

2011 Guidelines to Defra / DECC's GHG Conversion Factors for Company Reporting

Produced by AEA for the Department of Energy and Climate Change (DECC) and the Department for Environment, Food and Rural Affairs (Defra)

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Key:	Data fields:		
	light blue	=	Data entry field
	purple	=	Fixed factors used in calculations
	yellow	=	Calculation results
	Reporting Scope:		
	Scope 1	=	Emissions fall into Scope 1 as defined by the GHG Protocol
	Scope 2	=	Emissions fall into Scope 2 as defined by the GHG Protocol
	Scope 3	=	Emissions fall into Scope 3 as defined by the GHG Protocol
	All Scopes	=	All emissions from Scope 1 or 2 and Scope 3 as defined by the GHG Protocol
	Outside of Scopes	=	Emissions fall outside of the Scopes 1,2 or 3 as defined by the GHG Protocol (e.g. direct emissions of CO_2 from burning biomass/biofuels)
	Scope 1 OR Scope 3	=	Emissions can fall into either Scope 1 or Scope 3 as defined by the GHG Protocol (e.g. depends on ownership of vehicle stock for transport)
	Scope 2, 3	=	Includes emissions resulting from electricity supplied to the consumer that are counted in both Scope 2 (electricity GENERATED and supplied to the national grid) and Scope 3 (due to LOSSES in transmission and distribution of electricity through the national grid to the consumer), as defined by the GHG Protocol

Introduction Last updated: Aug-11

General Introduction

What are Greenhouse Gas Conversion Factors?

Greenhouse Gases (GHGs) can be measured by recording emissions at source by continuous emissions monitoring <u>or</u> by estimating the amount emitted by multiplying activity data (such as the amount of fuel used) by relevant emissions conversion factors.

These conversion factors allow activity data (e.g. litres of fuel used, number of miles driven, tonnes of waste sent to landfill) to be converted into kilograms of carbon dioxide equivalent (CO_2e). CO_2e is a universal unit of measurement that allows the global warming potential of different GHGs to be compared.

Values for CH_4 and N_2O are presented as CO_2 equivalents (CO_2e) using Global Warming Potential (GWP) factors^{*}, consistent with reporting under the Kyoto Protocol and the second assessment report of the Intergovernmental Panel on Climate Change (IPCC).

What are the major changes and updates from the 2010 version?

Major changes and updates from the 2010 version are as follows:

i. In previous years, the UK electricity emission factors in Annex 3 have been calculated based solely on UK electricity generation - i.e. excluding imported electricity via the electricity grid interconnects with Ireland and France.

Following a review of this methodology it has been decided to revise it to factor in electricity imports in this 2011 update for the full time series. In general the UK is a net electricity exporter to Ireland and a net electricity importer from France. Because France has significantly lower emission factors for electricity generation (as electricity is predominantly produced from nuclear power) this has resulted in a reduction in the UK grid average emission factors across the time-series. The degree to which these have changed varies by year according to the relative proportion of electricity imported.

ii. New emission factors have been provided in Annex 1, Annex 6 and Annex 7 for fuels supplied at public refuelling stations with the national average proportion of biofuel blended into them. These emission factors are intended to supplement the existing emission factors for 100% conventional petrol and diesel (i.e. refined from crude oil).

iii. The lifecycle emissions factors and calculations for waste in Annex 9 have been expanded (as well as updated /amended) to include a wider range of materials and also products, based on information on new analysis provided by WRAP.

iv. All other updates are essentially revisions of the previous year's data based on new/improved data using existing calculation methodologies (i.e. similar methodological approach as for the 2010 update).

v. A supporting methodological paper to explain how all of the emission factors have been derived is being produced. This methodological paper is expected to be available by end August 2011 and will be made available here: <u>http://www.defra.gov.uk/environment/economy/business-efficiency/reporting</u>

Note: Care should be taken to use emission factors consistent with each other for comparability of results - i.e. DO NOT mix the use of direct and indirect emission factors or emission factors for different GHG Protocol Scopes (see 'What is the difference between direct and indirect emissions?' below for more information).

Who should use these factors?

These factors are publicly available for use by organisations and individuals within the UK. We <u>do not</u> <u>recommend</u> that they are used by organisations or individuals overseas as the emission factors are specific to the UK and many will vary to a very significant degree for other countries. For example, average factors for transport are based on the composition of the UK fleet and UK-specific occupancy/loading factors where relevant. If your organisation would like to report overseas electricity emissions, you should consult Annex 10.

What should I use these factors for?

These conversion factors should be used to measure and report GHG emissions for:

1. Your organisation - Organisations that wish to calculate the greenhouse gas emissions they are responsible for should make use of these conversion factors. Refer to Defra's website for guidance on how to measure and report GHG emissions in a clear and consistent manner: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/

2. Your personal carbon footprint - Individuals who wish to calculate the carbon footprint from their day-today activity may be interested in the Government's Act on CO₂ Calculator: <u>http://carboncalculator.direct.gov.uk/index.html</u>

3. Other reasons such as project planning and greenhouse gas emission reductions projects.

What should I not use the factors for?

These factors are not for use with EU ETS, CCAs or CRC - see links below for details relevant to these

For reporting emissions under the EU Emissions Trading Scheme, please refer to: <u>http://www.environment-agency.gov.uk/business/topics/pollution/32232.aspx</u>

For reporting emissions under Climate Change Agreements, please refer to: http://www.decc.gov.uk/en/content/cms/what_we_do/change_energy/tackling_clima/ccas/ccas.aspx

For reporting emissions under the new CRC Energy Efficiency Scheme (CRC), please refer to: http://www.environment-agency.gov.uk/business/topics/pollution/126698.aspx

Policymakers in National, Regional and Local Government should consult the document *Greenhouse Gas Policy Evaluation and Appraisal in Government Departments* available at: <u>http://www.decc.gov.uk/en/content/cms/about/ec_social_res/iag_guidance/iag_guidance.aspx</u>

Do I need to update all my earlier calculations using the new conversion factors each year?

Only in certain cases will you need to update previous calculations due to the release of the annual update to the GHG conversion factors. The conversion factors provided in these annexes provide broadly two types of data:

(a) Emission factors provided in a time-series (e.g. Annex 3 - Electricity Factors): These <u>should be</u> <u>updated</u> for historical reporting with *each annual update* - i.e. you should recalculate emissions from previous years using the latest time-series dataset. This is because there can be revisions to earlier emission factor data due to improvements in the calculation methodology or UK GHG inventory datasets they are based upon. For example in this 2011 update:

Electricity consumption year:	EF to use reporting in 2011:	EF used in 2010 reporting:
2011	new 2009*	N/A
2010	new 2009*	2008*
2009	new 2009*	2008*
2008	new 2008	2008
2007	new 2007	2007
2006	new 2006	2006
etc.	etc.	etc.

* This is the most recent year for which an emission factor is available for the reporting year

(b) **Other emission factors:** The other factors provided in the annexes are figures produced generally for the *most recent year available*. In the majority of cases this is 2 years behind the update year (i.e. based on 2009 data for the current 2011 update). A company **should not** generally recalculate their emissions for all previous years using the newer factors. The most recent factors should only be applied for reporting on years up to 2 years prior to the most recent dataset.

In most cases (except for natural gas, and perhaps bioenergy due to changing sources) the fuel emission factors in general are unlikely to vary very significantly between different years. However, specific transport factors generally *do* change on an annual basis and the new factors should only be used for the most relevant/recent year of reporting. Earlier versions of the conversion factors from previous updates may

therefore be used for older data as necessary/appropriate.

In summary, you should **only** recalculate previous year's emissions using the new factors in the following cases:

A. When calculating emissions from use of electricity or water (both of which are time series emission factors). In this case the updated emission factor time series should be checked to see if they have changed for relevant previous years and time series data updated as necessary in reporting.

B. When recalculating emissions for a year consistent with the data basis of the new update (other than electricity or water emission factor data). For example, if you are now reporting emissions for 2009-10, you should also recalculate the 2008-9 emissions using the 2010 update data, as these are for the most part based on 2008 datasets. Figures reported for 2007 should use emission factors from the 2009 update, which are mostly based on 2007 data.

Which Conversion Factors should I use?

- To calculate emissions from the use of Fuels, see Annex 1
- To calculate emissions from Combined Heat and Power (CHP), see Annex 2
- To calculate emissions from the use of Electricity, see Annex 3
- To understand which industrial processes lead to GHG emissions, see Annex 4
- To convert greenhouse gases into carbon dioxide equivalents, see <u>Annex 5</u>
- To calculate emissions associated with Passenger Transport, see Annex 6
- To calculate emissions associated with Freight Transport, see <u>Annex 7</u>
- To calculate emissions from the use of Refrigeration and Air Conditioning Equipment, see Annex 8

• To calculate life-cycle emissions from the use of Water, Biomass and Biofuels, and from Waste Disposal, see <u>Annex 9</u>

- To calculate emissions from the use of Overseas Electricity, see Annex 10
- For the typical Calorific Values and Densities of UK Fuels, see Annex 11
- To convert between common units of energy, volume, mass and distance, see Annex 12
- To estimate emissions from your supply chain, see <u>Annex 13</u>

Units

All emissions factors are given in units of kg (kilograms) of carbon dioxide (CO_2) equivalent. GHG emissions are sometimes quoted in figures of mass of *Carbon equivalent*, rather than *Carbon Dioxide equivalent*. To convert carbon equivalents into carbon dioxide equivalents (CO_2e), multiply by 44/12.

To convert emissions of greenhouse gases to carbon dioxide equivalent units, see **Annex 5**. For other unit conversions see **Annexes 11** and **12**.

What is the difference between direct and indirect emissions?

The definition used in used in the **GHG Protocol** for direct and indirect emissions is slightly different than for these **Annexes** (which are consistent also with the Government's Act on CO_2 Calculator and Carbon

Offsetting Accreditation Scheme). In these Annexes direct and indirect emissions are defined as follows:

Direct GHG emissions are those emissions emitted at the point of use of a fuel/energy carrier (or in the case of electricity, at the point of generation).

Indirect GHG emissions are those emissions emitted prior to the use of a fuel/energy carrier (or in the case of electricity, prior to the point of generation), i.e. as a result of extracting and transforming the primary energy source (e.g. crude oil) into the energy carrier (e.g. petrol). Emissions from the production of vehicles or infrastructure are not considered.

The **GHG Protocol** defines direct and indirect emissions slightly differently as follows:

Direct GHG emissions are emissions from sources that are owned or controlled by the reporting entity.

Indirect GHG emissions are emissions that are a consequence of the activities of the reporting entity, but occur at sources owned or controlled by another entity.

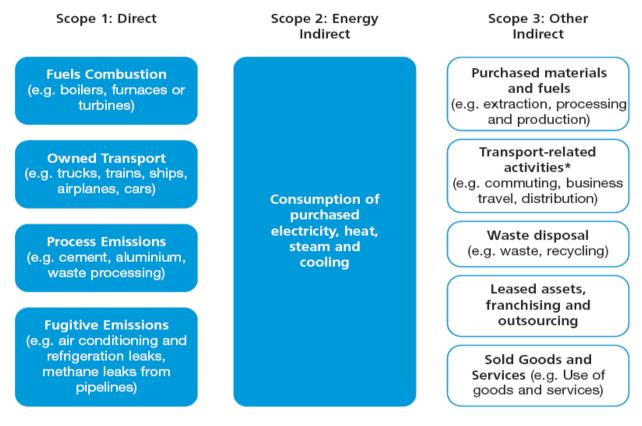
How do I use this document?

This document provides GHG emissions conversion factors for a variety of activities. You can directly input your activity data into the spreadsheet which will then calculate your emissions. Alternatively you can use the emissions factors provided for use in your own spreadsheet or programme.

If you are using this document in order to calculate your organisation's GHG footprint, you must first read the Defra/DECC 'Guidance on how to measure and report on your greenhouse gas emissions' which is available at http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/

Where applicable, each Annex has a section called **Scopes & Boundaries** which gives a brief outline of what the different emissions factors include. Where possible, links to more detailed source information are also provided in each Annex.

Summary of the main types of emissions to be reported under each scope



Missing factors and additional guidance

If you require GHG conversion factors that you cannot find here, or this guidance is unclear, or you have additional questions, please send us an email at <u>ghgreporting@defra.gsi.gov.uk</u>. We cannot undertake to provide all the conversion factors.

Useful links:

Defra publishes guidance for businesses on how to measure and report their GHG emissions: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting

The Department for Transport provides guidance to help companies report their work-related travel: <u>http://www.dft.gov.uk/pgr/sustainable/greenhousegasemissions</u>

The Carbon Trust also provides information about carbon footprinting for companies including a carbon footprint calculator available at http://www.carbontrust.co.uk/cut-carbon-reduce-costs/calculate/carbon-footprinting/pages/carbon-footprinting.aspx

The Publicly Available Specification (PAS): 2050 provides a method for measuring the lifecycle greenhouse gas emissions from goods and services. It is available at http://www.bsigroup.com/en/Standards-and-Publications/Industry-Sectors/Energy/PAS-2050/

The Government's Act on CO₂ Calculator may be used to calculate individual's personal carbon footprint from their day-to-day activity. It is available at: <u>http://carboncalculator.direct.gov.uk/index.html</u>

Changes since Version 1.0 (11/07/11):

Version 1.1:Annex 9 - added missing calculation formulae for 2010/11 in Table 9a.(08/08/10)Version 1.2:Version 1.2:Annex 10 - correction to emissions due to losses from transmission and distribution of
electricity in Table 10b.
Annex 10 - correction to footnotes for Tables 10a, 10b and 10c to correct IEA source.

Annex 1 - Converting from fuel use to carbon dioxide equivalent emissions Last updated: Jun-11

How to use this Annex

1) Identify the amount of fuel used for each fuel type

2) Identify the units. Are you measuring fuel use in terms of mass, volume or energy?

3) If you are measuring fuel use in terms of energy is your unit of measurement net energy or gross energy? (Please see paragraph below on net and gross energy. In the event that this is unclear you should contact your fuel supplier).

4) Identify the appropriate conversion factor that matches the unit you are using. If you cannot find a factor for that unit, Annex 12 gives guidance on converting between different units of mass, volume, length and energy.

5) Multiply the amount of fuel used by the conversion factor to get total emissions in kilograms of carbon dioxide equivalent (kg CO₂e). The excel spreadsheet calculates this automatically following your entry of the amount of fuel used into the appropriate box.

Note: In the UK biofuels are added to virtually all of the transport fuel sold by filling stations (and by most fuel wholesalers) and this has the effect of slightly reducing the greenhouse gas emissions of the fuel. This is reflected in the emission factors given below. For fuel purchased at filling stations you should use the factor labelled "retail station biofuel blend". If you are purchasing pure petrol or diesel which you know has not been blended with biofuels then you should use the factor labelled "100% mineral fuel".

Four tables are presented here, the first of which provides emission factors by unit mass, and the second by unit volume. Tables 1c and 1d provide emission factors for energy on a Gross and Net CV basis respectively; emission factors on a Net CV basis are higher (see definition of Gross CV and Net CV in *italics* below). It is **important to use the correct emission factor**, otherwise emissions calculations will over - or under-estimate the results. If you are making calculations based on energy use, you must check (e.g. with your fuel supplier) whether these values were calculated on a Gross CV or Net CV basis and use the appropriate factor. Natural Gas consumption figures quoted in kWh by suppliers in the UK are generally calculated (from the volume of gas used) on a Gross CV basis - see Transco website: http://www.imasco.cc.uk/services/cvalue/vinfo.htm. Therefore the emission factor in Table 1c (Gross CV basis) should be used by default for calculation of emissions from Natural Gas in the VL has is in their calculations instead.

Gross CV or higher heating value (HHV) is the CV under laboratory conditions. Net CV or 'lower heating value (LHV) is the useful calorific value in typical real world conditions (e.g. boiler plant). The difference is essentially the latent heat of the water vapour produced (which can be recovered in laboratory conditions).

Annex 1 Scopes & Boundaries:

Scope 1: Direct emissions of CO₂, CH₄ and N₂O from the combustion of fuel. Scope 3: Indirect emissions associated with the extraction and transport of primary fuels as well as the refining, distribution, storage and retail of finished fuels. Emission factors are based on data from the JEC Well-To-Wheels study, for further information see the following links: http://ies.irc.ec.europa.eu/jec-research-collaboration/downloads-jec.html

Further information on scopes is available from Defra's website in the guidance on reporting at: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/ OR from the Greenhouse Gas Protocol's website at: http://www.ghgprotocol.org/standards/corporate-standard

How were these factors calculated?

For further explanation on how these emission factors have been derived, please refer to the GHG conversion factor methodology paper available here: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/

Table 1a							Scope 1		Scope 3	All Scopes			Scope 1		Scope 3	All Scopes
	Converting fuel types by unit r	mass			CO ₂	CH₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Total GHG	CO ₂	CH ₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Total GHG
	Fuel Type	Amount used per	Units	x k	g CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e per unit	kg CO ₂ e per unit	kg CO ₂ e per unit	Total kg	Total kg	Total kg	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
		year		р	er unit	per unit	per unit				CO ₂	CO ₂ e	CO ₂ e			
	Aviation Spirit		tonnes	х	3127.9	32.1	31.0	3191.1	563.8	3754.9						
	Aviation Turbine Fuel ¹		tonnes	х	3149.7	1.5	31.0	3182.2	585.7	3767.9						
	Biofuels			S	ee Anne	x 9			See Annex 9	See Annex 9	See Annex	(9			See Annex 9	See Annex 9
	Burning Oil ¹		tonnes	х	3149.7	6.7	8.6	3165.0	585.3	3750.3						
	CNG ²		tonnes	х	2702.0	4.0	1.6	2707.6	398.8	3106.4						
	Coal (industrial) ³		tonnes	х	2339.0	1.4	42.7	2383.1	381.2	2764.3						
	Coal (electricity generation)4		tonnes	х	2238.3	0.4	19.5	2258.2	369.3	2627.5						
	Coal (domestic) ⁵		tonnes	х	2506.3	329.7	37.8	2873.8	450.6	3324.4						
	Coking Coal		tonnes	х	2955.4	30.4	70.7	3056.4	481.6	3538.0						
	Diesel (retail station biofuel blend) ¹¹		tonnes	х	3043.9	1.5	21.8	3067.2	637.5	3704.7						
	Diesel (100% mineral diesel) ¹¹		tonnes	х	3164.3	1.5	22.0	3187.8	607.6	3795.4						
	Fuel Oil 6		tonnes	х	3212.5	2.8	13.0	3228.3	545.1	3773.4						
	Gas Oil 7		tonnes	х	3190.0	3.5	334.1	3527.6	607.6	4135.2						
	LNG ⁸		tonnes	х	2702.0	4.0	1.6	2707.6	954.5	3662.1						
	Lubricants		tonnes	х	3171.1	1.9	8.5	3181.5	386.2	3567.7						
	Naphtha		tonnes	х	3131.3	2.7	8.0	3142.1	441.7	3583.8						
	Other Petroleum Gas		tonnes	х	2621.4	3.3	69.3	2694.0	319.3	3013.3						
	Petrol (retail station biofuel blend) ¹²		tonnes	х	3037.1	4.5	8.8	3050.4	573.5	3623.9						
	Petrol (100% mineral petrol) ¹²		tonnes	х	3135.0	4.6	8.9	3148.5	559.8	3708.3						
	Petroleum Coke		tonnes	x	3089.9	2.3	70.3	3162.4	376.4	3538.8						
	Wood			S	ee Anne	x 9			See Annex 9	See Annex 9	See Annex	(9			See Annex 9	See Annex 9
	Total										() 0		0	0	0

Annex 1 - Converting from fuel use to carbon dioxide equivalent emissions Last updated: Jun-11

Tab

					Scope 1		Scope 3	All Scopes			Scope 1		Scope 3	All Scopes
Converting fuel types by un			CO ₂	CH₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Total GHG	CO ₂	CH₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Total GHG
Fuel Type	Amount used per	Units	x kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e per unit	kg CO ₂ e per unit	kg CO ₂ e per unit	Total kg	Total kg	Total kg	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
	year		per unit	per unit	per unit				CO ₂	CO ₂ e	CO ₂ e			
Aviation Spirit		litres	x 2.212	1 0.0227	0.0219	2.2568	0.3988	2.6556						
Aviation Turbine Fuel ¹		litres	x 2.521	B 0.0012	0.0248	2.5478	0.4690	3.0168						
Biofuels			See Ann	ex 9			See Annex 9	See Annex 9	See Ann	ex 9			See Annex 9	See Annex 9
Burning Oil ¹		litres	x 2.529	9 0.0054	0.0069	2.5421	0.4701	3.0122						
CNG ²		litres	x 0.472	B 0.0007	0.0003	0.4738	0.0698	0.5436						
Diesel (retail station biofuel blend) ¹¹		litres	x 2.553	0.0012	0.0183	2.5725	0.5348	3.1073						
Diesel (100% mineral diesel) ¹¹		litres	x 2.648	0.0012	0.0184	2.6676	0.5085	3.1761						
Gas Oil 7		litres	x 2.766	7 0.0030	0.2898	3.0595	0.5270	3.5865						
LNG ⁸		litres	x 1.222	6 0.0018	0.0007	1.2251	0.4319	1.6570						
LPG		litres	x 1.488	4 0.0010	0.0023	1.4918	0.1868	1.6786						
Natural Gas		cubic metre	x 2.015	4 0.0030	0.0012	2.0196	0.1974	2.2170						
Petrol (retail station biofuel blend) ¹²		litres	x 2.235	2 0.0034	0.0064	2.2450	0.4220	2.6670						
Petrol (100% mineral petrol) ¹²		litres	x 2.301		0.0065	2.3117	0.4110	2.7227						
Wood			See Ann	ex 9			See Annex 9	See Annex 9	See Ann	ex 9			See Annex 9	See Annex 9
Total										0	0	0 0	0	(
					<u> </u>			411.0			<u> </u>			
					Scope 1		Scope 3	All Scopes			Scope 1		Scope 3	All Scopes
Converting fuel types on an	energy, Gross CV	basis ⁹	CO ₂	CH₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Total GHG	CO_2	CH₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Total GHG

					Scope 1		Scope 3	All Scopes			Scope 1		Scope 3	All Scopes
Converting fuel types on an	energy, Gross CV basis ⁹		CO ₂	CH₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Total GHG	CO ₂	CH ₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Total G
Fuel Type	Amount used per Units	х	kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e per unit	kg CO ₂ e per unit	kg CO ₂ e per unit	Total kg	Total kg	Total kg	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
	year		per unit	per unit	per unit				CO ₂	CO ₂ e	CO ₂ e			
Aviation Spirit	kWh	х	0.23735	0.00244	0.00235	0.24214	0.04278	0.28492						
Aviation Turbine Fuel ¹	kWh	x	0.24542	0.00012	0.00242	0.24795	0.04564	0.29359						
Biofuels			See Anne	ex 9			See Annex 9	See Annex 9	See Annex	(9			See Annex 9	See Annex 9
Burning Oil ¹	kWh	х	0.24562	0.00052	0.00067	0.24681	0.04564	0.29245						
CNG ²	kWh	х	0.18322	0.00027	0.00011	0.18360	0.02704	0.21064						
Coal (industrial) ³	kWh	х	0.32637	0.00019	0.00596	0.33253	0.05265	0.38518						
Coal (electricity generation) ⁴	kWh	х	0.32232	0.00006	0.00280	0.32518	0.05318	0.37836						
Coal (domestic) ⁵	kWh	х	0.29582	0.03892	0.00446	0.33920	0.05318	0.39238						
Coking Coal	kWh	x	0.32636	0.00335	0.00781	0.33752	0.05318	0.39070						
Diesel (retail station biofuel blend)11	kWh	х	0.24160	0.00010	0.00170	0.24340	0.05040	0.29380						
Diesel (100% mineral diesel) ¹¹	kWh	x	0.24989	0.00012	0.00173	0.25174	0.04798	0.29972						
Electricity			See Annex 3				See Annex 3	See Annex 3	See Annex 3		See Annex 3	See Annex 3		
Fuel Oil 6	kWh	x	0.26613	0.00023	0.00108	0.26744	0.04516	0.31260						
Gas Oil 7	kWh	x	0.25191	0.00027	0.02639	0.27857	0.04798	0.32655						
LNG ⁸	kWh	x	0.18322	0.00027	0.00011	0.18360	0.06473	0.24833						
LPG	kWh	x	0.21419	0.00015	0.00033	0.21467	0.02689	0.24156						
	therms	x	6.2773	0.0044	0.0098	6.2915	0.78801	7.07951						
Lubricants	kWh	x	0.26270	0.00016	0.00070	0.26356	0.03200	0.29556						
Naphtha	kWh	x	0.23717	0.00021	0.00061	0.23798	0.03346	0.27144						
Natural Gas	kWh	x	0.18322	0.00027	0.00011	0.18360	0.01795	0.20155						
	therms	x	5.3697	0.0079	0.0033	5.3808	0.52593	5.9067						
Other Petroleum Gas	kWh	х	0.18630	0.00024	0.00493	0.19146	0.02269	0.21415						
Petrol (retail station biofuel blend) ¹²	kWh	x	0.23510	0.00030	0.00070	0.23610	0.04430	0.28040						
Petrol (100% mineral petrol) ¹²	kWh	x	0.23963	0.00035	0.00068	0.24066	0.04279	0.28345						
Petroleum Coke	kWh	x	0.31106	0.00023	0.00708	0.31837	0.03789	0.35626						
Refinery Miscellaneous	kWh	x	0.24512	0.00023	0.00067	0.24602	0.02986	0.27588						
	therms	x	7.1839	0.0066	0.0196	7.2102	0.87502	8.0852						
Wood			See Anne	x 9			See Annex 9	See Annex 9	See Annex	(9			See Annex 9	See Annex 9
Total									() () (0 0	0	

