

2011 Greenhouse Gas Inventory

Loyola University Chicago
Lakeside Campuses



Office of
Sustainability



2011 Boundary

- Geography: Both Lakeside Campuses (Water Tower and Lake Shore)
- Activities: Directly and indirectly financed activities of Students, Staff and Faculty
- Time: Financial Year 2011 (July 1, 2010 – June 30, 2011)*

- Operating Budget = \$418,996,000
- Research Budget = \$4,618,064
- Energy Budget = \$5,996,908
- Endowment = \$400,304,000

- Full Time Students = 13,494
- Part Time Students = 2,461
- Residential Students = 3,745
- Faculty = 1,756 (661 Full Time, 1,095 Part Time)
- Staff = 1,185 (1,095 Full Time, 90 Part Time)

- Total Building Space = 4,094,573 square feet
- Net Research Space = 26,446 square feet
- Net Residential Space = 1,513,750 square feet

**Except Study Abroad Air Travel, This is on the annual year of 2011*

Boundary – A boundary defines the limits of activities and timeframe within emissions are measured. This can include temporal, geographic, organizational, operational and other limits that are inventoried as part of this effort. For more detail see 2011 Emissions Inventory Narrative document.



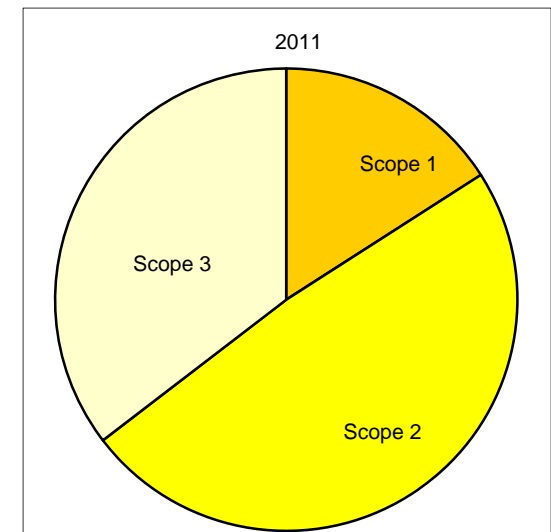
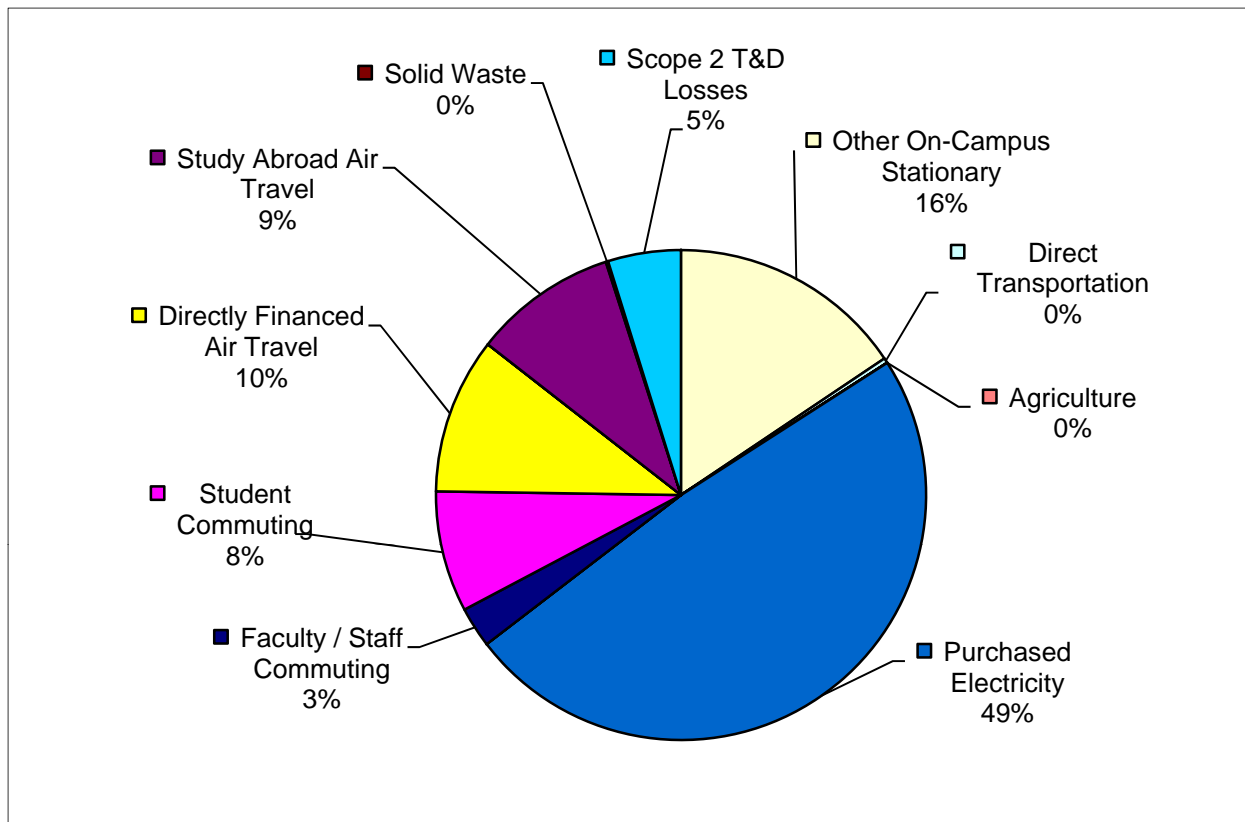
DATA COLLECTION	Measure	Unit
Scope 1		
On-Campus Stationary – Natural Gas	176,079	MMBtus
Direct Transportation – Gas	23,375	Gallons
Direct Transportation – Diesel	1,234	Gallons
Agriculture – Fertilizer	590	Lbs
Scope 2		
Purchased Electricity	56,530,664	kWh
Scope 3		
Student Commuting – Car	7,422,885	Miles
Student Commuting – Bus	6,985,032	Miles
Student Commuting – Train	8,260,471	Miles
Faculty/Staff Commuting – Car	3,278,795	Miles
Faculty/Staff Commuting – Bus	1,608,806	Miles
Faculty/Staff Commuting – Train	2,238,289	Miles
Faculty/Staff Air Travel	12,908,970	Miles
Study Abroad Travel	12,981,511	Miles
Landfilled Waste	902	Tons
Offsets		
On-campus Composting	5	Tons
Green Power Certificates	3,180,185	kWh

