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# ACUPCC Reporting System



## GHG Report for Rice University

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Submitted on January 13, 2014; last updated on January 15, 2014

### Summary Statistics

*Making fair comparisons between higher education institutions is always challenging due to the rich diversity of higher education. The unverified nature of the information in this database and unavailability of unbiased normalization metrics means such comparisons are even more difficult. Users should therefore approach direct institution to institution comparisons with caution and recognize that all comparisons between institutions are inherently biased.*

	Total	Per Full-Time Enrollment	Per 1000 Square Feet	% Offset
<b>Gross emissions (Scopes 1 + 2)</b>	98,218 metric tons of CO <sub>2</sub> e	15.8 metric tons of CO <sub>2</sub> e	16.6 metric tons of CO <sub>2</sub> e	59%
<b>Gross emissions (Scopes 1 + 2 + 3)</b>	108,443 metric tons of CO <sub>2</sub> e	17.4 metric tons of CO <sub>2</sub> e	18.3 metric tons of CO <sub>2</sub> e	53%
<b>Net emissions</b>	50,803 metric tons of CO <sub>2</sub> e	8.2 metric tons of CO <sub>2</sub> e	8.6 metric tons of CO <sub>2</sub> e	N/A

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# Emissions Inventory Methodology and Boundaries

**Start date of the 12-month period covered in this report**

July 1, 2012

**Consolidation methodology used to determine organizational boundaries**

Operational control approach

**If any institution-owned, leased, or operated buildings or other holdings that should fall within the organizational boundaries are omitted, briefly explain why.**

no omissions

**Emissions calculation tool used**

Custom tool

**Please describe why this tool was selected.**

We are using a tool and calculations developed in a Rice chemical engineering class "Engineering Solutions for Sustainable Communities".

**Please describe the source(s) of the emissions coefficients used.**

We use ERCOT fuel mixes and IPCC emissions coefficients for electricity. Emissions coefficients for natural gas come from US DOE / EIA.

**Which version of IPCC's list of global warming potentials did you use?**

*No information provided*

**Who primarily conducted this emissions inventory?**

Student researcher(s)

**Please describe the process of conducting the inventory.**

Scope 1 and 2: We relied upon revenue-grade meter readings for our natural gas and electricity consumption. Fleet vehicle emissions were derived from university-supplied data on fuel purchases.

Scope 3: Student teams conducted surveys of the campus community related to air travel and commuting.

**Please describe any emissions sources that were classified as *de minimis* and explain how a determination of the significance of these emissions was made.**

*No information provided*

**Please describe any data limitations related to this submission and any major assumptions made in response to these limitations.**

The Scope 3 emissions are based on responses to surveys, which carries some limitation. Also, air travel information is highly centralized at Rice, and therefore rather difficult to obtain. Student teams chose a few representative departments and then made projections for the entire campus. However, in terms of scale, Scope 3 is considerably less for Rice than Scopes 1 and 2.

## Emissions Data

Emissions from the following sources (in metric tons of CO<sub>2</sub>e)

### Scope 1 Emissions

<b>Stationary Combustion</b>	27,972.0 metric tons of CO <sub>2</sub> e
<b>Mobile Combustion</b>	595.0 metric tons of CO <sub>2</sub> e
<b>Process Emissions</b>	0.0 metric tons of CO <sub>2</sub> e
<b>Fugitive Emissions</b>	0.0 metric tons of CO <sub>2</sub> e
<b>Total Scope 1 emissions</b>	<b>28,567.0 metric tons of CO<sub>2</sub>e</b>

### Scope 2 Emissions

<b>Purchased Electricity</b>	69,651.0 metric tons of CO2e
<b>Purchased Heating</b>	0.0 metric tons of CO2e
<b>Purchased Cooling</b>	0.0 metric tons of CO2e
<b>Purchased Steam</b>	0.0 metric tons of CO2e
<b>Total Scope 2 emissions</b>	<b>69,651.0 metric tons of CO2e</b>
<b>Scope 3 Emissions</b>	
<b>Commuting</b>	5,783.0 metric tons of CO2e
<b>Air Travel</b>	4,070.0 metric tons of CO2e
<b>Solid Waste</b>	372.0 metric tons of CO2e
<b>Total Scope 3 emissions</b>	<b>10,225.0 metric tons of CO2e</b>
<b>Biogenic Emissions</b>	
<b>Biogenic Emissions from Stationary Combustion</b>	0.0 metric tons of CO2e
<b>Biogenic Emissions from Mobile Combustion</b>	0.0 metric tons of CO2e

## Mitigation Data

<b>Carbon Offsets</b>	
<b>Carbon offsets purchased</b>	0.0 metric tons of CO2e
<b>Offset verification program(s)</b>	<i>No information provided</i>
<b>Description of offsets purchased (including vendor, project source, etc.)</b>	
<i>No information provided</i>	

## Renewable Energy Certificates (RECs)

**Total RECs purchased** 0 kWh

**Percent of total electricity consumption mitigated through the purchase of RECs** None %

**Emissions reductions due to the purchase of RECs** *No information provided*

**REC verification program(s)** *No information provided*

**Description of RECs purchased (including vendor, project source, etc.)**

*No information provided*

## Sequestration and Carbon Storage

**Sequestration due to land owned by the institution** 57,640.0 metric tons of CO<sub>2</sub>e

### Description of how sequestration was calculated

calculation provided by land managers of our institutional forest. The forest is owned by our university's endowment, and application of the offset value of that forest for Rice's greenhouse gas footprint is permitted in years in which the carbon offset was not sold elsewhere. To date, Rice has always been able to use the carbon offset value of the forest for its carbon footprint calculation.

**Carbon storage due to composting** 0.0 metric tons of CO<sub>2</sub>e

## Normalization and Contextual Data

**Building Space**

<b>Gross square feet of building space</b>	5,930,533.0 sq ft
<b>Net assignable square feet of laboratory space</b>	<i>No information provided</i>
<b>Net assignable square feet of health care space</b>	<i>No information provided</i>
<b>Net assignable square feet of residential space</b>	<i>No information provided</i>
<b>Population</b>	
<b>Total Student Enrollment (FTE)</b>	6224.0
<b>Residential Students</b>	2800
<b>Full-time Commuter Students</b>	<i>No information provided</i>
<b>Part-time Commuter Students</b>	<i>No information provided</i>
<b>Non-Credit Students</b>	<i>No information provided</i>
<b>Full-time Faculty</b>	634
<b>Part-time Faculty</b>	148
<b>Full-time Staff</b>	<i>No information provided</i>
<b>Part-time Staff</b>	<i>No information provided</i>
<b>Other Contextual Data</b>	
<b>Endowment Size</b>	<i>No information provided</i>
<b>Heating Degree Days</b>	<i>No information provided</i>
<b>Cooling Degree Days</b>	<i>No information provided</i>
<b>Please describe any circumstances specific to your institution that provide context for understanding your greenhouse gas emissions this year.</b>	

*No information provided*

## Supporting Documentation

**Completed inventory narrative**

*No information provided*

**Completed inventory calculator**

*No information provided*

## Auditing and Verification

*These emissions data have not been audited, verified, or peer-reviewed.*

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