Annex 1 - Converting from fuel use to carbon dioxide equivalent emissions Last updated: Jun-11

Last upuate

				Scope 1		Scope 3	All Scopes			Scope 1		Scope 3	All Scopes
Converting fuel types on an e	nergy, Net CV basis ¹⁰	CO ₂	CH₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Total GHG	CO ₂	CH₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Total GHG
Fuel Type	Amount used per Units	x kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e per unit	kg CO ₂ e per unit	kg CO ₂ e per unit	Total kg	Total kg	Total kg	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
	year	per unit	per unit	per unit				CO ₂	CO ₂ e	CO ₂ e			
Aviation Spirit	kWh	x 0.24985	0.00257	0.00248	0.25489	0.04504	0.29993						
Aviation Turbine Fuel ¹	kWh	x 0.25834	0.00012	0.00254	0.26100	0.04804	0.30904						
Biofuels		See Ann	ex 9			See Annex 9	See Annex 9	See Ann	nex 9			See Annex 9	See Annex 9
Burning Oil ¹	kWh	x 0.25854	0.00055	0.00071	0.25980	0.04804	0.30784						
CNG ²	kWh	x 0.20381	0.00030	0.00012	0.20423	0.03008	0.23431						
Coal (industrial) ³	kWh	x 0.34355	0.00020	0.00628	0.35003	0.05542	0.40545						
Coal (electricity generation) ⁴	kWh	x 0.33929	0.00006	0.00295	0.34230	0.05598	0.39828						
Coal (domestic) ⁵	kWh	x 0.31139	0.04096	0.00470	0.35705	0.05598	0.41303						
Coking Coal	kWh	x 0.34354	0.00353	0.00822	0.35529	0.05598	0.41127						
Diesel (retail station biofuel blend) ¹¹	kWh	x 0.25700	0.00010	0.00180	0.25890	0.05380	0.31270						
Diesel (100% mineral diesel) ¹¹	kWh	x 0.26584	0.00013	0.00184	0.26781	0.05105	0.31886						
Electricity		See Ann	ex 3			See Annex 3	See Annex 3	See Ann	nex 3			See Annex 3	See Annex 3
Fuel Oil 6	kWh	x 0.28312	0.00024	0.00115	0.28451	0.04804	0.33255						
Gas Oil 7	kWh	x 0.26799	0.00029	0.02807	0.29635	0.05105	0.34740						
LNG ⁸	kWh	x 0.20381	0.00030	0.00012	0.20423	0.07200	0.27623						
LPG	kWh	x 0.22942	0.00016	0.00036	0.22994	0.02880	0.25874						
	therms	x 6.7237	0.0047	0.0105	6.7389	0.84405	7.58295						
Lubricants	kWh	x 0.27947	0.00017	0.00075	0.28038	0.03404	0.31442						
Naphtha	kWh	x 0.24965	0.00022	0.00064	0.25051	0.03522	0.28573						
Natural Gas	kWh	x 0.20381	0.00030	0.00012	0.20423	0.01996	0.22419						
	therms	x 5.9730	0.0087	0.0036	5.9854	0.58502	6.57042						
Other Petroleum Gas	kWh	x 0.20250	0.00026	0.00536	0.20811	0.02467	0.23278						
Petrol (retail station biofuel blend) ¹²	kWh	x 0.24750	0.00040	0.00070	0.24860	0.04670	0.29530						
Petrol (100% mineral petrol) ¹²	kWh	x 0.25224	0.00037	0.00072	0.25333	0.04504	0.29837						
Petroleum Coke	kWh	x 0.32743	0.00024	0.00745	0.33512	0.03988	0.37500						
Refinery Miscellaneous	kWh	x 0.25802	0.00024	0.00071	0.25897	0.03143	0.29040						
	therms	x 7.5620	0.0070	0.0207	7.5896	0.92107	8.51067						
Wood		See Ann	ex 9			See Annex 9	See Annex 9	See Ann	nex 9			See Annex 9	See Annex 9
Total									0	0 0) 0	0	0

Sources UK Greenhouse Gas Inventory for 2009 (AEA), available at: http://naei.defra.gov.uk

Digest of UK Energy Statistics 2010 (DECC), available at: http://www.decc.gov.uk/en/content/cms/statistics/publications/dukes/dukes.aspx

Notes

- ¹ Burning oil is also known as kerosene or paraffin used for heating systems. Aviation Turbine fuel is a similar kerosene fuel specifically refined to a higher quality for aviation.
- ² CNG = Compressed Natural Gas is usually stored at 200 bar in the UK for use as an alternative transport fuel.
- ³ Average emission factor for coal used in sources other than power stations and domestic, i.e. industry sources including collieries, Iron & Steel, Autogeneration, Cement production, Lime production, Other industry, Miscellaneous, Public Sector, Stationary combustion - railways and Agriculture. Users who wish to use coal factors for types of coal used in specific industry applications should use the factors given in the UK ETS.
- ⁴ This emission factor should only be used for coal supplied for electricity generation (power stations). Coal supplied for domestic or industrial purposes have different emission factors.
- ⁵ This emission factor should only be used for coal supplied for domestic purposes. Coal supplied to power stations or for industrial purposes have different emission factors.
- ⁶ Fuel oil is used for stationary power generation. Also use these emission factors for similar marine fuel oils.
- ⁷ Gas oil is used for stationary power generation, by off-road and agricultural vehicles (for which use it is known as 'red diesel') and 'diesel' rail in the UK. Also use these emission factors for similar marine diesel oil and marine gas oil fuels.
- ⁸ LNG = Liquefied Natural Gas, usually shipped into the UK by tankers. LNG is usually used within the UK gas grid, however it can also be used as an alternative transport fuel.
- ⁹ Emission factors calculated on a Gross Calorific Value basis
- ¹⁰ Emission factors calculated on a Net Calorific Value basis.
- ¹¹ Emission factors calculated for diesel supplied at public refuelling stations, factoring in the biodiesel supplied in the UK as a proportion of the total supply of diesel+biodiesel (3.6% by unit volume, 3.3% by unit energy). These estimates have been made based on the most recently available reports on the Renewable Transport Fuel Obligation (RTFO). For more information see: http://www.dft.gov.uk/bgr/statistics/datablespublications/biofuels
- ¹² Emission factors calculated for petrol supplied at public refuelling stations, factoring in the bioethanol supplied in the UK as a proportion of the total supply of petrol-bioethanol (= 2.% by unit volume, 1.9% by unit energy). These estimates have been made based on the most recently available reports on the Renewable Transport Fuel Obligation (RTFO). For more information see: http://www.dft.gov.uk/bor/statistics/datablespublications/biofuels

Annex 2 - Combined Heat and Power - Imports and Exports

Last updated: Jun-09

How to use this Annex

If you use all the output of a Combined Heat and Power (CHP) plant to meet the energy needs of your business (i.e. you are not exporting any of the electricity or heat for others to use), there is no need for you to attribute the emissions from the CHP plant between the electricity and heat output in your reporting. This is because you are in this case responsible for the full emissions resulting from the fuel used for CHP. You can calculate the total CHP plant emissions from the fuel used with the standard conversion factors at **Annex 1**.

If the *heat user* and the *electricity user* are different individuals/installations, greenhouse gas emissions should be calculated as per **Annex 1** (i.e. calculate fuel consumption then apply the appropriate conversion factor for that fuel) and then divided between the *heat user* and the *electricity user*.

It is typically roughly twice as efficient to generate heat from fossil fuels as it is to generate electricity. Therefore you can attribute the greenhouse gas emissions from the CHP plant in the ratio 1:2 respectively per kWh of heat and electricity generated. Emissions per kWh of heat or electricity produced by the CHP plant may be calculated in this way using the appropriate formula below:

Emissions (in kqCO ₂ e) per kWh electricity =	2 x total emissions (in kgCO ₂ e)
	2 x total electricity produced + total heat produced (in kWh)
Emissions (in kgCO ₂ e) per kWh heat =	total emissions (in kgCO ₂ e)
	2 x total electricity produced + total heat produced (in kWh)

Table 2a	Calculate emission	ons per kWh elect	ricity	
	Total emissions	Total electricity	Total heat	kg CO ₂ e/kWh
	(kg CO ₂ e)	produced	produced	electricity

Table 2b	Calculate emission	ons per kWh heat		
	Total emissions	Total electricity	Total heat	kgCO ₂ e/kWh
	(kg CO ₂ e)	produced	produced	heat

I buy my electricity from a producer/plant that I know is CHP. Which factor should I use?

If you purchase electricity for own consumption from a CHP plant, you should use the 'Grid Rolling Average' factor in Annex 3.

How were these factors calculated?

For further explanation on how these emission factors have been derived, please refer to the GHG conversion factor methodology paper available here: <u>http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/</u>

Annex 3 - Converting from purchased electricity use to carbon dioxide equivalent emissions Last updated: Jun-11

How to use this Annex

The factors presented in the three tables below are a timeseries of electricity CO_2 emission factors per kWh GENERATED (Table 3a, i.e. before losses in transmission/distribution), electricity CO_2 emission factors per kWh LOSSES in transmission/distribution (Table 3b) and per kWh CONSUMED (Table 2, i.e. for the final consumer, including transmission/distribution losses).

In the majority of cases, the 'Grid Rolling Average' factor from Table 3c should be used. Tables 3a and 3b are included to assist companies reporting in a manner consistent with the Greenhouse Gas Protocol format.

To calculate emissions of carbon dioxide associated with use of UK grid electricity:

1) Identify the amount electricity used, in units of kWh;

2) Multiply this value by the conversion factor for UK Grid Rolling Average electricity. Use **Table 3c** for calculating GHG emissions resulting from electricity provided from the national/local grid.

Annex 3 Scopes & Boundaries:

Scope 2: Direct emissions of CO₂, CH₄ and N₂O from the combustion of fuel in power stations to generate electricity (Table 3a Direct GHG, i.e. excludes losses in transmission and distribution).

Scope 3: In electricity generation, this includes indirect GHG emissions associated with the extraction and transport of primary fuels as well as the refining, distribution and storage of finished fuels (Table 3a, 3b and 3c). The Greenhouse Gas Protocol also attributes direct GHG emissions associated with losses from electricity transmission and distribution (Table 3b) to Scope 3.

Direct GHG emissions given in Table 3c are a combination of (Scope 2) Direct GHG emissions from Table 3a and (Scope 3) Direct GHG emissions from Table 3b.

Further information on scopes is available from Defra's website in the guidance on reporting at: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/

OR from the Greenhouse Gas Protocol's website at:

http://www.ghgprotocol.org/standards/corporate-standard

How are the factors calculated?

The electricity conversion factors given in Table 3c represent the average carbon dioxide emission from the UK national grid per kWh of electricity used at the point of final consumption (i.e. electricity grid transmission and distribution losses are included), factoring in net imports of electricity via the interconnects with Ireland and France¹. This represents a combination of the emissions directly resulting from electricity generation (Table 3a) and from electricity grid losses (Table 3b). The Direct GHG emission factors include only carbon dioxide, methane and nitrous oxide emissions at UK power stations (plus those from the proportion of imported electricity), with the Indirect GHG emission factors including the emissions resulting from production and eleivery of fuel to these power stations (i.e. from gas rigs, refineries and collieries, etc).

This factor changes from year to year, as the fuel mix consumed in UK power stations changes, and the proportion of net imported electricity also changes". Because these annual changes can be large (the factor depends very heavily on the relative prices of coal and natural gas as well as fluctuations in peak demand and renewables), and to assist companies with year to year comparability, a 'grid rolling average' factor is presented which is the average of the grid Conversion factor over the last 5 vears. This factor is updated annually.

* NEW: this is a methodology change from the 2010 update (and earlier updates), where imported electricity was not factored into calculations. The UK is a net importer of electricity from the interconnect with France, and a net exporter of electricity to Ireland according to DUKES (2010). More details on the change in methodology, its impacts and the rational will be provided in the methodology paper for the 2011 update, which will be made available on Defra's website (anticipated early September 2011) at: http://www.defra.gov.uk/env/moment/economy/business-efficiency/reporting/

I generate my electricity onsite. How do I calculate emissions from this?

If you generate electricity from 'owned or controlled' renewable sources backed by Renewable Energy Guarantee of Origin (REGOs) within the UK, you should account for these emissions using the 'Renewables' factor. Please see Annex G in Defra's Guidance on how to measure and report your GHG emissions for an explanation of how to report on-site generated renewable energy: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/

How should I report the carbon emissions from my use of green tariffs?

You should account for all electricity purchased for own consumption from the national grid or a third party using the 'Grid Rolling Average' factor (irrespective of the source of the electricity). Please refer to Annex G of the Defra Guidance for further guidance on reporting green tariffs: http://www.defra.gov.uk/enviny/business-efficiency/reporting/

How should I report the carbon emissions from my use of CHP-backed tariff?

You should account for all electricity purchased for own consumption from the national grid or a third party using the 'Grid Rolling Average' factor (irrespective of the source of the electricity).

Do I need to update all my calculations using the new conversion factors each year?

Emission factors for electricity are provided in time-series (e.g. for grid electricity) and <u>should</u> be updated for historical reporting with the annual update. This is because there can be revisions for earlier data due to the improvements in the calculation methodology or UK GHG inventory datasets they are based upon. Please refer to the general introduction for further details.

How were these factors calculated?

For further explanation on how these emission factors have been derived, please refer to the GHG conversion factor methodology paper available here: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/

NOTE: Please use EITHER Table 3a + Table 3b, OR Table 3c to calculate emissions to avoid double-counting. (More information is also provided on the use of these tables in the introduction to the Annex.)

otal I

GHG

kg CO2e pe

kWh

0.09843

0.09400

0.09023 0.08732 0.08215 0.07248

0.06594 0.06248

0.06272

0.06465

0.06547

0.06625

0.06425

0

Grand Total GHG

kg CO2e pe kWh

0.78927

0.75377

0.73377 0.72343 0.70003 0.65851 0.62149

0.58480 0.56575 0.54441
0.53413

0.52964

0.53609

0.55051

0.55604

0.56246

0.55069

0

Annex 3 - Converting from purchased electricity use to carbon dioxide equivalent emissions

Table 3a

							Sc	ope 2	
Electricity emission factors from 1990 to					Grid Rolling				Total Direct
2009 per kWh (electricity GENERATED):	CO ₂	CH ₄	N ₂ O	Total GHG	Average ¹ :	CO ₂	CH ₄	N ₂ O	GHG
UK Grid Electricity Year	kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO2e per	Amount USED	kg CO ₂	kg CO ₂ e	kg CO2e	kg CO2e per
	per kWh	per kWh	per kWh	kWh	per year, kWh	per kWh	per kWh	per kWh	kWh
1990	0.68505	0.00018	0.00561	0.69084		0.68505	0.00018	0.00561	0.69084
1991	0.65916	0.00017	0.00542	0.66475		0.67210	0.00018	0.00552	0.67780
1992	0.61845	0.00016	0.00509	0.62370		0.65422	0.00017	0.00537	0.65977
1993	0.54915	0.00016	0.00420	0.55352		0.62795	0.00017	0.00508	0.63320
1994	0.52665	0.00017	0.00394	0.53076		0.60769	0.00017	0.00485	0.61271
1995	0.50519	0.00017	0.00370	0.50906		0.57172	0.00017	0.00447	0.57636
1996	0.49909	0.00017	0.00340	0.50265		0.53971	0.00017	0.00406	0.54394
1997	0.46253	0.00017	0.00292	0.46562		0.50852	0.00017	0.00363	0.51232
1998	0.46984	0.00018	0.00297	0.47298		0.49266	0.00017	0.00338	0.49622
1999	0.43933	0.00018	0.00254	0.44205		0.47520	0.00017	0.00310	0.47847
2000	0.46543	0.00019	0.00280	0.46842		0.46724	0.00018	0.00292	0.47035
2001	0.48355	0.00020	0.00300	0.48675		0.46414	0.00018	0.00284	0.46716
2002	0.47103	0.00020	0.00283	0.47406		0.46584	0.00019	0.00283	0.46885
2003	0.49230	0.00020	0.00306	0.49557		0.47033	0.00019	0.00284	0.47337
2004	0.48714	0.00020	0.00294	0.49028		0.47989	0.00020	0.00292	0.48301
2005	0.47943	0.00021	0.00302	0.48267		0.48269	0.00020	0.00297	0.48586
2006	0.50674	0.00022	0.00333	0.51030		0.48733	0.00021	0.00304	0.49057
2007	0.49892	0.00023	0.00311	0.50225		0.49291	0.00021	0.00309	0.49621
2008	0.48548	0.00024	0.00290	0.48862		0.49154	0.00022	0.00306	0.49482
2009	0.44550	0.00025	0.00261	0.44837		0.48322	0.00023	0.00299	0.48644
Other electricity factor									-
Renewables ²	0	0	0	0		0	0	0	0
Total									

	Sco	pe 2		Scope 3	All Scopes		
CO ₂	CH₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Total GHG	% Transmission	% Net
Total kg CO ₂	Total kg CO ₂ e	Total kg CO₂e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e	and Distribution Losses	Imports o Electricity
						8.1%	3.8%
						8.3%	5.2%
						7.5%	5.3%
						7.2%	5.2%
						9.6%	5.2%
						9.1%	5.0%
						8.4%	4.8%
						7.8%	4.8%
						8.4%	3.5%
						8.3%	3.9%
						8.4%	3.8%
						8.6%	2.8%
						8.3%	2.2%
						8.5%	0.6%
						8.7%	2.0%
						7.2%	2.2%
						7.2%	2.0%
						7.1%	1.4%
						7.4%	2.9%
						7.5%	0.8%
							71070
0	0	0	0	0	0		

Table 3b

							Sc	ope 3		Scope 3	All Scopes		Sco	pe 3		Scope 3	All Scopes		
Electricity emission factors from 1990 to					Grid Rolling				Total Direct	Total Indirect	Grand Total				Total Direct	Total Indirect	Grand Total		
2009 per kWh (electricity LOSSES):	CO ₂	CH ₄	N ₂ O	Total GHG	Average ¹ :	CO ₂	CH₄	N ₂ O	GHG	GHG	GHG	CO ₂	CH₄	N ₂ O	GHG	GHG	GHG	% Transmission	% Net
UK Grid Electricity Year	kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO2e per	Amount USED				kg CO2e per	kg CO ₂ e per	kg CO2e per	Total kg CO ₂	Total kg	Total kg	Total kg	Total kg CO ₂ e	Total kg CO ₂ e	and Distribution	Imports
	per kWh	per kWh	per kWh	kWh	per year, kWh	per kWh	per kWh	per kWh	kWh	kWh	kWh		CO ₂ e	CO ₂ e	CO ₂ e			Losses	Electric
1990	0.06019	0.00002	0.00049	0.06070			0.00002			0.00795	0.06865							8.1%	3.8%
1991	0.05942	0.00002	0.00049	0.05993		0.05981	0.00002	0.00049	0.06031	0.00799	0.06830							8.3%	5.2%
1992	0.05048	0.00001	0.00042	0.05091		0.05670	0.00001	0.00047	0.05718	0.00709	0.06427							7.5%	5.3%
1993	0.04241	0.00001	0.00032			0.05313	0.00001	0.00043	0.05357	0.00647	0.06004							7.2%	5.2%
1994	0.05575	0.00002	0.00042					0.00043	0.05409	0.00836	0.06245							9.6%	5.2%
1995	0.05040		0.00037				0.00002			0.00745	0.05956							9.1%	5.0%
1996	0.04579		0.00031				0.00002			0.00652	0.05587							8.4%	4.8%
1997	0.03910		0.00025				0.00002		0.04704	0.00565	0.05269							7.8%	4.8%
1998	0.04306	0.00002	0.00027				0.00002			0.00584	0.05300							8.4%	3.5%
1999	0.03951	0.00002	0.00023				0.00002		0.04387	0.00544	0.04931							8.3%	3.9%
2000	0.04260	0.00002	0.00026				0.00002		0.04229	0.00535	0.04764							8.4%	3.8%
2001	0.04528	0.00002	0.00028				0.00002		0.04218	0.00535	0.04753							8.6%	2.8%
2002	0.04238	0.00002	0.00025	0.04266				0.00026	0.04284	0.00514	0.04798							8.3%	2.29
2003	0.04555	0.00002	0.00028				0.00002		0.04334	0.00531	0.04865							8.5%	0.6%
2004	0.04648		0.00028				0.00002			0.00559	0.05034							8.7%	2.0%
2005	0.03745	0.00002	0.00024				0.00002		0.04371	0.00468	0.04839							7.2%	2.25
2006	0.03942		0.00026	0.03969			0.00002		0.04254	0.00473	0.04727							7.2%	2.0%
2007	0.03801	0.00002	0.00024	0.03826			0.00002		0.04166	0.00469	0.04635							7.1%	1.4%
2008	0.03872	0.00002	0.00023				0.00002		0.04028	0.00485	0.04513							7.4%	2.9%
2009	0.03602	0.00002	0.00021	0.03625		0.03792	0.00002	0.00023	0.03817	0.00481	0.04298							7.5%	0.8%
Other electricity factor																			
Renewables ²	0	0	0	0		0	0	0	0	0	0								
Total												0	0	(0	0	0		

Annex 3 - Converting from purchased electricity use to carbon dioxide equivalent emissions

Table 3c

							Sco	pe 2. 3 ³		Scope 3	All Scopes		Scop	e 2, 3 ³		Scope 3	All Scopes		
Electricity emission factors from 1990 to					Grid Rolling				Total Direct	Total Indirect	Grand Total				Total Direct	Total Indirect	Grand Total		
2009 per kWh (electricity CONSUMED):	CO ₂	CH ₄	N ₂ O	Total GHG	Average ¹ :	CO ₂	CH₄	N ₂ O	GHG	GHG	GHG	CO ₂	CH ₄	N ₂ O	GHG	GHG	GHG	% Transmission	% Net
UK Grid Electricity Year	kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e per	Amount USED	kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e per	kg CO2e per	kg CO ₂ e per	Total kg CO	2 Total kg	Total kg	Total kg	Total kg CO ₂ e	Total kg CO ₂ e	and Distribution	Imports of
	per kWh	per kWh	per kWh	kWh	per year, kWh	per kWh	per kWh	per kWh	kWh	kWh	kWh		CO ₂ e	CO ₂ e	CO ₂ e			Losses	Electricity
1990	0.74524	0.00020	0.00610	0.75154		0.74524	0.00020	0.00610	0.75154	0.10638	0.85792							8.1%	3.8%
1991	0.71858	0.00018	0.00591	0.72468		0.73191	0.00019	0.00601	0.73811	0.10456	0.84267							8.3%	5.2%
1992	0.66894	0.00018	0.00550	0.67461		0.71092	0.00019	0.00584	0.71695	0.10109	0.81804							7.5%	5.3%
1993	0.59156	0.00017	0.00453	0.59626		0.68108	0.00018	0.00551	0.68677	0.09670	0.78347							7.2%	5.2%
1994	0.58241	0.00019	0.00435	0.58695		0.66135	0.00018	0.00528	0.66681	0.09568	0.76249							9.6%	5.2%
1995	0.55559	0.00019	0.00407	0.55984			0.00018		0.62847	0.08960	0.71807							9.1%	5.0%
1996		0.00019	0.00371	0.54877			0.00018			0.08407	0.67736							8.4%	4.8%
1997	0.50163	0.00018	0.00317	0.50498			0.00018		0.55936	0.07813	0.63749							7.8%	4.8%
1998	0.51290	0.00020	0.00324	0.51633			0.00019		0.54337	0.07537	0.61874							8.4%	3.5%
1999		0.00020	0.00277	0.48180		0.51877	0.00019	0.00339		0.07138	0.59373							8.3%	3.9%
2000	0.50803	0.00020	0.00305	0.51129			0.00019		0.51263	0.06913	0.58176							8.4%	3.8%
2001	0.52883		0.00328	0.53232			0.00020		0.50934	0.06783	0.57717							8.6%	2.8%
2002		0.00022	0.00308	0.51671			0.00020		0.51169	0.06744	0.57913							8.3%	2.2%
2003		0.00022	0.00335	0.54142			0.00021		0.51671	0.06803	0.58474							8.5%	0.6%
2004		0.00022	0.00322	0.53706			0.00021		0.52776	0.06973	0.59749							8.7%	2.0%
2005	0.51688	0.00023	0.00326	0.52037			0.00022		0.52958	0.06933	0.59891							7.2%	2.2%
2006	0.54616		0.00359	0.54999			0.00023		0.53311	0.07020	0.60331							7.2%	2.0%
2007		0.00025	0.00335	0.54051			0.00023			0.07094	0.60881							7.1%	1.4%
2008		0.00026	0.00313	0.52759			0.00024			0.07058	0.60568							7.4%	2.9%
2009	0.48152	0.00027	0.00283	0.48462		0.52114	0.00025	0.00323	0.52462	0.06906	0.59368							7.5%	0.8%
Other electricity factor																			
Renewables ²	0	0	0	0		0	0	0	0	0	0								
Total													0 0	0	0	0	0		

Sources Based on UK Greenhouse Gas Inventory for 2009 (AEA) (available at <u>http://naei.defra.gov.uk</u>) according to the amount of CO₂, CH₄ and N₂O emitted from major power stations per unit of electricity consumed from the DECC's Digest of UK Energy Statistics (DUKES) 2010 Table 5.6, evaluable at: http://www.decc.gov.uk/en/content/invs/statistics/publications/dukes/dukes.aspx

Notes

Emission Factor (Electricity CONSUMED) = Emission Factor (Electricity GENERATED) + Emission Factor (Electricity LOSSES) The electricity conversion factors given represent the average carbon dioxide emission from the UK national grid (plus net imports) per kWh of electricity generated (supplied to grid) in Table 3a, and in Table 3 cor kWh electricity used at the point of final consumption (i.e. transmission and distribution losses are included, from Table 3b). These factors include only direct carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O) emissions at UK power stations (similarly for imported electricity trom other countries) and do not include emissions resulting from production and delivery of the 10 these power stations (i.e. from gas rigs, refineries and collieries, etc.).

