includes Scope 3 emissions that are encouraged, but not necessarily financed. A policy in effect that requires students to study abroad for a certain period of time would indirectly require them to use air transportation, although they might not be reimbursed for the trip. Another category to consider would be the daily commuting of students, faculty and staff, especially in locations with few public transportation options.
- All directly financed or significantly encouraged emissions as well as selected upstream emissions: This would be the largest boundary for reporting campus GHG emissions. In addition to the previous boundary, certain Scope 3 emissions are also included, mainly for allocating reductions to these sources. For example, if a policy to decrease paper consumption is in effect, then paper category could be included in the inventory to observe the impact of paper reduction policy.

Selection of a study boundary is vital for a GHG inventory study. Selection of a limited boundary would result in the exclusion of some important emission sources and result in an underestimation of the actual emissions from the institution. On the other hand, developing an inventory for all actual emissions requires significant amounts of time and resource; further, data is often not available. The impact of selection of any one of the above four boundaries is demonstrated in Table 4 below. Emission results for UPitt increased by 35% from selecting the most limited boundary to the most extended boundary. Reporting emissions by any one of these defined boundaries are allowed. This fact should be recognized during comparison of results with respect to other institutions, since different studies use different boundaries which directly affect end results.

For comparing results found here with other institutions of higher education, metrics were defined such as using scope 1 and 2 sources only, including air travel and solid waste management in addition to scopes 1 and 2, including all transportation activities and solid waste management in addition to scopes 1 and 2, and finally all accountable emission sources, as shown in Table 4. Comparing schools based on their net emissions only, results in misleading conclusions since every school has different student enrollment numbers as well as different number of buildings to continue their educational and research activities. For a logical comparison, emission results are usually converted into one of the metrics given below. If institutional data such as student numbers and gross building area are input into the CA-CP calculator, such conversions are done automatically and presented together with results in the spreadsheet.

Table 4. GHG Emission Results for University of Pittsburgh Reported Using Different Metrics to Facilitate Comparison with respect to Other Institutions, FY2008

| Metrics | Scope 1 and Scope 2 | Scopes 1 and 2, Air Travel, Solid Waste Management | Scopes 1 and 2, Transportation and Solid Waste Management | All Accountable Emissions |
|--|---------------------------|--|---|---------------------------------|
| Operating Budget, g CO ₂ E / \$ | 139.3 | 160.2 | 173.1 | 186.5 |
| Students, MT CO ₂ E/ FTE student | 8.3 | 9.5 | 10.2 | 11.0 |
| Community Members, MT CO ₂ E / Person | 6.5 | 7.4 | 8.0 | 8.7 |
| Building Space, MT CO ₂ E / 1000 ft ² | 21.7 | 25.0 | 27.0 | 29.1 |

5.1. Comparison of Results with Respect to Other Institutions

Numerous sources and GHG Inventory reports published by other higher education institutions were reviewed in order to determine UPitt's performance when ranked according to greenhouse gas emissions. Due to the number of institutions involved, the full list is provided in Appendix B and is sorted according to different categories. Table 5 below shows UPitt's performance among a group of peer institutions commonly used for benchmarking purposes. As was discussed previously, selection of an extended operational boundary for UPitt increases emissions by close to one third when compared to reporting only mandatory emission sources. Both results are provided in Table 5.

Table 5. Comparative Results of Higher Education Institutions used for Peer Group Benchmarking,
Sorted According to Net Emissions [19-22]

| Institution | Year of Study | Net emissions, MT CO₂E | MT CO₂E/FTE student | MT CO₂E/1000 ft ² |
|--|------------------|------------------------------|---------------------------|------------------------------------|
| SUNY - Buffalo | 2007 | 145,152 | 5.2 | 14.2 |
| University of Delaware | 2009 | 152,542 | 8.7 | 29.1 |
| Carnegie Mellon University | 2007 | 163,680 | 18.2* | 34.6 |
| University of Pittsburgh – mandatory sources only | 2008 | 204,200 | 8.3 | 21.7 |
| Temple University | 2009 | 227,993 | 7.6 | 24.9 |
| University of Pittsburgh – all accountable sources | 2008 | 273,400 | 11 | 29.1 |
| Rutgers University | 2008 | 309,060 | 9.4* | 16.7 |
| University of Maryland - College Park | 2007 | 351,144 | 10.8 | 27.7 |
| Pennsylvania State University | 2008 | 455,069 | 10.5* | 22.5 |
| The Ohio State University | 2009 | 661,037 | 12.3 | 29.3 |

^{*} Number of full time students only was used instead of number of full time equivalent students

6. Recommendations for Future GHG Inventory Studies

Several assumptions were required during this study in order to include as many emission sources as possible. However, some of these assumptions may have resulted in overestimation of actual values. For the next inventory study, expected emission results combined with a detailed list of contacts and types of data required will greatly reduce the time and effort required to gather the necessary information. This information will allow researchers to allocate more time towards some of the assumptions made in this first GHG inventory report for UPitt, therefore, increasing the accuracy of emission results.

Besides necessary assumptions, some types of data could not be found retrospectively. The vehicles registered in the University fleet, for example, change continuously. The exact list for fiscal year 2008 together with the fuel consumption of those vehicles was not available. The next inventory conducted should be able to receive more accurate data, therefore, eliminating the assumptions.

The decision to select fiscal year 2008 was supported by the fact that a transition from the old steam plant to a new steam plant having ultra-low NOx control technology was planned. Emission levels were reported in this benchmark study before any significant reduction strategies were implemented. A decrease in emissions related to steam production is expected in the next GHG Inventory.

Purchased electricity is the largest source of emissions of UPitt, which makes more than half of the total amount. Pittsburgh is located in a coal dominant fuel mix region, inevitably impacting the total emissions of UPitt and resulting in higher emissions for all metrics when compared to some other states like Oregon where the use of renewable energy in the fuel mix is higher. For this study, fuel mix information given by EPA's E-Grid program was used. Future studies should determine the exact fuel mix of electricity used by UPitt. Cost benefit analysis of purchasing green power is also another area that is worth investigating, since this strategy can reduce total GHG emissions significantly. In addition, there is a limit to the amount of emission reductions that can take place by using the same fuel mix used to generate electricity.

Air travel data recording could be improved. Travel reimbursements made by UPitt, although they may contain different modes of transportation, is recorded in the same manner. Determining accurate travel data divided into categories (e.g. air travel, study abroad program, rented vehicles, etc.) requires the arduous task of reviewing and sorting thousands of entries which require significant amount of time and personnel. If such resources are available, it is advised to go through records to increase accuracy of results in the future. A policy change that separates entries based on mode of transportation would facilitate this process, but would require additional personnel to be employed by the Budget Department.

Since information on commuting preference of faculty and students were not available, rough estimates were required to calculate emissions. These assumptions could result in overestimation of emissions from commuting but this was the preferred approach to make sure that emissions were not underestimated. Future inventories could implement a campus-wide survey at the beginning of the study to learn about commuting behavior of students, faculty and staff. Preparation, data collection and interpretation of a survey require long periods of time. Therefore, surveys should be planned and executed from the beginning of a study.

7. Conclusions

GHG emissions of UPitt were quantified in this study. Emissions originating from different sources are reported in this report, along with operational boundaries and associated results. The difference between these boundaries was found to be significant. GHG emissions equal 8.3 MT CO₂E/FTE students if only Scope 1 and Scope 2 emissions are included, which is the minimum that can be reported. Instead, if all emission sources found throughout the study were used, this number increases to 11.0 MT CO₂E/FTE student.

When compared to other higher education institutions, UPitt ranks average with respect to GHG emissions per FTE student. This should be seen as an encouraging outcome. First of all, other schools have conducted multiple emission inventories in the past couple of years and therefore have identified their hotspots. Supported by this, most schools that are ranked higher on the list have implemented large-scale emissions reduction policies. Having conducted this benchmark study, it is expected that UPitt will also take measures that will effectively reduce emissions to desired levels in the following years.

Second, high emissions are also a result of where Pittsburgh is located, and the fuel mix used to generate electricity, which is related to UPitt through Scope 2 emissions. Coal is used to generate close to 70% of electricity in this region according to EPA data, unlike other areas where high percentages of renewable resources are used to generate electricity. Under these circumstances, a cost-benefit analysis should be conducted to examine green power purchasing to reduce emissions in the short term.

Acronyms

AASHE – Association for the Advancement of Sustainability in Higher Education

ACUPCC – American College and University Presidents Climate Commitment, http://www.presidentsclimatecommitment.org/

ATA – Air Transport Association

CA-CP - Clean Air-Cool Planet, http://www.cleanair-coolplanet.org/

CA-CP calculator – Clean Air-Cool Planet Campus Carbon Calculator

CO₂ – Carbon Dioxide

FTE - Full Time Equivalent

GHG - Greenhouse Gas

GWP – Global Warming Potential

IPCC – Intergovernmental Panel on Climate Change

MMBtu - Million British thermal unit

MT CO₂E – Metric ton of carbon dioxide equivalent

UPitt – University of Pittsburgh, Oakland Campus

WRI – World Resources Institute, http://www.wri.org/

Appendix A

Meetings with several UPitt staff were necessary in order to gather necessary data for the CA-CP calculator. Table 6 shows the list of contacts as well as data and information received from them.

Table 6. List of Contacts and Information Received

| Contact | Information Received |
|----------------|---|
| Laura Zullo | Building list |
| | Purchased electricity and steam |
| | Solid waste |
| | Wastewater |
| | Landscaping |
| | Refrigerants & chemicals |
| Keith Duval | Information on emissions reporting |
| Joe Fink | Introduction to contacts |
| Kevin Sheehy | Sustainable practices in the Transportation Dept. |
| Jan Thomas | Parking permits |
| | Carpool |
| Cindy Comer | University fleet |
| Vince Johns | Directly financed air travel |
| Kent McGaughey | Other directly financed travel |
| Art Ramicone | Budget |
| Maureen Beal | Paper consumption |
| | Computer purchases |
| Jim Earle | Sustainable practices in residence halls |
| Pat Heffley | Sustainable practices in residence halls |

Appendix B

Table 7. List of higher educational institutions that have reported their GHG emissions, ranked according to net emissions [19-27]

