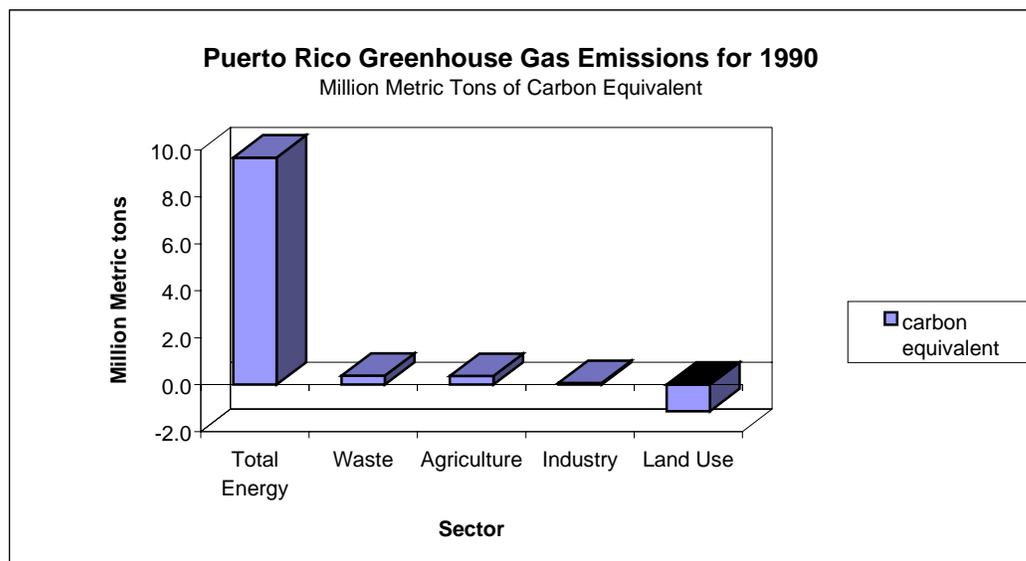


## PUERTO RICO GREENHOUSE GAS EMISSIONS AND SINKS INVENTORY: SUMMARY



The report *“Inventory of Puerto Rico Greenhouse Gas Emissions and Sinks: 1990, 1994”* provides a detailed inventory of greenhouse gas emissions and sinks for Puerto Rico in 1990. Emissions were estimated using methods from EPA’s 1995 guidance document ***State Workbook: Methodologies for Estimating Greenhouse Gas Emissions***. In 1990, Puerto Rico emitted 9.4 million metric tons of carbon equivalent (MMTCE).<sup>1</sup>

The principal greenhouse gas was carbon dioxide, comprising 31.5 million metric tons (8.6 MMTCE). Other emissions included 0.13 million metric tons of methane (0.8 MMTCE) and 100 metric tons of nitrous oxide (0.005 MMTCE).

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<sup>1</sup> Note that the state of the art emission inventory method has advanced since Puerto Rico completed its inventory; therefore, we have made the following adjustments to Puerto Rico’s emission estimates. First, we used updated carbon coefficients for some fuel types. Second, we used updated values for global warming potentials. The correct carbon coefficients and global warming potentials are available in the most recent inventory guidance (<http://www.epa.gov/ttnchie1/eiip/techrep.htm#green>).

### Puerto Rico Greenhouse Gas Emissions for 1990

BY SECTOR	CO2 (MMTCE)	Methane (MMTCE)	Nitrous Oxide (MMTCE)	HFCs, PFCs, and SF6 (MMTCE)	Total GHG Emissions (MMTCE)
Energy - Residential	0.0	*	*	*	0.0
Energy - Commercial	0.1	*	*	*	0.1
Energy - Industrial	5.8	*	*	*	5.8
Energy - Transport	0.0	*	*	*	0.0
Energy - Utility	3.7	*	*	*	3.7
Energy - Exported Electricity	0.0	*	*	*	0.0
Energy - Other	*	0.0	0.0	*	0.0
<b>Total Energy</b>	<b>9.7</b>	<b>0.0</b>	<b>0.0</b>	*	<b>9.7</b>
<b>Waste</b>	<b>0.0</b>	<b>0.4</b>	<b>0.0</b>	*	<b>0.4</b>
<b>Agriculture</b>	<b>0.0</b>	<b>0.4</b>	<b>0.0</b>	*	<b>0.4</b>
<b>Industry</b>	<b>0.1</b>	*	<b>0.0</b>	*	<b>0.1</b>
<b>Land Use</b>	<b>-1.1</b>	*	*	*	<b>-1.1</b>
<b>Total</b>	<b>8.6</b>	<b>0.8</b>	<b>0.0</b>	*	<b>9.4</b>

All emissions are reported in million metric tons of carbon equivalent (MMTCE).

An asterisk ( \* ) indicates that emissions of the gas from this sector were zero, insignificant, or not reported.

Emissions due to coal mining and extraction of natural gas and oil are included in the energy – other figures, and emissions from biofuel combustion are excluded.

The major source of carbon dioxide emissions was fossil fuel combustion (nearly 100%), with minor emissions from cement, industrial carbon dioxide manufacturing, and lime manufacturing. Carbon dioxide sinks (i.e., an increase in forest carbon storage) offset about 12% of the total carbon dioxide emissions. Sources of methane emissions were landfills (50%), domesticated animals (25%), manure management (23%), natural gas production (1%) and municipal wastewater (1%). Nitrous oxide emissions were primarily attributable to fertilizer use (60%) and fossil fuel combustion (40%).

Puerto Rico's emissions in 1990 were 2.7 MTCE per capita, compared to 1990 U.S. emissions of 6.4 MTCE per capita.