This factor changes from year to year, as the fuel mix consumed in UK power stations changes (as well as the % of net electricity imports via interconnectors). Because these annual changes can be large (the factor depends very heavily on the relative prices of coal and natural gas as well as fluctuations in peak demand and renewables), and to assist companies with year to year comparability, the factor presented is the grid rolling average of the grid conversion factor over the previous 5 years. This factor is updated annually.

² Organisations should only use the 'Renewables' factor for reporting emissions from electricity generated from owned or controlled renewable sources backed by Renewable Energy Guarantee of Origin (REGOs) certificates. Please refer to Annex G of the Defra Guidance for further guidance on reporting renewable energy:

http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/

³ Includes both Direct GHG emissions per kWh (electricity GENERATED), which are counted as Scope 2, as well as Direct GHG emissions per kWh (electricity LOSSES), which are counted as Scope 3. This does not include indirect GHG emissions, which are different and accounted separately, but also fail into Scope 3 or reporting.

Annex 4 - Typical Process Emissions

Last updated: Jun-09

How to use this Annex

The Kyoto protocol seeks to reduce emissions of the following six greenhouse gases.

Carbon Dioxide CO₂ Methane CH₄ Nitrous oxide N₂O Perfluorocarbons PFC Sulphur Hexafluoride SF₆ Hydrofluorocarbons HFC

Below is a table that highlights the gases that are likely to be produced by a variety of the industries in the UK that are most likely to have a significant impact on climate change. The dark areas represent the gases that are likely to be produced.

Table 4

	related emissions ¹					
Process		CH_4	Emi N ₂ O	ission PFC	SF.	
Mineral	Cement Production		1.20	FIC		SF ₆ HFC
Products	Lime Production					
	Limestone Use ²					
	Soda Ash Production and Use					
	Fletton Brick Manufacture ³					
Chemical	Ammonia					
Industry	Nitric Acid					
	Adpic Acid					
	Urea					
	Carbides					
	Caprolactam					
	Petrochemicals					
Metal	Iron, Steel and Ferroalloys					
Production	Aluminium					
	Magnesium					
	Other Metals					
Energy	Coal mining					
Industry	Solid fuel transformation					
	Oil production					
	Gas production and distribution					
	Venting and flaring from oil/gas production					
Other	Production of Halocarbons					
	Use of Halocarbons and SF ₆					
	Organic waste management					

If you have identified process emissions of greenhouse gases other than those covered in this Annex these may be converted to carbon dioxide equivalents by using the factors provided in **Annex 5**.

Sources Greenhouse Gas Inventory Reference Manual, Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories (IPCC, 1997)

Notes

adapted for UK processes by AEA

- ¹ These process related emissions refer to the types of processes that are used specifically in the UK. Process emissions might be slightly different for processes operated in other countries.
- ² For use of limestone in Flue Gas Desulphurisation (FGD) and processes such as those in the glass industry. Not all uses of limestone release CO₂.
- ³ This is specific to Fletton brick manufacture at the mineral processing stage, a process that uses clay with high organic content. Other types of brick manufacturing in the UK do not release Greenhouse Gases during the processing stage.

Annex 5 - Emission Factors for converting Greenhouse Gas Emissions into Carbon Dioxide Equivalents (including emissions from refrigerants and air conditioning systems)

How to use this Annex

Global Warming Potentials (GWPs) are used to compare the impact of the emission of equivalent masses of different GHGs relative to carbon dioxide. For example, it is estimated that the emission of 1 kilogram of methane will have the same warming impact¹ as 21 kilograms of carbon dioxide. Therefore the GWP of methane is 21. The GWP of carbon dioxide is, by definition, 1.

The conversion factors in **Table 5a** incorporate (GWP) values relevant to reporting under UNFCCC, as published by the IPCC in its <u>Second</u> <u>Assessment Report</u>, Climate Change 1995. The Science of Climate Change. Contribution of Working Group I to the Second Assessment Report of the Intergovernmental Panel on Climate Change. (Eds. J. T Houghton et al, 1996).

Revised GWP values have since been published by the IPCC in the Fourth Assessment Report (2007) but current UNFCCC Guidelines on Reporting and Review, adopted before the publication of the Fourth Assessment Report, require emission estimates to be based on the GWPs in the IPCC Second Assessment Report. A second table, **Table 5b**, includes other greenhouse gases not listed in the Kyoto protocol or covered by reporting under UNFCCC. These GWP conversion factors have been taken from the IPCC's Fourth Assessment Report (2007).

CFCs and HCFCs

Not all refrigerants in use are classified as greenhouse gases for the purposes of the UNFCCC and Kyoto Protocol (e.g. CFCs, HCFCs). These gases are controlled under the Montreal Protocol and as such GWP values are listed in **Table 5b**

Mixed/Blended gases

GWP values for refrigerant blends should be calculated on the basis of the percentage blend composition (e.g. the GWP for R404a that comprises is 44% HFC125, 52% HFC143a and 4% HFC134a is [2800 x 0.44] + [3800 x 0.52] + [1300 x 0.04] = 3260). A limited selection of common blends is presented in Tables 5a and 5b.

How were these factors calculated?

For further explanation on how these emission factors have been derived, please refer to the GHG conversion factor methodology paper available here: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/

Table 5a

Emission	Chemical formula	Amount x	Conversion	х	Unit	Total kg CO ₂ e
		Emitted per	Factor		conversion	
		Year in tonnes	(GWP)		tonnes to kg	
Carbon Dioxide	CO2	x	1	х	1,000	
Methane	CH ₄	x	21	х	1,000	
Nitrous Oxide	N ₂ O	x	310	х	1,000	
HFC-23	CHF ₃	x	11,700	х	1,000	
HFC-32	CH ₂ F ₂	x	650	х	1,000	
HFC-41	CH ₃ F	x	150	х	1,000	
HFC-125	CHF ₂ CF ₃	x	2,800	х	1,000	
HFC-134	CHF ₂ CHF ₂	x	1,000	х	1,000	
HFC-134a	CH ₂ FCF ₃	x	1,300	х	1,000	
HFC-143	CH ₃ CF ₃	x	300	х	1,000	
HFC-143a	CH ₃ CHF ₂	x	3,800	х	1,000	
HFC-152a	CF ₃ CHFCF ₃	x	140	х	1,000	
HFC-227ea	CF ₃ CH ₂ CF ₃	x	2,900	х	1,000	
HFC-236fa	CHF ₂ CH ₂ CF ₃	x	6,300	х	1,000	
HFC-245fa	CH ₃ CF ₂ CH ₂ CF ₃	x	560	х	1,000	
HFC-43-I0mee	CF ₃ CHFCHFCF ₂ CF ₃	x	1,300	х	1,000	
Perfluoromethane (PFC-14)	CF ₄	x	6,500	х	1,000	
Perfluoroethane (PFC-116)	C ₂ F ₆	x	9,200	х	1,000	
Perfluoropropane (PFC-218)	C ₃ F ₈	x	7,000	х	1,000	
Perfluorocyclobutane (PFC-318)	c-C ₄ F ₈	x	8,700	х	1,000	
Perfluorobutane (PFC-3-1-10)	C ₄ F ₁₀	x	7,000	х	1,000	
Perfluoropentane (PFC-4-1-12)	C ₅ F ₁₂	x	7,500	х	1,000	
Perfluorohexane (PFC-5-1-14)	C ₈ F ₁₄	x	7,400	х	1,000	
Sulphur hexafluoride	SF ₆	x	23,900	х	1,000	
Blends						
R404A	52:44:4 blend of HFC-143a, -125 and -134a	x	3,260	х	1,000	
R407C	23:25:52 blend of HFC-32, -125 and -134a	x	1,526	х	1,000	
R408A	47:7:46 blend HCFC-22, HFC-125 and HFC-143a	x	2,795	х	1,000	
R410A	50:50 blend of HFC-32 and -125	x	1,725	х	1,000	
R507	50:50 blend of HFC-125 and HFC-143a	x	3,300	х	1,000	
R508B	46:54 blend of HFC-23 and PFC-116	x	10,350	х	1,000	
Total						

¹ Over the period of one century. The length of time a GWP is referenced to is important. 100 year GWPs were adopted for use under the UNFCCC and Kyoto Protocol.

Annex 5 - Emission Factors for converting Greenhouse Gas Emissions into Carbon Dioxide Equivalents (including emissions from refrigerants and air conditioning systems)

Table 5b

Factors for Process Emissions - Oth	her Greenhouse Gases (e.g. other refrigerants)				
Emission		Amount 2	Conversion	x Unit	Total kg CO ₂ e
		Emitted per	Factor	conversion	
		Year in tonnes	(GWP)	tonnes to kg	
Substances controlled by the Montreal	Protocol				
CFC-11/R11 = Trichlorofluoromethane	CCI ₃ F	>	4,750	x 1,000	
CFC-12/R12 = Dichlorodifluoromethane	CCI ₂ F ₂	>	10,900	x 1,000	
CFC-13	CCIF ₃	>	14,400	x 1,000	
CFC-113	CCI ₂ FCCIF ₂	>	6,130	x 1,000	
CFC-114	CCIF ₂ CCIF ₂	>	10,000	x 1,000	
CFC-115	CCIF ₂ CF ₃	>	7,370	x 1,000	
Halon-1211	CBrCIF ₂	>	1,890	x 1,000	
Halon-1301	CBrF ₃	>	7,140	x 1,000	
Halon-2402	CBrF ₂ CBrF ₂	>	1,640	x 1,000	
Carbon tetrachloride	CCI ₄	>	1,400	x 1,000	
Methyl bromide	CH ₃ Br	>	5	x 1,000	
Methyl chloroform	CH ₃ CCI ₃	>	146	x 1,000	
HCFC-22/R22 = Chlorodifluoromethane	CHCIF ₂	>	1,810	x 1,000	
HCFC-123	CHCI ₂ CF ₃	>	77	x 1,000	
HCFC-124	CHCIFCF ₃	>	609	x 1,000	
HCFC-141b	CH ₃ CCI ₂ F	>	725	x 1,000	
HCFC-142b	CH ₃ CCIF ₂	2	2,310	x 1,000	
HCFC-225ca	CHCl ₂ CF ₂ CF ₃	2	122	x 1,000	
HCFC-225cb	CHCIFCF2CCIF2	>	595	x 1,000	
Other Perfluorinated compounds					
Nitrogen trifluoride	NF ₃	>	17,200	x 1,000	
PFC-4-1-12	C ₅ F ₁₂	×	9,160	x 1,000	
PFC-9-1-18	C ₁₀ F ₁₈	×	7,500	x 1,000	
trifluoromethyl sulphur pentafluoride	SF5CF3	×	17,700	x 1,000	
Fluorinated ethers					
HFE-125	CHF ₂ OCF ₃	×	14,900	x 1,000	
HFE-134	CHF ₂ OCHF ₂	>	6,320	x 1,000	
HFE-143a	CH ₃ OCF ₃	×	756	x 1,000	
HCFE-235da2	CHF ₂ OCHCICF ₃	×	350	x 1,000	
HFE-245cb2	CH ₃ OCF ₂ CHF ₂	×	708	x 1,000	
HFE-245fa2	CHF2OCH2CF3	×	659	x 1,000	
HFE-254cb2	CH ₃ OCF ₂ CHF ₂	×	359	x 1,000	
HFE-347mcc3	CH ₃ OCF ₂ CF ₂ CF ₃	>	575	x 1,000	
HFE-347pcf2	CHF ₂ CF ₂ OCH ₂ CF ₃	×	580	x 1,000	
HFE-356pcc3	CH ₃ OCF ₂ CF ₂ CHF ₂	×	110	x 1,000	
HFE-449sl (HFE-7100)	C ₄ F ₉ OCH ₃	, ,	297	x 1,000	
HFE-569sf2 (HFE-7200)	C ₄ F ₉ OC ₂ H ₅	×	59	x 1,000	
HFE-43-10pccc124 (H-Galden1040x)	CHF2OCF2OC2F4OCHF2	×	1,870	x 1,000	
HFE-236ca12 (HG-10)	CHF ₂ OCF ₂ OCHF ₂	, ,	2,800	x 1,000	
HFE-338pcc13 (HG-01)	CHF ₂ OCF ₂ CF ₂ OCHF ₂		1,500	x 1,000	
Others					
PFPMIE	CF ₃ OCF(CF ₃)CF ₂ OCF ₂ OCF ₃		10,300	x 1,000	
Dimethylether	CH ₃ OCH ₃		1	x 1,000	
Methylene chloride	CH ₂ Cl ₂		8.7	x 1,000	
Methyl chloride	CH ₃ CI	×	13	x 1,000	
R290 = Propane	C ₃ H ₈		3.3	x 1,000	
R600A = Isobutane	C ₄ H ₁₀	2		x 1,000	
Blends					
R406A	55:41:4 blend of HCFC-22, HCFC-142b and R600A	, ,	1,943	x 1,000	
R409A	60:25:15 blend of HCFC-22, HCFC-124 and HCFC-142b			x 1,000	
R502	48.8:51.2 blend of HCFC-22 and CFC-115	×	4,657	x 1,000	

Sources The conversion factors in Table 4a above incorporate global warming potential (GWP) values published by the IPCC in its Second Assessment Report (Climate Change 1995. The Science of Climate Change. Contribution of Working Group I to the Second Assessment Report of the Intergovernmental Panel on Climate Change. (Eds. J.T Houghton et al). Published for the Intergovernmental Panel on Climate Change by Cambridge University Press 1996). Revised GWP values have since been published by the IPCC in the Third Assessment Report (2001) and Fourth Assessment Report (2007) but current UNFCCC Guidelines on Reporting and Review, adopted before the publication of the Third and Fourth Assessment Report, require emission estimates to be based on the GWPs in the IPCC Second Assessment Report.

The conversion factors in Table 5b above incorporate (GWP) values published by the IPCC in its Fourth Assessment Report (Working Group I Report "The Physical Science Basis", 2007, available at: http://www.ipcc.ch/ipccreports/ar4-wg1.htm).

Notes Not all refrigerants in use are classified as greenhouse gases for the purposes of the Climate Change Programme (e.g. CFCs, HCFCs, other substances listed in Table 5b). GWP values for refrigerant HFC blends should be calculated on the basis of the percentage blend composition. For example, the GWP for R404A that comprises is 44% HFC125, 52% HFC143a and 4% HFC134a is 2800 x 0.44 + 3800 x 0.52 + 1300 x 0.04 = 3260. Similarly R407C is a blend of 23% of R32, 25% of R125 and 52% of R134a = 650 x 0.23 + 2800 x 0.25 + 1300 x 0.52 = 1526.

Last updated: Jun-11

How to use this Annex

Emissions can be calculated *either* from fuel use (see Table 6a), which is the most accurate method of calculation, or estimated from *distance* travelled using UK average emission factors for different modes of transport (other Tables 6b - 6i). For public transport (Tables 6k and 6i) emissions are presented per passenger, rather than per vehicle. Therefore enter passenger kilometres travelled to calculate emissions (e.g. if one person travels 500km, then passenger kilometres travelled are 1500).

Simply multiply activity (either fuel used, kilometres travelled or passenger kilometres travelled) by the appropriate conversion factor. An excel spreadsheet is provided for ease of use at http://www.defra.gov.uk/environment/economy/business-efficiency/reporting

Annex 6 Scopes & Boundaries:

Scope 1: Direct emissions of CO₂, CH₄ and N₂O from the combustion of fuel from owned/controlled transport.

Scope 3: Indirect emissions associated with the extraction and transport of primary fuels as well as the refining, distribution, storage and retail of finished fuels. Emission factors are based on data from the JEC Well-To-Wheels study, for further information see:

http://ies.jrc.ec.europa.eu/jec-research-collaboration/about-jec.html

Scope 1 OR Scope 3: Direct emissions from transport can fall into either Scope 1 or Scope 3, depending on the vehicle ownership/level of control. For vehicles owned or directly controlled by a reporting company, direct emissions should be reported under Scope 1. However, emissions resulting from transport-related activities in vehicles not owned or controlled by the reporting entity should be reported under Scope 3. Examples of direct emissions from passenger transport that would be reported under Scope 3 include:

- Employee business travel by non-owned means, i.e. public transport such as: bus, rail, ferry and taxi and air travel (except for the companies actually owning/controlling the fleet / operating the services);

Employees commuting to and from work;

In general it is recommended that the 'control' approach is used in order to decide whether to report emissions as Scope 1 or Scope 3. The control approach is itself divided into two methods – financial and operational (where the financial control approach is the one most commonly recommended).

- A company has financial control over an operation if the company has the ability to direct the financial and operating policies of the operation with a view to gaining economic benefits from its activities.

- A company has operational control over an operation if the company or one of its subsidiaries has the full authority to introduce and implement its operating policies at the operation.

In the transport sector, 'open book accounts' provide a very good illustration of the financial and operational control methods. In the case of an open book account, a transport operator provides vehicles to a customer, but the customer pays the fuel bill for those vehicles directly, rather than simply paying the transport operator for the logistics service.

In the open book situation, the customer has financial control, but the transport operator has operational control. The customer and the transport operator will have to decide whether the emissions resulting from these transport operations are the customer's or the transport operator's Scope 1. Whichever method is used, it is very important that it is clearly stated in all reporting, and that it is consistently applied by both organisations.

A further consideration is the treatment of leased assets (e.g. vehicles), which depends on the organisational boundaries set and the control approach. Further information on scopes, control and leased assets is available in the introduction to these Annexes, and from Defra's website in the guidance on reporting at:

http://www.defra.gov.uk/environment/economy/business-efficiency/reporting OR from the Greenhouse Gas Protocol's website at: http://www.ghgprotocol.org/standards/corporate-standard

How do I determine UK rail travel distances (in miles) where start and destination stations are known?

1. Click on web link: http://www.networkrail.co.uk/aspx/3828.aspx

2. Select the Route Index under Train Timetables

3. Use your mouse cursor to click on the appropriate train route in the 'Table' column that matches your starting and destination stations. This should open a corresponding timetable with rail distances.

4. In the timetable, refer to the 'Miles' columns on the left to determine mileage between your starting and destination stations.

How were these factors calculated?

For further explanation on how these emission factors have been derived, please refer to the GHG conversion factor methodology paper available here: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting

Annex 6 - Passenger Transport Conversion Tables Last updated: Jun-11

					Scope 1	OR Scope		Scope 3	All Scopes
Standard Road Transport F	uel Conversion Factors						Total Direct	Total Indirect	Grand Total
				CO ₂	CH₄	N ₂ O	GHG	GHG	GHG
Fuel used*	Total units used	Units	х	kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e per	kg CO ₂ e per	kg CO ₂ e per
				per unit	per unit	per unit	unit	unit	unit
Petrol (retail station biofuel blend)		litres		2.2352	0.0034	0.0064	2.2450	0.4220	2.6670
Petrol (100% mineral petrol)		litres		2.3018	0.0034	0.0065	2.3117	0.4110	2.7227
Diesel (retail station biofuel blend)		litres		2.5530	0.0012	0.0183	2.5725	0.5348	3.1073
Diesel (100% mineral diesel)		litres		2.6480	0.0012	0.0184	2.6676	0.5085	3.1761
Compressed Natural Gas (CNG)		kg		2.7020	0.0040	0.0016	2.7076	0.3988	3.1064
Liquid Petroleum Gas (LPG)		litres		1.4884	0.0010	0.0023	1.4918	0.1868	1.6786
Total									

	Scope 1 OF	R Scope 3		Scope 3	All Scopes
~~	011		Total Direct GHG	Total Indirect GHG	Grand Total GHG
CO ₂	CH ₄	N₂O			
Total kg CO ₂	Total kg	Total kg	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
	CO ₂ e	CO2e			
	2 -	2 -			
					-
					-
0	0	0	0	0	

Sources UK Greenhouse Gas Inventory for 2009 (AEA, 2011), available at: http://naei.defra.gov.uk/ Digest of UK Energy Statistics 2010 (DECC), available at: http://www.decc.gov.uk/en/content/cms/statistics/publications/dukes/dukes.aspx Carbon factors for fuels (UKPIA, 2004)

1 imperial gallon (UK) = 4.546 litres Notes

Emission factors for petrol and diesel from public refuelling stations have been estimated based on information from the most recent

reporting on the Renewable Transport Fuels Obligation (RTFO). See Annex 1 for more detailed information.

* Note: In the UK biofuels are added to virtually all of the transport fuel sold by filling stations (and by most fuel wholesalers) and this has the effect of slightly reducing the greenhouse gas emissions of the fuel. This is reflected in the emission factors above. For fuel purchased at filling stations you should use the factor labelled "retail station biofuel blend". If you are purchasing pure petrol or diesel which you know has not been blended with biofuels then you should use the factor labelled "100% mineral fuel".