| Institution | Year | Net emissions, MT CO ₂ E | MT CO ₂ E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|------------------------------|---|
| Berea College | 2008 | -2,374 | -1.5 | -1.7 |
| College of the Atlantic | 2009 | 0 | 0.0 | 0.0 |
| University of Minnesota-Rochester | 2009 | 225 | 0.6 | 4.0 |
| Naropa University | 2009 | 509 | 0.5 | 3.3 |
| School for International Training | 2008 | 538 | 2.4 | 4.3 |
| The National Graduate School of Quality Management | 2009 | 605 | 2.6 | 27.3 |
| Bainbridge Graduate Institute | 2009 | 794 | 4.0 | 66.2 |
| Antioch University Los Angeles | 2008 | 815 | 1.2 | 18.9 |
| Unity College | 2008 | 841 | 1.6 | 5.6 |
| University of South Carolina Salkehatchie | 2009 | 918 | 1.7 | 8.1 |
| University of South Carolina Union | 2008 | 1,128 | 4.2 | 21.0 |
| Antioch University Seattle | 2008 | 1,368 | 2.3 | 26.2 |
| Goddard College | 2006 | 1,637 | 2.4 | 10.9 |
| College of Menominee Nation | 2007 | 2,060 | 4.1 | 19.2 |
| Labette Community College | 2009 | 2,095 | 2.5 | 17.9 |
| American Public University System | 2008 | 2,242 | 0.1 | 20.8 |
| University of South Carolina Sumter | 2009 | 2,251 | 2.6 | 9.6 |
| Wheelock College | 2008 | 2,274 | 2.6 | 6.5 |
| Boston Architectural College | 2009 | 2,352 | 1.6 | 23.2 |
| University of Houston - Victoria | 2008 | 2,358 | 3.1 | 14.9 |
| Durham Technical Community College | 2008 | 2,452 | 0.5 | 5.0 |
| New Mexico State University Grants Branch | 2009 | 2,461 | 3.9 | 20.5 |
| Carteret Community College | 2009 | 2,615 | 1.7 | 12.7 |
| Antioch University New England | 2008 | 2,651 | 2.7 | 31.2 |
| Warren Wilson College | 2007 | 2,758 | 3.3 | 4.1 |
| Penn State Berks | 2008 | 2,829 | 1.1 | 7.6 |
| Vermilion Community College | 2007 | 2,855 | 4.4 | 14.4 |
| University of Maine at Augusta | 2008 | 2,917 | 0.5 | 8.3 |
| Peninsula College | 2009 | 2,949 | 1.7 | 12.1 |
| Prescott College | 2008 | 2,978 | 3.0 | 29.5 |
| Washington State University, Vancouver | 2008 | 3,180 | 2.2 | 8.3 |
| Monterey Institute of International Studies | 2008 | 3,261 | 4.1 | 25.0 |
| Wilson College | 2008 | 3,418 | 4.5 | 6.2 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| University of Washington Tacoma | 2007 | 3,747 | 1.6 | 6.2 |
| Anna Maria College | 2009 | 3,756 | 3.6 | 15.5 |
| The New School | 2009 | 3,774 | 0.4 | 3.7 |
| Washington State University, Tri-Cities | 2008 | 3,817 | 5.7 | 14.7 |
| Pine Manor College | 2008 | 3,861 | 8.4 | 4.5 |
| Huston-Tillotson University | 2008 | 3,927 | 5.8 | 16.1 |
| Mount Wachusett Community College | 2010 | 3,995 | 0.8 | 4.4 |
| Northland College | 2009 | 4,017 | 7.2 | 9.3 |
| Marymount Manhattan College | 2010 | 4,093 | 2.3 | 12.0 |
| Los Angeles Southwest College | 2007 | 4,195 | 0.6 | 9.7 |
| Berkshire Community College | 2008 | 4,234 | 2.7 | 16.9 |
| Rosemont College | 2007 | 4,261 | 6.4 | 10.7 |
| University of South Carolina Beaufort | 2008 | 4,264 | 1.8 | 11.8 |
| The University of Montana - Western | 2008 | 4,265 | 3.9 | 11.7 |
| West Los Angeles College | 2007 | 4,302 | 0.5 | 9.0 |
| University of Maine at Machias | 2008 | 4,328 | 7.5 | 16.4 |
| Pitzer College | 2009 | 4,438 | 4.3 | 12.1 |
| Manchester Community College (CT) | 2007 | 4,463 | 0.6 | 10.9 |
| New Mexico State University at Alamogordo | 2007 | 4,525 | 1.6 | 23.9 |
| Cascadia Community College | 2009 | 4,550 | 2.3 | 14.8 |
| State University of New York Empire State College | 2009 | 4,693 | 0.5 | 14.7 |
| Los Angeles Harbor College | 2007 | 4,706 | 0.7 | 12.2 |
| Green Mountain College | 2009 | 4,826 | 6.4 | 11.7 |
| University of Washington Bothell | 2007 | 5,215 | 3.0 | 17.6 |
| Wells College | 2009 | 5,436 | 9.3 | 8.5 |
| University of Maine at Fort Kent | 2008 | 5,457 | 6.0 | 21.5 |
| Los Angeles Mission College | 2007 | 5,519 | 0.7 | 18.8 |
| Lasell College | 2009 | 5,680 | 3.9 | 12.6 |
| Coastline Community College | 2008 | 5,683 | 0.9 | 25.2 |
| Oregon Institute of Technology | 2008 | 5,732 | 2.4 | 9.3 |
| New Mexico State University at Carlsbad | 2008 | 5,815 | 7.6 | 40.9 |
| Tompkins Cortland Community College | 2010 | 5,933 | 4.0 | 15.7 |
| Loras College | 2010 | 5,987 | 4.0 | 6.0 |
| Southwestern College - Kansas | 2008 | 6,024 | 7.5 | 14.8 |
| Southern Oregon University | 2008 | 6,036 | 1.6 | 3.8 |
| Point Loma Nazarene University | 2008 | 6,074 | 2.6 | 7.5 |
| Seattle Pacific University | 2009 | 6,219 | 1.7 | 5.6 |
| Confederation College | 2009 | 6,366 | 1.6 | 9.0 |
| Mills College | 2008 | 6,368 | 4.5 | 6.5 |
| Bunker Hill Community College | 2007 | 6,531 | 4.4 | 14.9 |
| Harvey Mudd College | 2008 | 6,535 | 8.9 | 10.6 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---------------------------------------|------|--|-----------------|---|
| Los Angeles Valley College | 2007 | 6,553 | 0.5 | 10.2 |
| Connecticut College | 2008 | 6,612 | 3.9 | 4.6 |
| Hampshire College | 2007 | 6,621 | 4.9 | 8.3 |
| Keystone College | 2007 | 6,621 | 4.3 | 20.9 |
| Los Angeles Trade-Technical College | 2007 | 6,817 | 0.5 | 8.6 |
| Franklin Pierce University | 2007 | 6,826 | 4.0 | 10.4 |
| Haywood Community College | 2008 | 7,081 | 3.7 | 22.1 |
| Golden West College | 2008 | 7,195 | 0.6 | 12.6 |
| Wesleyan College | 2008 | 7,224 | 10.5 | 13.4 |
| Chatham University | 2007 | 7,246 | 6.0 | 10.0 |
| College of Saint Rose | 2008 | 7,264 | 1.4 | 8.8 |
| Iowa Lakes Community College | 2008 | 7,396 | 3.2 | 0.7 |
| Ursinus College | 2008 | 7,460 | 4.8 | 6.4 |
| Greenfield Community College | 2007 | 7,543 | 4.2 | 28.1 |
| Linfield College | 2007 | 7,774 | 4.5 | 7.9 |
| Colby-Sawyer College | 2009 | 7,804 | 7.8 | 13.4 |
| Pacific Lutheran University | 2008 | 7,856 | 2.2 | 6.0 |
| Manhattanville College | 2009 | 7,877 | 3.4 | 9.7 |
| LaGrange College | 2008 | 7,987 | 8.0 | 14.5 |
| Chaffey College | 2008 | 8,031 | 0.2 | 19.6 |
| Pasadena City College | 2010 | 8,291 | 0.4 | 7.9 |
| Wesley College | 2007 | 8,308 | 5.4 | 13.5 |
| Truckee Meadows Community College | 2009 | 8,337 | 1.2 | 13.2 |
| Emory & Henry College | 2009 | 8,489 | 8.7 | 14.4 |
| New College of Florida | 2008 | 8,489 | 11.1 | 14.4 |
| New England Institute of Technology | 2008 | 8,554 | 2.9 | 46.3 |
| Castleton State College | 2008 | 8,657 | 4.5 | 14.3 |
| Rio Salado College | 2010 | 8,678 | 0.7 | 32.9 |
| Franklin College of Indiana | 2008 | 8,691 | 8.6 | 17.5 |
| Massachusetts College of Liberal Arts | 2007 | 8,779 | 4.8 | 13.1 |
| Goucher College | 2009 | 8,822 | 4.7 | 9.9 |
| Georgian Court University | 2008 | 8,849 | 3.8 | 16.0 |
| SUNY Rockland Community College | 2008 | 8,958 | 3.7 | 12.8 |
| Mount Mercy College | 2008 | 8,988 | 7.5 | 21.7 |
| Las Positas College | 2009 | 9,076 | 1.4 | 32.4 |
| Emerson College | 2008 | 9,143 | 2.5 | 9.5 |
| Cabrillo College | 2008 | 9,332 | 0.8 | 19.9 |
| SUNY Orange | 2009 | 9,500 | 1.8 | 17.8 |
| Goshen College | 2009 | 9,508 | 10.7 | 12.0 |
| Maharishi University of Management | 2008 | 9,551 | 22.1 | 9.7 |
| Everett Community College | 2009 | 9,569 | 0.8 | 12.8 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| Bates College | 2007 | 9,621 | 5.8 | 6.3 |
| Aquinas College | 2009 | 9,760 | 5.5 | 15.0 |
| McLennan Community College | 2009 | 9,932 | 0.8 | 16.6 |
| Washington State University, Spokane | 2008 | 9,942 | 3.4 | 17.1 |
| Quinsigamond Community College | 2007 | 10,026 | 2.7 | 15.8 |
| Hiram College | 2009 | 10,067 | 10.3 | 12.7 |
| California State University-Bakersfield | 2009 | 10,127 | 1.5 | 10.1 |
| Massachusetts College of Art & Design | 2008 | 10,226 | 6.2 | 12.8 |
| Massachusetts Bay Community College | 2008 | 10,229 | 2.0 | 27.3 |
| Randolph College | 2008 | 10,276 | 15.6 | 14.7 |
| Central College | 2008 | 10,351 | 6.7 | 11.2 |
| Juniata College | 2008 | 10,372 | 7.1 | 11.8 |
| Northern Essex Community College | 2008 | 10,441 | 2.7 | 22.3 |
| Chandler-Gilbert Community College | 2008 | 10,446 | 1.9 | 23.7 |
| University of South Carolina Aiken | 2008 | 10,479 | 3.2 | 13.6 |
| Los Angeles Pierce College | 2007 | 10,571 | 0.7 | 16.3 |
| North Arkansas College | 2009 | 10,629 | 4.6 | 45.2 |
| Metropolitan State University | 2008 | 10,695 | 2.1 | 38.2 |
| Black Hills State University | 2008 | 10,698 | 3.6 | 14.6 |
| Holyoke Community College | 2008 | 10,733 | 2.4 | 11.6 |
| The Evergreen State College | 2008 | 10,858 | 2.8 | 6.7 |
| Western State College of Colorado | 2008 | 10,873 | 5.0 | 12.4 |
| State University of New York College of Environmental Science and Forestry | 2007 | 10,948 | 4.9 | 10.4 |
| Los Angeles City College | 2007 | 10,958 | 0.7 | 12.5 |
| Sweet Briar College | 2008 | 11,041 | 16.5 | 18.5 |
| Chabot College | 2009 | 11,048 | 1.0 | 17.3 |
| Minot State University | 2010 | 11,209 | 4.0 | 10.9 |
| St. Clair County Community College | 2008 | 11,271 | 2.8 | 25.5 |
| Lake Superior College | 2008 | 11,366 | 3.3 | 31.4 |
| Haverford College | 2008 | 11,412 | 9.8 | 7.7 |
| Westminster College-Utah | 2008 | 11,443 | 4.4 | 15.4 |
| University of Maine at Farmington | 2007 | 11,588 | 5.9 | 15.0 |
| University of South Carolina Upstate | 2009 | 11,805 | 2.6 | 12.7 |
| Harford Community College | 2008 | 11,851 | 3.2 | 24.6 |
| College of Marin | 2008 | 11,860 | 1.8 | 29.9 |
| Agnes Scott College | 2009 | 11,864 | 15.0 | 14.0 |
| University of Minnesota-Morris | 2007 | 11,910 | 7.1 | 12.9 |
| Kent State University Stark Campus | 2009 | 12,038 | 2.5 | 35.6 |
| Coe College | 2008 | 12,044 | 10.4 | 14.0 |
| Wentworth Institute of Technology | 2008 | 12,048 | 3.3 | 10.3 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| East Los Angeles College | 2007 | 12,085 | 0.5 | 17.6 |
| Worcester State College | 2008 | 12,210 | 2.7 | 10.8 |
| Illinois College | 2008 | 12,240 | 13.6 | 17.7 |
| School of the Art Institute of Chicago | 2009 | 12,288 | 4.1 | 11.1 |
| Manchester Community College (NH) | 2009 | 12,398 | 7.8 | 67.0 |
| Dickinson College | 2008 | 12,456 | 5.3 | 6.4 |
| Olympic College | 2008 | 12,463 | 2.7 | 27.3 |
| University of Maryland Center for Environmental Science | 2008 | 12,480 | 198.1 | 33.2 |
| University of Minnesota-Crookston | 2009 | 12,494 | 10.9 | 16.1 |
| Kalamazoo College | 2008 | 12,510 | 9.7 | 15.5 |
| Kankakee Community College | 2008 | 12,560 | 6.0 | 36.5 |
| Lake Michigan College | 2009 | 12,723 | 5.4 | 22.7 |
| St. Catherine University | 2010 | 12,744 | 2.8 | 10.3 |
| University of Redlands | 2008 | 12,753 | 3.1 | 11.4 |
| Butte College | 2006 | 12,812 | 4.4 | 31.0 |
| University of La Verne | 2010 | 12,989 | 3.6 | 27.1 |
| Mercyhurst College | 2007 | 13,047 | 4.0 | 9.6 |
| Middlesex Community College | 2008 | 13,137 | 2.7 | 25.2 |
| Orange Coast College | 2008 | 13,138 | 0.7 | 16.1 |
| Minnesota State Community and Technical College | 2009 | 13,168 | 3.1 | 14.6 |
| North Shore Community College | 2008 | 13,322 | 1.7 | 28.1 |
| Southern Polytechnic State University | 2008 | 13,399 | 3.2 | 11.6 |
| Cedar Valley College | 2007 | 13,459 | 4.5 | 38.6 |
| University of Houston - Downtown | 2008 | 13,524 | 1.9 | 9.7 |
| Massasoit Community College | 2007 | 13,687 | 3.2 | 24.9 |
| Gainesville State College | 2009 | 13,771 | 1.1 | 32.2 |
| South Suburban College | 2009 | 13,783 | 2.7 | 24.6 |
| Saint Norbert College | 2008 | 13,849 | 6.8 | 11.1 |
| Wofford College | 2008 | 13,899 | 10.6 | 15.9 |
| Life University | 2008 | 13,930 | 7.4 | 33.1 |
| Austin College | 2009 | 13,965 | 10.9 | 18.0 |
| Lakeshore Technical College | 2009 | 14,029 | 6.3 | 36.5 |
| Washington & Jefferson College | 2008 | 14,046 | 9.4 | 14.0 |
| St. Mary's College of Maryland | 2008 | 14,213 | 7.7 | 17.3 |
| University of New England | 2009 | 14,255 | 3.6 | 13.8 |
| Shoreline Community College | 2008 | 14,280 | 0.7 | 29.4 |
| Bristol Community College | 2006 | 14,372 | 3.6 | 39.5 |
| Guilford College | 2007 | 14,524 | 6.7 | 18.3 |
| Cape Cod Community College | 2008 | 14,575 | 6.0 | 42.0 |
| Bard College | 2009 | 14,715 | 7.8 | 13.1 |
| Fort Lewis College | 2007 | 15,329 | 4.3 | 14.1 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| Drury University | 2009 | 15,359 | 4.5 | 13.9 |
| Onondaga Community College | 2007 | 15,446 | 2.4 | 15.5 |
| Hobart and William Smith Colleges | 2007 | 15,589 | 7.8 | 10.8 |
| Bryn Mawr College | 2009 | 15,658 | 9.5 | 11.7 |
| University of California, Merced | 2007 | 15,873 | 9.9 | 16.4 |
| Adams State College | 2008 | 15,988 | 17.8 | 17.9 |
| Pratt Institute | 2008 | 16,148 | 3.6 | 10.9 |
| Washington College | 2007 | 16,153 | 12.9 | 21.2 |
| Sewanee: The University of the South | 2008 | 16,161 | 10.4 | 12.3 |
| University of Baltimore | 2008 | 16,220 | 2.8 | 21.6 |
| Simmons College | 2008 | 16,227 | 4.6 | 17.3 |
| Hollins University | 2007 | 16,231 | 15.3 | 19.1 |
| Colgate University | 2009 | 16,262 | 5.8 | 7.0 |
| Coppin State University | 2008 | 16,268 | 4.4 | 16.9 |
| Lee College | 2008 | 16,512 | 2.8 | 28.0 |
| Whitworth University | 2007 | 16,560 | 7.9 | 22.6 |
| Plymouth State University | 2007 | 16,693 | 3.6 | 11.8 |
| Mount Union College | 2008 | 16,883 | 8.0 | 15.8 |
| Centre College | 2008 | 17,079 | 14.4 | 18.1 |
| Luther College | 2009 | 17,109 | 7.1 | 11.6 |
| Lewis & Clark College | 2006 | 17,123 | 4.4 | 13.7 |
| Bowdoin College | 2008 | 17,166 | 10.0 | 8.8 |
| Springfield College | 2008 | 17,223 | 4.5 | 13.4 |
| Inver Hills Community College | 2009 | 17,308 | 4.7 | 59.7 |
| Eastern Iowa Community College District | 2008 | 17,590 | 2.2 | 32.8 |
| Colby College | 2008 | 17,629 | 9.5 | 12.2 |
| Allegheny College | 2007 | 17,709 | 8.2 | 14.8 |
| University of Portland | 2007 | 17,772 | 5.5 | 14.9 |
| Governors State University | 2009 | 17,850 | 4.2 | 32.1 |
| North Lake College | 2008 | 17,867 | 3.5 | 33.5 |
| El Centro College | 2009 | 17,927 | 7.3 | 26.5 |
| Willamette University | 2008 | 17,934 | 6.9 | 12.8 |
| Ocean County College | 2009 | 18,297 | 2.3 | 41.3 |
| Lesley University | 2007 | 18,320 | 3.5 | 25.0 |
| Western Connecticut State University | 2008 | 18,357 | 3.5 | 8.0 |
| Centralia College | 2008 | 18,428 | 2.7 | 63.3 |
| The University of South Dakota | 2008 | 18,482 | 3.2 | - |
| St. Lawrence University | 2008 | 18,715 | 8.5 | 8.7 |
| Rhodes College | 2008 | 18,812 | 11.3 | 17.7 |
| Gettysburg College | 2007 | 19,088 | 7.3 | 12.2 |
| Park University | 2008 | 19,145 | 15.2 | 37.1 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| Clark University | 2007 | 19,221 | 6.0 | 11.6 |
| Wilkes University | 2008 | 19,235 | 5.3 | 14.2 |
| Babson College | 2008 | 19,383 | 5.6 | 11.4 |
| Drake University | 2008 | 19,665 | 4.7 | 10.6 |
| Drew University | 2009 | 19,782 | 10.0 | 15.4 |
| Bemidji State University | 2009 | 19,786 | 4.6 | 12.0 |
| Claremont McKenna College | 2008 | 19,839 | 18.2 | 29.2 |
| Hocking Technical College | 2009 | 19,988 | 4.9 | 35.1 |
| Mount St. Mary's University | 2007 | 20,079 | 12.6 | 20.3 |
| County College of Morris | 2007 | 20,121 | 3.1 | 39.8 |
| Central Washington University | 2007 | 20,133 | 2.7 | 6.7 |
| Jackson Community College | 2009 | 20,259 | 4.3 | 32.4 |
| Stetson University | 2010 | 20,264 | 6.5 | 13.1 |
| Trinity College | 2009 | 20,495 | 9.2 | 10.8 |
| Hamilton College | 2009 | 20,617 | 11.2 | 11.0 |
| Broome Community College | 2007 | 20,649 | 3.3 | 34.9 |
| McDaniel College | 2008 | 20,678 | 8.5 | 19.7 |
| Concordia University, Nebraska | 2010 | 20,707 | 15.4 | 24.6 |
| Franklin & Marshall College | 2007 | 20,710 | 10.3 | 14.7 |
| Roger Williams University | 2008 | 20,791 | 4.3 | 15.3 |
| Fitchburg State College | 2007 | 20,985 | 4.4 | 15.7 |
| Virginia Wesleyan College | 2008 | 21,172 | 20.0 | 38.1 |
| Saint Xavier University | 2007 | 21,175 | 4.9 | 26.9 |
| Century College | 2009 | 21,253 | 3.2 | 29.8 |
| Union College | 2008 | 21,349 | 10.0 | 11.1 |
| Keene State College | 2007 | 21,359 | 4.4 | 13.4 |
| Carleton College | 2007 | 21,533 | 10.8 | 11.9 |
| Augsburg College | 2008 | 21,669 | 6.2 | 20.7 |
| College of Saint Benedict | 2008 | 21,823 | 10.5 | 17.8 |
| Winona State University | 2007 | 22,097 | 2.8 | 12.2 |
| Montgomery County Community College | 2008 | 22,138 | 4.0 | 31.4 |
