Achieve 22% Reduction in Carbon Dioxide Emissions by 2015.				
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ormula	•		oon footprint are s	and Scope 3 elements of et out below.
	Source	Scope	Coverage	Method of measurement
	Facilities main offices & Regional Control Centres (RCCs)	Scope 1	Gas	Consumption from metered main offices and the RCCs
	Traffic Officer Service (TOS) vehicles		Fuel – diesel	Traffic Management Directorate (TMD) fleet manager collates TOS fuel use (card purchases)
	Facilities main offices & RCCs		Electricity	Consumption from metered main offices and the RCCs
	Network energy	Scope 2	Electricity (roadside equipment incl. lighting and communications)	Consumption metered and unmetered
			Road – hire and grey fleets	Modal split of business travel is compiled from
	Business	Scope 3	Rail	data collected in the
	travel		Air	HA Management Systems incl.
			Bus and taxi	iExpenses.

Field	Notes
	² Balancing and Settlement Code Procedures BSCP 520 Regulations – Unmetered Supplies Registered with SMRS (Supplier Meter Registration Service).
	Example (illustrative, including example conversion factors not current) Scope 1 Gas consumption 3,200,000 kWh x 0.18523 = 592,736 kgCO ₂ e Diesel usage 2,400,000 litres x 2.672 = 6,412,800 kgCO ₂ e Total Scope 1 expressed in tonnes: 7,005 tCO ₂ e
	Scope 2 Electricity office consumption 1,100,000 kWh x 0.54522 = 599,742 kgCO ₂ e Electricity network consumption 205,000,000 kWh x 0.54522 = 111,770,100 kgCO ₂ e Total Scope 2 expressed in tonnes: 112,370 tCO ₂ e
	Scope 3 (business travel) Road hire and grey fleets 3,500,000 km x 0.20825 = 728,875 kgCO ₂ e Rail 5,800,000 km x 0.05651 = 327,758 kgCO ₂ e Domestic flight 140,000 km x 0.20515 = 28,721 kgCO ₂ e International flight 210,000 km x 0.116 = 24,360 kgCO ₂ e Total Scope 3 (business travel) in tonnes: 1,110 tCO ₂ e
	Scope 1, Scope 2 and Scope 3 (business travel) total summing the above: 120,485 tCO ₂ e.
Start Date	June 2011.
Performance	CO ₂ e emissions to reduce over time.
	Our organisational carbon footprint should meet or exceed the Greening Government Commitment, "Reduce greenhouse gas emissions by 25% from a 09/10 baseline from the whole estate and business-related transport".
Behavioural Impact	Making use of the collected data should encourage behaviours to reduce the HA's carbon footprint.
Comparability	HA's organisational coverage aligns with the HMT minimum reporting requirements for Departments' and Agencies' annual reports.

Field	Notes				
Collection Frequency	Performance metrics of the HA's organisational coverage for Scope 1, Scope 2 and Scope 3 business travel will be monitored quarterly and will be reported annually in the annual report and accounts.				
Clearance Process	As annual report and accounts.				
Time Lag	Three months.				
Data Source	 HA Management Information System (HAMIS) Travel Manager and Oracle. iExpenses (business travel). Traffic Officer Services (Fuel – diesel) amount of fuel purchased supplied monthly via fuel card supplier. Metered bills and unmetered bills from energy suppliers. Unmetered network supplies are calculated using an electricity industry approved method. HA Offices – metered bills from energy suppliers. 				
Type of Data	Management information.				
Robustness and Data Limitations	All metered / invoiced data is considered to be robust. For unmetered network energy, supplies are calculated using an electricity industry approved method. HA's business travel data is retrieved from HA management systems which is partially dependent on the information provided by users.				
	Where consumption data is not available for reporting, estimates will be used in accordance with:				
	https://www.gov.uk/government/publications/guidance-on-how-tomeasure-and-report-your-greenhouse-gas-emissions				
	It should be noted that all information related to carbon emissions reported in the HA's Annual Report will be subject to review by National				
	Audit Office (NAO), as a result of new requirements laid down by HMT.				
Collecting Organisation	Highways Agency.				
Return Format	Tonnes of carbon dioxide equivalent (CO2e).				
Geographical Coverage	England.				

Highways Agency Specification 2013-14 – Technical Note

Field	Notes
How Indicator Can be Broken Down	HMT have asked for reporting to be broken down by scope. Analysis of the HA's organisational coverage emissions relate to the following areas: Office Gas Consumption (Scope 1). Traffic Officer Fuel Consumption (Scope 1). Network Electricity (Scope 2). Office Electricity Consumption (Scope 2). Business travel (Scope 3 business travel) with more detailed analysis by mode available.
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