Table 6b

					Scope 1	OR Scope	3	Scope 3	4	All Scopes
Passenger Road Transport Conversion Fac	tors: Petrol Cars						Total Direct	Total Indirect	G	Frand Total
				CO ₂	CH₄	N ₂ O	GHG	GHG		GHG
Size of car	Total units travelled	Units	х	kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e per	kg CO ₂ e per	kç	g CO ₂ e per
				per unit	per unit	per unit	unit	unit	ur	nit
Small petrol car, up to 1.4 litre engine		miles	х	0.27378	0.00026	0.00135	0.27539	0.04888		0.32427
		km	х	0.17012	0.00016	0.00084	0.17112	0.03037		0.20149
Medium petrol car, from 1.4 - 2.0 litres		miles	х	0.33972	0.00026	0.00135	0.34133	0.06066		0.40199
		km	х	0.21109	0.00016	0.00084	0.21209	0.03769		0.24978
Large petrol cars, above 2.0 litres		miles	х	0.47970	0.00026	0.00135	0.48131	0.08563		0.56694
		km	х	0.29807	0.00016	0.00084	0.29907	0.05321		0.35228
Average petrol car		miles	х	0.33416	0.00026	0.00135	0.33577	0.05966		0.39543
		km	х	0.20764	0.00016	0.00084	0.20864	0.03707		0.24571
Total for petrol cars										

	Scope 1 OF	R Scope 3		Scope 3	All Scopes
CO2	CH₄	N₂O	Total Direct GHG	Total Indirect GHG	Grand Total GHG
Total kg CO ₂	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
0	0	0	0	0	0

Table 6c

					Scope 1	OR Scope	3	Scope 3	All Scopes
Passenger Road Transport Conversion Fa	ctors: Diesel Cars			CO ₂	CH₄	N₂O	Total Direct GHG	Total Indirect GHG	Grand Total GHG
Size of car	Total units travelled	Units	X	kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e per	kg CO ₂ e per	kg CO ₂ e per
				per unit	per unit	per unit	unit	unit	unit
Small diesel car, up to 1.7 litre or under		miles	>	0.23064	0.00008	0.00269	0.23340	0.04424	0.27764
		km)	0.14331	0.00005	0.00167	0.14503	0.02749	0.17252
Medium diesel car, from 1.7 to 2.0 litre		miles)	0.28844	0.00008	0.00269	0.29121	0.05535	0.34656
		km	>	0.17923	0.00005	0.00167	0.18095	0.03439	0.21534
Large diesel car, over 2.0 litre		miles	>	0.38877	0.00008	0.00269	0.39154	0.07459	0.46613
		km)	0.24157	0.00005	0.00167	0.24329	0.04635	0.28964
Average diesel car		miles)	0.30870	0.00008	0.00269	0.31147	0.05922	0.37069
		km	>	0.19182	0.00005	0.00167	0.19354	0.03680	0.23034
Total for diesel cars									

	Scope 1 OF	l Scope 3	Total Direct	Scope 3 Total Indirect	All Scopes Grand Total
CO2	CH₄	N ₂ O	GHG	GHG	GHG
Total kg CO ₂	Total kg CO₂e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
0	0	0	0	0	0

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Passenger Road Transport Convers	ion Factora, Alternative Fuel	Cara		Scope 1	OR Scope	3 Total Direct	Scope 3 Total Indirect	All Scopes Grand Total		Scope 1 C	OR Scope 3	Total Direct	Scope 3 Total Indirect	All Scope Grand To
Passenger Road Transport Convers	sion Factors: Alternative Fuer	Cars	CO ₂	CH₄	N ₂ O	GHG	GHG	GHG	CO ₂	CH₄	N₂O	GHG	GHG	GHG
Type of alternative fuel car	Total units travelled	Units	x kg CO ₂			kg CO ₂ e per	kg CO ₂ e per	kg CO ₂ e per	Total kg CO ₂	Total kg	Total kg	Total kg CO ₂ e	Total kg CO ₂ e	Total kg 0
.,,,			per unit			unit	unit	unit	· • • • • • • • • • • • • • • • • • • •	CO ₂ e	CO ₂ e	· • • • • • • • • • • • • • • • • • • •	· • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·
Medium petrol hybrid car		miles	x 0.18870	0.00014	0.00135	0.19019	0.03370	0.22389						
		km	x 0.11725	0.00009	0.00084	0.11818	0.02094	0.13912						
Large petrol hybrid car		miles	x 0.33722	0.00018	0.00135	0.33875	0.06021	0.39896						
		km	x 0.20954	0.00011	0.00084	0.21049	0.03741	0.24790						
Average petrol hybrid car		miles	x 0.22217	0.00017	0.00135	0.22370	0.03967	0.26337						
		km	x 0.13805	0.00011	0.00084	0.13900	0.02465	0.16365						
Medium LPG car		miles	x 0.30574	0.00055	0.00185	0.30814	0.03829	0.34643						
		km	x 0.18998	0.00034	0.00115	0.19147	0.02379	0.21526						
Large LPG car		miles	x 0.43172	0.00055	0.00185	0.43412	0.05406	0.48818						
		km	x 0.26826	0.00034	0.00115	0.26975	0.03359	0.30334						
Average LPG car		miles	x 0.34049	0.00055	0.00185	0.34289	0.04263	0.38552						
		km	x 0.21157	0.00034	0.00115	0.21306	0.02649	0.23955						
Medium CNG car		miles	x 0.27177	0.00129	0.00185	0.27491	0.03985	0.31476						
		km	x 0.16887	0.00080	0.00115	0.17082	0.02476	0.19558						
Large CNG car		miles	x 0.38375	0.00129	0.00185	0.38689	0.05626	0.44315						
		km	x 0.23845	0.00080	0.00115	0.24040	0.03496	0.27536						
Average CNG car		miles	x 0.30265	0.00129	0.00185	0.30579	0.04437	0.35016						
		km	x 0.18806	0.00080	0.00115	0.19001	0.02757	0.21758						
Total for alternative fuel cars											0 0	0	0	
				Scope 1	OR Scone	3 3 1	Scope 3	All Scopes		Scope 1 C	R Scope 3		Scope 3	All Sc
Passenger Road Transport Convers	sion Factors: Cars (unknown f	fuel)				Total Direct	Total Indirect	Grand Total				Total Direct	Total Indirect	Grand
			CO ₂	CH₄	N ₂ O	GHG	GHG	GHG	CO ₂	CH₄	N ₂ O	GHG	GHG	GH
Size of car	Total units travelled	Units	x kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e per	kg CO₂e per	kg CO ₂ e per	Total kg CO ₂	Total kg	Total kg	Total kg CO ₂ e	Total kg CO ₂ e	Total kg
			per unit		per unit		unit	unit	0 2	CO ₂ e	CO ₂ e	0 2	0 2	0
Average small car (unknown fuel)		miles	x 0.26659	0.00023	0.00166		0.04781	0.31628						
	-	km	x 0.16565	0.00014			0.02971	0.19653	-					
Average medium car (unknown fuel)		miles	x 0.32224	0.00019	0.00187		0.05863	0.38293	-					
· · · · · · · · · · · · · · · · · · ·		km	x 0.20023	0.00013			0.03643	0.23794						
Average large car (unknown fuel)		miles	x 0.43129	0.00016	0.00211		0.07936	0.51292						
		km	x 0.26799		0.00131		0.04931	0.31871						
Average car (unknown fuel)		miles	x 0.32721	0.00010	0.00131		0.05950	0.38876						
		km	x 0.20332	0.00012			0.03697	0.24156						
			0.20002	0.00012	0.00110	0.20400	0.00001	3.24130						

Sources Factors developed by AEA and agreed with Department for Transport (2011) Notes These factors are estimated average values for the LIK car fleet in 2010 trave

These factors are estimated average values for the UK car fleet in 2010 travelling on average trips in the UK. They are calculated based on data from SMMT on new car CO₂ emissions from 1998 to 2010 combined with factors from TRL as functions of average speed of vehicle derived from test data under real world testing cycles and an uplift of 15% agreed with DIT to take into account further real-world driving effects on emissions relative to test-cycle based data. Further work is ongoing to understand this uplift in more detail and revise it if necessary in the future.

According to the Energy Saving Trust (EST), LPG and CNG cars results in 10-15% reduction in CO₂ relative to petrol cars, similar to diesel vehicles. New factors for LPG and CNG cars were calculated based on an average 12.5% reduction in CO₂ emissions relative to the emission factors for petrol cars from Table 6b. Due to the significant size and weight of the LPG and CNG fuel tanks only medium and large sized vehicles are available.

Real world effects not covered in regular test cycles include use of accessories (air conditioning, lights, heaters, etc), vehicle payload (only driver +25kg is considered in tests, no passengers or further luggage), poor maintenance (tyre under inflation, maladjusted tracking, etc), gradients (tests effectively assume a level road), weather, harsher driving style, etc.

More accurate calculation of emissions can be made using the actual fuel consumed, where available, and the emission factors in Table 6a. Alternatively if a figure for a specific car's fuel consumption (e.g. in miles per gallon, mpg) is known, then the CO₂ can be calculated from the total mileage and the Table 6a Emission factors for CH₄ and N₂O are based on UK Greenhouse Gas Inventory values for 2009 (AEA, 2011), available at: http://naei.defra.gov.uk/

Annex 6 - Passenger Transport Conversion Tables Last updated: Jun-11

CO ₂ CH ₄ N ₂ O GHG GHG CO ₂ CH ₄ N ₂ O GHG	HG GHG	GHG	Total kg	Total kg	Total kg CO ₂	GHG kg CO ₂ e per	GHG kg CO ₂ e per	GHG	N ₂ O				larket Segment	actors: Petrol Cars by Mar	Passenger Road Transport Convers
Market segment of car Otal units travelled Units per unit per unit			Total kg	Total kg	Total kg CO ₂	kg CO ₂ e per	kg CO ₂ e per								
Lunci unit unit <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>ka CO₂e I</th><th>CO₂</th><th>xk</th><th>Units</th><th>Total units travelled</th><th>Market segment of car</th></t<>										ka CO₂e I	CO ₂	xk	Units	Total units travelled	Market segment of car
Amini Imm 5 20223 000006 000136 002900 000006 000000 000000 000000							unit								
S. Supermi Image						0.29900	0.04506	0.25394				x	miles		A. Mini
Image: Norm										0.00016		х	km		
C. Lower Medum imits x 0.32272 0.00005 0.03185 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03177 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 0.03187 <th0.031111< th=""> <th0.011111< th=""> <th< td=""><td></td><td></td><td></td><td></td><td></td><td>0.32403</td><td>0.04884</td><td>0.27518</td><td>0.00135</td><td>0.00026</td><td>0.27357</td><td>x</td><td>miles</td><td></td><td>B. Supermini</td></th<></th0.011111<></th0.031111<>						0.32403	0.04884	0.27518	0.00135	0.00026	0.27357	x	miles		B. Supermini
Image: Normal control in the second of the second						0.20134	0.03035	0.17099	0.00084	0.00016	0.16999	x	km		
D. Upper Medium medias s 0.00026 0.00035 0.000405 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.32272</td><td>x</td><td>miles</td><td></td><td>C. Lower Medium</td></th<>											0.32272	x	miles		C. Lower Medium
Image: Second		k				0.23734	0.03581				0.20053	х			
E. Executive Image F. 0.4356 0.00056 0.01155 0.02786 0.00785 0.01785 0.00155 0.00155 0.00155 0.00155 0.00155 0.00155 0.00155 0.00155 0.00155 0.00155 0.00155 0.00155 0.00155 0.00156 0.00054 0.00156 0.00054 0.00156 0.00054 0.00156 0.00054 0.00156 0.00164 0.01164 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116						0.43531	0.06571	0.36960	0.00135	0.00026	0.36799	x	miles		D. Upper Medium
Im 2 0.27706 0.00016 0.00040 0.27166 0.04833 0.31995 Im Im< Im Im Im Im Im< Im< <thim< th=""> <thim< th=""> <thim< th=""></thim<></thim<></thim<>												х			
F. Luoy mles x 0.35533 0.0005 0.0015 0.00226 0.00261 0.00264 0.35631 0.0026 0.0015 0.0016 0.00264 0.0316 0.0015 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016												x			E. Executive
Scope 1 OR Scope 3 Scope 1 OR Scope 3 All Scope 3 All Scope 3 Column 4 Colune <							-					х			-
G. Sports mles x 0.40950 0.00035 0.01115 0.41111 0.07311 0.44422 0.01450 0.00054 0.00554 H. Dual Purpose 4x4 mles x 0.42606 0.00135 0.41117 0.44422 0.04543 0.04543 0.04543 0.04544 <td< td=""><td></td><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>х</td><td></td><td></td><td>F. Luxury</td></td<>		L										х			F. Luxury
km x 0.25445 0.00016 0.00084 0.25545 0.04643 0.30081 0.30081 0.44811 H. Dual Purpose 4x4 miles x 0.25545 0.0016 0.00024 0.0015 0.46161 0.02431 0.04481 0.02431 0.04481 0.04481 0.04481 0.04481 0.04481 0.04481 0.04481 0.04481 0.04481 0.04543 0.03081 0.04183 0.04		┥────┤╎										x			0.000
H. Dual Purpose 4x4 miles x 0.46006 0.00226 0.00135 0.46167 0.08214 0.54381 0.37874 I. MPV miles x 0.23047 0.00016 0.00024 0.23147 0.65104 0.37874 0.0319 I. MPV miles x 0.23047 0.0016 0.00024 0.23147 0.04115 0.27262 0		┥────┤╎										x			G. Spons
Image: Non- Non- N 0.28887 0.00016 0.0004 0.28887 0.00150 0.00150 0.00151 0.33791 0.33		┥────┤♪										x			LL Duel Dumene Aud
IMPV miles x 0.37021 0.00026 0.0135 0.37251 0.06622 0.43874 0.27652 0.43874 0.27752 0.4115 0.2008 0.0167 0.10183 0.12422 0.2008 0.0167 0.10183 0.12422 0.2008 0.0167 0.10183 0.12422 0.2008 0.12422 0.2008 0.0167 0.11837 0.0278 0.12482 0.20083 0.12482 0.2008			_									x			H. Duai Puipose 4x4
Internation Internation <thinternation< th=""> <thinternation< th=""></thinternation<></thinternation<>			_									x			L MDV
Total for petrol cars 0			_									X			I. MPV
Passenger Road Transport Conversion Factors: Diesel Cars by Market Segment Scope 1 OR Scope 3 Total Direct CO2 CH, VR N2O GHG Grand Total GHG Grand Total GHG Grand Total GHG CO2 CH, VR N2O GHG Grand Total GHG Grand Total GHG CO2 CH, VR N2O GHG Grand Total GHG Grand Total GHG Grand Total GHG Grand Total GHG CO2 CH, VR N2O GHG Grand Total GHG Grand Total GHG Grand Total GHG Grand Total GHG CO2 CH, VR N2O GHG Grand Total GHG Grand Total						0.27262	0.04115	0.23147	0.00084	0.00016	0.23047	×	ĸm		Total far natual ages
Market segment of car Total units travelled Units x kg CO2 kg CO2e kg C			NO	C H	<u> </u>				NO	C 11	~~		warket Segment	actors: Diesel Cars by Mai	Passenger Road Transport Convers
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					Total kg CO							v k	Unito	Total units travallad	Market cogmont of car
A. Mini miles x 0.16620 0.00008 0.00260 0.16897 0.03191 0.20088 0.12482 B. Supermini miles x 0.10327 0.00005 0.00167 0.1499 0.01883 0.12482 0.018983 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12482 0.01883 0.12785 0.17093 0.17093 0.17093 0.05092 0.3156 0.05022 0.3156 0.05654 0.05644 0.05654 0.05644 0.03197 0.1983 0.0008 0.00269 0.29445 0.05654 0.03197 0.1983 0.0008 0.02464 0.065674 0.01977 0.1983 0.01983 0.01983		Total kg CO ₂ e											Units	Total units travelled	Market segment of car
Index No.0000 0.000000 0.00000 0.00000 <th< td=""><td></td><td></td><td>0020</td><td>0020</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>p</td><td></td><td></td><td>A Mini</td></th<>			0020	0020								p			A Mini
B. Supermini miles x 0.22845 0.0008 0.02269 0.23121 0.04387 0.27509 0.17093 0.27509 0.			_									x			A. Mini
km x 0.14195 0.00005 0.0167 0.14367 0.02726 0.17093 Image x Image x 0.26207 0.00026 0.26483 0.05032 0.3156 Image x Image x 0.26207 0.00026 0.26483 0.05032 0.3156 Image Image x Image <		└────┤ ┣	-									x			P. Supormini
C. Lower Medium miles x 0.26207 0.0008 0.0268 0.05032 0.3156 m< m< m m m m m <th<< td=""><td></td><td>┫┫</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>x</td><td></td><td></td><td>b. oopeniiiii</td></th<<>		┫┫										x			b. oopeniiiii
Image: Non-ormal constraints		├──── ┤ }										×			C. Lower Medium
D. Upper Medium miles x 0.28868 0.0008 0.0229 0.29145 0.05544 0.34689 Image: Constraint of the state o												×			
km x 0.17938 0.00005 0.00167 0.18110 0.03445 0.21555 E. Executive miles x 0.33933 0.00026 0.34269 0.06527 0.40797 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Ŷ</td><td>NTT .</td><td></td><td>D. Upper Medium</td></t<>												Ŷ	NTT .		D. Upper Medium
E. Executive miles x 0.3393 0.0000 0.0269 0.34269 0.06527 0.40797 Image: Constraint of the state of th												x			
km x 0.2122 0.0005 0.0167 0.2124 0.04056 0.25350 F. Luxury miles x 0.40069 0.0008 0.00269 0.40346 0.07694 0.48041 Image: Control or Contro or Control or Contro or Control or C												x			E. Executive
F. Luxury miles x 0.40069 0.00008 0.00269 0.40346 0.07694 0.48041 0 0 0												x			1
												x			F. Luxury
												x			
G. Sports miles x 0.27933 0.00008 0.00269 0.28210 0.05364 0.33574												x			G. Sports
km x 0.17357 0.00005 0.00167 0.17529 0.03333 0.20662												x			1
H. Dual Purpose 4x4 miles x 0.42467 0.00008 0.00269 0.4274 0.08155 0.50899												x			H. Dual Purpose 4x4
km x 0.26588 0.00005 0.00167 0.26560 0.05067 0.31627							-					x			
LMPV miles x 0.32932 0.00008 0.00269 0.33209 0.06825 0.39534							-					x	miles		I. MPV
						0.24565	0.03930	0.20635	0.00167	0.00005	0.20463	x	km		

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				Scope 1	OR Scope			Scope 3	All Scopes		Scope 1 C	OR Scope 3		Scope 3	All Scopes
Passenger Road Transport Conv	ersion Factors: Cars (unknown fuel)) by Market				Total Direct	Tot	tal Indirect	Grand Total				Total Direct	Total Indirect	Grand Total
Segment			CO ₂	CH₄	N ₂ O	GHG		GHG	GHG	CO ₂	CH₄	N ₂ O	GHG	GHG	GHG
Market segment of car	Total units travelled	Jnits x	kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e per	kg C	CO ₂ e per	kg CO ₂ e per	Total kg CO ₂	Total kg	Total kg	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
			per unit	per unit	per unit	unit	unit	:	unit		CO ₂ e	CO ₂ e			
A. Mini	m	niles	0.2511	2 0.00024	0.00145	0.25281		0.04406	0.29688						
	k	m >	0.1560	4 0.00015	0.00090	0.15709		0.02738	0.18447						
B. Supermini	m	niles	0.2686	6 0.00023	0.00166	0.27055		0.04772	0.31826						
	k	m >	0.1669	4 0.00014	0.00103	0.16811		0.02965	0.19776						
C. Lower Medium	m	niles	0.3039	0.00021	0.00175	0.30594		0.05539	0.36133						
	k	m >	0.1888	8 0.00013	0.00109	0.19010		0.03442	0.22452						
D. Upper Medium	m	niles	0.3314	0.00019	0.00187	0.33349		0.06177	0.39525						
	k	m >	0.2059	4 0.00012	0.00116	0.20722		0.03838	0.24560						
E. Executive	m	niles	0.3894	5 0.00016	0.00211	0.39171		0.07068	0.46240						
	k	m >	0.2419	9 0.00010	0.00131	0.24340		0.04392	0.28732						
F. Luxury	m	niles	0.5133	0.00016	0.00211	0.51563		0.08658	0.60222						
	k	m >	0.3189	9 0.00010	0.00131	0.32040		0.05380	0.37420						
G. Sports	m	niles	0.4047	2 0.00016	0.00211	0.40699		0.06206	0.46904						
	k	m >	0.2514	B 0.00010	0.00131	0.25289		0.03856	0.29145						
H. Dual Purpose 4x4	m	niles	0.4378	0.00016	0.00211	0.44014		0.08180	0.52194						
	k	m >	0.2720	0.00010	0.00131	0.27349		0.05083	0.32432						
I. MPV	m	niles	0.3482	0.00018	0.00198	0.35043		0.06481	0.41524						
	k	m >	0.2164	0.00011	0.00123	0.21775		0.04027	0.25802						
Total for cars (unknown fuel)															
												0 0		U	0

Factors developed by AEA and agreed with Department for Transport (2011) Sources Notes

The market segment categories are the standard segments as defined by SMMT (UK Society of Motor Manufacturers and Traders). These factors are estimated average values for the UK car fleet in 2010 travelling on average trips in the UK. They are calculated based on data from SMMT on new car CO2 emissions from 1998 to 2010 by SMMT. An uplift of 15% agreed with DfT to take into account further real-world driving effects on emissions relative to testcycle based data (as under Tables 6b-6e). Further work is ongoing to understand this uplift in more detail and revise it if necessary in the future.

There is a substantial variation in emission factors across market classes due to significant variations in engine size and vehicle weight. The Department for Transport considers the emission factors by fuel and engine size to often be a closer match to actual emissions. It is preferable to use the emission factors by engine size provided in Tables 6b and 6c over the market class based factors where possible.

More accurate calculation of emissions can be made using the actual fuel consumed, where available, and the emission factors in Table 6a. Alternatively if a figure for a specific car's fuel consumption (e.g. in miles per gallon, mpg) is known, then the CO2 can be calculated from the total mileage and the Table 6a factors.

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Deserve Deserve Transmer					Scope 1	OR Scope	a 3 Total Direct	Scope 3 Total Indirect	All Scopes Grand Total		Scope 1 O	R Scope 3	Tot
Passenger Road Transpor	t Conversion Factors: Vans (Light Comr	nercial venicles)		CO2	CH₄	N₂O	GHG	GHG	GHG	CO2	CH₄	N₂O	101
Type of van	Total units travelled	Units				kg CO ₂ e per unit	kg CO ₂ e per unit	kg CO ₂ e per unit	kg CO ₂ e per unit	Total kg CO ₂	Total kg CO ₂ e	Total kg CO ₂ e	Tota
Petrol van (Class I), up to 1.305 ton	ne	miles	x	0.32292	0.00052	0.00204	0.32548	0.06251	0.38799	-			
		km	х	0.20065	0.00032	0.00127	0.20225	0.03884	0.24109				
Petrol van (Class II), 1.305 to 1.74 to	onne	miles	х	0.33980	0.00052	0.00204	0.34236	0.06574	0.40810				
		km	х	0.21114	0.00032	0.00127	0.21273	0.04085	0.25358				
Petrol van (Class III), 1.74 to 3.5 ton	ne	miles	х	0.41326	0.00057	0.00458	0.41842	0.08035	0.49877				
		km	х	0.25679	0.00035	0.00285	0.25999	0.04993	0.30992				
Petrol van up to 3.5 tonne		miles	х	0.34287	0.00052	0.00237	0.34577	0.06640	0.41217				
		km	х	0.21305	0.00033	0.00148	0.21485	0.04126	0.25611				
Diesel van (Class I), up to 1.305 ton	ne	miles	х	0.25049	0.00009	0.00173	0.25232	0.04846	0.30078				
		km	х	0.15565	0.00006	0.00108	0.15678	0.03011	0.18689				
Diesel van (Class II), 1.305 to 1.74 t	onne	miles	х	0.36201	0.00009	0.00250	0.36460	0.07002	0.43462				
		km	х	0.22494	0.00006	0.00155	0.22655	0.04351	0.27006				
Diesel van (Class III), 1.74 to 3.5 tor	ine	miles	х	0.43163	0.00009	0.00298	0.43470	0.08348	0.51818				
		km	х	0.26820	0.00006	0.00185	0.27011	0.05187	0.32198				
Diesel van up to 3.5 tonne		miles	х	0.40252	0.00009	0.00278	0.40539	0.07784	0.48323				
		km	х	0.25011	0.00006	0.00173	0.25190	0.04837	0.30027				
LPG van up to 3.5 tonne		miles	х	0.42265	0.00111	0.00325	0.42701	0.05359	0.48060				
		km	х	0.26262	0.00069	0.00202	0.26533	0.03330	0.29863				
CNG van up to 3.5 tonne		miles	х	0.38239	0.00262	0.00325	0.38826	0.05731	0.44557				
		km	х	0.23761	0.00163	0.00202	0.24126	0.03561	0.27687				
Average van up to 3.5 tonne		miles	х	0.39882	0.00012	0.00276	0.40169	0.07714	0.47883				
		km	х	0.24781	0.00007	0.00171	0.24960	0.04793	0.29753				
Total for vans											0 (0 (3

	Scope 1 OF	Scope 3	Tatal Direct	Scope 3 Total Indirect	All Scopes
CO ₂	CH₄	N₂O	Total Direct GHG	GHG	Grand Total GHG
Total kg CO ₂		Total kg	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
	CO ₂ e	CO ₂ e			
	-				-
					-
				-	-
0	0	0	0	0	

Factors developed by AEA and agreed with Department for Transport (2011) Sources Notes

Emission factors for petrol and diesel light good vehicles (vans up to 3.5 tonnes) were calculated based on the new emission factors used in the National Atmospheric Emissions Inventory (NAEI) and Greenhouse Gas Inventory for 2009 (AEA, 2011). These test cycle based emission factors were then uplifted by 15% to represent 'real-world' emissions, consistent with the approach used for cars agreed with DfT. Emission factors for LPG and CNG vans were estimated to be similar to diesel vehicles, as indicated by EST for cars. The average van emission factor was calculated on the basis of the relative NAEI vehicle km for petrol and diesel LGVs for 2009.

Emission factors for CH₄ and N₂O are based on UK Greenhouse Gas Inventory values for 2009 (AEA, 2011), available at: http://naei.defra.gov.uk/

Table 6j

					Scope 1	OR Scope	3	Scope 3	All Scopes
Passenger Road Transport Conve	rsion Factors: Motorcycles						Total Direct	Total Indirect	Grand Total
				CO ₂	CH₄	N ₂ O	GHG	GHG	GHG
Size of motorcycle	Total units travelled	Units	×	kg CO ₂	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e per	kg CO2e per	kg CO2e per
				per unit	per unit	per unit	unit	unit	unit
Small petrol motorbike		miles	>	0.13678	0.00393	0.00058	0.14128	0.02443	0.16571
(mopeds/scooters up to 125cc)		km)	0.08499	0.00244	0.00036	0.08779	0.01518	0.10297
Medium petrol motorbike		miles)	0.16602	0.00436	0.00100	0.17138	0.02964	0.20102
(125-500cc)		km)	0.10316	0.00271	0.00062	0.10649	0.01842	0.12491
Large petrol motorbike		miles)	0.22087	0.00332	0.00100	0.22518	0.03945	0.26463
(over 500cc)		km)	0.13724	0.00206	0.00062	0.13992	0.02451	0.16443
Average petrol motorbike		miles	>	0.18678	0.00396	0.00097	0.19171	0.03335	0.22506
(unknown engine size)		km	>	0.11606	0.00246	0.00060	0.11912	0.02072	0.13984
Total for motorcycles									

		Scope 1 OF	Scope 3	Total Direct	Scope 3 Total Indirect	All Scopes Grand Total
	CO ₂	CH₄	N ₂ O	GHG	GHG	GHG
То	otal kg CO ₂	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
	0	0	0	0	0	0

Sources Factors developed by AEA and agreed with Department for Transport (2011) Notes

These factors are based on calculations of average emissions data by size category, based data provided by Clear (http://www.clear-offset.com) of almost 1200 datapoints, over 300 different bikes from 50-1500cc, and from 25 manufacturers from a mix of magazine road test reports and user reported data.

More accurate calculation of emissions can be made using the actual fuel consumed, where available, and the emission factors in Table 5a. Alternatively if a figure for a specific motorbike's fuel consumption (e.g. in miles per gallon, mpg) is known, then the CO2 can be calculated from the total mileage and the Table 6a factors.