| Rose-Hulman Institute of Technology | 2007 | 22,213 | 11.5 | 20.7 |
| Cincinnati State Technical and Community College | 2008 | 22,324 | 2.7 | 17.0 |
| California State University-Monterey Bay | 2007 | 22,348 | 5.5 | 16.2 |
| University of Southern Maine | 2009 | 22,428 | 2.1 | 9.0 |
| Parkland College | 2010 | 22,471 | 3.4 | 25.3 |
| Salem State College | 2009 | 22,511 | 2.2 | 17.2 |
| Simpson College | 2009 | 22,680 | 11.2 | 28.0 |
| Eckerd College | 2008 | 22,698 | 7.9 | 28.0 |
| St. Louis Community College at Florissant Valley | 2009 | 22,856 | 3.2 | 64.5 |
| Bentley University | 2009 | 22,963 | 4.6 | 13.5 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| University of Maryland University College | 2008 | 23,017 | 1.3 | 30.1 |
| Western Washington University | 2007 | 23,023 | 1.8 | 7.4 |
| College of the Holy Cross | 2007 | 23,211 | 8.3 | 11.4 |
| Davidson College | 2008 | 23,387 | 14.0 | 14.9 |
| Bergen Community College | 2008 | 23,493 | 1.9 | 32.5 |
| Saint Peter's College | 2009 | 23,520 | 7.6 | 18.4 |
| State University of New York at New Paltz | 2009 | 23,554 | 3.7 | 10.8 |
| Seattle University | 2009 | 23,787 | 4.3 | 10.7 |
| Albion College | 2008 | 23,795 | 12.3 | 16.0 |
| Richland College | 2008 | 23,973 | 2.7 | 37.9 |
| Messiah College | 2008 | 24,133 | 8.6 | 18.0 |
| Lewis and Clark Community College | 2009 | 24,155 | 5.6 | 50.9 |
| Western Technical College | 2008 | 24,177 | 6.4 | 34.8 |
| Southern Connecticut State University | 2008 | 24,516 | 2.7 | 9.7 |
| Santa Clara University | 2009 | 24,597 | 3.2 | 12.1 |
| Des Moines Area Community College | 2008 | 24,615 | 2.1 | 22.3 |
| Catawba College | 2008 | 24,673 | 19.4 | 10.4 |
| Foothill College | 2008 | 24,780 | 1.7 | 38.4 |
| State University of New York at Fredonia | 2009 | 24,818 | 5.1 | 12.2 |
| Bowie State University | 2007 | 24,907 | 5.4 | 20.9 |
| Delta College | 2008 | 24,973 | 3.5 | 25.8 |
| Edmonds Community College | 2007 | 25,037 | 3.3 | 35.7 |
| South Dakota School of Mines and Technology | 2008 | 25,105 | 14.5 | 37.2 |
| Minneapolis Community and Technical College | 2008 | 25,166 | 2.0 | 16.6 |
| Rider University | 2007 | 25,233 | 5.3 | 18.5 |
| Gustavus Adolphus College | 2008 | 25,239 | 10.1 | 16.4 |
| Eastern Connecticut State University | 2008 | 25,288 | 4.9 | 12.7 |
| Madison Area Technical College | 2008 | 25,473 | 1.4 | 19.9 |
| Salisbury University | 2008 | 26,414 | 3.7 | 18.3 |
| Washington and Lee University | 2007 | 26,452 | 12.1 | 12.8 |
| New Mexico State University Dona Ana Branch | 2009 | 26,572 | 2.4 | 61.3 |
| Macalester College | 2008 | 26,672 | 14.1 | 21.1 |
| De Anza College | 2008 | 26,761 | 1.3 | 18.6 |
| Scottsdale Community College | 2008 | 26,981 | 4.3 | 51.4 |
| Fairfield University | 2008 | 27,040 | 6.1 | 15.0 |
| University of Massachusetts Lowell | 2007 | 27,094 | 1.6 | 10.2 |
| University of Massachusetts Boston | 2008 | 27,173 | 3.1 | 11.0 |
| Smith College | 2009 | 27,216 | 9.2 | 9.4 |
| Ramapo College of New Jersey | 2008 | 27,609 | 5.6 | 16.6 |
| The Richard Stockton College of New Jersey | 2008 | 27,792 | 4.8 | 33.1 |
| Washtenaw Community College | 2008 | 27,804 | 3.5 | 28.1 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| Pomona College | 2009 | 28,083 | 18.3 | 18.1 |
| Colorado College | 2009 | 28,441 | 14.1 | 15.3 |
| State University of New York College at Geneseo | 2008 | 28,506 | 5.4 | 12.4 |
| University of Colorado at Colorado Springs | 2007 | 28,774 | 3.4 | 22.9 |
| Santa Monica College | 2009 | 29,068 | 3.2 | 27.8 |
| Florida Gulf Coast University | 2008 | 29,691 | 4.0 | 14.4 |
| Middlebury College | 2007 | 29,882 | 12.0 | 12.0 |
| Frostburg State University | 2007 | 30,088 | 6.5 | 21.0 |
| University of Maryland Eastern Shore | 2009 | 30,352 | 8.5 | 16.9 |
| Wilson Community College | 2008 | 30,404 | 2.3 | 145.2 |
| Framingham State College | 2010 | 30,690 | 5.1 | 30.6 |
| University of Missouri - Kansas City | 2009 | 30,820 | 3.2 | 12.5 |
| State University of New York College at Oswego | 2008 | 30,869 | 4.3 | 9.0 |
| University of Wisconsin-River Falls | 2007 | 30,927 | 4.9 | 15.3 |
| Victor Valley College | 2008 | 32,030 | 3.5 | 93.7 |
| University of Wisconsin-Green Bay | 2008 | 32,146 | 6.4 | 18.8 |
| State University of New York College at Potsdam | 2010 | 32,316 | 7.3 | 14.4 |
| San Joaquin Delta College | 2008 | 32,337 | 1.9 | 55.5 |
| Trinity University | 2007 | 32,405 | 13.2 | 14.1 |
| Wesleyan University | 2009 | 32,411 | 11.1 | 11.2 |
| Finger Lakes Community College | 2008 | 32,481 | 18.1 | 64.3 |
| Loyola Marymount University | 2008 | 32,624 | 4.5 | 11.7 |
| Mesa Community College | 2008 | 32,648 | 2.7 | 46.6 |
| Berry College | 2008 | 34,062 | 20.3 | 26.3 |
| University of Wisconsin-Stevens Point | 2007 | 34,361 | 4.1 | 13.0 |
| Santa Fe Community College (NM) | 2007 | 34,630 | 2.9 | 64.3 |
| California State University-Chico | 2006 | 35,803 | 2.4 | 14.3 |
| Furman University | 2008 | 35,978 | 13.4 | 17.6 |
| Xavier University | 2008 | 36,069 | 7.2 | 20.4 |
| Bellevue College | 2008 | 36,153 | 3.3 | 47.4 |
| University of Richmond | 2008 | 36,247 | 10.2 | 14.8 |
| Ithaca College | 2009 | 36,338 | 5.3 | 14.5 |
| Valdosta State University | 2008 | 36,420 | 3.5 | 17.4 |
| The City College of New York | 2008 | 37,192 | 3.6 | 12.4 |
| Hillsborough Community College | 2010 | 37,287 | 2.0 | 23.3 |
| Lorain County Community College | 2009 | 37,300 | 5.5 | 37.2 |
| Purchase College, State University of New York | 2007 | 38,011 | 10.5 | 15.6 |
| University of Wisconsin-Stout | 2009 | 38,027 | 4.3 | 15.4 |
| University of Missouri - Saint Louis | 2009 | 38,188 | 4.3 | 17.6 |
| Brandeis University | 2008 | 38,370 | 7.6 | 15.1 |
| Jamestown Community College | 2008 | 38,379 | 9.9 | 53.3 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| DePauw University | 2009 | 38,639 | 16.8 | 21.2 |
| Central New Mexico Community College | 2008 | 38,882 | 3.2 | 31.0 |
| University of Massachusetts Dartmouth | 2008 | 39,113 | 5.0 | 16.8 |
| University of Idaho | 2007 | 39,594 | 3.6 | 10.7 |
| The College of New Jersey | 2008 | 39,927 | 6.6 | 12.2 |
| University of Central Oklahoma | 2007 | 40,364 | 3.8 | 17.4 |
| Oberlin College | 2007 | 40,442 | 14.7 | 15.3 |
| Bucknell University | 2008 | 40,554 | 11.4 | 15.3 |
| University of Wisconsin-Eau Claire | 2008 | 41,110 | 3.8 | 16.7 |
| Bridgewater State College | 2008 | 41,160 | 5.3 | 24.5 |
| Drexel University | 2008 | 41,369 | 3.3 | 12.5 |
| Austin Community College District | 2009 | 41,710 | 4.6 | 30.8 |
| William Paterson University of New Jersey | 2008 | 41,902 | 5.5 | 22.2 |
| University of Wisconsin-Oshkosh | 2008 | 42,078 | 4.1 | 14.7 |
| Central Connecticut State University | 2009 | 42,313 | 4.3 | 12.8 |
| The University of Montana - Missoula | 2007 | 42,687 | 3.8 | 11.1 |
| Norfolk State University | 2009 | 42,886 | 6.1 | 23.1 |
| University of Oregon | 2008 | 43,762 | 2.5 | 6.9 |
| Portland State University | 2007 | 44,190 | 3.0 | 9.2 |
| University of Alaska Anchorage | 2008 | 44,228 | 5.0 | 26.5 |
| Nassau Community College | 2008 | 46,018 | 2.5 | 28.9 |
| Weber State University | 2007 | 47,220 | 2.6 | 19.1 |
| Saint John's University | 2008 | 47,376 | 22.8 | 25.3 |
| Eastern Washington University | 2009 | 47,611 | 5.2 | 18.4 |
| Portland Community College | 2008 | 48,449 | 2.1 | 24.0 |
| Community College of Denver | 2008 | 48,481 | 10.2 | 23.0 |
| Metropolitan State College of Denver | 2008 | 48,481 | 3.3 | 23.0 |
| Boise State University | 2008 | 49,884 | 3.5 | 16.1 |
| University of Central Missouri | 2008 | 50,842 | 3.3 | 17.7 |
| University of Wisconsin-Whitewater | 2009 | 51,338 | 5.0 | 20.2 |
| American University | 2009 | 52,433 | 5.0 | 15.7 |
| Rice University | 2009 | 53,084 | 10.6 | 14.0 |
| Howard Community College | 2009 | 53,183 | 0.3 | 80.3 |
| Morgan State University | 2009 | 53,267 | 8.9 | 16.2 |
| Johnson County Community College | 2009 | 53,862 | 3.9 | 32.2 |
| University of Tennessee at Chattanooga | 2009 | 54,563 | 6.5 | 21.5 |
| San Francisco State University | 2008 | 55,409 | 1.9 | 15.2 |
| University of Minnesota-Duluth | 2007 | 56,465 | 5.0 | 18.3 |
| Rowan University | 2007 | 58,984 | 5.8 | 23.6 |
| Florida Atlantic University | 2008 | 60,918 | 2.9 | 14.8 |
| State University of New York at Binghamton | 2008 | 61,062 | 4.2 | 11.4 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| Lane Community College | 2008 | 61,521 | 5.6 | 55.1 |
| Columbus State Community College | 2007 | 62,462 | 2.7 | 57.1 |
| Northeastern University | 2009 | 63,822 | 2.9 | 10.9 |
| University of Denver | 2007 | 64,190 | 6.7 | 13.7 |
| California State Polytechnic University-Pomona | 2006 | 64,203 | 3.9 | 17.7 |
| The Community College of Baltimore County | 2008 | 64,309 | 4.1 | 45.3 |
| Missouri University of Science & Technology | 2009 | 67,968 | 11.0 | 26.8 |
| University of Vermont | 2009 | 68,991 | 5.7 | 13.9 |
| Northern Kentucky University | 2008 | 69,272 | 4.6 | 22.2 |
| University of Maine | 2008 | 71,134 | 6.1 | 16.4 |
| University of Saint Thomas | 2009 | 71,275 | 5.7 | 21.8 |
| University of New Hampshire | 2007 | 74,053 | 5.4 | 12.4 |
| State University of New York Upstate Medical University | 2010 | 74,199 | 50.2 | 38.9 |
| Appalachian State University | 2009 | 74,325 | 4.7 | 14.6 |
| Georgia Southern University | 2009 | 75,675 | 4.0 | 17.1 |
| University of Memphis | 2009 | 75,821 | 4.8 | 12.9 |
| Montana State University - Bozeman | 2009 | 77,377 | 7.1 | 18.8 |
| Northern Arizona University | 2008 | 78,858 | 4.6 | 15.4 |
| University of California, Santa Cruz | 2007 | 79,838 | 5.4 | 14.4 |
| Lansing Community College | 2008 | 82,300 | 6.9 | 59.6 |
| University of Maryland Baltimore County | 2009 | 82,346 | 7.6 | 25.7 |
| University of Toledo - Main Campus | 2010 | 82,360 | 3.3 | 12.1 |
| University of California, Santa Barbara | 2009 | 83,980 | 3.8 | 13.1 |
| Grand Valley State University | 2009 | 85,355 | 3.9 | 17.9 |
| Rochester Institute of Technology | 2009 | 85,637 | 7.1 | 17.2 |
| Towson University | 2007 | 85,769 | 5.6 | 19.8 |
| James Madison University | 2008 | 85,835 | 5.0 | 17.0 |
| University of Nevada, Las Vegas | 2008 | 85,878 | 3.9 | 15.5 |
| University of Nevada, Reno | 2007 | 85,927 | 5.2 | 18.7 |
| State University of New York at Albany | 2008 | 86,775 | 5.6 | 18.3 |
| Texas Christian University | 2009 | 88,882 | 10.7 | 25.4 |
| Gateway Community College | 2007 | 88,884 | 24.2 | 295.2 |
| Villanova University | 2009 | 91,235 | 14.0 | 27.9 |
| University of Louisville | 2008 | 92,789 | 5.4 | 13.3 |
| University of Mississippi | 2008 | 93,827 | 7.9 | 21.1 |
| Kennesaw State University | 2008 | 96,097 | 4.7 | 78.1 |
| University of California, Riverside | 2007 | 96,548 | 5.5 | - |
| University of Massachusetts Medical School | 2008 | 97,942 | 141.9 | 52.2 |
| Indiana State University | 2008 | 98,066 | 9.3 | 22.6 |
| Yeshiva University | 2009 | 98,526 | 17.1 | 27.3 |
| Oregon State University | 2009 | 98,853 | 5.4 | 14.1 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO ₂ E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|------------------------------|---|
| University of Rhode Island | 2009 | 99,293 | 7.5 | 22.2 |
| George Mason University | 2007 | 103,066 | 4.5 | 22.0 |
| Syracuse University | 2007 | 112,895 | 6.4 | 14.6 |
| Mississippi State University | 2009 | 114,189 | 6.4 | 15.3 |
| University of Southern Mississippi | 2008 | 114,677 | 9.1 | 25.4 |
| University of Hawai'i at Manoa | 2008 | 116,351 | 5.7 | 19.0 |
| Illinois State University | 2009 | 123,768 | 6.1 | 19.0 |
| University of North Texas | 2009 | 123,927 | 5.2 | 20.2 |
| George Washington University | 2009 | 124,429 | 6.2 | 15.7 |
| University of Massachusetts Amherst | 2008 | 128,848 | 5.0 | 12.5 |
| Utah State University | 2009 | 128,955 | 6.8 | 18.5 |
| Virginia Commonwealth University | 2009 | 131,253 | 4.6 | 19.2 |
| University of Wyoming | 2008 | 133,909 | 10.9 | 18.6 |
| New York University | 2009 | 136,486 | 3.3 | 11.5 |
| University of Central Florida | 2008 | 137,729 | 2.8 | 15.5 |
| University of North Dakota | 2009 | 138,633 | 11.0 | 26.0 |
| Clemson University | 2007 | 139,080 | 7.9 | 20.8 |
| Washington State University Pullman | 2009 | 139,482 | 8.6 | 11.1 |
| Tulane University | 2008 | 144,591 | 14.3 | 20.5 |
| State University of New York at Buffalo | 2007 | 145,152 | 5.2 | 14.2 |
| New Mexico State University Main Campus | 2008 | 152,133 | 6.1 | 24.5 |
| University of Delaware | 2009 | 152,542 | 8.7 | 29.1 |
| University of Maryland Baltimore | 2008 | 160,783 | 24.1 | 27.5 |
| University of California, Irvine | 2008 | 162,082 | 6.3 | 29.0 |
| Carnegie Mellon University | 2007 | 163,680 | 18.2 | 34.6 |
| University of Colorado at Boulder | 2007 | 164,140 | 5.5 | 16.9 |
| University of Colorado Denver | 2007 | 164,408 | 10.7 | 29.2 |
| University of South Carolina Columbia | 2007 | 166,872 | 7.6 | 15.4 |
| University of Arkansas Main Campus | 2009 | 169,610 | 11.9 | 22.4 |
| Medical University of South Carolina | 2007 | 174,184 | 54.8 | 30.3 |
| University of New Mexico Main Campus | 2006 | 174,387 | 8.5 | 26.3 |
| University of California, San Francisco | 2007 | 180,738 | 61.2 | 25.2 |
| University of Washington Seattle | 2007 | 181,615 | 4.7 | 8.4 |
| Ball State University | 2008 | 192,873 | 11.6 | 28.6 |
| University of Connecticut | 2007 | 201,770 | 10.8 | 18.9 |
| University of Pittsburgh – mandatory sources only | 2008 | 204,200 | 8.3 | 21.7 |
| University of California, Berkeley | 2008 | 209,989 | 6.1 | 13.1 |
| Ohio University | 2009 | 211,266 | 10.2 | 27.0 |
| Auburn University | 2008 | 212,259 | 8.7 | 28.0 |
| Colorado State University | 2009 | 223,466 | 8.9 | 21.5 |
| Temple University | 2009 | 227,993 | 7.6 | 24.9 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| Florida International University | 2008 | 239,661 | 6.3 | 55.1 |
| Yale University | 2008 | 242,500 | 21.3 | 20.0 |
| University of Miami | 2007 | 243,065 | 16.4 | 23.1 |
| University of Tennessee, Knoxville | 2009 | 243,728 | 9.4 | 16.5 |
| University of Pennsylvania | 2008 | 250,555 | 12.6 | 21.0 |
| University of Arizona | 2009 | 250,586 | 7.0 | 27.5 |
| University of Oklahoma Norman Campus | 2008 | 253,789 | 9.7 | 25.7 |
| University of South Florida | 2009 | 257,566 | 6.5 | 42.2 |
| Case Western Reserve University | 2009 | 263,217 | 28.8 | 34.0 |
| North Carolina State University | 2008 | 269,486 | 8.2 | 18.0 |
| University of Illinois at Chicago | 2008 | 270,682 | 11.0 | 18.4 |
| University of Pittsburgh – all accountable sources | 2008 | 273,400 | 11.0 | 29.1 |
| University of California, San Diego | 2007 | 273,763 | 9.9 | 17.3 |
| Arizona State University | 2008 | 293,248 | 4.6 | 23.7 |
| Cornell University | 2008 | 308,000 | 15.6 | 20.7 |
| Rutgers University | 2008 | 309,060 | 9.4 | 16.7 |
| State University of New York at Stony Brook | 2008 | 322,577 | 14.7 | 31.5 |
| University of Utah | 2007 | 327,050 | 13.3 | 28.5 |
| Georgia Institute of Technology | 2009 | 329,853 | 16.3 | 22.8 |
| University of California, Los Angeles | 2007 | 338,718 | 9.5 | 12.1 |
| University of Maryland College Park | 2007 | 351,144 | 10.8 | 27.7 |
| University of Cincinnati | 2008 | 371,295 | 14.1 | 30.9 |
| University of California, Davis | 2007 | 384,306 | 13.2 | 25.2 |
| Duke University | 2007 | 425,960 | 32.8 | 30.7 |
| University of Florida | 2006 | 432,123 | 9.2 | 24.8 |
| Pennsylvania State University | 2008 | 455,069 | 10.5 | 22.5 |
| University of Missouri - Columbia | 2009 | 485,931 | 16.1 | 29.5 |
| Vanderbilt University | 2007 | 487,000 | 42.5 | 35.0 |
| University of Illinois at Urbana-Champaign | 2008 | 522,757 | 12.4 | 26.0 |
| University of North Carolina at Chapel Hill | 2008 | 569,169 | 21.6 | 30.8 |
| University of Minnesota-Twin Cities | 2008 | 642,735 | 12.6 | 29.8 |
| The Ohio State University Main Campus | 2009 | 661,037 | 12.3 | 29.3 |
| University of Michigan | 2008 | 687,000 | 16.8 | 22.1 |
| Houston Community College | 2008 | 1,176,705 | 19.2 | 374.9 |

