



## Optia Partners Greenhouse Gas Audit Report October 2008



CARBON REDUCTION INSTITUTE

WORKING TOGETHER FOR A SUSTAINABLE FUTURE.

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## Executive Summary

The Carbon Reduction Institute recently undertook an audit of the greenhouse gas emissions produced from the operations of Optia Partners (Optia) over the 2007 calendar year.

The aim of this audit was to provide Optia with an understanding of its greenhouse inventory, and use this knowledge to plan future reductions of its Carbon footprint. The Carbon Reduction Institute's audits follow the standards outlined by the World Business Council for Sustainable Development's Greenhouse Gas Protocol Corporate Accounting and Reporting Standard. This standard is widely accepted as the benchmark for carbon accounting.

In calculating the emissions from Optia's operations, the Carbon Reduction Institute applied a combination of life cycle emission factors (for items such as travel, electricity, fuel usage and waste) and greenhouse intensity figures from an economic input/output model of the Japanese economy for emissions from products and services purchased within Japan.

The emissions sources included in this study are shown in Table 1.

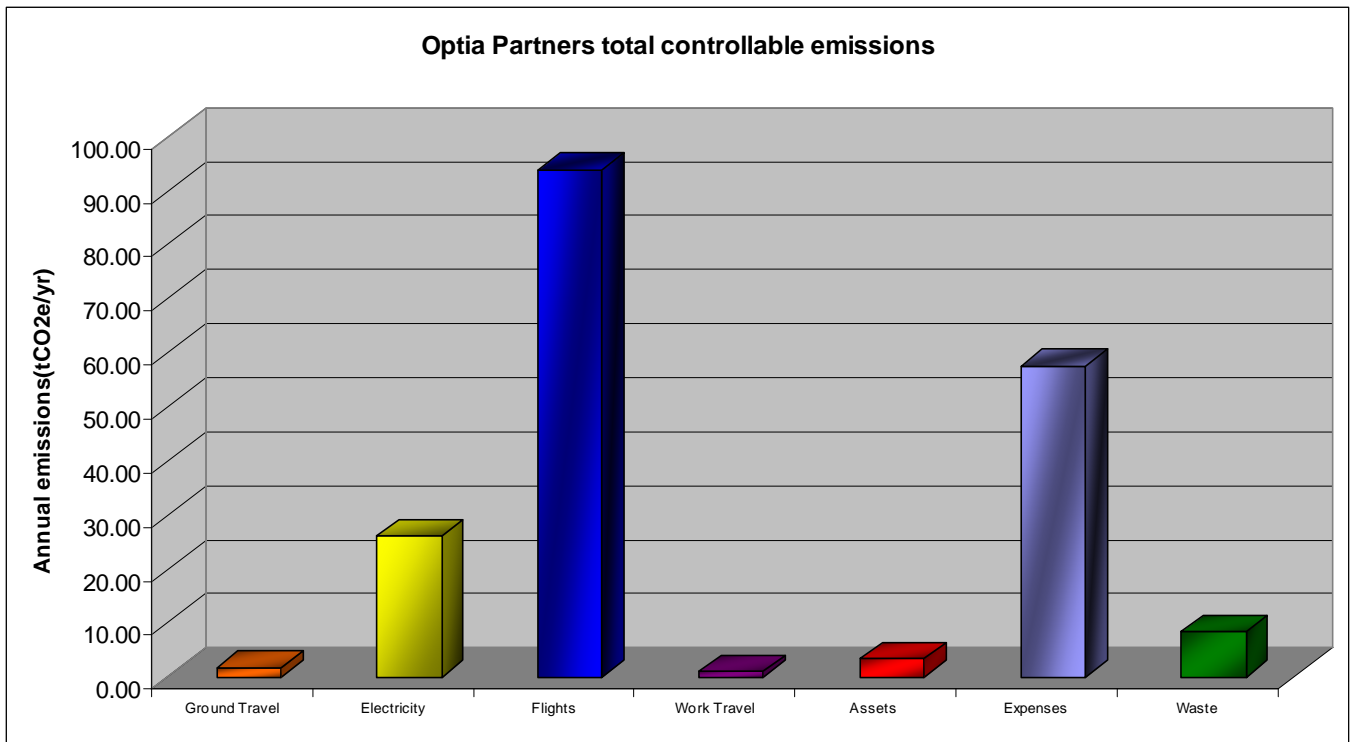
**Table 1: Emissions sources studied**

<b>Scope</b>	<b>Source</b>	<b>Emissions Type</b>
Scope 1	Fuel	- Fuel combusted in company vehicles. N/A.
Scope 2	Electricity	- Indirect emissions from the burning of coal and gas at power plants
Scope 3	Waste	- Methane emissions from the decomposition of waste in landfill
	Staff Ground and Air Transport	- Fuel combustion – direct CO <sub>2</sub> e emissions from car and air travel - Indirect emissions from electricity for the use of trains
	Expenses	- Embodied Emissions of all expenses in the chart of accounts including all products and services purchased
	Assets	- Annualised embodied emissions of all assets based on depreciation rates used for tax purposes

Through the work carried out for this report it has been determined that the total Greenhouse gas (GHG) emissions from all of Optia's operations and activities is **192.19 tonnes of CO<sub>2</sub> equivalent gases (t CO<sub>2</sub>e) per year**. The breakdown for the sources of these emissions can be seen below in Table 2 and Figure 1 below.

**Table 2: Emissions Breakdown Optia 2007**

Emission Source	Emissions (tonnes CO <sub>2</sub> e)
Electricity	26.39
Staff Travel	1.66
Flights	93.80
Work Travel	1.15
Assets	3.36
Expenses	57.54
Waste	8.29
<b>Total</b>	<b>192.19</b>



**Figure 1: Optia's emission sources**

This emissions breakdown highlights that the majority of Optia's greenhouse emissions impact was the result of air travel emissions incurred during a staff trip. Other major sources of emissions were the emissions embodied in expenditure, and electricity. These sources of emissions have been investigated to explore opportunities for reduction.