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Table 6k

					So	ope 3		Scope 3	All Scopes		Scop	be 3		Scope 3	All Scopes
Taxi, Bus, Rail and Ferry Passe	enger Transport Conversion Factors			CO₂	CH₄	N₂O	Total Direct GHG	Total Indirect GHG	Grand Total GHG	CO ₂	CH₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Tota GHG
Method of travel		Vehicle km travelled (vkm) ¹		· · ·	kg CO ₂ e per vkm ¹		kg CO ₂ e per vkm ¹	kg CO ₂ e per vkm ¹	kg CO ₂ e per vkm ¹	Total kg CO ₂	Total kg CO₂e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂
Taxi ²	Regular taxi		x	0.21040	0.00005	0.00167		0.02431	0.23643						
	Black cab	_	x	0.24157				0.04639	0.28968						
Method of travel		Passenger km travelled (pkm)		g CO ₂ oer pkm	kg CO ₂ e per pkm		kg CO₂e per pkm	kg CO ₂ e per pkm	kg CO ₂ e per pkm	Total kg CO ₂	Total kg CO₂e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂
Taxi ²	Regular taxi		х	0.15029	0.00004	0.00119	0.15151	0.02886	0.18038						
	Black cab		x	0.19871	0.00011	0.00056	0.19938	0.03548	0.23486						
Bus	Local bus (not London) 3		x	0.18433	0.00020	0.00135	0.18588	0.03540	0.22128						
	Local London bus 4		х	0.08566	0.00008	0.00056	0.08630	0.01645	0.10275						
	Average local bus		х	0.14754	0.00016	0.00107	0.14877	0.02833	0.17710						
	Coach 5		x	0.03000	0.00007	0.00057	0.03064	0.00576	0.03641						
Rail	National rail 6		x	0.05340	0.00006	0.00303	0.05649	0.00815	0.06464						
	International rail (Eurostar) 7		х	0.01502	0.00001	0.00009	0.01512	0.00200	0.01712						
	Light rail and tram 8		x	0.07101	0.00003	0.00044	0.07148	0.00944	0.08092						
	London Underground 9		x	0.07313	0.00003	0.00045	0.07361	0.00972	0.08333						
Ferry (Large RoPax) 10	Foot passengers		x	0.01912	0.00001	0.00015	0.01928	0.00324	0.02252						
	Car passengers		x	0.13216	0.00004	0.00102	0.13322	0.02243	0.15565						
	Average (all passengers)		x	0.11516	0.00004	0.00088	0.11608	0.01954	0.13562						
Total										0	0	0	0	0	

Sources

Department for Transport, Transport for London and AEA (2011) Notes

- ¹ vkm (vehicle-km) is a measure of vehicle activity, representing the movement of a vehicle over a distance; pkm (passenger-km) is a measure of the total distance travelled by passengers on a vehicle and is calculated by multiplying the number of passengers by the vehicle-km.
- ² Emission factors for taxis were estimated on the basis of an average of the emission factors of medium and large cars from Table 6c and occupancy of 1.4 (CfIT, 2002). The emission factors for black cabs are based on the large car emission factor (consistent with the VCA dataset for London Taxis International vehicles) and an average passenger occupancy of 1.5 (average 2.5 people per cab from LTI website, 2008).
- ³ The factor for local buses was calculated based on actual fuel consumption data submitted by bus operators to the DfT as part of their Bus Service Operators Grant (BSOG) claims and DfT bus statistics.
- ⁴ The London bus factor is calculated using the same methodology as for other local buses using DfT's BSOG dataset and statistics.
- ⁵ The emission factor for coach transport is the figure from the National Express Group's Corporate Responsibility Report, available at: http://www.nationalexpressgroup.com/nx1/corporate/environment/climate. National Express are responsible for the majority of long-distance coach services in the UK, so this figure is expected to be broadly representative of the overall average.
- ⁶ The national rail factor refers to an average emission per passenger kilometre for diesel and electric trains in 2007/08. The CO₂ value for passenger rail is based on currently available information on CO2 emissions by diesel and electric passenger trains in the UK in 2007/08 produced by ORR (Office of the Rail Regulator) and is available in Chapter 9 of National Rail Trends at http://www.rail-reg.gov.uk/server/show/nav.2026 Emission factors for freight rail (from the same source) are provided in Annex 7, Table 7f.
- ⁷ The emission factor for international rail is based on electricity grid average emission factors. Eurostar's published figures differ from the figure quoted in the table above as they are calculated using the individual conversion factors as specified by each electricity supplier across each network section upon which they operate. For further information please visit:

http://www.eurostar.com/UK/uk/leisure/about_eurostar/environment/greener_than_flying.jsp

- ⁸ The light rail and tram factors were based on an average of factors for the Docklands Light Rail (DLR) service, the Manchester Metrolink, Tyne and Wear Metro, Glasgow Underground, Supertram, Midland Metro and the Croydon Tramlink. The factors for the Tyne and Wear, Glasgow, Midland, Supertram and Manchester tram and light rail systems were based on annual electricity consumption and passenger km data provided by the network operators in 2008 (referring mostly to consumption in 2007/08) and a CO2 emission factor for grid rolling average electricity from Table 3c. DLR and Croydon Tramlink figures were recalculated using the updated 2009 grid rolling average from those available in the Transport for London 2010 environmental report available at: http://www.tfl.gov.uk/corporate/about-tfl/publications/1478.aspx
- ⁹ The London Underground rail factor is recalculated using the updated 2009 grid rolling average from figures in the Transport for London 2010 environmental report available at: http://www.tfl.gov.uk/corporate/about-tfl/publications/1478.aspx
- ¹⁰ The factors for RoPax ferries (Roll-on Roll-off ferries with additional passenger capacity) are based on data provided by Best Foot Forward from work for the Passenger Shipping Association (PSA) carried out in 2007/8. The calculated figure is based on ferry service operator provided data on fuel consumption and passengers transported, but does not include any data for passenger only ferry services, which would be expected to have significantly higher emission
- All Emission factors for CH₄ and N₂O are based on UK Greenhouse Gas Inventory values for 2009 (AEA, 2011), available at: http://naei.defra.gov.uk/

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Table 6

							Sc	ope 3		Scope 3	All Scopes
Air Passenger Transpo	ort Conversion Factor	rs ¹⁰				CO ₂	CH₄	N₂O	Total Direct GHG	Total Indirect GHG	Grand Total GHG
Method of travel		Passenger km travelled (pkm)	x	km uplift factor 12	х	kg CO ₂ per pkm ¹³			kg CO ₂ e per pkm	kg CO ₂ e per pkm	kg CO ₂ e per pkm
Flight type 14	Cabin class 11										
Domestic ¹⁴	Average		х	109%	х	0.16313	0.00010	0.00161	0.16484	0.03034	0.19518
Short-haul international ¹⁴	Average		х	109%	х	0.09589	0.00001	0.00094	0.09684	0.01783	0.11467
	Economy class		х	109%	х	0.09138	0.00001	0.00090	0.09229	0.01699	0.10928
	Business class		х	109%	х	0.13707	0.00001	0.00135	0.13843	0.02549	0.16392
Long-haul international ¹⁴	Average		х	109%	х	0.11037	0.00001	0.00109	0.11146	0.02053	0.13199
	Economy class		х	109%	х	0.08057	0.00000	0.00079	0.08137	0.01498	0.09635
	Premium economy class		х	109%	х	0.12891	0.00001	0.00127	0.13019	0.02397	0.15416
	Business class		х	109%	х	0.23365	0.00001	0.00230	0.23596	0.04345	0.27941
	First class		х	109%	х	0.32227	0.00002	0.00317	0.32546	0.05994	0.38540
Total											

	Scop	e 3		Scope 3	All Scopes
CO2	CH₄	N₂O	Total Direct GHG	Total Indirect GHG	Grand Total GHG
Total kg CO ₂	Total kg CO₂e	Total kg CO₂e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
	2-	2-			
0	0	0	0	0	0

Source Developed by AEA (2011) using the methodology developed in discussion with the Department for Transport and the airline industry, 2009. EMEP/EEA air pollutant emission inventory guidebook 2009 (EEA, 2009) Civil Aviation Authority (2010)

Notes These emissions factors are intended to be an aggregate representation of the typical emissions per passenger km from illustrative types of aircraft for the 3 types of air services. Actual emissions will vary significantly according to the type of aircraft in use, the load, cabin class, specific conditions of the flight route, etc.

¹⁰ The emission factors refer to aviation's direct carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O) emissions only. There is currently uncertainty over the other non-CO₂ climate change effects of aviation (including water vapour, contrails, NOx etc) which may indicatively be accounted for by applying a multiplier. The appropriate factor to apply is subject to uncertainty but was estimated by the IPCC in 1999 to be in the range 2-4, with current best scientific evidence suggesting a factor of 1.9. This factor is derived from Table 1 of Aviation radiative forcing in 2000: and update on IPCC (1999), Sausen R. et al (2005): http://elib.dir.de/19906/1/s13.pdf

If used, this factor would be applied to the emissions factor for CO₂ set out here.

- ¹¹ The indicative emissions factors by passenger seating class have been produced to allow passengers to build an understanding of how emissions per passenger km are affected by load factors and seat configurations. This is in response to feedback on the previous version of the Act on CO₂ calculator. Emission factors by passenger seating class were developed on the basis of detailed analysis of the seating configurations of 24 aircraft model variants from 16 major airlines providing services within/to/from the UK. Indicative emission factors were calculated via the relative area on the aircraft occupied by different seating classes compared to an economy class equivalent per passenger. Figures are only indicative averages and will vary considerably between different specific airline and aircraft configurations.
- These indicative factors will be updated as further evidence comes to light on how these factors could more accurately be estimated. There are several ways in which these factors could be estimated, which will be kept under review.

¹² The 9% uplift factor comes from the IPCC Aviation and the global Atmosphere 8.2.2.3, which states that 9-10% should be added to take into account nondirect routes (i.e. not along the straight line great circle distances between destinations) and delays/circling: <u>http://www.ipcc.ch/ipccreports/sres/aviation/121.htm#8223</u>

Airline industry representatives have indicated that the percentage uplift for short-haul flights will be higher and for long-haul flights will be lower, however specific data is not currently available to provide separate factors. This is under investigation for future versions of these guidelines.

¹³ The emissions factors are based on typical aircraft fuel burn over illustrative trip distances listed in the EMEP/EEA air pollutant emission inventory guidebook 2009 (EEA, 2009) – available at the EEA website at: http://www.eea.europa.eu/publications/emep-eea-emission-inventory-guidebook-2009. This information is combined with data from the Civil Aviation Authority (CAA) on average aircraft seating capacity, loading factors, and annual passenger-km and aircraft-km for 2007 (most recent full-year data available). The provisional evidence to date suggests an uplift in the region of 10-12% to climb/cruise/descent factors derived in the EEA publication is appropriate in order to ensure consistency with estimated UK aviation emissions as reported in line with the UN Framework on Climate Change, covering UK domestic flights and departing international flights. This uplif has already been included in these emissions factors.

These emissions are based on bunker fuel consumption and are closely related to fuel on departing flights. This uplift is therefore based on comparisons of national aviation fuel consumption from this reported inventory, with detailed bottom up calculations in DTT modelling along with the similar NAEI approach, which both use detailed UK activity data (by aircraft and route) from CAA, and the CORINAIR fuel consumption approach. Therefore for this version of the Defra CO₂ emission factors an uplift of 10% is applied to the emissions from the Cruise, Climb and Decent of the aircraft based on provisional evidence. The CORINAIR uplift is in <u>addition</u> to the assumption that Great Circle Distances are increased by 9% to allow for sub-optimal routing and stacking at airports during periods of heevy congestion. It should be noted that work will continue to determine a more robust reconciliation and this will be accounted for in future versions of these factors.

¹⁴ The long haul estimate is based on a flight length from the EMEP/EEA Guidebook of 6482 km, short haul 1108km and domestic 463km. Actual flight distances do however vary significantly, as demonstrated in the examples in the following tables. Domestic flights are between UK airports, short haul international flights are typically to Europe (up to 3700km distance), and long haul international flights are typically to non-European destinations (or all other international flights over 3700km distance).

Annex 6 - Passenger Transport Conversion Tables Last updated: Jun-11

Illustrative long haul flight distances

From London to:		
Area	Airport	Distance (km)
North Africa	Abu Simbel/Sharm El Sheikh, Egypt	3300
Southern Africa	Johannesburg/Pretoria, South Africa	9000
Middle East	Dubai, UAE	5500
North America	New York (JFK), USA	5600
North America	Los Angeles California, USA	8900
South America	Sao Paulo, Brazil	9400
Indian sub-continent	Bombay/Mumbai, India	7200
Far East	Hong Kong	9700
Australasia	Sydney, Australia	17000

Source Distances based on International Passenger Survey (Office for National Statistics) calculations using airport geographic information.

Illustrative short haul flight distances

From London to:		
Area	Airport	Distance (km)
Europe	Amsterdam, Netherlands	400
Europe	Prague (Ruzyne), Czech Rep	1000
Europe	Malaga, Spain	1700
Europe	Athens, Greece	1500

Source Distances based on International Passenger Survey (Office for National Statistics) calculations using airport geographic information. Emission factors for CH₄ and N₂O are based on UK Greenhouse Gas Inventory values for 2009 (AEA, 2011), available at: http://naei.defra.gov.uk/

How to use this Annex

A tonne-km is a measure of transported goods representing the movement of one tonne over one km. To use the tables below you will need to multiply the weight of goods (in tonnes) by the distance travelled by that mode (in km).

If you know how much of a particular fuel type is consumed, emissions can be calculated using Table 7a. This is the most accurate way to calculate emissions.

Table 7b gives emissions for distance travelled for vans and small trucks

Table 7c gives emissions per tonne freight carried for vans and small trucks. Emission factors for vans in tonne km were calculated from the emission factors per vehicle km provided in Table 6i (Annex 6) and an average load factor of 40%. The average cargo capacity was taken to be 0.6 tonnes for vans up to 1.305 tonnes vehicle reference weight, 1 tonne for vans between 1.305-1.740 tonnes vehicle reference weight and 2 tonnes for vans up to 3.5 tonnes vehicle reference weight is equivalent to the vehicle kerb weight plus 60kn.

Table 7d gives emissions per vehicle kilometre travelled for a range of HGV sizes with a range of different loads. Use this table if you know the distance the vehicle has travelled. If you do not know the load capacity of your vehicle, apply the UK average load which is given for a range of vehicle classes.

Table 7e gives emissions per tonne kilometre travelled for a range of HGV sizes with a range of different loads. Use this table if you know the distance the freight has travelled and what the mass (in tonnes) of the freight was.

Table 7f gives emissions factors for tonne kilometres of freight for rail, and air freight

Table 7g gives emissions factors for tonne kilometres of freight for shipping

Annex 7 Scopes & Boundaries:

Scope 1: Direct emissions of CO₂, CH₄ and N₂O from the combustion of fuel from owned/controlled transport.

Scope 3: Indirect emissions associated with the extraction and transport of primary fuels as well as the refining, distribution, storage and retail of finished fuels. Emission factors are based on data from the JEC Well-To-Wheels study, for further information see: http://ies.irc.ec.europa.eu/jec-research-collaboration/about-jec.html

Scope 1 OR Scope 3: Direct emissions from transport can fall into either Scope 1 or Scope 3, depending on the vehicle ownership/level of control. For vehicles owned or directly controlled by a reporting company, direct emissions should be reported under Scope 1. However, emissions resulting from transport-related activities in vehicles not owned or controlled by the reporting entity should be reported under Scope 3.

In general it is recommended that the 'control' approach is used in order to decide whether to report emissions as Scope 1 or Scope 3. The control approach is itself divided into two methods – financial and operational (where the financial control approach is the one most commonly recommended).

- A company has financial control over an operation if the company has the ability to direct the financial and operating policies of the operation with a view to gaining economic benefits from its activities

- A company has operational control over an operation if the company or one of its subsidiaries has the full authority to introduce and implement its operating policies at the operation.

In the transport sector, 'open book accounts' provide a very good illustration of the financial and operational control methods. In the case of an open book account, a transport operator provides vehicles to a customer, but the customer pays the fuel bill for those vehicles directly, rather than simply paying the transport operator for the logislics service. In the open book situation, the customer has financial control, but the transport operator prevator and the transport operator will have to decide whether the emissions resulting from these transport operations are the customer's or the transport operator's Scope 1. Whichever method is used, it is very important that it is clearly stated in all reporting, and that it is consistently applied by both organisations.

A further consideration is the treatment of leased assets (e.g. vehicles), which depends on the organisational boundaries set and the control approach. Further information on scopes, control and leased assets is available from Defra's website in the guidance on reporting at: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting

OR from the Greenhouse Gas Protocol's website at: http://www.ghgprotocol.org/standards/corporate-standard

How do I determine UK rail travel distances (in miles) where start and destination stations are known?

Click on web link: <u>http://www.networkrail.co.uk/aspx/3828.aspx</u>
 Select the Route Index under Train Timetables

3. Use your mouse cursor to click on the appropriate train route in the 'Table' column that matches your starting and destination stations. This should open a corresponding timetable with rail distances

4. In the timetable, refer to the 'Miles' columns on the left to determine mileage between your starting and destination stations.

How were these factors calculated?

For further explanation on how these emission factors have been derived, please refer to the GHG conversion factor methodology paper available here: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting

Annex 7 - Freight Transport Conversion Tables Last updated: Jun-11

Table 7a

					Scope 1 (OR Scope 3	Total Direct	Scope 3 Total Indirect	All Scopes Grand Total		Scope 1 C	R Scope 3	Total Direct	Scope 3 Total Indirect	All Scopes Grand Total
Standard Road Transport F	uel Conversion Factors			CO ₂	CH₄	N ₂ O	GHG	GHG	GHG	CO ₂	CH ₄	N₂O	GHG	GHG	GHG
Fuel used*	Total units used	Units		kg CO ₂ per	kg CO2e per	kg CO2e per	kg CO ₂ e per	kg CO2e per	kg CO2e per	Total kg CO ₂	Total kg CO2e	Total kg CO2e	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO2e
			х	unit	unit	unit	unit	unit	unit						
Petrol (retail station biofuel blend)		litres	х	2.2352	0.00340	0.00640	2.24500	0.42200	2.6670						
Petrol (100% mineral petrol)		litres	х	2.3018	0.00340	0.00650	2.31170	0.41100	2.7227						
Diesel (retail station biofuel blend)		litres	х	2.5530	0.00120	0.01830	2.57250	0.53480	3.1073						
Diesel (100% mineral diesel)		litres	х	2.6480	0.00120	0.01840	2.66760	0.50850	3.1761						
Compressed Natural Gas (CNG)		kg	х	2.7020	0.00398	0.00162	2.70758	0.39880	3.1064						
Liquid Petroleum Gas (LPG)		litres	х	1.4884	0.00100	0.00230	1.49180	0.18680	1.6786						
Total										(0	0	0	0	1

UK Greenhouse Gas Inventory for 2009 (AEA, 2011), available at: <u>http://naei.defra.gov.uk/</u> Digest of UK Energy Statistics 2010 (DECC), available at: http://www.decc.gov.uk/en/content/cms/statistics/publications/dukes/dukes.aspx Sources

Carbon factors for fuels (UKPIA, 2004) 1 imperial gallon (UK) = 4.546 litres

Notes

Emission factors for petrol and diesel from public refuelling stations have been estimated based on information from the most recent reporting on the Renewable Transport Fuels Obligation (RTFO). See Annex 1 for more detailed information.

* Note: In the UK biofuels are added to virtually all of the transport fuel sold by filling stations (and by most fuel wholesalers) and this has the effect of slightly reducing the greenhouse gas emissions of the fuel. This is reflected in the emission factors above. For fuel purchased at filling stations you should use the factor labelled "retail station biofuel blend". If you are purchasing pure petrol or diesel which you know has not been blended with biofuels then you should use the factor labelled "100% mineral fuel".

Table 7b

							Scope 1 0	OR Scope 3		Scope 3	All Scopes			Scope 1 O	R Scope 3		Scope 3	All Scopes
Van/Light Commerc	ial Vehicle Road F	reight Con	version Factors: Vehicle kr	n Basis		CO2	CH₄	N₂O	Total Direct GHG	Total Indirect GHG	Grand Total GHG	со	2	CH₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Tota GHG
Type of van				Total vehicle km travelled	x	kg CO ₂ per vehicle km	kg CO ₂ e per vehicle km		kg CO ₂ e per vehicle km	kg CO ₂ e per vehicle km	kg CO ₂ e per vehicle km	Total kg	со ₂ т	otal kg CO ₂ e	Total kg CO ₂ e			
Petrol (Class I)	up to 1.305t	37%	0.24		х	0.20065	0.00032	0.00127	0.20225	0.03884	0.24109							
Petrol (Class II)	1.305t to 1.74t	37%	0.26		х	0.21114	0.00032	0.00127	0.21273	0.04085	0.25358							
Petrol (Class III)	1.74t to 3.5t	41%	0.53		х	0.25679	0.00035	0.00285	0.25999	0.04993	0.30992							
Petrol (average)	up to 3.5t	40%	0.31		X	0.21305	0.00033	0.00148	0.21485	0.04126	0.25611							
Diesel (Class I)	up to 1.305t	37%	0.24		х	0.15565	0.00006	0.00108	0.15678	0.03011	0.18689							
Diesel (Class II)	1.305t to 1.74t	37%	0.36		х	0.22494	0.00006	0.00155	0.22655	0.04351	0.27006							
Diesel (Class III)	1.74t to 3.5t	41%	0.53		х	0.26820	0.00006	0.00185	0.27011	0.05187	0.32198							
Diesel (average)	up to 3.5t	40%	0.47		x	0.25011	0.00006	0.00173	0.25190	0.04837	0.30027							
LPG	up to 3.5t	40%	0.47		х	0.26262	0.00069	0.00202	0.26533	0.03330	0.29863							
CNG	up to 3.5t	40%	0.47		х	0.23761	0.00163	0.00202	0.24126	0.03561	0.27687							
Average (all vehicles)	up to 3.5t	40%	0.46		x	0.24781	0.00007	0.00171	0.24960	0.04793	0.29753							
Total													0	0	0	0	0	

Table 7c

							Scope 1 0	OR Scope 3		Scope 3	All Scopes
Van/Light Commerci Tonne.km Basis	ial Vehicle Road F	reight Con	version Factors (UK Averag	e Vehicle Loads):		CO ₂	CH₄	N₂O	Total Direct GHG	Total Indirect GHG	Grand Total GHG
	Vehicle Reference Weight (tonnes)	% weight laden	UK av. payload (tonnes goods carried per vehicle)	Total tonne km travelled	x	kg CO ₂ per tonne km	kg CO2e per tonne km	kg CO2e per tonne km	kg CO2e per tonne km	kg CO₂e per tonne km	kg CO ₂ e per tonne km
Petrol (Class I)	up to 1.305t	37%	0.24		х	0.85248	0.00137	0.00540	0.85924	0.16500	1.02424
Petrol (Class II)	1.305t to 1.74t	37%	0.26		х	0.80133	0.00122	0.00482	0.80737	0.15504	0.96241
Petrol (Class III)	1.74t to 3.5t	41%	0.53		х	0.48179	0.00066	0.00534	0.48780	0.09367	0.58147
Petrol (average)	up to 3.5t	40%	0.31		x	0.69385	0.00106	0.00480	0.69972	0.13437	0.83409
Diesel (Class I)	up to 1.305t	37%	0.24		х	0.65947	0.00024	0.00456	0.66427	0.12756	0.79183
Diesel (Class II)	1.305t to 1.74t	37%	0.36		х	0.62401	0.00016	0.00431	0.62849	0.12069	0.74918
Diesel (Class III)	1.74t to 3.5t	41%	0.53		х	0.50358	0.00011	0.00348	0.50716	0.09739	0.60455
Diesel (average)	up to 3.5t	40%	0.47		x	0.53024	0.00012	0.00366	0.53402	0.10255	0.63657
LPG	up to 3.5t	40%	0.47		х	0.55675	0.00147	0.00428	0.56250	0.10802	0.67052
CNG	up to 3.5t	40%	0.47		х	0.50372	0.00345	0.00428	0.51146	0.09822	0.60968
Average (all vehicles)	up to 3.5t	40%	0.46		x	0.53700	0.00016	0.00371	0.54087	0.10386	0.64473
Total											

	Scope 1 C	R Scope 3		Scope 3	All Scopes
CO2	CH₄	N ₂ O	Total Direct GHG	Total Indirect GHG	Grand Tota GHG
Total kg CO ₂	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO2e	Total kg CO2e	Total kg CO ₂
		0			

Factors developed by AEA and agreed with Department for Transport (2011) Sources Notes

Emission factors for vans in tonne km were calculated from the emission factors per vehicle km provided in Table 6i and an average load factor of 40% (37% for vehicles up to 1.8 tonnes, 41% for vehicles 1.8 - 3.5 tonnes, estimated on the basis of DfT statistics for Vans for 2005). The average cargo capacity was taken to be 0.45 tonnes for Class I vans, 0.7 tonne for Class II vans and 1.25 tonnes for vans up to 3.5 tonnes vehicle reference weight. Reference weight is equivalent to the vehicle kerb weight plus 60kg.