Table 8. List of higher educational institutions that have reported their GHG emissions, ranked according to emissions per full time student equivalent [19-27]

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| Berea College | 2008 | -2,374 | -1.5 | -1.7 |
| College of the Atlantic | 2009 | 0 | 0.0 | 0.0 |
| American Public University System | 2008 | 2,242 | 0.1 | 20.8 |
| Chaffey College | 2008 | 8,031 | 0.2 | 19.6 |
| Howard Community College | 2009 | 53,183 | 0.3 | 80.3 |
| Pasadena City College | 2010 | 8,291 | 0.4 | 7.9 |
| The New School | 2009 | 3,774 | 0.4 | 3.7 |
| Durham Technical Community College | 2008 | 2,452 | 0.5 | 5.0 |
| East Los Angeles College | 2007 | 12,085 | 0.5 | 17.6 |
| Los Angeles Trade-Technical College | 2007 | 6,817 | 0.5 | 8.6 |
| Los Angeles Valley College | 2007 | 6,553 | 0.5 | 10.2 |
| Naropa University | 2009 | 509 | 0.5 | 3.3 |
| State University of New York Empire State College | 2009 | 4,693 | 0.5 | 14.7 |
| University of Maine at Augusta | 2008 | 2,917 | 0.5 | 8.3 |
| West Los Angeles College | 2007 | 4,302 | 0.5 | 9.0 |
| Golden West College | 2008 | 7,195 | 0.6 | 12.6 |
| Los Angeles Southwest College | 2007 | 4,195 | 0.6 | 9.7 |
| Manchester Community College (CT) | 2007 | 4,463 | 0.6 | 10.9 |
| University of Minnesota-Rochester | 2009 | 225 | 0.6 | 4.0 |
| Los Angeles City College | 2007 | 10,958 | 0.7 | 12.5 |
| Los Angeles Harbor College | 2007 | 4,706 | 0.7 | 12.2 |
| Los Angeles Mission College | 2007 | 5,519 | 0.7 | 18.8 |
| Los Angeles Pierce College | 2007 | 10,571 | 0.7 | 16.3 |
| Orange Coast College | 2008 | 13,138 | 0.7 | 16.1 |
| Rio Salado College | 2010 | 8,678 | 0.7 | 32.9 |
| Shoreline Community College | 2008 | 14,280 | 0.7 | 29.4 |
| Cabrillo College | 2008 | 9,332 | 0.8 | 19.9 |
| Everett Community College | 2009 | 9,569 | 0.8 | 12.8 |
| McLennan Community College | 2009 | 9,932 | 0.8 | 16.6 |
| Mount Wachusett Community College | 2010 | 3,995 | 0.8 | 4.4 |
| Coastline Community College | 2008 | 5,683 | 0.9 | 25.2 |
| Chabot College | 2009 | 11,048 | 1.0 | 17.3 |
| Gainesville State College | 2009 | 13,771 | 1.1 | 32.2 |
| Penn State Berks | 2008 | 2,829 | 1.1 | 7.6 |
| Antioch University Los Angeles | 2008 | 815 | 1.2 | 18.9 |
| Truckee Meadows Community College | 2009 | 8,337 | 1.2 | 13.2 |
| De Anza College | 2008 | 26,761 | 1.3 | 18.6 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO ₂ E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|------------------------------|---|
| University of Maryland University College | 2008 | 23,017 | 1.3 | 30.1 |
| College of Saint Rose | 2008 | 7,264 | 1.4 | 8.8 |
| Las Positas College | 2009 | 9,076 | 1.4 | 32.4 |
| Madison Area Technical College | 2008 | 25,473 | 1.4 | 19.9 |
| California State University-Bakersfield | 2009 | 10,127 | 1.5 | 10.1 |
| Boston Architectural College | 2009 | 2,352 | 1.6 | 23.2 |
| Confederation College | 2009 | 6,366 | 1.6 | 9.0 |
| New Mexico State University at Alamogordo | 2007 | 4,525 | 1.6 | 23.9 |
| Southern Oregon University | 2008 | 6,036 | 1.6 | 3.8 |
| Unity College | 2008 | 841 | 1.6 | 5.6 |
| University of Massachusetts Lowell | 2007 | 27,094 | 1.6 | 10.2 |
| University of Washington Tacoma | 2007 | 3,747 | 1.6 | 6.2 |
| Carteret Community College | 2009 | 2,615 | 1.7 | 12.7 |
| Foothill College | 2008 | 24,780 | 1.7 | 38.4 |
| North Shore Community College | 2008 | 13,322 | 1.7 | 28.1 |
| Peninsula College | 2009 | 2,949 | 1.7 | 12.1 |
| Seattle Pacific University | 2009 | 6,219 | 1.7 | 5.6 |
| University of South Carolina Salkehatchie | 2009 | 918 | 1.7 | 8.1 |
| College of Marin | 2008 | 11,860 | 1.8 | 29.9 |
| SUNY Orange | 2009 | 9,500 | 1.8 | 17.8 |
| University of South Carolina Beaufort | 2008 | 4,264 | 1.8 | 11.8 |
| Western Washington University | 2007 | 23,023 | 1.8 | 7.4 |
| Bergen Community College | 2008 | 23,493 | 1.9 | 32.5 |
| Chandler-Gilbert Community College | 2008 | 10,446 | 1.9 | 23.7 |
| San Francisco State University | 2008 | 55,409 | 1.9 | 15.2 |
| San Joaquin Delta College | 2008 | 32,337 | 1.9 | 55.5 |
| University of Houston - Downtown | 2008 | 13,524 | 1.9 | 9.7 |
| Hillsborough Community College | 2010 | 37,287 | 2.0 | 23.3 |
| Massachusetts Bay Community College | 2008 | 10,229 | 2.0 | 27.3 |
| Minneapolis Community and Technical College | 2008 | 25,166 | 2.0 | 16.6 |
| Des Moines Area Community College | 2008 | 24,615 | 2.1 | 22.3 |
| Metropolitan State University | 2008 | 10,695 | 2.1 | 38.2 |
| Portland Community College | 2008 | 48,449 | 2.1 | 24.0 |
| University of Southern Maine | 2009 | 22,428 | 2.1 | 9.0 |
| Eastern Iowa Community College District | 2008 | 17,590 | 2.2 | 32.8 |
| Pacific Lutheran University | 2008 | 7,856 | 2.2 | 6.0 |
| Salem State College | 2009 | 22,511 | 2.2 | 17.2 |
| Washington State University, Vancouver | 2008 | 3,180 | 2.2 | 8.3 |
| Antioch University Seattle | 2008 | 1,368 | 2.3 | 26.2 |
| Cascadia Community College | 2009 | 4,550 | 2.3 | 14.8 |
| Marymount Manhattan College | 2010 | 4,093 | 2.3 | 12.0 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| Ocean County College | 2009 | 18,297 | 2.3 | 41.3 |
| Wilson Community College | 2008 | 30,404 | 2.3 | 145.2 |
| California State University-Chico | 2006 | 35,803 | 2.4 | 14.3 |
| Goddard College | 2006 | 1,637 | 2.4 | 10.9 |
| Holyoke Community College | 2008 | 10,733 | 2.4 | 11.6 |
| New Mexico State University Dona Ana Branch | 2009 | 26,572 | 2.4 | 61.3 |
| Onondaga Community College | 2007 | 15,446 | 2.4 | 15.5 |
| Oregon Institute of Technology | 2008 | 5,732 | 2.4 | 9.3 |
| School for International Training | 2008 | 538 | 2.4 | 4.3 |
| Emerson College | 2008 | 9,143 | 2.5 | 9.5 |
| Kent State University Stark Campus | 2009 | 12,038 | 2.5 | 35.6 |
| Labette Community College | 2009 | 2,095 | 2.5 | 17.9 |
| Nassau Community College | 2008 | 46,018 | 2.5 | 28.9 |
| University of Oregon | 2008 | 43,762 | 2.5 | 6.9 |
| Point Loma Nazarene University | 2008 | 6,074 | 2.6 | 7.5 |
| The National Graduate School of Quality Management | 2009 | 605 | 2.6 | 27.3 |
| University of South Carolina Sumter | 2009 | 2,251 | 2.6 | 9.6 |
| University of South Carolina Upstate | 2009 | 11,805 | 2.6 | 12.7 |
| Weber State University | 2007 | 47,220 | 2.6 | 19.1 |
| Wheelock College | 2008 | 2,274 | 2.6 | 6.5 |
| Antioch University New England | 2008 | 2,651 | 2.7 | 31.2 |
| Berkshire Community College | 2008 | 4,234 | 2.7 | 16.9 |
| Central Washington University | 2007 | 20,133 | 2.7 | 6.7 |
| Centralia College | 2008 | 18,428 | 2.7 | 63.3 |
| Cincinnati State Technical and Community College | 2008 | 22,324 | 2.7 | 17.0 |
| Columbus State Community College | 2007 | 62,462 | 2.7 | 57.1 |
| Mesa Community College | 2008 | 32,648 | 2.7 | 46.6 |
| Middlesex Community College | 2008 | 13,137 | 2.7 | 25.2 |
| Northern Essex Community College | 2008 | 10,441 | 2.7 | 22.3 |
| Olympic College | 2008 | 12,463 | 2.7 | 27.3 |
| Quinsigamond Community College | 2007 | 10,026 | 2.7 | 15.8 |
| Richland College | 2008 | 23,973 | 2.7 | 37.9 |
| South Suburban College | 2009 | 13,783 | 2.7 | 24.6 |
| Southern Connecticut State University | 2008 | 24,516 | 2.7 | 9.7 |
| Worcester State College | 2008 | 12,210 | 2.7 | 10.8 |
| Lee College | 2008 | 16,512 | 2.8 | 28.0 |
| St. Catherine University | 2010 | 12,744 | 2.8 | 10.3 |
| St. Clair County Community College | 2008 | 11,271 | 2.8 | 25.5 |
| The Evergreen State College | 2008 | 10,858 | 2.8 | 6.7 |
| University of Baltimore | 2008 | 16,220 | 2.8 | 21.6 |
| University of Central Florida | 2008 | 137,729 | 2.8 | 15.5 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| Winona State University | 2007 | 22,097 | 2.8 | 12.2 |
| Florida Atlantic University | 2008 | 60,918 | 2.9 | 14.8 |
| New England Institute of Technology | 2008 | 8,554 | 2.9 | 46.3 |
| Northeastern University | 2009 | 63,822 | 2.9 | 10.9 |
| Santa Fe Community College (NM) | 2007 | 34,630 | 2.9 | 64.3 |
| Portland State University | 2007 | 44,190 | 3.0 | 9.2 |
| Prescott College | 2008 | 2,978 | 3.0 | 29.5 |
| University of Washington Bothell | 2007 | 5,215 | 3.0 | 17.6 |
| County College of Morris | 2007 | 20,121 | 3.1 | 39.8 |
| Minnesota State Community and Technical College | 2009 | 13,168 | 3.1 | 14.6 |
| University of Houston - Victoria | 2008 | 2,358 | 3.1 | 14.9 |
| University of Massachusetts Boston | 2008 | 27,173 | 3.1 | 11.0 |
| University of Redlands | 2008 | 12,753 | 3.1 | 11.4 |
| Central New Mexico Community College | 2008 | 38,882 | 3.2 | 31.0 |
| Century College | 2009 | 21,253 | 3.2 | 29.8 |
| Harford Community College | 2008 | 11,851 | 3.2 | 24.6 |
| Iowa Lakes Community College | 2008 | 7,396 | 3.2 | 0.7 |
| Massasoit Community College | 2007 | 13,687 | 3.2 | 24.9 |
| Santa Clara University | 2009 | 24,597 | 3.2 | 12.1 |
| Santa Monica College | 2009 | 29,068 | 3.2 | 27.8 |
| Southern Polytechnic State University | 2008 | 13,399 | 3.2 | 11.6 |
| St. Louis Community College at Florissant Valley | 2009 | 22,856 | 3.2 | 64.5 |
| The University of South Dakota | 2008 | 18,482 | 3.2 | - |
| University of Missouri - Kansas City | 2009 | 30,820 | 3.2 | 12.5 |
| University of South Carolina Aiken | 2008 | 10,479 | 3.2 | 13.6 |
| Bellevue College | 2008 | 36,153 | 3.3 | 47.4 |
| Broome Community College | 2007 | 20,649 | 3.3 | 34.9 |
| Drexel University | 2008 | 41,369 | 3.3 | 12.5 |
| Edmonds Community College | 2007 | 25,037 | 3.3 | 35.7 |
| Lake Superior College | 2008 | 11,366 | 3.3 | 31.4 |
| Metropolitan State College of Denver | 2008 | 48,481 | 3.3 | 23.0 |
| New York University | 2009 | 136,486 | 3.3 | 11.5 |
| University of Central Missouri | 2008 | 50,842 | 3.3 | 17.7 |
| University of Toledo - Main Campus | 2010 | 82,360 | 3.3 | 12.1 |
| Warren Wilson College | 2007 | 2,758 | 3.3 | 4.1 |
| Wentworth Institute of Technology | 2008 | 12,048 | 3.3 | 10.3 |
| Manhattanville College | 2009 | 7,877 | 3.4 | 9.7 |
| Parkland College | 2010 | 22,471 | 3.4 | 25.3 |
| University of Colorado at Colorado Springs | 2007 | 28,774 | 3.4 | 22.9 |
| Washington State University, Spokane | 2008 | 9,942 | 3.4 | 17.1 |
| Boise State University | 2008 | 49,884 | 3.5 | 16.1 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| Delta College | 2008 | 24,973 | 3.5 | 25.8 |
| Lesley University | 2007 | 18,320 | 3.5 | 25.0 |
| North Lake College | 2008 | 17,867 | 3.5 | 33.5 |
| Valdosta State University | 2008 | 36,420 | 3.5 | 17.4 |
| Victor Valley College | 2008 | 32,030 | 3.5 | 93.7 |
| Washtenaw Community College | 2008 | 27,804 | 3.5 | 28.1 |
| Western Connecticut State University | 2008 | 18,357 | 3.5 | 8.0 |
| Anna Maria College | 2009 | 3,756 | 3.6 | 15.5 |
| Black Hills State University | 2008 | 10,698 | 3.6 | 14.6 |
| Bristol Community College | 2006 | 14,372 | 3.6 | 39.5 |
| Plymouth State University | 2007 | 16,693 | 3.6 | 11.8 |
| Pratt Institute | 2008 | 16,148 | 3.6 | 10.9 |
| The City College of New York | 2008 | 37,192 | 3.6 | 12.4 |
| University of Idaho | 2007 | 39,594 | 3.6 | 10.7 |
| University of La Verne | 2010 | 12,989 | 3.6 | 27.1 |
| University of New England | 2009 | 14,255 | 3.6 | 13.8 |
| Haywood Community College | 2008 | 7,081 | 3.7 | 22.1 |
| Salisbury University | 2008 | 26,414 | 3.7 | 18.3 |
| State University of New York at New Paltz | 2009 | 23,554 | 3.7 | 10.8 |
| SUNY Rockland Community College | 2008 | 8,958 | 3.7 | 12.8 |
| Georgian Court University | 2008 | 8,849 | 3.8 | 16.0 |
| The University of Montana - Missoula | 2007 | 42,687 | 3.8 | 11.1 |
| University of California, Santa Barbara | 2009 | 83,980 | 3.8 | 13.1 |
| University of Central Oklahoma | 2007 | 40,364 | 3.8 | 17.4 |
| University of Wisconsin-Eau Claire | 2008 | 41,110 | 3.8 | 16.7 |
| California State Polytechnic University-Pomona | 2006 | 64,203 | 3.9 | 17.7 |
| Connecticut College | 2008 | 6,612 | 3.9 | 4.6 |
| Grand Valley State University | 2009 | 85,355 | 3.9 | 17.9 |
| Johnson County Community College | 2009 | 53,862 | 3.9 | 32.2 |
| Lasell College | 2009 | 5,680 | 3.9 | 12.6 |
| New Mexico State University Grants Branch | 2009 | 2,461 | 3.9 | 20.5 |
| The University of Montana - Western | 2008 | 4,265 | 3.9 | 11.7 |
| University of Nevada, Las Vegas | 2008 | 85,878 | 3.9 | 15.5 |
| Bainbridge Graduate Institute | 2009 | 794 | 4.0 | 66.2 |
| Florida Gulf Coast University | 2008 | 29,691 | 4.0 | 14.4 |
| Franklin Pierce University | 2007 | 6,826 | 4.0 | 10.4 |
| Georgia Southern University | 2009 | 75,675 | 4.0 | 17.1 |
| Loras College | 2010 | 5,987 | 4.0 | 6.0 |
| Mercyhurst College | 2007 | 13,047 | 4.0 | 9.6 |
| Minot State University | 2010 | 11,209 | 4.0 | 10.9 |
| Montgomery County Community College | 2008 | 22,138 | 4.0 | 31.4 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| Tompkins Cortland Community College | 2010 | 5,933 | 4.0 | 15.7 |
| College of Menominee Nation | 2007 | 2,060 | 4.1 | 19.2 |
| Monterey Institute of International Studies | 2008 | 3,261 | 4.1 | 25.0 |
| School of the Art Institute of Chicago | 2009 | 12,288 | 4.1 | 11.1 |
| The Community College of Baltimore County | 2008 | 64,309 | 4.1 | 45.3 |
| University of Wisconsin-Oshkosh | 2008 | 42,078 | 4.1 | 14.7 |
| University of Wisconsin-Stevens Point | 2007 | 34,361 | 4.1 | 13.0 |
| Governors State University | 2009 | 17,850 | 4.2 | 32.1 |
| Greenfield Community College | 2007 | 7,543 | 4.2 | 28.1 |
| State University of New York at Binghamton | 2008 | 61,062 | 4.2 | 11.4 |
| University of South Carolina Union | 2008 | 1,128 | 4.2 | 21.0 |
| Central Connecticut State University | 2009 | 42,313 | 4.3 | 12.8 |
| Fort Lewis College | 2007 | 15,329 | 4.3 | 14.1 |
| Jackson Community College | 2009 | 20,259 | 4.3 | 32.4 |
| Keystone College | 2007 | 6,621 | 4.3 | 20.9 |
| Pitzer College | 2009 | 4,438 | 4.3 | 12.1 |
| Roger Williams University | 2008 | 20,791 | 4.3 | 15.3 |
| Scottsdale Community College | 2008 | 26,981 | 4.3 | 51.4 |
| Seattle University | 2009 | 23,787 | 4.3 | 10.7 |
| State University of New York College at Oswego | 2008 | 30,869 | 4.3 | 9.0 |
| University of Missouri - Saint Louis | 2009 | 38,188 | 4.3 | 17.6 |
| University of Wisconsin-Stout | 2009 | 38,027 | 4.3 | 15.4 |
| Bunker Hill Community College | 2007 | 6,531 | 4.4 | 14.9 |
| Butte College | 2006 | 12,812 | 4.4 | 31.0 |
| Coppin State University | 2008 | 16,268 | 4.4 | 16.9 |
| Fitchburg State College | 2007 | 20,985 | 4.4 | 15.7 |
| Keene State College | 2007 | 21,359 | 4.4 | 13.4 |
| Lewis & Clark College | 2006 | 17,123 | 4.4 | 13.7 |
| Vermilion Community College | 2007 | 2,855 | 4.4 | 14.4 |
| Westminster College-Utah | 2008 | 11,443 | 4.4 | 15.4 |
| Castleton State College | 2008 | 8,657 | 4.5 | 14.3 |
| Cedar Valley College | 2007 | 13,459 | 4.5 | 38.6 |
| Drury University | 2009 | 15,359 | 4.5 | 13.9 |
| George Mason University | 2007 | 103,066 | 4.5 | 22.0 |
| Linfield College | 2007 | 7,774 | 4.5 | 7.9 |
| Loyola Marymount University | 2008 | 32,624 | 4.5 | 11.7 |
| Mills College | 2008 | 6,368 | 4.5 | 6.5 |
| Springfield College | 2008 | 17,223 | 4.5 | 13.4 |
| Wilson College | 2008 | 3,418 | 4.5 | 6.2 |
| Arizona State University | 2008 | 293,248 | 4.6 | 23.7 |
| Austin Community College District | 2009 | 41,710 | 4.6 | 30.8 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| Bemidji State University | 2009 | 19,786 | 4.6 | 12.0 |
| Bentley University | 2009 | 22,963 | 4.6 | 13.5 |
| North Arkansas College | 2009 | 10,629 | 4.6 | 45.2 |
| Northern Arizona University | 2008 | 78,858 | 4.6 | 15.4 |
| Northern Kentucky University | 2008 | 69,272 | 4.6 | 22.2 |
| Simmons College | 2008 | 16,227 | 4.6 | 17.3 |
| Virginia Commonwealth University | 2009 | 131,253 | 4.6 | 19.2 |
| Appalachian State University | 2009 | 74,325 | 4.7 | 14.6 |
| Drake University | 2008 | 19,665 | 4.7 | 10.6 |
| Goucher College | 2009 | 8,822 | 4.7 | 9.9 |
| Inver Hills Community College | 2009 | 17,308 | 4.7 | 59.7 |
| Kennesaw State University | 2008 | 96,097 | 4.7 | 78.1 |
| University of Washington Seattle | 2007 | 181,615 | 4.7 | 8.4 |
| Massachusetts College of Liberal Arts | 2007 | 8,779 | 4.8 | 13.1 |
| The Richard Stockton College of New Jersey | 2008 | 27,792 | 4.8 | 33.1 |
