

Northern Essex Community College - Environmental Impact & Sustainability Committee

15-Apr-10

Carbon Footprint for FY 2009

<u>Items for which the college has control:</u>	<u>Quantity</u>	<u>Units</u>	<u>Conversion Unit</u>	<u>Pounds of CO2 Produced</u>	<u>FY2009 Metric tons</u>	<u>FY2008 Metric tons</u>	<u>FY2007 Metric tons</u>	<u>One Year Change</u>	
Electricity used at all buildings Haverhill and Lawrence	8,528,960	kilowatt hours	0.829	7,070,508	3,207.2	3,362.3	3,185.1	(155.2)	-4.6%
Natural gas used at all buildings Haverhill and Lawrence	64,814	thermal units	11	712,954	323.4	267.7	250.2	55.7	20.8%
Electricity(estimate) used at N. Andover <u>leased space</u>	380,000	kilowatt hours	0.829	315,020	142.9	146.2	141.0	(3.3)	-2.3%
Natural gas(estimate) used at N. Andover <u>leased space</u>	11,000	thermal units	11	121,000	54.9	54.8	54.7	0.1	0.2%
Plane travel for all employees	312,240	miles	0.9	281,016	127.5	175.8	81.7	(48.3)	-27.5%
Travel mileage by cars in FY'07 ***	72,398	miles	X	66,882	30.3	53.8	54.6	(23.4)	-43.6%
Gas used for lawn equipment, snow removal, etc	82	gallons	19.4	1,591	0.7	0.8	0.9	(0.1)	-8.9%
Athletic department gas	1,177	gallons	19.4	22,834	10.4	14.6	11.2	(4.3)	-29.1%
Gas for all NECC owned trucks and cars	2,843	gallons	19.4	55,154	25.0	27.3	30.5	(2.3)	-8.3%
Diesel for all owned trucks and cars at NECC	168	gallons	22.2	3,730	1.7	1.9	0.8	(0.2)	-9.2%
Propane	565	gallons	19.4	10,961	5.0	5.0	5.0	(0.0)	-0.6%
Gas used by Eagle Security (includes Shuttle Service)	7,796	gallons	19.4	151,235	68.6	85.1	89.3	(16.5)	-19.4%
Subtotal (controlable items)				8,812,884	3,997.5	4,195.1	3,905.0	(197.6)	-4.7%
<u>Items for which the college does not have control due to enrollment growth & external agencies:</u>									
MVRTA bus service to campus - estimate	1,550	gallons	22.2	34,410	15.6	15.6	15.3	-	0.0%
Diesel for all leased trucks (on-road) - Osgood St.	66,308	gallons	22.2	1,472,038	667.7	441.9	418.9	225.8	51.1%
Commuting miles - students	11,321,329	miles	X	10,458,752	4,744.1	4,709.6	4,660.0	34.5	0.7%
Commuting miles - faculty/staff	3,203,033	miles	X	2,958,992	1,342.2	1,279.1	1,365.0	63.1	4.9%
Commuting miles - Little Sprouts parents	181,890	miles	X	168,032	76.2	72.2	54.6	4.1	5.6%
Commuting miles - Lawrence daycare parents	69,748	miles	X	64,434	29.2	27.8	26.2	1.4	5.1%
Subtotal (controlable items)				15,156,657	6,875.0	6,546.2	6,540.0	328.8	5.0%
College-wide total =====>				23,969,541	10,872.5	10,741.3	10,445.0	131.2	1.2%

Note that NECC realized an 8% increase in enrollment over this period.

X - total miles traveled divided by 21 (average miles per gallon) multiplied by 19.4 (pounds of CO2 per gallon)
 1 Metric ton = 2,204.6 pounds

Goal: NECC exceeded it's 3% reduction goal for FY 2009 for items for which the college has control.

The college did not meet the 3% reduction goal for items for which the college does not have control mainly due to enrollment growth.