The '% weight laden' refers to the extent to which the vehicle is loaded to its maximum carrying capacity (also known as the payload capacity). A 0% weight laden HGV means the vehicle is travelling carrying no loads. 100% weight laden means the vehicle is travelling with loads bringing the vehicle to its maximum carrying capacity. Emission factors for CH₄ and N₂O are based on UK Greenhouse Gas Inventory values for 2009 (AEA, 2011), available at: http://naei.defra.gov.uk/

Table 7d

							Scope 1 0	OR Scope 3	Total Direct	Scope 3 Total Indirect	All Scopes Grand Total		Scope 1 C	OR Scope 3	Total Direct	Scope 3 Total Indirect	All Scopes Grand Total
Diesel HG	GV Road Freight Conversion	Factors: Ve	hicle km Basis			CO ₂	CH₄	N₂O	GHG	GHG	Grand Total GHG	CO ₂	CH₄	N ₂ O	GHG	GHG	Grand Total GHG
Dieserrie	Gross Vehicle	% weight	Incle kin Busis	Total vehicle km		kg CO ₂ per		kg CO ₂ e per		kg CO ₂ e per	kg CO2e per	002		Total kg CO ₂ e		Total kg CO ₂ e	Total kg CO ₂ e
	Weight (tonnes)	laden		travelled	х	vehicle km	vehicle km		vehicle km	vehicle km	vehicle km	Total kg CO ₂		· · · · · · · · · · · · · · · · · · ·	· • • • • • • • • • • • • • • • • • • •	· • • • • • • • • • • • • • • • • • • •	· • • • • • • • • • • • • • • • • • • •
Rigid	>3.5-7.5t	0%			×	0.54372	0.00028	0.00611	0.55011	0.10554	0.65565	J					
. ng u		50%			x	0.59100	0.00028	0.00611	0.59739	0.11461	0.71200						
		100%			х	0.63828	0.00028	0.00611	0.64467	0.12368	0.76835						
		43%	(UK average load)		x	0.58438	0.00028	0.00611	0.59077	0.11334	0.70411						
Rigid	>7.5-17t	09/			×	0.67153	0.00036	0.00775	0.67964	0.13039	0.81003						
Rigiu	>7.5-171	50%			x	0.76746	0.00036	0.00775	0.77557	0.13039	0.92436						
		100%			x	0.86339	0.00036	0.00775	0.87150	0.16720	1.03870						
		36%	(UK average load)		x	0.74060	0.00036	0.00775	0.74871	0.14364	0.89235						
Rigid	>17t	0%			 х	0.78198	0.00047	0.01006	0.79251	0.15204	0.94455						
		50% 100%			x	0.95363	0.00047	0.01006	0.96416	0.18497	1.14913 1.35371		_				
			(UK average load)		×	0.96138	0.00047	0.01006	0.97191	0.21790	1.158371						
		J2 %	(OK average load)		×	0.90138	0.00047	0.07000	0.97191	0.78040	1.13837						
All rigids	UK average	50%			x	0.82198	0.00040	0.00860	0.83098	0.15942	0.99040						
Antipudente d	>3.5-33t	00/				0.69388	0.00081	0.00889	0.70359	0.13498	0.83857						
Articulated	>3.5-33t	50%			x	0.69388	0.00081	0.00889	0.70359	0.13498	1.04532						
		100%			×	1.04082	0.00081	0.00889	1.05053	0.20154	1.25207						
			(UK average load)		×	0.85000	0.00081	0.00889	0.85971	0.16493	1.02464						
Articulated	>33t	0%			 х	0.69968	0.00094	0.01030	0.71092	0.13639	0.84731						
		50%			х	0.93290	0.00094	0.01030	0.94414	0.18113	1.12527						
		100%	(1.114		 x	1.16613	0.00094	0.01030	1.17737	0.22588	1.40325						
		61%	(UK average load)		 x	0.98421	0.00094	0.01030	0.99545	0.19098	1.18643						
All artics	UK average	60%			x	0.97143	0.00093	0.01016	0.98252	0.18850	1.17102						
ALL HGVs	UK average	55%			 Y	0.88887	0.00066	0.00930	0.89883	0.17244	1.07127		-				
Total	ok average	33%	1		X	0.88887	0.00066	0.00930	0.89883	0.17244	1.0/12/		0 0			0	0
Total													0		0	0	U

Sources

Notes

Factors developed by AEA and agreed with Department for Transport (2011) UK Greenhouse Gas Inventory for 2009 (AEA, 2011)

Transport Statistics Bulletin: Road Freight Statistics 2009, (DfT, 2010)

http://www.dft.gov.uk/pgr/statistics/datatablespublications/freight/goodsbyroad

Factors are provided in kgCO_/vehicle.km for 3 different gross vehicle weight ranges of rigid-axled HGVs and 2 different gross vehicle weight ranges of articulated HGVs. A vehicle km is the distance travelled by the HGV.

The '% weight laden' refers to the extent to which the vehicle is loaded to its maximum carrying capacity (also known as the payload capacity). A 0% weight laden HGV means the vehicle is travelling carrying no loads. 100% weight laden means the vehicle is travelling with loads bringing the vehicle to its maximum carrying capacity.

Factors are based on road freight statistics from the Department for Transport (DIT, 2010), from a survey on the average miles per gallon and average loading factor for different sizes of rigid and artic HGVs in the 2009 fleet, combined with test data from the European ARTEMIS project showing how fuel efficiency, and hence CO₂ emissions, varies with vehicle load.

The miles per gallon figures in Table 5.1 of DIT (2010) were converted into CO₂ factors using the diesel fuel conversion factors. Then using the ARTEMIS data, these were corrected to CO₂ factors corresponding to 0%, 50% and 100% loading in Table 7d. The correction was based on the current percent lading for different sizes of HGVs in the national fleet in 2009 given in Table 1.12 of DIT (2010).

As well as CO₂ factors for 0%, 50% and 100% loading, CO₂ factors are shown for the average loading of each weight class of HGV in the UK fleet in 2009. These should be used as default values if the user does not know the loading factor to use and are based on the actual laden factors and mpg figures from tables 1.12 and 5.1 in DIT (2010).

UK average factors for all rigid and articulated HGVs are also provided in Table 7d if the user requires aggregate factors for these main classes of HGVs, perhaps because the weight class of the HGV is not known. Again, these factors represent averages for the UK HGV fleet in 2009. These are derived directly from the average mpg values for all rigid and articulated HGVs in Table 1.12 of DIT (2010).

At a more aggregated level still are factors for all HGVs representing the average mpg for all rigid and articulated HGV classes in Table 1.12 of DIT (2010). This factor should be used if the user has no knowledge of or requirement for different classes of HGV and may be suitable for analysis of HGV CO₂ emissions in, for example, inter-modal freight transport comparisons.

							Scope 1	OR Scope 3	Total Direct	Scope 3 Total Indirect	All Scopes Grand Total		Scope 1	OR Scope 3	Total Direct	Scope 3 Total Indirect	
Dissel HCV Re	nd Ereight Conversion	Easters (III	K Average Vehicle Loads):	Tonno km Booio		CO ₂	CH₄	N ₂ O	GHG	GHG	Grand Total GHG	CO ₂	CH₄	N ₂ O	GHG	GHG	
Diesel HGV Ro			UK av. payload (tonnes	Total tonne km			kg CO ₂ e per			kg CO ₂ e per	kg CO ₂ e per	CO ₂			Total kg CO ₂ e	Total kg CO ₂ e	
			goods carried per vehicle)		x			tonne.km	tonne.km	tonne.km	tonne.km	Total kg CO ₂	Total kg CO ₂ e				
Rigid	>3.5-7.5t	43%	0.9	7	х	0.59938	0.00029	0.00627	0.60594	0.11625	0.72219						
Rigid	>7.5-17t	36%	1.9	1	х	0.38802	0.00019	0.00406	0.39227	0.07526	0.46753						
Rigid	>17t	52%	4.9	0	х	0.19623	0.00010	0.00205	0.19838	0.03806	0.23644						
All rigids	UK average	50%	3.1	7	x	0.25897	0.00013	0.00271	0.26181	0.05023	0.31204						
Articulated	>3.5-33t	45%	5.8	0	х	0.14661	0.00014	0.00153	0.14828	0.02845	0.17673						
Articulated	>33t	61%	11.4	9	 x	0.08567	0.00008	0.00090	0.08665	0.01662	0.10327						
All artics	UK average	60%	10.9	7	x	0.08853	0.0008	0.00093	0.08954	0.01718	0.10672						
ALL HGVs	UK average	55%	6.9	9	x	0.12718	0.00011	0.00191	0.12920	0.02479	0.15399						
Total													0			0	

Sources Factors developed by AEA and agreed with Department for Transport (2011) Notes The user may want to use factors in koCO-/tonne.km for calculating the emission

The user may want to use factors in kgCO₂/tonne.km for calculating the emissions due to transporting a given weight of freight a given distance for comparison with other modes of freight transport, e.g. for comparing road vs rail using tonne.km factors for other modes in Table 7f. A tonne.km is the distance travelled multiplied by the weight of freight carried by the HGV. So, for example, an HGV carrying 5 tonnes freight over 100 km has a tonne.km value of 500 tonne.km. As different users may require CO₂ factors for HGVs in different levels of detail of HGV type, factors are provided in kgCO₂. /tonne.km for: 3 different gross vehicle weight ranges of raid-add HGVs (most amount of detail) possible) and 2 different gross vehicle weight ranges of articulated HGVs; fleet averaged factors for all types of HGVs (most amount of detail).

The '% weight laden' refers to the extent to which the vehicle is loaded to its maximum carrying capacity (also known as the payload capacity). A 0% weight laden HGV means the vehicle is carrying no loads. 100% weight laden means the vehicle is travelling with loads bringing the vehicle to its maximum carrying capacity.

The gCO_/lonne.km factors in Table 7e have been calculated on the basis that a lorry will run empty for part of the time in the overall transporting of the freight. Thus the user does not need to double the distance of their freight tonne.km for parts of a trip done empty loaded, as this has already been considered in the calculations. The distance should refer to the overall distance that the goods are moved.

The factors are derived from the 2009 fleet average kgCO₂ per vehicle km factors in Table 7d and the average tonne of freight per vehicle lifted by each HGV weight class. The average tonne freight lifted figures are derived from the tonne.km and vehicle.km figures given for each class of HGV in Tables 1.12 and 1.9, respectively, in DIT (2010). Dividing the tonne.km by the vehicle.km figures gives the average tonnes freight lifted by each HGV class.

Tables 7d and 7e are provided as alternative methods for calculating CO₂ emissions from movement of freight by HGVs. The factors in givehicle.km (Table 7d) are sufficient (and with the ability to take into account different loading factors are preferential) for an operator who simply wants to calculate and compare CO₂ emissions for different ways of transporting goods around by optimising freight logistics. Factors in Table 7e may be better to use when comparing road freight with other modes for transporting a given weight of freight a given distance. To avoid double-counting, it is important that calculations **DO NOT USE BOTH** methods.

Table 7f

						Sco	ope 3		Scope 3	All Scopes		So	cope 3		Scope 3	All Scopes
										Grand Total				Total Direct		Grand Total
Rail and Air Freight M	Wileage Conversion Factors: Tonne.km Basis				CO ₂	CH₄	N ₂ O	GHG	GHG	GHG	CO ₂	CH ₄	N ₂ O	GHG	GHG	GHG
		Total tonne km		х	kg CO ₂ per	kg CO2e per	kg CO2e per	kg CO ₂ e per	kg CO2e per	kg CO ₂ e per		Total kg CO ₂ e	e Total kg CO2e	Total kg CO2e	Total kg CO ₂ e	Total kg CO ₂ e
Mode	Detail	travelled			tonne.km	tonne.km	tonne.km	tonne.km	tonne.km	tonne.km	Total kg C	D ₂				
Rail	Diesel / Electric			х	0.02850	0.00005	0.00306	0.03161	0.00533	0.03694						
		Total tonne km	x km uplift	х	kg CO ₂ per	kg CO ₂ e per	kg CO2e per	kg CO ₂ e per	kg CO ₂ e per	kg CO ₂ e per						
Mode	Detail	travelled	factor 1		tonne.km	tonne.km	tonne.km	tonne.km	tonne.km	tonne.km	Total kg C	D ₂ Total kg CO ₂	Total kg CO ₂	Total kg CO ₂	Total kg CO ₂	Total kg CO ₂
Air	Domestic		x 109%	х	1.73772	0.00110	0.01711	1.75592	0.32318	2.07910						
	Short-haul international		x 109%	х	1.33494	0.00008	0.01314	1.34816	0.24827	1.59643						
	Long-haul international		x 109%	х	0.60818	0.00003	0.00599	0.61420	0.11311	0.72731						
Total												0	0	0 0	0	0

Sources Factors developed by AEA and agreed with Department for Transport (2010)

Office of Rail Regulation (ORR), 2009.

EMEP/EEA air pollutant emission inventory guidebook 2009 (EEA, 2009) Civil Aviation Authority (2010)

Notes

The CO₂ value for rail freight is based on currently available information on CO₂ emissions by diesel and electric freight trains in the UK in 2007 produced by ORR (Office of the Rail Regulator) and is available at:

http://www.rail-reg.gov.uk/upload/pdf/rolling-c9-environ.pdf

The rail freight CH₄ and N₂O factors are based on those used in the UK Greenhouse Gas Inventory for diesel rail for 2009 (AEA, 2011).

Air:

Rail:

Freight is transported by two types of aircraft - dedicated cargo aircraft which carry freight only, and passenger aircraft which carry both passengers and their luggage, as well as freight. Statistics from the CAA for 2009 suggest a large proportion of long haul air freight is transported on passenger aircraft. While it is possible to estimate freight CO₂ factors per tonne, for dedicated cargo aircraft in much the same way as the passenger. Im factors for passengers, it is more difficult to generate freight CO2 factors for aircraft that are also carrying passengers without double-counting.

The allocation of aircraft CO₂ emissions between passengers and freight on these aircraft is complex and for the purposes of these emission factors the allocation is carried out by treating reight carried on cargo or passenger services as equivalent. This is done by assuming the incorporation of the lost cargo capacity of passenger aircraft relative cargo-only equivalents into the passenger weighting. It is assumed this assumed this calculation is the Boeing 747, as the freight configuration equivalent is used for over 90% of long-haul dedicated cargo transport from the modifications. The reference aircraft used in this calculation is the Boeing 747, as the freight configuration equivalent is used for over 90% of long-haul dedicated cargo transport from the UK.

¹ The 9% uplift factor comes from the IPCC Aviation and the global Atmosphere 8.2.2.3, which states that 9-10% should be added to take into account non-direct routes (i.e. not along the straight line great circle distances between destinations) and delays/circling. Airline industry representatives have indicated that the percentage uplift for short-haul flights will be higher and for long-haul flights will be lower, however specific data is not currently available to provide separate factors. This is under investigation for future versions of these guidelines.

Notes 10-12 from the passenger flights emission factors (Annex 6) also apply to the air freight emission factors.

Table 7g

						Sc	ope 3		Scope 3	All Scopes		Sco	ope 3		Scope 3	11
								Total Direct	Total Indirect	Grand Total				Total Direct	Total Indirect	
laritime Shipping F	reight Distance Conversior	n Factors: Tonne.km Basis	T () (CO ₂	CH ₄	N ₂ O	GHG	GHG	GHG	CO ₂	CH₄	N₂O	GHG	GHG	
			Total tonne km travelled	х	kg CO ₂ per tonne.km	tonne.km	kg CO ₂ e per tonne.km	kg CO ₂ e per tonne.km	kg CO2e per tonne.km	kg CO2e per tonne.km	T	Total kg CO ₂ e	H			
lode	Detail	-	travelled		tonne.km	tonne.km	tonne.km	tonne.km	tonne.km	tonne.km	Total kg CO ₂					4 –
hip Type	Size*	Av. Loading														4 🗖
Crude tanker (oil)	200,000+ dwt	48%		х	0.00290	0.0000	0.00002	0.00292	0.00049	0.00341						4 -
Crude tanker (oil)	120,000–199,999 dwt	48%		x	0.00440	0.0000	0.00003	0.00443	0.00075	0.00518	-					4 -
Crude tanker (oil)	80,000-119,999 dwt	48% 48%		x	0.00590	0.0000		5 0.00595 6 0.00756	0.00100	0.00695	-					4 -
Crude tanker (oil) Crude tanker (oil)	60,000-79,999 dwt 10.000-59,999 dwt	48%		x	0.00750				0.00127	0.00883						1 -
Crude tanker (oil)	10,000–59,999 dwt	48%		x	0.00910			0.00917	0.00154	0.01071						4 6
				Â												
Crude tanker (oil)	Average	48%		 x	0.0045	0.0000		0.00454	0.00077	0.00531						
Products tanker	60,000+ dwt	55%		 X	0.00570		0.00004		0.00097	0.00671						
Products tanker Products tanker	20,000-59,999 dwt 10,000-19,999 dwt	55% 50%		 x	0.01030		0.00008	8 0.01038 8 0.01885	0.00175 0.00317	0.01213 0.02202						4 -
Products tanker Products tanker	10,000–19,999 dwt 5000–9999 dwt	50%		x	0.01870	0.0000		0.01885	0.00317	0.02202						
Products tanker Products tanker	0-4999 dwt	45%		x	0.02920		0.00022	0.02943	0.00495	0.03438						۱ŀ
		45% 54%		x	0.04500				0.00764	0.05300						۱ŀ
Products tanker	Average	54% 64%		X		0.0000										ł۲
Chemical tanker Chemical tanker	20,000+ dwt 10.000-19.999 dwt	64%		x	0.00840		0.0000	6 0.00846 8 0.01088	0.00143	0.00989						łŀ
Chemical tanker Chemical tanker	10,000–19,999 dwt 5000–9999 dwt	64%		×	0.01080	0.0000	0.00008		0.00183	0.01271						1 -
Chemical tanker	0-4999 dwt	64%		x	0.01510				0.00256	0.01778						۱ŀ
Chemical tanker		64%		x	0.02220				0.00377							۱ŀ
	Average									0.01199	-					4 -
_PG tanker _PG tanker	50,000+ m3 0-49,999 m3	48% 48%		 ×	0.00900	0.0000		0.00907	0.00153	0.01060						
_NG tanker	0-49,999 m3 200.000+ m3	48%		x	0.00930			0.00937	0.00738	0.05122						4 -
NG tanker	0-199,999 m3	48%		x	0.00930		0.00001		0.00158	0.01095						4 -
	1	48%			0.01430		1		0.00248	0.01341						
LNG tanker	Average			 x												4 -
Bulk carrier Bulk carrier	200,000+ dwt 100,000-199,999 dwt	50%		 ×	0.00250	0.0000	0.00002	0.00252	0.00042	0.00294						4 -
Bulk carrier Bulk carrier	60.000-99.999 dwt	50%		x	0.00300		0.00002	3 0.00302	0.00051	0.00353						4 6
Bulk carrier	35.000-59.999 dwt	55%	-	×	0.00410		0.00004	0.00413	0.00070	0.00483				-		1 -
Bulk carrier	10.000-34.999 dwt	55%	-	X	0.00370				0.00134	0.00930				-		4 H
Bulk carrier	0-9999 dwt	60%		Ŷ	0.02920			2 0.02943	0.00495	0.03438						1 6
Bulk carrier	Average	51%		×	0.00349				0.00059	0.00411						1 6
General cargo	10.000+ dwt	60%		×	0.0034		0.0000	0.00332	0.00039	0.01401						4 🖿
General cargo General cargo	5000–9999 dwt	60%		×	0.01190				0.00202	0.01401						1 -
Seneral cargo	0-4999 dwt	60%		×	0.01390	0.0000	0.00011	0.01333	0.00236	0.01637						1 -
General cargo	10.000+ dwt 100+ TEU	60%		Ŷ	0.01390			0.01401	0.00238	0.01837						1 F
General cargo	5000-9999 dwt 100+ TEU	60%		×	0.01750				0.00297	0.02061						1 🗖
General cargo	0-4999 dwt 100+ TEU	60%		×	0.01980	0.0000			0.00336	0.02332						1 🖿
General cargo	Average	60%		×	0.0130		0.00010	0.01315	0.00221	0.01536						1 🗖
Refrigerated cargo	All dwt	50%		×	0.0130		0.00010		0.00221	0.01538						1 🖿
	8000+ TEU	70%		x	0.01290				0.00219	0.01519						1 🗄
Container Container	5000-7999 TEU	70%		×	0.01250	0.0000			0.00212	0.01472						1 H
Container	3000–7999 TEU 3000–4999 TEU	70%		x	0.01660	0.0000		3 0.01674	0.00282	0.01956						1 H
Container	2000–2999 TEU	70%		×	0.02000				0.00282	0.02355						1 -
Container	1000–2999 TEU	70%		×	0.02000		0.00018	0.02016	0.00339	0.02355						۱ŀ
Container	0-999 TEU	70%		x	0.03210			0.03236	0.00545	0.03781						1 F
container	Average	70%		×	0.03630				0.00270	0.04275						1 F
ehicle transport	4000+ CEU	70%		x	0.01592	0.0000	0.00012	0.01605	0.00270	0.01875						٩F
ehicle transport	4000+ CEU 0-3999 CEU	70%		×	0.03200	0.0000	0.0002	0.03226	0.00543	0.03769						1
	1			x			1									۱ŀ
ehicle transport	Average	70%		х	0.0380			0.03835	0.00646	0.04481						4 -
Ro-Ro ferry	2000+ LM	70%		х	0.04950	0.0000	0.00038	0.04990	0.00840	0.05830						4 -
to-Ro ferry	0–1999 LM	70%		х	0.06030	0.0000	0.00046	0.06078	0.01023	0.07101						4 -
Ro-Ro ferry	Average	70%		x	0.0509			0.05136	0.00865	0.06001						4
arge RoPax ferry	1	1		x	0.38434	\$ 0.0001	0.00295	0.38741	0.06522	0.45263						4 -
otal												0 0		0 0	0	41

Sources

Factors developed by AEA and agreed with Department for Transport (2011). These factors are international averages and load factors may not be the same as for average for ships arriving at/leaving UK ports. IMO (2009). "Prevention of Air Pollution from Ships, Second IMO GHG Study 2009. Update of the 2000 IMO GHG Study, Final report covering Phase 1". This report is available from the IMO's website at: http://www.imo.org/includes/blastDataOnly.asp/data_id%3D26046/4-7.pdf

dwt = deadweight, tonnes LM = Lane Meters Notes CEU = Car Equivalent Units m3 = volume in cubic meters TEU = Twenty-Foot Equivalent Units (intermodal shipping container)

> The freight CO₂ emission factor for RoPax Ferries was derived from data provided by Best Foot Forward based on work for the Passenger Shipping Association (PSA) carried out in 2007/8. The calculated figure assumes an average HGV load factor of 13.6 tonnes, based on information in Table 2.6 of Road Transport Statistics 2005 (from the Department for Transport, RoPax Ferries are Roll-on Roll-off ferries that carry both road vehicles and their passengers as well as having additional passenger-only capacity.

Factors for the other representative ships are derived from information from Table 9.1 of the International Maritime Organisation's report on GHG emissions (IMO, 2009). Emission factors for CH₄ and N₂O are based on UK Greenhouse Gas Inventory values for 2009 (AEA, 2011), available at: <u>http://naei.defra.gov.uk/</u>

Only the weight of the cargo being transported should be used when calculating emissions from shipping. The weight of the ship (as incorporated into deadweight tonnage) should not be included in the calculation.

Annex 8 - Direct GHG Emissions from Use of Refrigeration and Air Conditioning Equipment

Last updated: Jun-11

How to use this Annex

There are two methods presented here for the estimation of emissions from the use of refrigeration and air conditioning equipment. For smaller users the simple **A. Screening Method** will likely be the easiest way to calculate their emissions. Organisations who operate a large number of air conditioning or refrigeration units, or who expect emissions from this equipment to be a significant portion of their emissions, should perform a more accurate estimation using a **B. Simplified Material Balance Method**.

A. Screening Method

This Screening Method will help organisations to estimate emissions from refrigeration and air conditioning based on the type of equipment used and emissions factors. This approach requires relatively little actual data collection however there is a high degree of uncertainty with these emission factors. Therefore if emissions from this equipment are determined to be significant when compared to your organisation's other emissions sources, then you should apply a better estimation method (e.g. a Material Balance Method). Please note, there are extensive regulatory requirements governing the operation of stationary equipment using fluorinated greenhouse gases, including record keeping requirements for stationary refrigeration and air-conditioning equipment, heat pumps and fire protection equipment with a charge of 3kg or more. Guidance is available at:

http://www.defra.gov.uk/environment/quality/air/fgas/index.htm

To complete these tables you will need to:

1) Carry out an inventory of equipment to find out:

(i) the number and types of each refrigeration unit;

(ii) the type of refrigerant used (e.g. HFC 134a, R404a, R407a, R407b, R407c, R410A, etc);
(iii) the total charge capacity of each piece of equipment (charge capacity is the mass of refrigerant used in a refrigerator or other cooling equipment);
(iv) the time in years used during the reporting period (e.g. 0.5 if used only during half of the reporting period then disposed)

Once you know the refrigerant type, please refer to Annex 5 to identify its Global Warming Potential (GWP). Alternatively, defaults are currently filled out automatically from selected refrigerants in the Excel spreadsheet. For further guidance on typical charge capacity, please refer to Table 8d.