| University of Memphis | 2009 | 75,821 | 4.8 | 12.9 |
| Ursinus College | 2008 | 7,460 | 4.8 | 6.4 |
| Eastern Connecticut State University | 2008 | 25,288 | 4.9 | 12.7 |
| Hampshire College | 2007 | 6,621 | 4.9 | 8.3 |
| Hocking Technical College | 2009 | 19,988 | 4.9 | 35.1 |
| Saint Xavier University | 2007 | 21,175 | 4.9 | 26.9 |
| State University of New York College of Environmental Science and Forestry | 2007 | 10,948 | 4.9 | 10.4 |
| University of Wisconsin-River Falls | 2007 | 30,927 | 4.9 | 15.3 |
| American University | 2009 | 52,433 | 5.0 | 15.7 |
| James Madison University | 2008 | 85,835 | 5.0 | 17.0 |
| University of Alaska Anchorage | 2008 | 44,228 | 5.0 | 26.5 |
| University of Massachusetts Amherst | 2008 | 128,848 | 5.0 | 12.5 |
| University of Massachusetts Dartmouth | 2008 | 39,113 | 5.0 | 16.8 |
| University of Minnesota-Duluth | 2007 | 56,465 | 5.0 | 18.3 |
| University of Wisconsin-Whitewater | 2009 | 51,338 | 5.0 | 20.2 |
| Western State College of Colorado | 2008 | 10,873 | 5.0 | 12.4 |
| Framingham State College | 2010 | 30,690 | 5.1 | 30.6 |
| State University of New York at Fredonia | 2009 | 24,818 | 5.1 | 12.2 |
| Eastern Washington University | 2009 | 47,611 | 5.2 | 18.4 |
| State University of New York at Buffalo | 2007 | 145,152 | 5.2 | 14.2 |
| University of Nevada, Reno | 2007 | 85,927 | 5.2 | 18.7 |
| University of North Texas | 2009 | 123,927 | 5.2 | 20.2 |
| Bridgewater State College | 2008 | 41,160 | 5.3 | 24.5 |
| Dickinson College | 2008 | 12,456 | 5.3 | 6.4 |
| Ithaca College | 2009 | 36,338 | 5.3 | 14.5 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| Rider University | 2007 | 25,233 | 5.3 | 18.5 |
| Wilkes University | 2008 | 19,235 | 5.3 | 14.2 |
| Bowie State University | 2007 | 24,907 | 5.4 | 20.9 |
| Lake Michigan College | 2009 | 12,723 | 5.4 | 22.7 |
| Oregon State University | 2009 | 98,853 | 5.4 | 14.1 |
| State University of New York College at Geneseo | 2008 | 28,506 | 5.4 | 12.4 |
| University of California, Santa Cruz | 2007 | 79,838 | 5.4 | 14.4 |
| University of Louisville | 2008 | 92,789 | 5.4 | 13.3 |
| University of New Hampshire | 2007 | 74,053 | 5.4 | 12.4 |
| Wesley College | 2007 | 8,308 | 5.4 | 13.5 |
| Aquinas College | 2009 | 9,760 | 5.5 | 15.0 |
| California State University-Monterey Bay | 2007 | 22,348 | 5.5 | 16.2 |
| Lorain County Community College | 2009 | 37,300 | 5.5 | 37.2 |
| University of California, Riverside | 2007 | 96,548 | 5.5 | - |
| University of Colorado at Boulder | 2007 | 164,140 | 5.5 | 16.9 |
| University of Portland | 2007 | 17,772 | 5.5 | 14.9 |
| William Paterson University of New Jersey | 2008 | 41,902 | 5.5 | 22.2 |
| Babson College | 2008 | 19,383 | 5.6 | 11.4 |
| Lane Community College | 2008 | 61,521 | 5.6 | 55.1 |
| Lewis and Clark Community College | 2009 | 24,155 | 5.6 | 50.9 |
| Ramapo College of New Jersey | 2008 | 27,609 | 5.6 | 16.6 |
| State University of New York at Albany | 2008 | 86,775 | 5.6 | 18.3 |
| Towson University | 2007 | 85,769 | 5.6 | 19.8 |
| University of Hawai'i at Manoa | 2008 | 116,351 | 5.7 | 19.0 |
| University of Saint Thomas | 2009 | 71,275 | 5.7 | 21.8 |
| University of Vermont | 2009 | 68,991 | 5.7 | 13.9 |
| Washington State University, Tri-Cities | 2008 | 3,817 | 5.7 | 14.7 |
| Bates College | 2007 | 9,621 | 5.8 | 6.3 |
| Colgate University | 2009 | 16,262 | 5.8 | 7.0 |
| Huston-Tillotson University | 2008 | 3,927 | 5.8 | 16.1 |
| Rowan University | 2007 | 58,984 | 5.8 | 23.6 |
| University of Maine at Farmington | 2007 | 11,588 | 5.9 | 15.0 |
| Cape Cod Community College | 2008 | 14,575 | 6.0 | 42.0 |
| Chatham University | 2007 | 7,246 | 6.0 | 10.0 |
| Clark University | 2007 | 19,221 | 6.0 | 11.6 |
| Kankakee Community College | 2008 | 12,560 | 6.0 | 36.5 |
| University of Maine at Fort Kent | 2008 | 5,457 | 6.0 | 21.5 |
| Fairfield University | 2008 | 27,040 | 6.1 | 15.0 |
| Illinois State University | 2009 | 123,768 | 6.1 | 19.0 |
| New Mexico State University Main Campus | 2008 | 152,133 | 6.1 | 24.5 |
| Norfolk State University | 2009 | 42,886 | 6.1 | 23.1 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| University of California, Berkeley | 2008 | 209,989 | 6.1 | 13.1 |
| University of Maine | 2008 | 71,134 | 6.1 | 16.4 |
| Augsburg College | 2008 | 21,669 | 6.2 | 20.7 |
| George Washington University | 2009 | 124,429 | 6.2 | 15.7 |
| Massachusetts College of Art & Design | 2008 | 10,226 | 6.2 | 12.8 |
| Florida International University | 2008 | 239,661 | 6.3 | 55.1 |
| Lakeshore Technical College | 2009 | 14,029 | 6.3 | 36.5 |
| University of California, Irvine | 2008 | 162,082 | 6.3 | 29.0 |
| Green Mountain College | 2009 | 4,826 | 6.4 | 11.7 |
| Mississippi State University | 2009 | 114,189 | 6.4 | 15.3 |
| Rosemont College | 2007 | 4,261 | 6.4 | 10.7 |
| Syracuse University | 2007 | 112,895 | 6.4 | 14.6 |
| University of Wisconsin-Green Bay | 2008 | 32,146 | 6.4 | 18.8 |
| Western Technical College | 2008 | 24,177 | 6.4 | 34.8 |
| Frostburg State University | 2007 | 30,088 | 6.5 | 21.0 |
| Stetson University | 2010 | 20,264 | 6.5 | 13.1 |
| University of South Florida | 2009 | 257,566 | 6.5 | 42.2 |
| University of Tennessee at Chattanooga | 2009 | 54,563 | 6.5 | 21.5 |
| The College of New Jersey | 2008 | 39,927 | 6.6 | 12.2 |
| Central College | 2008 | 10,351 | 6.7 | 11.2 |
| Guilford College | 2007 | 14,524 | 6.7 | 18.3 |
| University of Denver | 2007 | 64,190 | 6.7 | 13.7 |
| Saint Norbert College | 2008 | 13,849 | 6.8 | 11.1 |
| Utah State University | 2009 | 128,955 | 6.8 | 18.5 |
| Lansing Community College | 2008 | 82,300 | 6.9 | 59.6 |
| Willamette University | 2008 | 17,934 | 6.9 | 12.8 |
| University of Arizona | 2009 | 250,586 | 7.0 | 27.5 |
| Juniata College | 2008 | 10,372 | 7.1 | 11.8 |
| Luther College | 2009 | 17,109 | 7.1 | 11.6 |
| Montana State University - Bozeman | 2009 | 77,377 | 7.1 | 18.8 |
| Rochester Institute of Technology | 2009 | 85,637 | 7.1 | 17.2 |
| University of Minnesota-Morris | 2007 | 11,910 | 7.1 | 12.9 |
| Northland College | 2009 | 4,017 | 7.2 | 9.3 |
| Xavier University | 2008 | 36,069 | 7.2 | 20.4 |
| El Centro College | 2009 | 17,927 | 7.3 | 26.5 |
| Gettysburg College | 2007 | 19,088 | 7.3 | 12.2 |
| State University of New York College at Potsdam | 2010 | 32,316 | 7.3 | 14.4 |
| Life University | 2008 | 13,930 | 7.4 | 33.1 |
| Mount Mercy College | 2008 | 8,988 | 7.5 | 21.7 |
| Southwestern College - Kansas | 2008 | 6,024 | 7.5 | 14.8 |
| University of Maine at Machias | 2008 | 4,328 | 7.5 | 16.4 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO ₂ E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|------------------------------|---|
| University of Rhode Island | 2009 | 99,293 | 7.5 | 22.2 |
| Brandeis University | 2008 | 38,370 | 7.6 | 15.1 |
| New Mexico State University at Carlsbad | 2008 | 5,815 | 7.6 | 40.9 |
| Saint Peter's College | 2009 | 23,520 | 7.6 | 18.4 |
| Temple University | 2009 | 227,993 | 7.6 | 24.9 |
| University of Maryland Baltimore County | 2009 | 82,346 | 7.6 | 25.7 |
| University of South Carolina Columbia | 2007 | 166,872 | 7.6 | 15.4 |
| St. Mary's College of Maryland | 2008 | 14,213 | 7.7 | 17.3 |
| Bard College | 2009 | 14,715 | 7.8 | 13.1 |
| Colby-Sawyer College | 2009 | 7,804 | 7.8 | 13.4 |
| Hobart and William Smith Colleges | 2007 | 15,589 | 7.8 | 10.8 |
| Manchester Community College (NH) | 2009 | 12,398 | 7.8 | 67.0 |
| Clemson University | 2007 | 139,080 | 7.9 | 20.8 |
| Eckerd College | 2008 | 22,698 | 7.9 | 28.0 |
| University of Mississippi | 2008 | 93,827 | 7.9 | 21.1 |
| Whitworth University | 2007 | 16,560 | 7.9 | 22.6 |
| LaGrange College | 2008 | 7,987 | 8.0 | 14.5 |
| Mount Union College | 2008 | 16,883 | 8.0 | 15.8 |
| Allegheny College | 2007 | 17,709 | 8.2 | 14.8 |
| North Carolina State University | 2008 | 269,486 | 8.2 | 18.0 |
| College of the Holy Cross | 2007 | 23,211 | 8.3 | 11.4 |
| University of Pittsburgh – mandatory sources only | 2008 | 204,200 | 8.3 | 21.7 |
| Pine Manor College | 2008 | 3,861 | 8.4 | 4.5 |
| McDaniel College | 2008 | 20,678 | 8.5 | 19.7 |
| St. Lawrence University | 2008 | 18,715 | 8.5 | 8.7 |
| University of Maryland Eastern Shore | 2009 | 30,352 | 8.5 | 16.9 |
| University of New Mexico Main Campus | 2006 | 174,387 | 8.5 | 26.3 |
| Franklin College of Indiana | 2008 | 8,691 | 8.6 | 17.5 |
| Messiah College | 2008 | 24,133 | 8.6 | 18.0 |
| Washington State University Pullman | 2009 | 139,482 | 8.6 | 11.1 |
| Auburn University | 2008 | 212,259 | 8.7 | 28.0 |
| Emory & Henry College | 2009 | 8,489 | 8.7 | 14.4 |
| University of Delaware | 2009 | 152,542 | 8.7 | 29.1 |
| Colorado State University | 2009 | 223,466 | 8.9 | 21.5 |
| Harvey Mudd College | 2008 | 6,535 | 8.9 | 10.6 |
| Morgan State University | 2009 | 53,267 | 8.9 | 16.2 |
| University of Southern Mississippi | 2008 | 114,677 | 9.1 | 25.4 |
| Smith College | 2009 | 27,216 | 9.2 | 9.4 |
| Trinity College | 2009 | 20,495 | 9.2 | 10.8 |
| University of Florida | 2006 | 432,123 | 9.2 | 24.8 |
| Indiana State University | 2008 | 98,066 | 9.3 | 22.6 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| Wells College | 2009 | 5,436 | 9.3 | 8.5 |
| Rutgers University | 2008 | 309,060 | 9.4 | 16.7 |
| University of Tennessee, Knoxville | 2009 | 243,728 | 9.4 | 16.5 |
| Washington & Jefferson College | 2008 | 14,046 | 9.4 | 14.0 |
| Bryn Mawr College | 2009 | 15,658 | 9.5 | 11.7 |
| Colby College | 2008 | 17,629 | 9.5 | 12.2 |
| University of California, Los Angeles | 2007 | 338,718 | 9.5 | 12.1 |
| Kalamazoo College | 2008 | 12,510 | 9.7 | 15.5 |
| University of Oklahoma Norman Campus | 2008 | 253,789 | 9.7 | 25.7 |
| Haverford College | 2008 | 11,412 | 9.8 | 7.7 |
| Jamestown Community College | 2008 | 38,379 | 9.9 | 53.3 |
| University of California, Merced | 2007 | 15,873 | 9.9 | 16.4 |
| University of California, San Diego | 2007 | 273,763 | 9.9 | 17.3 |
| Bowdoin College | 2008 | 17,166 | 10.0 | 8.8 |
| Drew University | 2009 | 19,782 | 10.0 | 15.4 |
| Union College | 2008 | 21,349 | 10.0 | 11.1 |
| Gustavus Adolphus College | 2008 | 25,239 | 10.1 | 16.4 |
| Community College of Denver | 2008 | 48,481 | 10.2 | 23.0 |
| Ohio University | 2009 | 211,266 | 10.2 | 27.0 |
| University of Richmond | 2008 | 36,247 | 10.2 | 14.8 |
| Franklin & Marshall College | 2007 | 20,710 | 10.3 | 14.7 |
| Hiram College | 2009 | 10,067 | 10.3 | 12.7 |
| Coe College | 2008 | 12,044 | 10.4 | 14.0 |
| Sewanee: The University of the South | 2008 | 16,161 | 10.4 | 12.3 |
| College of Saint Benedict | 2008 | 21,823 | 10.5 | 17.8 |
| Pennsylvania State University | 2008 | 455,069 | 10.5 | 22.5 |
| Purchase College, State University of New York | 2007 | 38,011 | 10.5 | 15.6 |
| Wesleyan College | 2008 | 7,224 | 10.5 | 13.4 |
| Rice University | 2009 | 53,084 | 10.6 | 14.0 |
| Wofford College | 2008 | 13,899 | 10.6 | 15.9 |
| Goshen College | 2009 | 9,508 | 10.7 | 12.0 |
| Texas Christian University | 2009 | 88,882 | 10.7 | 25.4 |
| University of Colorado Denver | 2007 | 164,408 | 10.7 | 29.2 |
| Carleton College | 2007 | 21,533 | 10.8 | 11.9 |
| University of Connecticut | 2007 | 201,770 | 10.8 | 18.9 |
| University of Maryland College Park | 2007 | 351,144 | 10.8 | 27.7 |
| Austin College | 2009 | 13,965 | 10.9 | 18.0 |
| University of Minnesota-Crookston | 2009 | 12,494 | 10.9 | 16.1 |
| University of Wyoming | 2008 | 133,909 | 10.9 | 18.6 |
| Missouri University of Science & Technology | 2009 | 67,968 | 11.0 | 26.8 |
| University of Illinois at Chicago | 2008 | 270,682 | 11.0 | 18.4 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO ₂ E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|------------------------------|---|
| University of North Dakota | 2009 | 138,633 | 11.0 | 26.0 |
| University of Pittsburgh – all accountable sources | 2008 | 273,400 | 11.0 | 29.1 |
| New College of Florida | 2008 | 8,489 | 11.1 | 14.4 |
| Wesleyan University | 2009 | 32,411 | 11.1 | 11.2 |
| Hamilton College | 2009 | 20,617 | 11.2 | 11.0 |
| Simpson College | 2009 | 22,680 | 11.2 | 28.0 |
| Rhodes College | 2008 | 18,812 | 11.3 | 17.7 |
| Bucknell University | 2008 | 40,554 | 11.4 | 15.3 |
| Rose-Hulman Institute of Technology | 2007 | 22,213 | 11.5 | 20.7 |
| Ball State University | 2008 | 192,873 | 11.6 | 28.6 |
| University of Arkansas Main Campus | 2009 | 169,610 | 11.9 | 22.4 |
| Middlebury College | 2007 | 29,882 | 12.0 | 12.0 |
| Washington and Lee University | 2007 | 26,452 | 12.1 | 12.8 |
| Albion College | 2008 | 23,795 | 12.3 | 16.0 |
| The Ohio State University Main Campus | 2009 | 661,037 | 12.3 | 29.3 |
| University of Illinois at Urbana-Champaign | 2008 | 522,757 | 12.4 | 26.0 |
| Mount St. Mary's University | 2007 | 20,079 | 12.6 | 20.3 |
| University of Minnesota-Twin Cities | 2008 | 642,735 | 12.6 | 29.8 |
| University of Pennsylvania | 2008 | 250,555 | 12.6 | 21.0 |
| Washington College | 2007 | 16,153 | 12.9 | 21.2 |
| Trinity University | 2007 | 32,405 | 13.2 | 14.1 |
| University of California, Davis | 2007 | 384,306 | 13.2 | 25.2 |
| University of Utah | 2007 | 327,050 | 13.3 | 28.5 |
| Furman University | 2008 | 35,978 | 13.4 | 17.6 |
| Illinois College | 2008 | 12,240 | 13.6 | 17.7 |
| Davidson College | 2008 | 23,387 | 14.0 | 14.9 |
| Villanova University | 2009 | 91,235 | 14.0 | 27.9 |
| Colorado College | 2009 | 28,441 | 14.1 | 15.3 |
| Macalester College | 2008 | 26,672 | 14.1 | 21.1 |
| University of Cincinnati | 2008 | 371,295 | 14.1 | 30.9 |
| Tulane University | 2008 | 144,591 | 14.3 | 20.5 |
| Centre College | 2008 | 17,079 | 14.4 | 18.1 |
| South Dakota School of Mines and Technology | 2008 | 25,105 | 14.5 | 37.2 |
| Oberlin College | 2007 | 40,442 | 14.7 | 15.3 |
| State University of New York at Stony Brook | 2008 | 322,577 | 14.7 | 31.5 |
| Agnes Scott College | 2009 | 11,864 | 15.0 | 14.0 |
| Park University | 2008 | 19,145 | 15.2 | 37.1 |
| Hollins University | 2007 | 16,231 | 15.3 | 19.1 |
| Concordia University, Nebraska | 2010 | 20,707 | 15.4 | 24.6 |
| Cornell University | 2008 | 308,000 | 15.6 | 20.7 |
| Randolph College | 2008 | 10,276 | 15.6 | 14.7 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO ₂ E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|------------------------------|---|
| University of Missouri - Columbia | 2009 | 485,931 | 16.1 | 29.5 |
| Georgia Institute of Technology | 2009 | 329,853 | 16.3 | 22.8 |
| University of Miami | 2007 | 243,065 | 16.4 | 23.1 |
| Sweet Briar College | 2008 | 11,041 | 16.5 | 18.5 |
| DePauw University | 2009 | 38,639 | 16.8 | 21.2 |
| University of Michigan | 2008 | 687,000 | 16.8 | 22.1 |
| Yeshiva University | 2009 | 98,526 | 17.1 | 27.3 |
| Adams State College | 2008 | 15,988 | 17.8 | 17.9 |
| Finger Lakes Community College | 2008 | 32,481 | 18.1 | 64.3 |
| Carnegie Mellon University | 2007 | 163,680 | 18.2 | 34.6 |
| Claremont McKenna College | 2008 | 19,839 | 18.2 | 29.2 |
| Pomona College | 2009 | 28,083 | 18.3 | 18.1 |
| Houston Community College | 2008 | 1,176,705 | 19.2 | 374.9 |
| Catawba College | 2008 | 24,673 | 19.4 | 10.4 |
| Virginia Wesleyan College | 2008 | 21,172 | 20.0 | 38.1 |
| Berry College | 2008 | 34,062 | 20.3 | 26.3 |
| Yale University | 2008 | 242,500 | 21.3 | 20.0 |
| University of North Carolina at Chapel Hill | 2008 | 569,169 | 21.6 | 30.8 |
| Maharishi University of Management | 2008 | 9,551 | 22.1 | 9.7 |
| Saint John's University | 2008 | 47,376 | 22.8 | 25.3 |
| University of Maryland Baltimore | 2008 | 160,783 | 24.1 | 27.5 |
| Gateway Community College | 2007 | 88,884 | 24.2 | 295.2 |
| Case Western Reserve University | 2009 | 263,217 | 28.8 | 34.0 |
| Duke University | 2007 | 425,960 | 32.8 | 30.7 |
| Vanderbilt University | 2007 | 487,000 | 42.5 | 35.0 |
| State University of New York Upstate Medical University | 2010 | 74,199 | 50.2 | 38.9 |
| Medical University of South Carolina | 2007 | 174,184 | 54.8 | 30.3 |
| University of California, San Francisco | 2007 | 180,738 | 61.2 | 25.2 |
| University of Massachusetts Medical School | 2008 | 97,942 | 141.9 | 52.2 |
| University of Maryland Center for Environmental Science | 2008 | 12,480 | 198.1 | 33.2 |

