

# University of Kentucky

## Greenhouse Gas Emissions Inventory

### 2007-2013

Scope	Category	FY2007 (MtCO <sub>2</sub> e)	FY2008 (MtCO <sub>2</sub> e)	FY2009 (MtCO <sub>2</sub> e)	FY2010 (MtCO <sub>2</sub> e)	FY2011 (MtCO <sub>2</sub> e)	FY2012 (MtCO <sub>2</sub> e)	FY2013 (MtCO <sub>2</sub> e)
	Sub category							
1	<b>On-Campus Stationary</b>							
	<i>Coal and Natural Gas</i>	99,604	104,716	101,322	100,512	109,810	97,005	97,533
	<b>Fugitive Emission</b>							
	<i>Agriculture</i>	5,227	5,716	5,625	4,768	4,817	4,817	4,817
	<i>Refrigerants</i>	n/a	TBD	TBD	TBD	TBD	TBD	TBD
	<b>Direct Transportation</b>							
	<i>UK Vehicle Fleet</i>	3,070	3,086	3,151	3,263	3,253	2,938	2,938
2	<b>Purchased Electricity</b>							
	<i>Purchased kWh</i>	290,811	307,833	305,501	308,756	320,384	322,974	313,985
3	<b>Commuting</b>							
	<i>Faculty Staff and Students</i>	25,999	26,657	27,176	27,626	28,012	28,239	28,395
	<b>Air Travel</b>							
	<i>UK funded air travel</i>	11,638	11,736	10,756	12,514	13,430	13,526	13,526
	<i>Study aboard air travel</i>	3,070	3,408	3,369	3,314	3,254	4,826	4,826
	<b>Other Indirect Sources</b>							
	<i>Wastewater treatment</i>	224	234	242	230	231	211	211
	<i>Campus Paper Use</i>	1,524	1,460	1,437	1,399	1,235	1,235	1,235
<i>Solid Waste</i>	30,652	32,738	36,740	39,561	39,685	36,284	36,361	
	<b>Purchased Electricity</b>							
	<i>Transmission and Delivery</i>	28,762	30,445	30,214	30,536	31,686	31,942	31,053
	<b>Sequestration</b>							
	<i>Agricultural lands</i>	-56,011	-56,011	-56,011	-56,011	-56,011	-56,011	-56,011
<b>Total Scope 1 Emissions (MTCO<sub>2</sub>e)</b>		107,900	113,518	110,098	108,543	117,881	104,760	105,288
<b>Total Scope 2 Emissions (MTCO<sub>2</sub>e)</b>		290,811	307,833	305,501	308,756	320,384	322,974	313,985
<b>Total Scope 3 Emissions (MTCO<sub>2</sub>e)</b>		101,869	106,677	109,935	115,180	117,533	116,263	115,608
<b>Gross Emissions (MTCO<sub>2</sub>e)</b>		500,580	528,028	525,534	532,479	555,798	543,997	534,880
<b>Net Emissions* (MTCO<sub>2</sub>e)</b>		444,569	472,017	469,523	476,468	499,787	487,986	478,869
<b>Total Building Space (GSF)</b>		15,383,543	16,065,889	16,390,809	17,649,156	17,704,409	17,806,009	17,806,009
<b>Total Research Space (GSF)</b>		1,748,048	1,748,048	1,748,048	2,086,712	2,086,712	2,229,643	2,229,643
<b>Total Student Enrollment (FTE)</b>		24,873	24,784	25,301	25,643	26,471	26,589	27,424
<b>Net MTCO<sub>2</sub>e per 1,000 GSF</b>		28.90	29.38	28.65	27.00	28.23	27.41	26.89
<b>Net MTCO<sub>2</sub>e per Student (FTE) Enrolled</b>		17.87	19.05	18.56	18.58	18.88	18.35	17.46