

The Port Authority's 2010 GHG emissions inventory was recently verified by a third-party verification body and was found to be complete, accurate and in conformance with the reporting requirement of The Climate Registry (Registry). During the course of the verification process, some elements of the emission inventory were modified, which in some cases prompted the need to revise emissions values as reported in the *PANYNJ GHG and CAP Emissions Inventory Report* dated December 2011. Inventory modifications fell under three categories: a) organizational boundary, b) methodologies, and c) characterization of emissions sources. These modifications are discussed below.

Organizational Boundary - The Port Authority elected to report emissions under the organizational boundary – operational control option. This is to say that the Port Authority reported activities over which it can institute operational or Environmental Health & Safety policies and procedures. Under this option, two mobile combustion sources (i.e., the Shadow Fleet and Cross Harbor Barge) were excluded from the inventory boundary, because operation of these Port Authority assets was determined to be outside the organization's operational control. Actually, these vehicles and equipment are operated by contractors who perform these services under contract agreement with the Port Authority.

Methodologies - The methodology used to estimate mobile combustion emissions for the vehicle fleet was simplified and aligned to those specified in the Registry's General Reporting Protocol. Additionally, a couple of emissions factors were substituted with more up-to-date values to estimate fuel oil emissions at LGA and steam purchases at the Lincoln Tunnel.

Characterization of Emissions Sources - The Port Authority added two inventory line items, one for emergency generators and fuel pumps and another for welding gases. A simplified emission estimate was used to quantify the annual amount of fuel combustion from emergency generators and fire pumps; typically, a single unit runs less than four hours in a given year. Another line item pertained to the combustion of welding gases. A conservative estimate was developed to determine the magnitude of this emissions source, which was not found to be significant. The original 2010 GHG emission estimates did not cover these stationary sources because the Port Authority did not have 2010 activity estimates for them.

Revised results for the 2010 GHG Emissions Inventory are presented in Table 1-4 below. The Table 1-4 emission estimates are consistent with the Port Authority's reporting to the Climate Registry Information System (CRIS).

In 2015, it was discovered that the Scope 2 subtotal within the original updated table presented in the March 2013 version of this addendum did not match that verified by Cameron Cole. This update presents a revised table showing the correct subtotals. It should be noted that since the original issue of this addendum, the format for the table has changed. In order to follow The Climate Registry's General Reporting Protocol (GRP), emission categories were revised for later inventories. With all source data now stored in the format consistent with the GRP, reconciling the updated data to older categories is no longer feasible.

Table Error! No text of specified style in document.-1. Port Authority NY/NJ CO₂e Emissions in 2010 (metric tons)

Department – Emitting Activity	Scope 1 (metric tons CO₂e)	Scope 2 (metric tons CO₂e)	Total (metric tons CO₂e)
Aviation	34,365.99	140,858.17	175,224.16
Facilities – Fuel Combustion	30,687.41	-	30,687.41
Facilities – Purchased Cooling	-	5,405.50	5,405.50
Facilities – Purchased Electricity	-	132,781.5703	132,781.57
Facilities – Purchased Heating	-	2,671.09	2,671.09
Other – Refrigeration/Fire Suppression	3,678.58	-	3,678.58
PATH	4,325.78	57,817.32	62,143.10
Facilities – Fuel Combustion	1,538.79	-	1,538.79
Facilities – Purchased Electricity	-	57,817.32	57,817.32
Other – Refrigeration/Fire Suppression	2,786.99	-	2,786.99
Tunnels and Bridges	640.73	15,656.58	16,297.31
Facilities – Fuel Combustion	638.65	-	638.65
Facilities – Purchased Electricity	-	15,656.58	15,656.58
Other – Refrigeration/Fire Suppression	2.08	-	2.08
Bus Terminals	1,088.39	13,478.49	14,566.88
Facilities – Fuel Combustion	674.7576583	-	674.7576583
Facilities – Purchased Electricity	-	9,884.13	9,884.13
Facilities – Purchased Steam	-	3,594.36	3,594.36
Other – Refrigeration/Fire Suppression	413.6363636	-	413.6363636
Central Administration	12,397.00	7,625.66	20,022.66
Facilities – Fuel Combustion	954.06	-	954.06
Facilities – Purchased Electricity	-	7,625.66	7,625.66
Fleet – Fuel Combustion	11,442.94	-	11,442.94
Port Commerce	4,243.56	2,858.52	7,102.08
Facilities – Fuel Combustion	198.9598686	-	198.9598686
Facilities – Purchased Electricity	-	2,858.52	2,858.52

Addendum to PANYNJ GHG and CAP Emission Inventory Report CY2010

Landfill Gas	4,044.60	-	4,044.60
Real Estate	162.1	875.39	1,037.51
Facilities – Fuel Combustion	162.1231627	-	162.1231627
Facilities – Purchased Electricity	-	875.39	875.39
Multi-Department	655.2	0	655.2157925
Emergency Generators and Fire Pumps	654.7489425	-	654.7489425
Other – Refrigeration/Fire Suppression	0.46685	-	0.46685
TOTAL	57,878.8	239,170.1	297,048.9