Table 9. List of higher educational institutions that have reported their GHG emissions, ranked according to emissions per gross building space [19-27]

| Institution | Year | Net emissions, MT CO ₂ E | MT CO ₂ E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|------------------------------|---|
| Berea College | 2008 | -2,374 | -1.5 | -1.7 |
| College of the Atlantic | 2009 | 0 | 0.0 | 0.0 |
| Iowa Lakes Community College | 2008 | 7,396 | 3.2 | 0.7 |
| Naropa University | 2009 | 509 | 0.5 | 3.3 |
| The New School | 2009 | 3,774 | 0.4 | 3.7 |
| Southern Oregon University | 2008 | 6,036 | 1.6 | 3.8 |
| University of Minnesota-Rochester | 2009 | 225 | 0.6 | 4.0 |
| Warren Wilson College | 2007 | 2,758 | 3.3 | 4.1 |
| School for International Training | 2008 | 538 | 2.4 | 4.3 |
| Mount Wachusett Community College | 2010 | 3,995 | 0.8 | 4.4 |
| Pine Manor College | 2008 | 3,861 | 8.4 | 4.5 |
| Connecticut College | 2008 | 6,612 | 3.9 | 4.6 |
| Durham Technical Community College | 2008 | 2,452 | 0.5 | 5.0 |
| Seattle Pacific University | 2009 | 6,219 | 1.7 | 5.6 |
| Unity College | 2008 | 841 | 1.6 | 5.6 |
| Loras College | 2010 | 5,987 | 4.0 | 6.0 |
| Pacific Lutheran University | 2008 | 7,856 | 2.2 | 6.0 |
| University of Washington Tacoma | 2007 | 3,747 | 1.6 | 6.2 |
| Wilson College | 2008 | 3,418 | 4.5 | 6.2 |
| Bates College | 2007 | 9,621 | 5.8 | 6.3 |
| Dickinson College | 2008 | 12,456 | 5.3 | 6.4 |
| Ursinus College | 2008 | 7,460 | 4.8 | 6.4 |
| Mills College | 2008 | 6,368 | 4.5 | 6.5 |
| Wheelock College | 2008 | 2,274 | 2.6 | 6.5 |
| Central Washington University | 2007 | 20,133 | 2.7 | 6.7 |
| The Evergreen State College | 2008 | 10,858 | 2.8 | 6.7 |
| University of Oregon | 2008 | 43,762 | 2.5 | 6.9 |
| Colgate University | 2009 | 16,262 | 5.8 | 7.0 |
| Western Washington University | 2007 | 23,023 | 1.8 | 7.4 |
| Point Loma Nazarene University | 2008 | 6,074 | 2.6 | 7.5 |
| Penn State Berks | 2008 | 2,829 | 1.1 | 7.6 |
| Haverford College | 2008 | 11,412 | 9.8 | 7.7 |
| Linfield College | 2007 | 7,774 | 4.5 | 7.9 |
| Pasadena City College | 2010 | 8,291 | 0.4 | 7.9 |
| Western Connecticut State University | 2008 | 18,357 | 3.5 | 8.0 |
| University of South Carolina Salkehatchie | 2009 | 918 | 1.7 | 8.1 |
| Hampshire College | 2007 | 6,621 | 4.9 | 8.3 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| University of Maine at Augusta | 2008 | 2,917 | 0.5 | 8.3 |
| Washington State University, Vancouver | 2008 | 3,180 | 2.2 | 8.3 |
| University of Washington Seattle | 2007 | 181,615 | 4.7 | 8.4 |
| Wells College | 2009 | 5,436 | 9.3 | 8.5 |
| Los Angeles Trade-Technical College | 2007 | 6,817 | 0.5 | 8.6 |
| St. Lawrence University | 2008 | 18,715 | 8.5 | 8.7 |
| Bowdoin College | 2008 | 17,166 | 10.0 | 8.8 |
| College of Saint Rose | 2008 | 7,264 | 1.4 | 8.8 |
| Confederation College | 2009 | 6,366 | 1.6 | 9.0 |
| State University of New York College at Oswego | 2008 | 30,869 | 4.3 | 9.0 |
| University of Southern Maine | 2009 | 22,428 | 2.1 | 9.0 |
| West Los Angeles College | 2007 | 4,302 | 0.5 | 9.0 |
| Portland State University | 2007 | 44,190 | 3.0 | 9.2 |
| Northland College | 2009 | 4,017 | 7.2 | 9.3 |
| Oregon Institute of Technology | 2008 | 5,732 | 2.4 | 9.3 |
| Smith College | 2009 | 27,216 | 9.2 | 9.4 |
| Emerson College | 2008 | 9,143 | 2.5 | 9.5 |
| Mercyhurst College | 2007 | 13,047 | 4.0 | 9.6 |
| University of South Carolina Sumter | 2009 | 2,251 | 2.6 | 9.6 |
| Los Angeles Southwest College | 2007 | 4,195 | 0.6 | 9.7 |
| Maharishi University of Management | 2008 | 9,551 | 22.1 | 9.7 |
| Manhattanville College | 2009 | 7,877 | 3.4 | 9.7 |
| Southern Connecticut State University | 2008 | 24,516 | 2.7 | 9.7 |
| University of Houston - Downtown | 2008 | 13,524 | 1.9 | 9.7 |
| Goucher College | 2009 | 8,822 | 4.7 | 9.9 |
| Chatham University | 2007 | 7,246 | 6.0 | 10.0 |
| California State University-Bakersfield | 2009 | 10,127 | 1.5 | 10.1 |
| Los Angeles Valley College | 2007 | 6,553 | 0.5 | 10.2 |
| University of Massachusetts Lowell | 2007 | 27,094 | 1.6 | 10.2 |
| St. Catherine University | 2010 | 12,744 | 2.8 | 10.3 |
| Wentworth Institute of Technology | 2008 | 12,048 | 3.3 | 10.3 |
| Catawba College | 2008 | 24,673 | 19.4 | 10.4 |
| Franklin Pierce University | 2007 | 6,826 | 4.0 | 10.4 |
| State University of New York College of Environmental Science and Forestry | 2007 | 10,948 | 4.9 | 10.4 |
| Drake University | 2008 | 19,665 | 4.7 | 10.6 |
| Harvey Mudd College | 2008 | 6,535 | 8.9 | 10.6 |
| Rosemont College | 2007 | 4,261 | 6.4 | 10.7 |
| Seattle University | 2009 | 23,787 | 4.3 | 10.7 |
| University of Idaho | 2007 | 39,594 | 3.6 | 10.7 |
| Hobart and William Smith Colleges | 2007 | 15,589 | 7.8 | 10.8 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| State University of New York at New Paltz | 2009 | 23,554 | 3.7 | 10.8 |
| Trinity College | 2009 | 20,495 | 9.2 | 10.8 |
| Worcester State College | 2008 | 12,210 | 2.7 | 10.8 |
| Goddard College | 2006 | 1,637 | 2.4 | 10.9 |
| Manchester Community College (CT) | 2007 | 4,463 | 0.6 | 10.9 |
| Minot State University | 2010 | 11,209 | 4.0 | 10.9 |
| Northeastern University | 2009 | 63,822 | 2.9 | 10.9 |
| Pratt Institute | 2008 | 16,148 | 3.6 | 10.9 |
| Hamilton College | 2009 | 20,617 | 11.2 | 11.0 |
| University of Massachusetts Boston | 2008 | 27,173 | 3.1 | 11.0 |
| Saint Norbert College | 2008 | 13,849 | 6.8 | 11.1 |
| School of the Art Institute of Chicago | 2009 | 12,288 | 4.1 | 11.1 |
| The University of Montana - Missoula | 2007 | 42,687 | 3.8 | 11.1 |
| Union College | 2008 | 21,349 | 10.0 | 11.1 |
| Washington State University Pullman | 2009 | 139,482 | 8.6 | 11.1 |
| Central College | 2008 | 10,351 | 6.7 | 11.2 |
| Wesleyan University | 2009 | 32,411 | 11.1 | 11.2 |
| Babson College | 2008 | 19,383 | 5.6 | 11.4 |
| College of the Holy Cross | 2007 | 23,211 | 8.3 | 11.4 |
| State University of New York at Binghamton | 2008 | 61,062 | 4.2 | 11.4 |
| University of Redlands | 2008 | 12,753 | 3.1 | 11.4 |
| New York University | 2009 | 136,486 | 3.3 | 11.5 |
| Clark University | 2007 | 19,221 | 6.0 | 11.6 |
| Holyoke Community College | 2008 | 10,733 | 2.4 | 11.6 |
| Luther College | 2009 | 17,109 | 7.1 | 11.6 |
| Southern Polytechnic State University | 2008 | 13,399 | 3.2 | 11.6 |
| Bryn Mawr College | 2009 | 15,658 | 9.5 | 11.7 |
| Green Mountain College | 2009 | 4,826 | 6.4 | 11.7 |
| Loyola Marymount University | 2008 | 32,624 | 4.5 | 11.7 |
| The University of Montana - Western | 2008 | 4,265 | 3.9 | 11.7 |
| Juniata College | 2008 | 10,372 | 7.1 | 11.8 |
| Plymouth State University | 2007 | 16,693 | 3.6 | 11.8 |
| University of South Carolina Beaufort | 2008 | 4,264 | 1.8 | 11.8 |
| Carleton College | 2007 | 21,533 | 10.8 | 11.9 |
| Bemidji State University | 2009 | 19,786 | 4.6 | 12.0 |
| Goshen College | 2009 | 9,508 | 10.7 | 12.0 |
| Marymount Manhattan College | 2010 | 4,093 | 2.3 | 12.0 |
| Middlebury College | 2007 | 29,882 | 12.0 | 12.0 |
| Peninsula College | 2009 | 2,949 | 1.7 | 12.1 |
| Pitzer College | 2009 | 4,438 | 4.3 | 12.1 |
| Santa Clara University | 2009 | 24,597 | 3.2 | 12.1 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| University of California, Los Angeles | 2007 | 338,718 | 9.5 | 12.1 |
| University of Toledo - Main Campus | 2010 | 82,360 | 3.3 | 12.1 |
| Colby College | 2008 | 17,629 | 9.5 | 12.2 |
| Gettysburg College | 2007 | 19,088 | 7.3 | 12.2 |
| Los Angeles Harbor College | 2007 | 4,706 | 0.7 | 12.2 |
| State University of New York at Fredonia | 2009 | 24,818 | 5.1 | 12.2 |
| The College of New Jersey | 2008 | 39,927 | 6.6 | 12.2 |
| Winona State University | 2007 | 22,097 | 2.8 | 12.2 |
| Sewanee: The University of the South | 2008 | 16,161 | 10.4 | 12.3 |
| State University of New York College at Geneseo | 2008 | 28,506 | 5.4 | 12.4 |
| The City College of New York | 2008 | 37,192 | 3.6 | 12.4 |
| University of New Hampshire | 2007 | 74,053 | 5.4 | 12.4 |
| Western State College of Colorado | 2008 | 10,873 | 5.0 | 12.4 |
| Drexel University | 2008 | 41,369 | 3.3 | 12.5 |
| Los Angeles City College | 2007 | 10,958 | 0.7 | 12.5 |
| University of Massachusetts Amherst | 2008 | 128,848 | 5.0 | 12.5 |
| University of Missouri - Kansas City | 2009 | 30,820 | 3.2 | 12.5 |
| Golden West College | 2008 | 7,195 | 0.6 | 12.6 |
| Lasell College | 2009 | 5,680 | 3.9 | 12.6 |
| Carteret Community College | 2009 | 2,615 | 1.7 | 12.7 |
| Eastern Connecticut State University | 2008 | 25,288 | 4.9 | 12.7 |
| Hiram College | 2009 | 10,067 | 10.3 | 12.7 |
| University of South Carolina Upstate | 2009 | 11,805 | 2.6 | 12.7 |
| Central Connecticut State University | 2009 | 42,313 | 4.3 | 12.8 |
| Everett Community College | 2009 | 9,569 | 0.8 | 12.8 |
| Massachusetts College of Art & Design | 2008 | 10,226 | 6.2 | 12.8 |
| SUNY Rockland Community College | 2008 | 8,958 | 3.7 | 12.8 |
| Washington and Lee University | 2007 | 26,452 | 12.1 | 12.8 |
| Willamette University | 2008 | 17,934 | 6.9 | 12.8 |
| University of Memphis | 2009 | 75,821 | 4.8 | 12.9 |
| University of Minnesota-Morris | 2007 | 11,910 | 7.1 | 12.9 |
| University of Wisconsin-Stevens Point | 2007 | 34,361 | 4.1 | 13.0 |
| Bard College | 2009 | 14,715 | 7.8 | 13.1 |
| Massachusetts College of Liberal Arts | 2007 | 8,779 | 4.8 | 13.1 |
| Stetson University | 2010 | 20,264 | 6.5 | 13.1 |
| University of California, Berkeley | 2008 | 209,989 | 6.1 | 13.1 |
| University of California, Santa Barbara | 2009 | 83,980 | 3.8 | 13.1 |
| Truckee Meadows Community College | 2009 | 8,337 | 1.2 | 13.2 |
| University of Louisville | 2008 | 92,789 | 5.4 | 13.3 |
| Colby-Sawyer College | 2009 | 7,804 | 7.8 | 13.4 |
| Keene State College | 2007 | 21,359 | 4.4 | 13.4 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| Springfield College | 2008 | 17,223 | 4.5 | 13.4 |
| Wesleyan College | 2008 | 7,224 | 10.5 | 13.4 |
| Bentley University | 2009 | 22,963 | 4.6 | 13.5 |
| Wesley College | 2007 | 8,308 | 5.4 | 13.5 |
| University of South Carolina Aiken | 2008 | 10,479 | 3.2 | 13.6 |
| Lewis & Clark College | 2006 | 17,123 | 4.4 | 13.7 |
| University of Denver | 2007 | 64,190 | 6.7 | 13.7 |
| University of New England | 2009 | 14,255 | 3.6 | 13.8 |
| Drury University | 2009 | 15,359 | 4.5 | 13.9 |
| University of Vermont | 2009 | 68,991 | 5.7 | 13.9 |
| Agnes Scott College | 2009 | 11,864 | 15.0 | 14.0 |
| Coe College | 2008 | 12,044 | 10.4 | 14.0 |
| Rice University | 2009 | 53,084 | 10.6 | 14.0 |
| Washington & Jefferson College | 2008 | 14,046 | 9.4 | 14.0 |
| Fort Lewis College | 2007 | 15,329 | 4.3 | 14.1 |
| Oregon State University | 2009 | 98,853 | 5.4 | 14.1 |
| Trinity University | 2007 | 32,405 | 13.2 | 14.1 |
| State University of New York at Buffalo | 2007 | 145,152 | 5.2 | 14.2 |
| Wilkes University | 2008 | 19,235 | 5.3 | 14.2 |
| California State University-Chico | 2006 | 35,803 | 2.4 | 14.3 |
| Castleton State College | 2008 | 8,657 | 4.5 | 14.3 |
| Emory & Henry College | 2009 | 8,489 | 8.7 | 14.4 |
| Florida Gulf Coast University | 2008 | 29,691 | 4.0 | 14.4 |
| New College of Florida | 2008 | 8,489 | 11.1 | 14.4 |
| State University of New York College at Potsdam | 2010 | 32,316 | 7.3 | 14.4 |
| University of California, Santa Cruz | 2007 | 79,838 | 5.4 | 14.4 |
| Vermilion Community College | 2007 | 2,855 | 4.4 | 14.4 |
| Ithaca College | 2009 | 36,338 | 5.3 | 14.5 |
| LaGrange College | 2008 | 7,987 | 8.0 | 14.5 |
| Appalachian State University | 2009 | 74,325 | 4.7 | 14.6 |
| Black Hills State University | 2008 | 10,698 | 3.6 | 14.6 |
| Minnesota State Community and Technical College | 2009 | 13,168 | 3.1 | 14.6 |
| Syracuse University | 2007 | 112,895 | 6.4 | 14.6 |
| Franklin & Marshall College | 2007 | 20,710 | 10.3 | 14.7 |
| Randolph College | 2008 | 10,276 | 15.6 | 14.7 |
| State University of New York Empire State College | 2009 | 4,693 | 0.5 | 14.7 |
| University of Wisconsin-Oshkosh | 2008 | 42,078 | 4.1 | 14.7 |
| Washington State University, Tri-Cities | 2008 | 3,817 | 5.7 | 14.7 |
| Allegheny College | 2007 | 17,709 | 8.2 | 14.8 |
| Cascadia Community College | 2009 | 4,550 | 2.3 | 14.8 |
| Florida Atlantic University | 2008 | 60,918 | 2.9 | 14.8 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| Southwestern College - Kansas | 2008 | 6,024 | 7.5 | 14.8 |
| University of Richmond | 2008 | 36,247 | 10.2 | 14.8 |
| Bunker Hill Community College | 2007 | 6,531 | 4.4 | 14.9 |
| Davidson College | 2008 | 23,387 | 14.0 | 14.9 |
| University of Houston - Victoria | 2008 | 2,358 | 3.1 | 14.9 |
| University of Portland | 2007 | 17,772 | 5.5 | 14.9 |
| Aquinas College | 2009 | 9,760 | 5.5 | 15.0 |
| Fairfield University | 2008 | 27,040 | 6.1 | 15.0 |
| University of Maine at Farmington | 2007 | 11,588 | 5.9 | 15.0 |
| Brandeis University | 2008 | 38,370 | 7.6 | 15.1 |
| San Francisco State University | 2008 | 55,409 | 1.9 | 15.2 |
| Bucknell University | 2008 | 40,554 | 11.4 | 15.3 |
| Colorado College | 2009 | 28,441 | 14.1 | 15.3 |
| Mississippi State University | 2009 | 114,189 | 6.4 | 15.3 |
| Oberlin College | 2007 | 40,442 | 14.7 | 15.3 |
| Roger Williams University | 2008 | 20,791 | 4.3 | 15.3 |
| University of Wisconsin-River Falls | 2007 | 30,927 | 4.9 | 15.3 |
| Drew University | 2009 | 19,782 | 10.0 | 15.4 |
| Northern Arizona University | 2008 | 78,858 | 4.6 | 15.4 |
| University of South Carolina Columbia | 2007 | 166,872 | 7.6 | 15.4 |
| University of Wisconsin-Stout | 2009 | 38,027 | 4.3 | 15.4 |
| Westminster College-Utah | 2008 | 11,443 | 4.4 | 15.4 |
| Anna Maria College | 2009 | 3,756 | 3.6 | 15.5 |
| Kalamazoo College | 2008 | 12,510 | 9.7 | 15.5 |
| Onondaga Community College | 2007 | 15,446 | 2.4 | 15.5 |
| University of Central Florida | 2008 | 137,729 | 2.8 | 15.5 |
| University of Nevada, Las Vegas | 2008 | 85,878 | 3.9 | 15.5 |
| Purchase College, State University of New York | 2007 | 38,011 | 10.5 | 15.6 |
| American University | 2009 | 52,433 | 5.0 | 15.7 |
| Fitchburg State College | 2007 | 20,985 | 4.4 | 15.7 |
| George Washington University | 2009 | 124,429 | 6.2 | 15.7 |
| Tompkins Cortland Community College | 2010 | 5,933 | 4.0 | 15.7 |
| Mount Union College | 2008 | 16,883 | 8.0 | 15.8 |
| Quinsigamond Community College | 2007 | 10,026 | 2.7 | 15.8 |
| Wofford College | 2008 | 13,899 | 10.6 | 15.9 |
| Albion College | 2008 | 23,795 | 12.3 | 16.0 |
| Georgian Court University | 2008 | 8,849 | 3.8 | 16.0 |
| Boise State University | 2008 | 49,884 | 3.5 | 16.1 |
| Huston-Tillotson University | 2008 | 3,927 | 5.8 | 16.1 |
| Orange Coast College | 2008 | 13,138 | 0.7 | 16.1 |
| University of Minnesota-Crookston | 2009 | 12,494 | 10.9 | 16.1 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| California State University-Monterey Bay | 2007 | 22,348 | 5.5 | 16.2 |
| Morgan State University | 2009 | 53,267 | 8.9 | 16.2 |
| Los Angeles Pierce College | 2007 | 10,571 | 0.7 | 16.3 |
| Gustavus Adolphus College | 2008 | 25,239 | 10.1 | 16.4 |
| University of California, Merced | 2007 | 15,873 | 9.9 | 16.4 |
| University of Maine | 2008 | 71,134 | 6.1 | 16.4 |
| University of Maine at Machias | 2008 | 4,328 | 7.5 | 16.4 |
| University of Tennessee, Knoxville | 2009 | 243,728 | 9.4 | 16.5 |
| McLennan Community College | 2009 | 9,932 | 0.8 | 16.6 |
| Minneapolis Community and Technical College | 2008 | 25,166 | 2.0 | 16.6 |
| Ramapo College of New Jersey | 2008 | 27,609 | 5.6 | 16.6 |
| Rutgers University | 2008 | 309,060 | 9.4 | 16.7 |
| University of Wisconsin-Eau Claire | 2008 | 41,110 | 3.8 | 16.7 |
| University of Massachusetts Dartmouth | 2008 | 39,113 | 5.0 | 16.8 |
| Berkshire Community College | 2008 | 4,234 | 2.7 | 16.9 |
| Coppin State University | 2008 | 16,268 | 4.4 | 16.9 |
| University of Colorado at Boulder | 2007 | 164,140 | 5.5 | 16.9 |
| University of Maryland Eastern Shore | 2009 | 30,352 | 8.5 | 16.9 |
| Cincinnati State Technical and Community College | 2008 | 22,324 | 2.7 | 17.0 |
| James Madison University | 2008 | 85,835 | 5.0 | 17.0 |
| Georgia Southern University | 2009 | 75,675 | 4.0 | 17.1 |
| Washington State University, Spokane | 2008 | 9,942 | 3.4 | 17.1 |
| Rochester Institute of Technology | 2009 | 85,637 | 7.1 | 17.2 |
| Salem State College | 2009 | 22,511 | 2.2 | 17.2 |
| Chabot College | 2009 | 11,048 | 1.0 | 17.3 |
| Simmons College | 2008 | 16,227 | 4.6 | 17.3 |
| St. Mary's College of Maryland | 2008 | 14,213 | 7.7 | 17.3 |
| University of California, San Diego | 2007 | 273,763 | 9.9 | 17.3 |
| University of Central Oklahoma | 2007 | 40,364 | 3.8 | 17.4 |
| Valdosta State University | 2008 | 36,420 | 3.5 | 17.4 |
| Franklin College of Indiana | 2008 | 8,691 | 8.6 | 17.5 |
| East Los Angeles College | 2007 | 12,085 | 0.5 | 17.6 |
| Furman University | 2008 | 35,978 | 13.4 | 17.6 |
| University of Missouri - Saint Louis | 2009 | 38,188 | 4.3 | 17.6 |
| University of Washington Bothell | 2007 | 5,215 | 3.0 | 17.6 |
| California State Polytechnic University-Pomona | 2006 | 64,203 | 3.9 | 17.7 |
| Illinois College | 2008 | 12,240 | 13.6 | 17.7 |
| Rhodes College | 2008 | 18,812 | 11.3 | 17.7 |
| University of Central Missouri | 2008 | 50,842 | 3.3 | 17.7 |
| College of Saint Benedict | 2008 | 21,823 | 10.5 | 17.8 |
| SUNY Orange | 2009 | 9,500 | 1.8 | 17.8 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO ₂ E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|------------------------------|---|
| Adams State College | 2008 | 15,988 | 17.8 | 17.9 |
| Grand Valley State University | 2009 | 85,355 | 3.9 | 17.9 |
| Labette Community College | 2009 | 2,095 | 2.5 | 17.9 |
| Austin College | 2009 | 13,965 | 10.9 | 18.0 |
| Messiah College | 2008 | 24,133 | 8.6 | 18.0 |
| North Carolina State University | 2008 | 269,486 | 8.2 | 18.0 |
| Centre College | 2008 | 17,079 | 14.4 | 18.1 |
| Pomona College | 2009 | 28,083 | 18.3 | 18.1 |
| Guilford College | 2007 | 14,524 | 6.7 | 18.3 |
| Salisbury University | 2008 | 26,414 | 3.7 | 18.3 |
| State University of New York at Albany | 2008 | 86,775 | 5.6 | 18.3 |
| University of Minnesota-Duluth | 2007 | 56,465 | 5.0 | 18.3 |
| Eastern Washington University | 2009 | 47,611 | 5.2 | 18.4 |
| Saint Peter's College | 2009 | 23,520 | 7.6 | 18.4 |
| University of Illinois at Chicago | 2008 | 270,682 | 11.0 | 18.4 |
| Rider University | 2007 | 25,233 | 5.3 | 18.5 |
| Sweet Briar College | 2008 | 11,041 | 16.5 | 18.5 |
| Utah State University | 2009 | 128,955 | 6.8 | 18.5 |
| De Anza College | 2008 | 26,761 | 1.3 | 18.6 |
| University of Wyoming | 2008 | 133,909 | 10.9 | 18.6 |
| University of Nevada, Reno | 2007 | 85,927 | 5.2 | 18.7 |
| Los Angeles Mission College | 2007 | 5,519 | 0.7 | 18.8 |
| Montana State University - Bozeman | 2009 | 77,377 | 7.1 | 18.8 |
| University of Wisconsin-Green Bay | 2008 | 32,146 | 6.4 | 18.8 |
| Antioch University Los Angeles | 2008 | 815 | 1.2 | 18.9 |
| University of Connecticut | 2007 | 201,770 | 10.8 | 18.9 |
| Illinois State University | 2009 | 123,768 | 6.1 | 19.0 |
| University of Hawai'i at Manoa | 2008 | 116,351 | 5.7 | 19.0 |
| Hollins University | 2007 | 16,231 | 15.3 | 19.1 |
| Weber State University | 2007 | 47,220 | 2.6 | 19.1 |
| College of Menominee Nation | 2007 | 2,060 | 4.1 | 19.2 |
| Virginia Commonwealth University | 2009 | 131,253 | 4.6 | 19.2 |
| Chaffey College | 2008 | 8,031 | 0.2 | 19.6 |
| McDaniel College | 2008 | 20,678 | 8.5 | 19.7 |
| Towson University | 2007 | 85,769 | 5.6 | 19.8 |
| Cabrillo College | 2008 | 9,332 | 0.8 | 19.9 |
| Madison Area Technical College | 2008 | 25,473 | 1.4 | 19.9 |
| Yale University | 2008 | 242,500 | 21.3 | 20.0 |
| University of North Texas | 2009 | 123,927 | 5.2 | 20.2 |
| University of Wisconsin-Whitewater | 2009 | 51,338 | 5.0 | 20.2 |
| Mount St. Mary's University | 2007 | 20,079 | 12.6 | 20.3 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| Xavier University | 2008 | 36,069 | 7.2 | 20.4 |
| New Mexico State University Grants Branch | 2009 | 2,461 | 3.9 | 20.5 |
| Tulane University | 2008 | 144,591 | 14.3 | 20.5 |
| Augsburg College | 2008 | 21,669 | 6.2 | 20.7 |
| Cornell University | 2008 | 308,000 | 15.6 | 20.7 |
| Rose-Hulman Institute of Technology | 2007 | 22,213 | 11.5 | 20.7 |
| American Public University System | 2008 | 2,242 | 0.1 | 20.8 |
| Clemson University | 2007 | 139,080 | 7.9 | 20.8 |
| Bowie State University | 2007 | 24,907 | 5.4 | 20.9 |
| Keystone College | 2007 | 6,621 | 4.3 | 20.9 |
| Frostburg State University | 2007 | 30,088 | 6.5 | 21.0 |
| University of Pennsylvania | 2008 | 250,555 | 12.6 | 21.0 |
| University of South Carolina Union | 2008 | 1,128 | 4.2 | 21.0 |
| Macalester College | 2008 | 26,672 | 14.1 | 21.1 |
| University of Mississippi | 2008 | 93,827 | 7.9 | 21.1 |
| DePauw University | 2009 | 38,639 | 16.8 | 21.2 |
| Washington College | 2007 | 16,153 | 12.9 | 21.2 |
| Colorado State University | 2009 | 223,466 | 8.9 | 21.5 |
| University of Maine at Fort Kent | 2008 | 5,457 | 6.0 | 21.5 |
| University of Tennessee at Chattanooga | 2009 | 54,563 | 6.5 | 21.5 |
| University of Baltimore | 2008 | 16,220 | 2.8 | 21.6 |
| Mount Mercy College | 2008 | 8,988 | 7.5 | 21.7 |
| University of Pittsburgh – mandatory sources only | 2008 | 204,200 | 8.3 | 21.7 |
| University of Saint Thomas | 2009 | 71,275 | 5.7 | 21.8 |
| George Mason University | 2007 | 103,066 | 4.5 | 22.0 |
| Haywood Community College | 2008 | 7,081 | 3.7 | 22.1 |
| University of Michigan | 2008 | 687,000 | 16.8 | 22.1 |
| Northern Kentucky University | 2008 | 69,272 | 4.6 | 22.2 |
| University of Rhode Island | 2009 | 99,293 | 7.5 | 22.2 |
| William Paterson University of New Jersey | 2008 | 41,902 | 5.5 | 22.2 |
| Des Moines Area Community College | 2008 | 24,615 | 2.1 | 22.3 |
| Northern Essex Community College | 2008 | 10,441 | 2.7 | 22.3 |
| University of Arkansas Main Campus | 2009 | 169,610 | 11.9 | 22.4 |
| Pennsylvania State University | 2008 | 455,069 | 10.5 | 22.5 |
| Indiana State University | 2008 | 98,066 | 9.3 | 22.6 |
| Whitworth University | 2007 | 16,560 | 7.9 | 22.6 |
| Lake Michigan College | 2009 | 12,723 | 5.4 | 22.7 |
| Georgia Institute of Technology | 2009 | 329,853 | 16.3 | 22.8 |
| University of Colorado at Colorado Springs | 2007 | 28,774 | 3.4 | 22.9 |
| Community College of Denver | 2008 | 48,481 | 10.2 | 23.0 |
| Metropolitan State College of Denver | 2008 | 48,481 | 3.3 | 23.0 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| Norfolk State University | 2009 | 42,886 | 6.1 | 23.1 |
| University of Miami | 2007 | 243,065 | 16.4 | 23.1 |
| Boston Architectural College | 2009 | 2,352 | 1.6 | 23.2 |
| Hillsborough Community College | 2010 | 37,287 | 2.0 | 23.3 |
| Rowan University | 2007 | 58,984 | 5.8 | 23.6 |
| Arizona State University | 2008 | 293,248 | 4.6 | 23.7 |
| Chandler-Gilbert Community College | 2008 | 10,446 | 1.9 | 23.7 |
| New Mexico State University at Alamogordo | 2007 | 4,525 | 1.6 | 23.9 |
| Portland Community College | 2008 | 48,449 | 2.1 | 24.0 |
| Bridgewater State College | 2008 | 41,160 | 5.3 | 24.5 |
| New Mexico State University Main Campus | 2008 | 152,133 | 6.1 | 24.5 |
| Concordia University, Nebraska | 2010 | 20,707 | 15.4 | 24.6 |
| Harford Community College | 2008 | 11,851 | 3.2 | 24.6 |
| South Suburban College | 2009 | 13,783 | 2.7 | 24.6 |
| University of Florida | 2006 | 432,123 | 9.2 | 24.8 |
| Massasoit Community College | 2007 | 13,687 | 3.2 | 24.9 |
| Temple University | 2009 | 227,993 | 7.6 | 24.9 |
| Lesley University | 2007 | 18,320 | 3.5 | 25.0 |
| Monterey Institute of International Studies | 2008 | 3,261 | 4.1 | 25.0 |
| Coastline Community College | 2008 | 5,683 | 0.9 | 25.2 |
| Middlesex Community College | 2008 | 13,137 | 2.7 | 25.2 |
| University of California, Davis | 2007 | 384,306 | 13.2 | 25.2 |
| University of California, San Francisco | 2007 | 180,738 | 61.2 | 25.2 |
| Parkland College | 2010 | 22,471 | 3.4 | 25.3 |
| Saint John's University | 2008 | 47,376 | 22.8 | 25.3 |
| Texas Christian University | 2009 | 88,882 | 10.7 | 25.4 |
| University of Southern Mississippi | 2008 | 114,677 | 9.1 | 25.4 |
| St. Clair County Community College | 2008 | 11,271 | 2.8 | 25.5 |
| University of Maryland Baltimore County | 2009 | 82,346 | 7.6 | 25.7 |
| University of Oklahoma Norman Campus | 2008 | 253,789 | 9.7 | 25.7 |
| Delta College | 2008 | 24,973 | 3.5 | 25.8 |
| University of Illinois at Urbana-Champaign | 2008 | 522,757 | 12.4 | 26.0 |
| University of North Dakota | 2009 | 138,633 | 11.0 | 26.0 |
| Antioch University Seattle | 2008 | 1,368 | 2.3 | 26.2 |
| Berry College | 2008 | 34,062 | 20.3 | 26.3 |
| University of New Mexico Main Campus | 2006 | 174,387 | 8.5 | 26.3 |
| El Centro College | 2009 | 17,927 | 7.3 | 26.5 |
| University of Alaska Anchorage | 2008 | 44,228 | 5.0 | 26.5 |
| Missouri University of Science & Technology | 2009 | 67,968 | 11.0 | 26.8 |
| Saint Xavier University | 2007 | 21,175 | 4.9 | 26.9 |
| Ohio University | 2009 | 211,266 | 10.2 | 27.0 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| University of La Verne | 2010 | 12,989 | 3.6 | 27.1 |
| Massachusetts Bay Community College | 2008 | 10,229 | 2.0 | 27.3 |
| Olympic College | 2008 | 12,463 | 2.7 | 27.3 |
| The National Graduate School of Quality Management | 2009 | 605 | 2.6 | 27.3 |
| Yeshiva University | 2009 | 98,526 | 17.1 | 27.3 |
| University of Arizona | 2009 | 250,586 | 7.0 | 27.5 |
| University of Maryland Baltimore | 2008 | 160,783 | 24.1 | 27.5 |
| University of Maryland College Park | 2007 | 351,144 | 10.8 | 27.7 |
| Santa Monica College | 2009 | 29,068 | 3.2 | 27.8 |
| Villanova University | 2009 | 91,235 | 14.0 | 27.9 |
| Auburn University | 2008 | 212,259 | 8.7 | 28.0 |
| Eckerd College | 2008 | 22,698 | 7.9 | 28.0 |
| Lee College | 2008 | 16,512 | 2.8 | 28.0 |
| Simpson College | 2009 | 22,680 | 11.2 | 28.0 |
| Greenfield Community College | 2007 | 7,543 | 4.2 | 28.1 |
| North Shore Community College | 2008 | 13,322 | 1.7 | 28.1 |
| Washtenaw Community College | 2008 | 27,804 | 3.5 | 28.1 |
| University of Utah | 2007 | 327,050 | 13.3 | 28.5 |
| Ball State University | 2008 | 192,873 | 11.6 | 28.6 |
| Nassau Community College | 2008 | 46,018 | 2.5 | 28.9 |
| University of California, Irvine | 2008 | 162,082 | 6.3 | 29.0 |
| University of Delaware | 2009 | 152,542 | 8.7 | 29.1 |
| University of Pittsburgh – all accountable sources | 2008 | 273,400 | 11.0 | 29.1 |
| Claremont McKenna College | 2008 | 19,839 | 18.2 | 29.2 |
| University of Colorado Denver | 2007 | 164,408 | 10.7 | 29.2 |
| The Ohio State University Main Campus | 2009 | 661,037 | 12.3 | 29.3 |
| Shoreline Community College | 2008 | 14,280 | 0.7 | 29.4 |
| Prescott College | 2008 | 2,978 | 3.0 | 29.5 |
| University of Missouri - Columbia | 2009 | 485,931 | 16.1 | 29.5 |
| Century College | 2009 | 21,253 | 3.2 | 29.8 |
| University of Minnesota-Twin Cities | 2008 | 642,735 | 12.6 | 29.8 |
| College of Marin | 2008 | 11,860 | 1.8 | 29.9 |
| University of Maryland University College | 2008 | 23,017 | 1.3 | 30.1 |
| Medical University of South Carolina | 2007 | 174,184 | 54.8 | 30.3 |
| Framingham State College | 2010 | 30,690 | 5.1 | 30.6 |
| Duke University | 2007 | 425,960 | 32.8 | 30.7 |
| Austin Community College District | 2009 | 41,710 | 4.6 | 30.8 |
| University of North Carolina at Chapel Hill | 2008 | 569,169 | 21.6 | 30.8 |
| , | | | 14.1 | 30.9 |
| University of Cincinnati | 2008 | 3/1,295 | 14.1 | |
| University of Cincinnati Butte College | 2008 | 371,295 12,812 | 4.4 | 31.0 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|---|------|--|-----------------|---|
| Antioch University New England | 2008 | 2,651 | 2.7 | 31.2 |
| Lake Superior College | 2008 | 11,366 | 3.3 | 31.4 |
| Montgomery County Community College | 2008 | 22,138 | 4.0 | 31.4 |
| State University of New York at Stony Brook | 2008 | 322,577 | 14.7 | 31.5 |
| Governors State University | 2009 | 17,850 | 4.2 | 32.1 |
| Gainesville State College | 2009 | 13,771 | 1.1 | 32.2 |
| Johnson County Community College | 2009 | 53,862 | 3.9 | 32.2 |
| Jackson Community College | 2009 | 20,259 | 4.3 | 32.4 |
| Las Positas College | 2009 | 9,076 | 1.4 | 32.4 |
| Bergen Community College | 2008 | 23,493 | 1.9 | 32.5 |
| Eastern Iowa Community College District | 2008 | 17,590 | 2.2 | 32.8 |
| Rio Salado College | 2010 | 8,678 | 0.7 | 32.9 |
| Life University | 2008 | 13,930 | 7.4 | 33.1 |
| The Richard Stockton College of New Jersey | 2008 | 27,792 | 4.8 | 33.1 |
| University of Maryland Center for Environmental Science | 2008 | 12,480 | 198.1 | 33.2 |
| North Lake College | 2008 | 17,867 | 3.5 | 33.5 |
| Case Western Reserve University | 2009 | 263,217 | 28.8 | 34.0 |
| Carnegie Mellon University | 2007 | 163,680 | 18.2 | 34.6 |
| Western Technical College | 2008 | 24,177 | 6.4 | 34.8 |
| Broome Community College | 2007 | 20,649 | 3.3 | 34.9 |
| Vanderbilt University | 2007 | 487,000 | 42.5 | 35.0 |
| Hocking Technical College | 2009 | 19,988 | 4.9 | 35.1 |
| Kent State University Stark Campus | 2009 | 12,038 | 2.5 | 35.6 |
| Edmonds Community College | 2007 | 25,037 | 3.3 | 35.7 |
| Kankakee Community College | 2008 | 12,560 | 6.0 | 36.5 |
| Lakeshore Technical College | 2009 | 14,029 | 6.3 | 36.5 |
| Park University | 2008 | 19,145 | 15.2 | 37.1 |
| Lorain County Community College | 2009 | 37,300 | 5.5 | 37.2 |
| South Dakota School of Mines and Technology | 2008 | 25,105 | 14.5 | 37.2 |
| Richland College | 2008 | 23,973 | 2.7 | 37.9 |
| Virginia Wesleyan College | 2008 | 21,172 | 20.0 | 38.1 |
| Metropolitan State University | 2008 | 10,695 | 2.1 | 38.2 |
| Foothill College | 2008 | 24,780 | 1.7 | 38.4 |
| Cedar Valley College | 2007 | 13,459 | 4.5 | 38.6 |
| State University of New York Upstate Medical University | 2010 | 74,199 | 50.2 | 38.9 |
| Bristol Community College | 2006 | 14,372 | 3.6 | 39.5 |
| County College of Morris | 2007 | 20,121 | 3.1 | 39.8 |
| New Mexico State University at Carlsbad | 2008 | 5,815 | 7.6 | 40.9 |
| Ocean County College | 2009 | 18,297 | 2.3 | 41.3 |
| Cape Cod Community College | 2008 | 14,575 | 6.0 | 42.0 |
| University of South Florida | 2009 | 257,566 | 6.5 | 42.2 |