- 2) Determine installation emissions: Identify any new equipment that was installed during the reporting period and was charged (filled) on-site. Emissions from equipment that was charged at the manufacturer are not the responsibility of your organisation. For each new piece of equipment charged **on-site** use **Table 8a** to estimate emissions.
- 3) Determine operating emissions: This step estimates losses from equipment leaks and service losses over the life of the equipment. For all pieces of equipment, use Table 8b to estimate emissions. You will need to determine the length of time (in years) that each piece of equipment has be used.
- 4) Determine disposal emissions: Identify any pieces of equipment that were disposed of on-site during the reporting period. Emissions from equipment that was sent offsite for third party recycling, reclamation or disposal are not the responsibility of your organisation. For each piece disposed equipment, use Table 8c to estimate emissions.
- 5) Calculate total emissions: Add the emissions from each piece of equipment for each of emission installation, operation and disposal to get total emissions. Calculate separate totals for each type of refrigerant used.

Information on refrigerant type and kilograms (kg) of charge capacity can be sourced from:

(a) Air conditioning chillers and modular units: visual readings on the equipment, equipment manuals or maintenance records;

(b) Refrigeration units: visual readings on the equipment

Annex 8 Scopes & Boundaries:

Scope 1: Direct emissions from leakage of refrigerants. Data on indirect emissions from production of refrigeration not currently available.

Further information on scopes is available from Defra's website in the guidance on reporting at:

http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/ OR from the Greenhouse Gas Protocol's website at: http://www.ghgprotocol.org/standards/corporate-standard

How were these factors calculated?

For further explanation on how these emission factors have been derived, please refer to the GHG conversion factor methodology paper available here: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/

Annex 8 - Direct GHG Emissions from Use of Refrigeration and Air Conditioning Equipment Last updated: Jun-11

											Scope
Emissions from Installation of Refrigeration and A		gЕ				_		_			
	Number of Units		Equipment Charge Capacity (kg)		Installation Emission Factor				Refrigerant type (select from list from Annex 5)	Global Warming Potential (GWP)	Tatal lan O
Type of Equipment	Units	×	Capacity (kg)	X		x			(select from list from Annex 5)	Potential (GVVP)	l otal kg Co
Domestic Refrigeration		х		х	1.0%	х				;	x
Stand-alone Commercial Applications		х		х	1.5%	х				,	x
Medium & Large Commercial Applications		х		х	2.0%	х				,	x
Transport Refrigeration		х		х	1.0%	х				,	x
Industrial Refrigeration (inc. food processing and cold storage)		х		х	1.0%	х				2	ĸ
Chillers		х		х	1.0%	х				;	x
Residential and Commercial A/C		х		х	1.0%	х				3	x
Residential and Commercial Heat Pumps		х		х	1.0%	х)	x
Mobile Air Conditioning		х		х	1.0%	х				3	x
Total											
											Scop
Emissions from operation of Refrigeration and Air	conditioning	Ea	uinment								<u> </u>
Emissions non operation of Kemgeration and Air	-contaitioning	-4	aipinent		Time used during						
	Number of		Equipment Charge		reporting period		Annual Leak		Refrigerant type	Global Warming	
Turpo of Equipment	Units	x	Capacity (kg)	×	(years)	x	Rate	x	(select from list from Annex 5)	Potential (GWP)	Total kg (
Type of Equipment	Office	^	oupdoily (kg)	^	(youro)	^		^			Total Ky C
Domestic Refrigeration		х		х		х	0.3%	х		,	x
Stand-alone Commercial Applications		х		х		х	1.5%	х		2	x
Medium & Large Commercial Applications		х		х		х	11.0%	х		3	x
Transport Refrigeration ¹		х		х		х	8.0%	х		3	x
Industrial Refrigeration (inc. food processing and cold storage)		х		х		х	8.0%	х)	x
Chillers		х		х		х	3.0%	х		3	x
Residential and Commercial A/C		х		х		х	8.5%	х		3	x
Residential and Commercial Heat Pumps		х		х		х	0.3%	х		3	x
Mobile Air Conditioning		х		х		х	7.5%	х		3	x
Total											
											0
											Scop
Emissions from Disposal of Refrigeration and Air-	conditioning i	=qu	lipment		Capacity						
	Number of		Equipment Charge		remaining at		Refrigerant		Refrigerant type	Global Warming	
Defrigerent Tune	Units				disposal (%)		recovered (%)		(select from list from Annex 5)		TULL
Refrigerant Type	Units	×	Capacity (kg)	X	,	x	. ,	X	(select normalist from Annex 5)	Potential (GWP)	rotal kg C
Domestic Refrigeration		х		х	80%	х	99.0%	х		;	x
Stand-alone Commercial Applications		х		х	80%	х	94.5%	х		3	x
Medium & Large Commercial Applications		х		х	100%	х	95.0%	х		,	x
Transport Refrigeration		х		х	50%	х	94.0%	х		3	x
Industrial Refrigeration (inc. food processing and cold storage)		х		х	100%	х	95.0%	х		3	x
Chillers		х		х	100%	х	95.0%	х		3	x
Residential and Commercial A/C		x		х	80%	х	95.0%	х		;	x
Residential and Commercial Heat Pumps		x		x	80%		99.0%	Γ		,	x
Residential and Commercial Heat Pumps											
Mobile Air Conditioning		x		¥	50%	x	88.0%	¥			x

Annex 8 - Direct GHG Emissions from Use of Refrigeration and Air Conditioning Equipment

Last updated: Jun-11

Table 8d

	Typical Range in Charge Capacity
Type of Equipment	(kg)
Domestic Refrigeration	0.05 - 0.5
Stand-alone Commercial Applications	0.2 - 6
Medium & Large Commercial Applications	50 - 2,000
Transport Refrigeration	3 - 8
Industrial Refrigeration (inc. food processing and cold storage)	10 - 10,000
Chillers	10 - 2,000
Residential and Commercial A/C	0.5 - 100
Residential and Commercial Heat Pumps	0.5 - 100
Mobile Air Conditioning	0.5 - 1.5

Sources UK Greenhouse Gas Inventory for 2009 (AEA, 2011)

2006 IPCC Guidelines for National Greenhouse Inventories (<u>http://www.ipcc-ngqip.iqes.or.jp/public/2006gl/pdf/3_Volume3/V3_7_Ch7_ODS_Substitutes.pdf</u>) US EPA Climate Leaders Greenhouse Gas Inventory Protocol Core Module Guidance - Direct HFC and PFC Emissions from use of Refrigeration and Air Conditioning Equipment (see: http://www.epa.gov/stateply/documents/resources/mfgrfg.pdf)

Notes ¹ Transport Refrigeration annual leakage rate is taken from UK Greenhouse Gas Inventory for 2008 (AEA, 2010). Note that this figure is subject to review and may subsequently increase in the future.

B. Simplified Material Balance Method

This is a simplified material balance method. This will enable more accurate estimation of refrigerant leakage than the Screening Method (Table 8a - d). Larger users of refrigerant, and those who expect emissions from refrigerant leakage to be significant, should use this method. To complete Table 8e, you will need to:

1) Calculate installation emissions.

This step is only necessary if your organisation installed any new equipment during the reporting period that was not pre-charged by the equipment supplier. Emissions are calculated by taking the difference between the amount of refrigerant used to charge the equipment and the total capacity of the equipment. The difference is assumed to be released into the environment.

2) Determine equipment servicing emissions

Equipment servicing emissions result from the refrigerant that is used to service operating equipment. It is assumed that the servicing refrigerant is replacing the same amount that was lost to the environment.

3) Calculate disposal emissions

This step is only necessary if your organisation disposed of equipment during the reporting period. Emissions are calculated by taking the difference between the total capacity of the equipment disposed and the amount of refrigerant recovered. The difference is assumed to be released to the environment.

4) Calculate emissions

Emissions are calculated by summing the results of the first three steps.

This approach should be used for each type of refrigerant and blend.

This method requires the following information:

a) Refrigerant used to fill new equipment (set to 0 if the equipment has been pre-charged by the manufacturer);

- b) Refrigerant used to fill equipment retrofitted to use this refrigerant (set to 0 if the equipment has been pre-charged by the manufacturer);
- c) Total full capacity of new equipment using this refrigerant (set to 0 if the equipment has been pre-charged by the manufacturer);
- d) Total full capacity of equipment that is retrofitted to use this refrigerant (set to 0 if the equipment has been pre-charged by the manufacturer);
- e) Refrigerant used to service equipment;

f) Total full capacity of retiring equipment;

g) Total full capacity of equipment that is retrofitted away from this refrigerant to a different refrigerant;

h) Refrigerant recovered from retiring equipment;

i) Refrigerant recovered from equipment that is retrofitted away from this refrigerant to a different refrigerant.

Scope 1

Annex 8 - Direct GHG Emissions from Use of Refrigeration and Air Conditioning Equipment

Last updated: Jun-11

8e Estimating Refrigerant Emissions with Simplified Ma		Total full capacity of the new		Quantity of refrigerant used to service	Total f capacity retirin	of		Refrigerant type (select from list	Potential	
Purchases of refrigerant used to charge new equ	uipment (kg)	equipment (kg)	+ (equipment (kg)	equipmen	: (kg) -	Refrigerant recovered from retiring equipment (kg)	x from Annex 5)	(GWP)	= Total kg CO ₂ e
Refrigerant 1			+	-	F	-		x		=
Refrigerant 2			+	-	F	-		x		=
Refrigerant 3			+	-	F	-		x		=
Refrigerant 4		•	+	-	F	-		x		=
Refrigerant 5			+	-	F	-		x		=
Refrigerant 6			+	-	F	-		x		=
Refrigerant 7			+	-	F	-		x		=
Refrigerant 8			+	-	F	-		x		=
Refrigerant 9			+	-	F	-		x		=
Refrigerant 10			+	-	F	-		x		=
Total										C

Sources 2006 IPCC Guidelines for National Greenhouse Inventories (<u>http://www.ipcc-nggip.iges.or.jp/public/2006gl/pdf/3_Volume3/V3_7_Ch7_ODS_Substitutes.pdf</u>) US EPA Climate Leaders Greenhouse Gas Inventory Protocol Core Module Guidance - Direct HFC and PFC Emissions from use of Refrigeration and Air Conditioning Equipment (see: <u>http://www.epa.gov/stateply/documents/resources/mfgrfg.pdf</u>)

Annex 9 - Other UK Conversion Factor Tables

Last updated: Aug-11

The emission factors presented in this Annex incorporate emissions from the full life-cycle and include net CO₂, CH₄ and N₂O emissions. Care should be taken to use equivalent emission factors (EFs) for different activities - i.e. combine only direct EFs, OR indirect EFs OR total lifecycle EFs, or emissions factors for the same Scope (as defined by the GHG Protocol).

How to use this Annex

Tables 9a-c provide life-cycle conversion factors for water, biofuels and biomass:

1) Identify the amount of substance used

2) Identify the units. Are you measuring your fuel use in terms of mass, volume or energy?

3) Convert to the appropriate unit of volume or mass for the table:

(i) If you cannot find a factor for that unit, Annex 12 gives guidance on converting between different units of mass, volume, length and energy.

(ii) If you are measuring fuel use in terms of energy, is your unit of measurement net energy or gross energy (in the event that this is unclear you should contact your fuel supplier)? <u>Annex 11</u> gives typical/average net/gross calorific values and the densities.

4) If you are using a biofuel blend EITHER:

(i) Use the total amount of pure biofuel used to calculate the emissions together with Table 9b, Part (i) and the total amount of pure conventional fuel together with Table 9b, Part (ii); OR

(ii) Use the total amount of blended fuel in the calculation together with Table 9b, Part (iii). The combined emission factor (EF) is calculated by the excel spreadsheet automatically following your entry of the % biofuel blended with conventional fuel and entry of the total amount of biofuel/conventional fuel blend. For an X% blend of biofuel with conventional fuel the combined emission factor is calculated as follows:

Total EF for X% biofuel/conventional fuel blend = X% x biofuel EF + (1-X%) x conventional fuel EF

5) Multiply the amount of fuel used by the conversion factor to get total emissions in kilograms of carbon dioxide equivalent (kg CO₂e). The excel spreadsheet does this automatically following your entry of the amount of fuel used into the appropriate box.

Please note that these emission factors **do not** enable you to calculate direct emissions of carbon dioxide for the combustion of biomass and biofuels. Further updates to these Guidelines will seek to address this issue. In the interim, please refer to the following weblink for direct CO₂ emissions from combustion:

http://www.biomassenergycentre.org.uk/portal/page? pageid=75,163182& dad=portal& schema=PORTAL

Table 9d provides life-cycle conversion factors for waste disposal:

To complete this table, you will need to:

1) Check for existing data. Data on waste arisings will be contained in waste transfer/consignment notes or receipts provided for individual waste transfers. All waste producers are legally required to retain these notes for a specified period. These may identify the quantity of waste arising and the company collecting the waste.

Has your organisation carried out a waste audit recently? This may provide further useful information, such as the composition of mixed waste sent for proposal.

2) Speak to your waste contractor(s). Your waste contractor will be able to advise you to which location your wastes have subsequently been delivered (i.e. landfill site, recycling operation, compositing, or energy recovery facility).

Depending on the level of information that your waste contractor can provide, you will need to carry out step 3.

3) Carry out a waste audit

If you do not have detailed waste data from your waste contractors, you should carry out a waste inventory to determine:

(i) The total waste sent to landfill, recycled or composted. This can be done through sampling your waste in order to approximate total waste for each different waste treatment method

(ii) The waste composition (in tonnes) for each waste treatment method. This can be done through sampling, sorting, and weighing your waste to determine its percentage composition in tonnes. If you choose to do this, please wear the appropriate protective clothing and do not attempt to sample any hazardous, toxic or radioactive waste.

(iii) If known, the proportion of recycled material contained in each waste fraction (e.g. the disposed of paper might contain 10% recycled material)

4) Enter the data in the table. Enter the weight (in tonnes) for each waste fraction (e.g. paper and card, textiles, etc) into the appropriate treatment method column along with the recycled material content of disposed waste (if known). The total net kgCO₂e emissions resulting from the waste will be automatically calculated as the sum of kgCO₂e emissions from the total tonnes of waste produced and the kgCO₂e emissions per tonne of waste for each waste treatment method.

For further assistance, please see Envirowise Guide GG414 Measuring to manage: the key to reducing waste costs, available free of charge from the Envirowise website.

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Key information:

The tonnes of waste prevented column should be used if you want to determine the reduction in emissions associated with reduced procurement of materials.

Emission factors for waste treatment processes: The emission factors are based on a life cycle assessment and include not only the carbon costs of treating and transporting waste, but also the potential benefits where primary resource extraction or electricity generation are offset with energy recovery. The impact of waste prevention is calculated based on the embodied energy in primary material, and therefore inherently assumes the offsetting of virgin production.

Further additional information is also available below Table 9d.

Annex 9 Scopes & Boundaries:

Water

Scope 3: Emissions of greenhouse gases associated with the supply and treatment of water and the industry's buildings and transport. Biofuels

Scope 1: Direct emissions of CH₄ and N₂O from the combustion of fuel (CO₂ emissions are set to 0 for biofuels, and reported separately)

- Scope 3: Indirect emissions associated with the production and transport of primary fuels as well as the refining, distribution, storage and retail of finished fuels. For further information see http://ies.jrc.ec.europa.eu/jec-research-collaboration/activities-jec/jec-well-to-wheels-analyses-wtw.html
- Outside of Scopes: Emissions data for direct CO₂ emissions from biologically sequestered carbon (e.g. CO₂ from burning biomass/biofuels) are reported separately from the scopes.

Waste

Scope 3:

Table 9a

Further information on scopes is available from Defra's website in the guidance on reporting at: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/
OR from the Greenhouse Gas Protocol's website at: http://www.ghpprotocol.org/standards/corporate-standard

How were these factors calculated?

For further explanation on how these emission factors have been derived, please refer to the GHG conversion factor methodology paper available here: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/

					Scope 1 Total Direct	Scope 3 Total Indirect	All Scopes Grand Total
Life-Cycle Convers	sion Factors for water				GHG	GHG	GHG
Fuel used	Year for emission factor	Total units used	Units	x	kg CO ₂ e per unit	kg CO2e per unit	
Water supply	2007/08		million litres	х	-	276	27
	2008/09		million litres	х	-	300	30
	2009/10		million litres	х	-	340	34
	2007/08		cubic metres	х	-	0.2760	0.276
	2008/09		cubic metres	х	-	0.3000	0.300
	2009/10		cubic metres	х	-	0.3400	0.340
Water treatment	2007/08		million litres	х	-	693	69
	2008/09		million litres	x	-	750	75
	2009/10		million litres	x	-	700	70
	2007/08		cubic metres	x	-	Kg CO2e per unit Kg CO2e per unit 276 277 300 30 440 0.276 0.300 0.300 0.300 0.340 693 693 7700 770 0.693 0.693 0.0693 0.693 0.7500 0.750 0.7500 0.750	
	2008/09		cubic metres	х	-	0.7500	0.750
	2009/10		cubic metres	х	-	0.7000	0.700
Total							

Scope 1	Scope 3	All Scopes
Total Direct	Total Indirect	Grand Total
GHG	GHG	GHG
Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
0	0	0

Sources Water UK Sustainability Indicators 2009/10, available at:

http://www.water.org.uk/home/news/press-releases/sustainability-indicators-09-10

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Table 9b		ER Part (i) + Part (ii), OR Part (iii) to rovided on the use of these tables in the			ele-counting.	Scope 1	Scope 3	All Scopes
Part (i):	Life-Cycle Conversion F	actors for biofuels (pure)				Total Direct GHG	Total Indirect GHG	Grand Total GHG
	Fuel used	% Blend biofuel with conventional fuels	Total units used	Units ¹	x	kg CO ₂ e per unit ²	kg CO ₂ e per unit	kg CO ₂ e per unit ²
	Biodiesel	100%		litres	х	0.0170	1.3504	1.3674
		100%		GJ	х	0.514	40.787	41.301
	Bioethanol	100%		litres	x	0.0061	0.8104	0.8165
		100%		GJ	х	0.286	38.083	38.369
	Biomethane	100%		kg	x	0.0050	1.3230	1.3280
		100%		GJ	х	0.106	27.000	27.106
(More information is also provided on the use of these Part (i): Life-Cycle Conversion Factors for biofuels (pur Fuel used % Blend biofuel with or fuels Biodesel 100% Bioethanol 100% Biomethane 100%								

Outside of
Scopes ³
Total Direct
GHG
kg CO ₂ e per
unit ²
2.4930
75.300
1.5236
71.600
2.7150
55.408

Scope 1	Scope 3	All Scopes	Outside of Scopes ³
Total Direct GHG	Total Indirect GHG	Grand Total GHG	Total Direct GHG
Total kg CO ₂ e			
0	0	0	0

					Scope 1	Scope 3	All Scopes
(ii): Life-Cycle Conve	rsion Factors for conventional fuels	(pure)			Total Direct GHG	Total Indirect GHG	Grand Total GHG
Fuel used	% Blend	Total units used	Units ¹	х	kg CO2e per unit	kg CO ₂ e per unit	kg CO2e per unit
Diesel	100%		litres	x	2.6676	0.5085	3.1761
	100%		GJ	х	74.391	14.180	88.571
Petrol	100%		litres	х	2.3117	0.4110	2.7227
	100%		GJ	x	70.370	12.511	82.882
CNG	100%		kg	х	2.7076	0.3988	3.1064
	100%		GJ	x	56.730	8.356	65.086
Total							

Outside of Scopes ³ Total Direct GHG
kg CO ₂ e per
unit
0.0000
0.000
0.0000
0.000
0.0000
0.000

Scope 1 Total Direct GHG	Scope 3 Total Indirect GHG	All Scopes Grand Total GHG	Outside of Scopes ³ Total Direct GHG
	Total kg CO ₂ e	Total kg CO ₂ e	Total kg CO ₂ e
		10tal kg 00 ₂ e	10tal kg 00 ₂ e
0	0	0	0

OR						Scope 1	Scope 3	All Scopes
Part (iii):	Life-Cycle Conversion Fa	actors for biofuels (blends)				Total Direct GHG	Total Indirect GHG	Grand Total GHG
		% Blend biofuel with conventional fuels	Total units used	Units ¹		kg CO ₂ e per unit ²	kg CO ₂ e per unit	kg CO ₂ e per unit ²
	Biodiesel / Diesel			litres	х			
	Biodiesel / Diesel			GJ	х			
	Bioethanol / Petrol			litres	х			
	Bioethanol / Petrol			GJ	х			
	Biomethane / CNG			kg	х			
	Biomethane / CNG			GJ	х			
	Total							

Outside of	L
Scopes ³	
Total Direct	
GHG	
ka CO-e per	
kg CO ₂ e per unit ²	
unit -	

U	U	U	U
Scope 1	Scope 3	All Scopes	Outside of Scopes ³
Total Direct GHG	Total Indirect GHG	Grand Total GHG	Total Direct GHG
Total kg CO ₂ e			
0	0	0	0

Sources Department for Transport (2011) Notes Emissions factors for biofuels are

Emissions factors for biofuels are based on figures from the Department for Transport (DfT). The average figures for biofuels for the period April-December 2009 are provided in the Quarterly report, April 2010 - January 2011 (published in April 2011), available on the DfT's website at:

http://www.dft.gov.uk/pgr/statistics/datatablespublications/biofuels

Detailed factors by source/supplier are provided and updated regularly in the DfT Quarterly Reports, available on the DfT's website (at link above).

¹ Emission factors for biofuels in kgCO₂e per GJ are provided on a Net CV (also known as lower heating value) basis.

² Direct emissions of CO₂ are set to 0 for biofuels, as the same amount of CO₂ is absorbed in the growth of the feedstock from which the biofuel is produced. However, RFA emission factors for biofuels do not include direct tailpipe emissions of methane (CH₄) and nitrous oxide (N₂O), which are not absorbed in the growth of the feedstock, therefore these have been added in based on conventional fuel equivalents.

³ The Total GHG emissions outside of Scope 1, 2 and 3 is the actual amount of CO₂ emitted by the biofuel when combusted. This will be equivalent to the CO₂ absorbed in the growth of the feedstock used to produce the fuel. CO₂ emission factors are based on information from the BIOMASS Energy Centre (BEC). BEC is owned and managed by the UK Forestry Commission, via Forest Research, its research agency. Data on the direct emissions of biofuels is available at: http://www.biomassenergvcentre.org.uk/portal/bage? pageid=75,163182& dad=portal& schema=PORTAL

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Table 9c

				Scope 1	Scope 3	All Scopes
Life-Cycle Conversion Factors for biomass and biogas				Total Direct GHG ⁵	Total Indirect GHG	Grand Total GHG
Fuel used	Total units used	Units ³	x	kg CO ₂ e per unit	kg CO ₂ e per unit	kg CO ₂ e per unit
Wood Logs ¹		tonnes	х	-	77.38	77.38
		kWh of fuel	х	-	0.01895	0.02
Nood Chips 1		tonnes	х	-	61.41	61.41
		kWh of fuel	х	-	0.01579	0.02
Wood Pellets 1		tonnes	х	-	183.93	183.93
		kWh of fuel	х	-	0.03895	0.04
Grasses/Straw ²		tonnes	х	-	41.08	41.08
		kWh of fuel	х	-	0.01020	0.01
Biogas ²		tonnes	х	-	0.00	0.00
		kWh of fuel	х	-	0.00000	0.00
Total						

Outside of Scopes ⁴ Total Direct GHG
kg CO ₂ e per unit
1435.29
0.35150
1372.00
0.35400
1649.00
0.34900
1406.50
0.34800
2040.00
0.24600

Scope 1	Scope 3	All Scopes	Outside of Scopes ⁴
Total Direct GHG 5	Total Indirect GHG	Grand Total GHG	Total Direct GHG
Total kg CO ₂ e			
0	0	0	0

Sources BIOMASS Energy Centre (BEC), 2010 BRE, 2009

Notes

² The figure for grasses/straw and biogas (= 60% CH₄, 40% CO₂) is based on the figure from the BIOMASS Energy Centre (BEC). BEC is owned and managed by the UK Forestry Commission, via Forest Research, its research agency. Fuel property data on a range of other wood and other heating fuels is available at: http://www.biomassenergycentre.org.uk/portal/page?_pageid=75.20041& dad=portal& schema=PORTAL and http://www.biomassenergycentre.org.uk/portal/page?_pageid=75.163182& dad=portal& schema=PORTAL

Biogas is a mixture of methane (CH₄) and carbon dioxide (CO₂) produced by anaerobic digestion, with small amounts of other gases. Biogas is effectively the same as landfill gas, which is produced by the anaerobic decomposition of organic material in landfill sites.

³ Emission factors for biomass in kgCO₂e per kWh are provided on a Net CV (also known as lower heating value) basis.

⁴ The Total GHG emissions outside of Scope 1, 2 and 3 is the actual amount of CO₂ emitted by the biomass when combusted. This will be equivalent to the CO₂ absorbed in the growth of the biomass. CO₂ emission factors are based on information from the BIOMASS Energy Centre (BEC). BEC is owned and managed by the UK Forestry Commission, via Forest Research, its research agency. Data on the direct emissions of biomass and biogas is available at: http://www.biomassenergycentre.org.uk/pontal/page² pageid=75,163182& dad=pontal&_schema=PORTAL

⁵ Direct emissions of CO₂ are set to 0 for biomass and biogas, as the same amount of CO₂ is absorbed in the growth of the biomass from which they are produced /resulting. Direct emissions of methane (CH₄) and nitrous oxide (N₂O), which are not absorbed in the biomass growth phase are not currently available.