For additional detail, see 2011 GHG Emissions Inventory Narrative



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Per FTE	Per 1,000 sq.ft.	
0.89	3.13	Scope 1
2.73	9.58	Scope 2
1.99	6.97	Scope 3
5.62	19.68	All Scopes
-0.15	-0.54	All Offsets
5.46	19.14	

FY 2011 Net Emissions:

- Per FTE Student = 5.46 Metric Tons of Carbon Dioxide Equivalents
- Per 1,000 Square Feet = 19.14 Metric Tons of Carbon Dioxide Equivalents
- Total Emissions = 78,368.2 Metric Tons of Carbon Dioxide Equivalents

	2011	Energy Consumption	CO ₂	CH ₄	N ₂ O	eCO ₂	% of Total Emissions
		MMBtu	kg	kg	kg	Metric Tonnes	percent
Scope 1	Other On-Campus Stationary	237,528.8	12,522,348.9	1,253.0	25.1	12,561.1	15.59%
	Direct Transportation	3,720.9	263,200.7	53.6	18.0	269.9	0.33%
	Agriculture	-	-	-	8.3	2.5	0.00%
Scope 2	Purchased Electricity	423,974.5	38,990,861.1	474.4	685.8	39,207.1	48.66%
Scope 3	Faculty / Staff Commuting	28,236.6	2,110,835.7	293.8	107.0	2,150.1	2.67%
	Student Commuting	81,060.9	6,165,826.0	695.5	266.9	6,437.6	7.99%
	Directly Financed Air Travel	41,342.7	8,272,502.2	79.9	91.9	8,301.9	10.30%
	Study Abroad Air Travel	38,055.2	7,614,682.7	73.6	84.6	7,641.7	9.48%
	Solid Waste	-	-	5,051.9	-	126.3	0.16%
	Scope 2 T&D Losses	41,931.5	3,856,239.0	46.9	67.8	3,877.6	4.81%
Offsets	Additional					(1.9)	0.00%
	Non-Additional					(2,205.6)	-2.74%
Totals	Scope 1	241,249.7	12,785,549.5	1,306.6	51.4	12,833.5	15.93%
	Scope 2	423,974.5	38,990,861.1	474.4	685.8	39,207.1	48.66%
	Scope 3	230,627.0	28,020,085.6	6,241.6	618.2	28,535.2	35.41%
	All Scopes	895,851.2	79,796,496.3	8,022.5	1,355.3	80,575.8	
	All Offsets					(2,207.6)	-2.74%
	Net Emissions:						78,368.2