| Institution | Year | Net emissions, MT CO ₂ E | MT CO₂E/ FTE | MT CO ₂ E/ 1000 ft ² |
|--|------|--|-----------------|---|
| North Arkansas College | 2009 | 10,629 | 4.6 | 45.2 |
| The Community College of Baltimore County | 2008 | 64,309 | 4.1 | 45.3 |
| New England Institute of Technology | 2008 | 8,554 | 2.9 | 46.3 |
| Mesa Community College | 2008 | 32,648 | 2.7 | 46.6 |
| Bellevue College | 2008 | 36,153 | 3.3 | 47.4 |
| Lewis and Clark Community College | 2009 | 24,155 | 5.6 | 50.9 |
| Scottsdale Community College | 2008 | 26,981 | 4.3 | 51.4 |
| University of Massachusetts Medical School | 2008 | 97,942 | 141.9 | 52.2 |
| Jamestown Community College | 2008 | 38,379 | 9.9 | 53.3 |
| Florida International University | 2008 | 239,661 | 6.3 | 55.1 |
| Lane Community College | 2008 | 61,521 | 5.6 | 55.1 |
| San Joaquin Delta College | 2008 | 32,337 | 1.9 | 55.5 |
| Columbus State Community College | 2007 | 62,462 | 2.7 | 57.1 |
| Lansing Community College | 2008 | 82,300 | 6.9 | 59.6 |
| Inver Hills Community College | 2009 | 17,308 | 4.7 | 59.7 |
| New Mexico State University Dona Ana Branch | 2009 | 26,572 | 2.4 | 61.3 |
| Centralia College | 2008 | 18,428 | 2.7 | 63.3 |
| Finger Lakes Community College | 2008 | 32,481 | 18.1 | 64.3 |
| Santa Fe Community College (NM) | 2007 | 34,630 | 2.9 | 64.3 |
| St. Louis Community College at Florissant Valley | 2009 | 22,856 | 3.2 | 64.5 |
| Bainbridge Graduate Institute | 2009 | 794 | 4.0 | 66.2 |
| Manchester Community College (NH) | 2009 | 12,398 | 7.8 | 67.0 |
| Kennesaw State University | 2008 | 96,097 | 4.7 | 78.1 |
| Howard Community College | 2009 | 53,183 | 0.3 | 80.3 |
| Victor Valley College | 2008 | 32,030 | 3.5 | 93.7 |
| Wilson Community College | 2008 | 30,404 | 2.3 | 145.2 |
| Gateway Community College | 2007 | 88,884 | 24.2 | 295.2 |
| Houston Community College | 2008 | 1,176,705 | 19.2 | 374.9 |
| The University of South Dakota | 2008 | 18,482 | 3.2 | - |
| University of California, Riverside | 2007 | 96,548 | 5.5 | - |

References

- 1. *Sustainability and Green Initiatives, Facilities Management Division*. 2009, University of Pittsburgh: Pittsburgh.
- 2. *ACUPCC Greenhouse Gas Inventory Brief*. 2009, American College & University Presidents' Climate Commitment. p. 8.
- 3. Dautremont-Smith, J., Cortese, A.D., Dyer, G., Walton, J., *Implementation Guide, Information and Resources for Participating Institutions*. 2009, American College & University Presidents' Climate Commitment. p. 41.
- 4. Andrews, J., *Clean Air-Cool Planet Campus Carbon Calculator User's Guide*. 2008, Clean Air-Cool Planet: Portsmouth, NH.
- 5. The Greenhouse Gas Protocol Initiative. 2010; Available from: http://www.ghgprotocol.org/.
- 6. Energy Units Conversion Table. Available from:
 http://www.energystar.gov/ia/business/tools_resources/target_finder/help/Energy_Units_Conversion_Table.htm.
- 7. O'Connell, J.K., *Carbon Neutrality at Colby College*, in *Environmental Studies Program*. 2008, Colby College: Waterville, ME. p. 98.
- 8. Clark, N. *Find Biodiesel Stations*. 2010; Available from: http://findbiodiesel.org/US/PA/Pittsburgh.
- 9. *Class I Ozone-depleting Substances*. Ozone Layer Depletion 2010; Available from: http://www.epa.gov/ozone/science/ods/classone.html.
- 10. *Direct Global Warming Potential*. IPCC Fourth Assessment Report: Climate Change 2007 2007; Available from: http://www.ipcc.ch/publications and data/ar4/wg1/en/ch2s2-10-2.html.
- 11. *Global Warming Potentials of ODS Substitutes*. Ozone Layer Depletion 2010; Available from: http://www.epa.gov/ozone/geninfo/gwps.html.
- 12. *Class II Ozone-depleting Substances* Ozone Layer Depletion 2010; Available from: http://www.epa.gov/ozone/science/ods/classtwo.html.
- 13. Calm, J.M., Hourahan, G.C., *Refrigerant Data Update*. Heating/Piping/Air Conditioning Engineering, 2007. **79**(1): p. 50-64.
- 14. *Greenhouse Gas Inventory Report*. 2010, Montana State University.
- 15. *eGRID2007 Version 1.1 Year 2005 Summary Tables*, in *Clean Energy*. 2008, U.S. Environmental Protection Agency.
- 16. Dautremont-Smith, J. *Guidance on Scope 3 Emissions, pt 2: Air Travel*. 2008; Available from: http://www.aashe.org/blog/guidance-scope-3-emissions-pt-2-air-travel.
- 17. Annual Passenger Yields: U.S. Airlines. 2010; Available from: http://www.airlines.org/economics/finance/PaPricesYield.htm.
- 18. Solid Waste Management And Greenhouse Gases, A Life-Cycle Assessment of Emissions and Sinks. 2002, U.S. Environmental Protection Agency.
- 19. *ACUPCC Reporting System*. American College & University Presidents Climate Commitment 2010; Available from: http://acupcc.aashe.org/.
- 20. Carnegie Mellon University. The College Sustainability Report Card 2009; Available from: http://www.greenreportcard.org/report-card-2010/schools/carnegie-mellon-university/surveys/campus-survey.

- 21. Kornitas, M. *Rutgers University New Brunswick*. The College Sustainability Report Card 2009; Available from: http://www.greenreportcard.org/report-card-2010/schools/rutgers-universitynew-brunswick/surveys/campus-survey.
- 22. Vandenbergh, L. *Pennsylvania State University*. The College Sustainability Report Card 2009; Available from: http://www.greenreportcard.org/report-card-2010/schools/pennsylvania-state-university/surveys/campus-survey.
- 23. Mital, S. *University of Oregon Eugene*. The College Sustainability Report Card 2009; Available from: http://www.greenreportcard.org/report-card-2010/schools/university-of-oregon-eugene/surveys/campus-survey.
- 24. *Drexel University*. The College Sustainability Report Card 2009; Available from: http://www.greenreportcard.org/report-card-2010/schools/drexel-university/surveys/campus-survey.
- 25. Berki, A. *University of Michigan–Ann Arbor*. The College Sustainability Report Card 2009; Available from: http://www.greenreportcard.org/report-card-2010/schools/university-of-michigan-ann-arbor/surveys/campus-survey.
- 26. George, A. *Vanderbilt University*. The College Sustainability Report Card 2009; Available from: http://www.greenreportcard.org/report-card-2010/schools/vanderbilt-university/surveys/campus-survey.
- 27. Newman, J. *Yale University*. The College Sustainability Report Card 2009; Available from: http://www.greenreportcard.org/report-card-2010/schools/yale-university/surveys/campus-survey.