¹ Wood pellets, chips, logs and grasses/straw may be used in biomass heating systems.

Annex 9 - Other UK Conversion Factor Tables Last updated: Aug-11

Table 9d

Life-Cycle Conversion Factors for Waste Disposal		_			ope 3			
Waste fraction	Production Emissions	Net kg CO ₂ e e	emitted per t	onne of waste	treated / disposed	d of (including avo	ided impacts) b	y method ¹ :
	(avoidance excl	(Preparation for)	Re	cycling	Energy F	Recovery		
	disposal), kg CO ₂ e ²	Re-use, kg	Open	Closed		Anaerobic		
	disposal), kg CO ₂ e	CO ₂ e	Loop ^{3, 6}	Loop ³	Combustion	Digestion (AD)	Composting	Landfill
Aggregates (Rubble)	8		No Data	-4		Digootion (712)	composing	0
Batteries (Post Consumer Non Automotive)	No Data		No Data		No Data			75
Books	955		No Data	-157	-529		57	580
Glass	895	No Data	-197	-366	26			26
Metal: Aluminium cans and foil (excl forming)	9.844			-9.245	31			21
Metal: Mixed Cans	4,778			-3,889	31			21
Metal: Scrap Metal	3.169			-2.241	29			20
Metal: Steel Cans	2,708			-1,702	31			21
Aineral Oil	1,401			-725	-1,195			0
Aixed commercial and industrial waste	1,613			-1,082	-347	-50	-30	199
/lixed municipal waste	2.053		257	-1.679	-37	-50	-15	290
Drganic Waste: Food and Drink Waste	3,590				-89	-162	-39	450
Drganic Waste: Garden Waste					-63	-119	-42	213
Drganic Waste: Mixed Food and Garden Waste					-67	-126	-42	254
Paper and board: Board (Av. board: 78% corrugate, 22% cartonboard)	1.038		No Data	-240	-529		57	580
Paper and board: Mixed (assumed 25% paper, 75% board)	1.017		No Data	-219	-529		57	580
Paper and board: Paper	955		No Data	-157	-529		57	580
Plasterboard	120			-67				72
Plastics: Average plastics	3.179		-282	-1.171	1.197			34
Plastics: Average plastic film (incl bags)	2.591		-447	-1.042	1.057			34
Plastics: Average plastic rigid (incl bottles)	3.281		-230	-1.170	1,057			34
Plastics: HDPE (incl forming)	2,789		-433	-1,127	1,057			34
Plastics: LDPE and LLDPE (incl forming)	2,612		-458	-1,064	1,057			34
Plastics: PET (incl forming)	4.368		-187	-1.671	1,833			34
Plastics: PP (incl forming)	3.254		12	-914	1.357			34
Plastics: PS (incl forming)	4,548		368	-1.205	1.067			34
Plastics: PVC (incl forming)	3,136		14	-854	1.833			34
Silt / Soil	4		16		35			20
Fextiles 5	22,310	-13,769		-13,769	600			300
l'exiles	3.410	-2.900	23	0				
VEEE - Fridges and Freezers	3.814	No Data	-656					17
NEEE - Large	537	No Data	-1.249		No Data			17
VEEE - Mixed	1.149	No Data	-1.357		No Data			17
VEEE - Small	1.761	No Data	-1.465		No Data			17
Nood	666	-599	No Data	-523	-817		285	792

Additional information:										
	Net Benefit of	Recycling								
Net Benefit of	Recycling	Open Loop								
Recycling	Versus Landfill.	(excl. avoided								
Versus Landfill	Alternative	impacts)6								
-4	Villemative	4								
-487		No Data								
-736		No Data								
-392 (Col'r Sep'd)	-223 (Mix'd Col's)									
-9,267										
-3,911										
-2,261										
-1,723										
-725										
-1,281										
-1,969		257								
-489 (Compost)	-612 (AD)									
-255 (Compost)	-331 (AD)									
-296 (Compost)	-380 (AD)									
-820		798								
-799		798								
-736		798								
-139										
-1,205		714								
-1,076		620								
-1,204		620								
-1,161		620								
-1,098		620								
-1,705		620								
-948		620								
-1,240		1,957								
-888		620								
-24		16								
-14,069										
		31								
-656		3,142								
-1,266		-712								
-1,374		-209								
-1,482 -1,224		295 285								
-1,224		285								

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Waste fraction				Tonnes of was	te treated /dispose	d of by method '	1.		Total Net kg
	Total Tonnes of	(Preparation for)	Re	cycling	Energy Re	ecoverv			CO ₂ e
	waste PRODUCED	Re-use, kg	Open	[Combustion (incl	Anaerobic			emissions by
		CO ₂ e	Loop ^{3, 6}	Closed Loop ³	avoided impacts)	Digestion	Composting	Landfill	waste fraction
Aggregates (Rubble)									0
Batteries (Post Consumer Non Automotive)									0
Books									0
Glass									0
Metal: Aluminium cans and foil (excl forming)									0
Metal: Mixed Cans									0
Metal: Scrap Metal									0
Metal: Steel Cans									0
Mineral Oil									0
Mixed commercial and industrial waste									0
Mixed municipal waste									0
Organic Waste: Food and Drink Waste									0
Organic Waste: Garden Waste									0
Organic Waste: Mixed Food and Garden Waste									0
Paper and board: Board (Av. board: 78% corrugate, 22% cartonboard)									0
Paper and board: Mixed (assumed 25% paper, 75% board)									0
Paper and board: Paper									0
Plasterboard									0
Plastics: Average plastics									0
Plastics: Average plastic film (incl bags)									0
Plastics: Average plastic rigid (incl bottles)									0
Plastics: HDPE (incl forming)									0
Plastics: LDPE and LLDPE (incl forming)									0
Plastics: PET (incl forming)									0
Plastics: PP (incl forming)									0
Plastics: PS (incl forming)									0
Plastics: PVC (incl forming)									0
Silt / Soil									0
Textiles 5									0
Tyres									0
WEEE - Fridges and Freezers									0
WEEE - Large									0
WEEE - Mixed									0
WEEE - Small									0
Wood									0
Total Net kgCO ₂ e emissions by category	0	0	0	0	0	0	0	0	
Grand Total Net kgCO ₂ e emissions									0

Key	
HDPE	High-density polyethylene
LDPE	Low-density polyethylene
LLDPE	Linear Low-density polyethylene
PET	Polyethylene terephthalate
PP	Polypropylene
PS	Polystyrene
PVC	Polyvinyl Chloride
WEEE	Waste Electrical and Electronic
	Equipment

Sources The life-cycle conversion factors for waste disposal were collated and developed by WRAP (2011)

More information on WRAP can be found at: <u>http://www.wrap.org.uk/</u> Notes The data summarised in the table covers the life cycle stages highligh

The data summarised in the table covers the life cycle stages highlighted below. It excludes use of the product as this will be variable. For example, plastic may be used as automotive parts or as drinks packaging amongst other things. If it is used as drinks packaging it will require filling. As it is not known what the final use of the material is, this section of the life cycle is excluded for all materials. For some products forming is also excluded. Metals may be made into various products by different methods, excluded from these figures.

There have been significant changes to the methodologies and assumptions used in deriving the emission factors between the previous (2010) and the current (2011) update. As a result, some of the factors have changed significantly. Further more detailed information will be provided in the methodology paper for the 2011 update to be made available from Defra's website at: http://www.fer.avov.ub/environment/coromy/business-efficiency/reporting

There are essentially zero Scope 1 emissions for waste.

¹ Impact of other treatments can be found in: http://www.defra.gov.uk/publications/files/pb13548-economic-principles-wr110613.pdf

² Savings from embodied fossil energy resulting from avoiding waste are the negative of these figures.

³ Open loop recycling is the process of recycling material into other products. Closed loop recycling is the process of recycling material back into the same product.

⁴ On average in the UK 88% of non-recycled waste goes to landfill and 12% goes to energy recovery (combustion).

⁵ The waste production figure for textiles currently does not account for the split of material types on the UK market. Improvements will be made to this figure in future updates. Benefit of recycling and reuse is based on 60% reused, 30% recycled (replacing paper towels), 10% landfill. Of the items reused, 80% are assumed to avoid new items.

⁶ For Open Loop Recycling, any calculation of impact should include the avoided raw material (e.g. if glass is used in aggregate, the impact is the open loop recycling emissions, minus the production of aggregates and any avoided waste management emissions). The figures presented in the main table include estimates resulting from avoided raw material based on the typical/average expected situation for different waste fractions.

The figures presented separately (under 'Additional Information') for Open Loop Recycling excluding avoided impacts have been provided for to facilitate more precise bespoke calculations (not included in these Annexes) consistent with PAS 2050 if this is required, as opposed to the default assumptions.

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Further additional information on Life Cycle Conversion Factors for Waste Disposal:

Table 9d provides emissions factors for reporting on emissions from waste disposal. These emissions would fall into the Scope 3 emissions of a reporting company. As with all Scope 3 emissions, these are life-cycle emissions factors and therefore cannot be directly compared to Scope1 or 2 /direct emissions factors in other annexes. These figures are estimates to be used in the absence of data specific to your goods and services. If you have more accurate information for your products, then please refer to the more accurate data for reporting your emissions.

The table is split into two halves. The top half contains all the emissions factors which are used to calculate the emissions which are calculated in the bottom half of the table. The (yellow) box in the bottom right corner gives the total net CO₂ emissions which can be reported in your GHG emissions report.

It is essential that, where possible, data is used to cover both the production of the materials used by an organisation, and the waste generated by an organisation. See diagram below for the life cycle stages covered.

The first column of figures include emissions related to the materials purchased by an organisation that are subsequently transferred to the waste stream for treatment or disposal. This includes the emissions from the following life cycle stages: extraction, primary processing, manufacturing and transportation. It excludes the use phase. The first column (yellow) will automatically total the tonnes of material sent through for waste treatment or disposal and is used to calculate the emissions associated with the production of the original materials. The rest of the blue columns deal with the emissions from different waste disposal routes. Enter the tonnes of waste sent to each waste disposal stream in the relevant blue boxes. The totals are calculated in the yellow boxes.

By quantifying both material use and emissions from waste management, the benefits of waste prevention and more effective management may be estimated. If only waste management emissions are calculated, the benefit of waste prevention will not be adequately covered.

Some of the figures in table 9d are negative numbers. This is because the recycling or energy recovery process avoids the production of primary materials and combustion of fossil fuels. The figures do not include avoided emissions from alternative waste management.

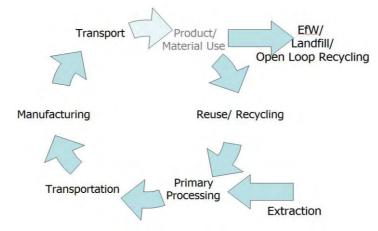
These figures should be used for site based reporting only. They should not be added together along a supply chain, as material use would be counted several times along a supply chain.

The data provided for recycling, energy recovery and landfill are based on absolute emissions for these options. Therefore, to identify the benefit of one option versus another (e.g. recycling versus landfill), the benefit is the difference between the two columns.

For further information on the factors in table 9d, please refer to the methodology paper for the 2011 update, which will be made available from: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting

A high level overview of the life cycle of materials and products is shown in figure 1 below.

Figure 1:



Annex 10 - International Electricity Emission Factors

The factors presented in the three tables below are a timeseries of combined electricity and heat CO2 emission factors per kWh GENERATED (Table 10a, i.e. before losses in transmission/distribution), electricity and heat CO2 emission factors per kWh LOSSES in transmission/distribution (Table 10b) and per kWh CONSUMED (Table 10c, i.e. for the final consumer, including transmission/distribution losses).

How to use this Annex

To calculate emissions of carbon dioxide associated with use of overseas grid electricity:

1) Identify the amount electricity used, in units of kWh, for the relevant country.

2) Multiply this value by the conversion factor for the country or grid rolling average electricity use. You should use emission factors from Table 10c for electricity consumed from the national/local electricity grid for consistency with those provided for the UK in Annex 3.

3) Repeat the process for other countries and sum the totals.

Are the figures in this Annex comparable with those for the UK provided in Annex 3?

The two sets of data are not directly comparable as the figure in this annex include heat generated whereas the figures in Annex 3 do not.

The country I am looking for is not included, where can I find information?

We have provided emission factors for all EU member states and the major UK trading partners. Additional emission factors for other countries not included in this list can be found at the GHG Protocol website, though it should be noted the figures supplied there do not include losses from transmission and distribution of heat and electricity.

Data source

Emission factor data is from the International Energy Agency (IEA) Data Services, 2010 for "CO2 Emissions per kWh from electricity and heat generation" and mainly sourced from the GHG Protocol website, http://www.ghgprotocol.org/calculation-tools.

Data on losses in distribution of electricity and heat is calculated from 2004 - 2008 country energy balances available at the IEA website (2010).

Annex 10 Scopes & Boundaries:

Scope 2: Direct emissions of CO₂ from the combustion of fuel used in the generation of electricity and heat (data not available for other greenhouse gases). Scope 3: Indirect emissions of CO2, CH4 and N2O associated with the extraction and transport of primary fuels as well as the refining, distribution, storage and retail of finished fuels used in the generation of electricity and heat.

Direct GHG emissions given in Table 10c are a combination of (Scope 2) Direct GHG emissions from Table 10a and (Scope 3) Direct GHG emissions from Table 10b.

How were these factors calculated?

For further explanation on how these emission factors have derived, please refer to the GHG conversion factor methodology paper available here: http://www.defra.gov.uk/environment/economy/business-efficiency/reporting/

Annex 10 - International Electricity Emission Factors

| Overseas Electricity/Heat | at Conversion | Factors from 19 | 90 to 2008

 | 3: kgCO ₂ per l
 | Wh electricit

 | y and heat GENER | ATED 1
 |
 | |
 | | 2008 5-yr rolling
average: | Total Direct GHG
 | Total Indirect GHG | Grand Total GHG | % Total GWh |
|--|---|---
--
--
---|---
--
--
--|--
--
--
--
--|---|--
--|-------------------------------
--|---|--|--|
| | | |

 |
 |

 | |
 |
 | |
 | | Amount used per | kg CO ₂ per
 | kg CO ₂ e per | kg CO ₂ e per | |
| Country | 1990 | 1991 1992 | 1993

 | 1994 1
 | 995 1996

 | 1997 1998 | 1999 2000 20
 | 01 2002 2003
 | 2004 | 2005 2006
 | 2007 2008 | year, kWh | kWh Total kg CO ₂
 | kWh Total kg CO ₂ e | kWh Total kg CO ₂ e | Electricity Heat |
| European Union | | | T

 |
 |

 | - 1 |
 |
 | - r - r |
 | | | |
 | | | |
| Austria | | |

 |
 |

 | | 8 0.19289 0.17990 0.20
 |
 | |
 | | | 0.20713
 | 0.02770 | 0.23483 | 79.0% 21.0% |
| Belgium
Bulgaria | 0.34442 | |

 |
 |

 | | 7 0.27808 0.28434 0.27
0 0.44551 0.43068 0.46
 |
 | |
 | | | 0.26261
0.47264
 | 0.03512
0.06320 | 0.29773 0.53584 | 91.7% 8.3%
74.8% 25.2% |
| Cyprus | | |

 |
 |

 | | 5 0.85637 0.83763 0.77
 |
 | |
 | 0.76064 0.75866 | | 0.76764
 | 0.10265 | 0.87029 | 100.0% 0.0% |
| Czech Republic | | |

 |
 |

 | | 8 0.57878 0.59521 0.58
 |
 | 4 0.52421 | 0.52449 0.52562
 | | | 0.53500
 | 0.07154 | 0.60654 | 69.8% 30.2% |
| Denmark | 0.47714 | |

 |
 |

 | | 2 0.37102 0.34785 0.34
 |
 | 0 0.31733 |
 | | | 0.31935
 | 0.04270 | 0.36205 | 53.0% 47.0% |
| Estonia
Finland | 0.00740 | |

 |
 |

 | | 0 0.70067 0.69167 0.67
 |
 | 8 0.70144
2 0.25304 |
 | 0.74781 0.75186 0.22870 0.18712 | | 0.71249 0.22048
 | 0.09528 | 0.80777 | 59.0% 41.0% |
| Finland | | |

 |
 |

 | 5 0.26029 0.2119
8 0.07286 0.0998 |
 |
 | 0 0.07912 |
 | | | 0.22048
 | 0.02948 | 0.24996 | 61.0% 39.0%
92.5% 7.5% |
| Germany | | |

 |
 |

 | | 5 0.48882 0.49381 0.50
 |
 | 9 0.43613 |
 | | | 0.43123
 | 0.05767 | 0.48890 | 75.7% 24.3% |
| Greece | | |

 |
 |

 | 7 0.86382 0.854 |
 | 156 0.81440 0.7740
 | |
 | | | 0.75200
 | 0.10056 | 0.85256 | 99.1% 0.9% |
| Hungary | | |

 |
 |

 | 5 0.42802 0.4276 |
 | 368 0.39137 0.4246
 | |
 | 0.34577 0.33084 | | 0.35072
 | 0.04690 | 0.39762 | 68.9% 31.1% |
| Ireland | | |

 |
 |

 | | 2 0.69656 0.64210 0.66
 |
 | |
 | | | 0.53828
 | 0.07198 | 0.61026 | 100.0% 0.0% |
| Italy | 0.57455 | |

 |
 |

 | | 0 0.49439 0.49768 0.48
 |
 | |
 | | | 0.40773
 | 0.05452 | 0.46225 | 84.9% 15.1% |
| Latvia
Lithuania | - | |

 |
 |

 | | 5 0.21797 0.19963 0.18
3 0.17763 0.15956 0.14
 |
 | |
 | | | 0.16432
 | 0.02197
0.01666 | 0.18629 | 37.5% 62.5%
51.8% 48.2% |
| Luxembourg | 2,58828 | |

 |
 |

 | | 6 0.25772 0.25507 0.23
 |
 | |
 | | | 0.32606
 | 0.04360 | 0.36966 | 85.8% 14.2% |
| Malta | | 1.02049 | 9 1.38784

 | 1.16015 0.9
 | 5725 0.9733

 | 0 0.93658 0.9316 | 4 0.90346 0.81902 0.92
 | 845 0.84919 0.8402
 | 7 0.87244 | 0.91664 0.87816
 | 0.92346 0.84871 | | 0.88788
 | 0.11873 | 1.00661 | 100.0% 0.0% |
| Netherlands | | 0.57181 0.55952 | 2 0.57410

 | 0.53613 0.4
 | 6440 0.4431

 | 0 0.42814 0.4170 | 2 0.41548 0.40002 0.41
 | 404 0.40148 0.4056
 | 2 0.39551 | 0.38706 0.39432
 | | | 0.39365
 | 0.05264 | 0.44629 | 70.8% 29.2% |
| Poland | | |

 |
 |

 | | 1 0.66417 0.67076 0.65
 |
 | |
 | | | 0.66027
 | 0.08829 | 0.74856 | 63.1% 36.9% |
| Portugal | 0.51620 | 0.52043 0.6204 | 0.54407

 | 0.51950 0.5
 | 4006 0.4318

 | 4 0.46107 0.4709 | 5 0.53864 0.47952 0.44
6 0.35953 0.39551 0.41
 | 193 0.51196 0.4135
 | b 0.45204 | 0.50110 0.41811 0.40023 0.42861
 | | | 0.42786 0.42034
 | 0.05721
0.05621 | 0.48507
0.47655 | 92.8% 7.2%
64.8% 35.2% |
| Romania
Slovak Republic | 0.37559 | |

 |
 |

 | | 4 0.33953 0.39551 0.41
 |
 | |
 | | | 0.42034
 | 0.05621 | 0.47655 | 69.8% 35.2% |
| Slovak Republic | 0.57559 | |

 |
 |

 | | 9 0.34040 0.33831 0.35
 |
 | |
 | | | 0.34715
 | 0.04642 | 0.39357 | 85.3% 14.7% |
| Spain | 0.42715 | |

 |
 |

 | | 2 0.44439 0.42994 0.38
 |
 | |
 | | | 0.37206
 | 0.04975 | 0.42181 | 100.0% 0.0% |
| Sweden | 0.04827 | |

 |
 |

 | | 9 0.04894 0.04152 0.04
 |
 | |
 | | | 0.04459
 | 0.00596 | 0.05055 | 75.2% 24.8% |
| European Union - 27
SUBTOTAL | | 0.4386 | 0.41927

 | 0.41886 0.4
 | 1286 0.4059

 | 4 0.39551 0.3912 | 1 0.38190 0.38090 0.37
 | 674 0.38032 0.3738
 | 3 0.36244 | 0.35518 0.35803
 | 0.36846 0.35085 | | 0.35899
 | 0.04801 | 0.40700 | 81.2% 18.8% |
| | | |

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 |

 | |
 |
 | |
 | | | Scope 2
 | Scope 3 | All Scopes | |
| | | |

 |
 |

 | |
 |
 | |
 | | 2008 5-yr rolling |
 | | | |
| Overseas Electricity/Heat | at Conversion | 1 Factors from 19 | 90 to 2008

 | 3: kgCO ₂ per l
 | Wh electricit

 | y and heat GENER | ATED 1
 |
 | |
 | | average: | Total Direct GHG
 | Total Indirect GHG | Grand Total GHG | % Total GWh |
| | | |

 |
 |

 | |
 |
 | |
 | | Amount used per | kg CO ₂ per
 | kg CO ₂ e per | kg CO ₂ e per | |
| Country | 1990 | 1991 1992 | 1993

 | 1994 1
 | 995 1996

 | 1997 1998 | 1999 2000 20
 | 01 2002 2003
 | 2004 | 2005 2006
 | 2007 2008 | year, kWh | kWh Total kg CO ₂
 | kWh Total kg CO2e | kWh Total kg CO2e | Electricity Heat |
| Other countries | 0.04540 | 0.04004 0.00055 | 0.04045

 | 0.00400 0.0
 | 0007 0 000

 | | 3 0.86464 0.85303 0.85
 | 000 0 00075 0 0470
 | 2 0 00000 | 0.00074 0.00500
 | | | |
 | | | |
| Australia | 0.01510 | |

 |
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 | |
 |
 | |
 | | | |
 | 0.40040 | 4.04000 | 400.00/ 0.00/ |
| | | |

 |
 |

 | |
 |
 | |
 | | | 0.89875
 | 0.12018 | 1.01893 | 100.0% 0.0% |
| Brazil
Canada | 0.20345 | 0.0609 | 9 0.05541

 | 0.05117 0.0
 | 05530 0.0571

 | 1 0.06222 0.0622 | 2 0.08221 0.08761 0.10
 | 335 0.08525 0.0788
 | 6 0.08503 | 0.08395 0.08100
 | | | 0.89875
0.08232
0.19865
 | 0.12018
0.01101
0.02656 | 1.01893
0.09333
0.22521 | 100.0% 0.0% 99.7% 0.3% 98.4% 1.6% |
| Canada
China, People's Republic of | 0.20345 | 0.0609 0.19565 0.2046 0.7942 | 9 0.05541
9 0.18298
5 0.79387

 | 0.05117 0.0
0.17955 0.1
0.76781 0.8
 | 0.0571
8436 0.1782
0281 0.8205

 | 1 0.06222 0.0622
7 0.19764 0.221
6 0.80408 0.8229 | 2 0.08221 0.08761 0.10
9 0.21215 0.22195 0.23
3 0.79758 0.76464 0.73
 | 335 0.08525 0.0788
110 0.21608 0.2285
963 0.74822 0.7757
 | 6 0.08503
1 0.21387
2 0.80531 | 0.08395 0.08100
0.20018 0.20129
0.78745 0.78768
 | 0.07277 0.08885
0.19731 0.18058
0.75849 0.74484 | | 0.08232
0.19865
0.77675
 | 0.01101
0.02656
0.10387 | 0.09333
0.22521
0.88062 | 99.7% 0.3%
98.4% 1.6%
81.1% 18.9% |
| Canada
China, People's Republic of
Chinese Taipei | 0.20345
of | 0.06099
0.19565 0.20469
0.79429
0.50213 | 9 0.05541
9 0.18298
5 0.79387
3 0.52515

 | 0.05117 0.0
0.17955 0.1
0.76781 0.8
0.52356 0.5
 | 5530 0.0571
8436 0.1782
0281 0.8205
3346 0.5396

 | 1 0.06222 0.0622
7 0.19764 0.221
6 0.80408 0.8229
0 0.57041 0.5774 | 2 0.08221 0.08761 0.10 9 0.21215 0.22195 0.23 3 0.79758 0.76464 0.73 4 0.59576 0.62638 0.64
 | 335 0.08525 0.0788 110 0.21608 0.2285 963 0.74822 0.7757 095 0.63133 0.6505
 | 6 0.08503
1 0.21387
2 0.80531
3 0.64631 | 0.08395 0.08100
0.20018 0.20129
0.78745 0.78768
0.65129 0.65917
 | 0.07277 0.08885
0.19731 0.18058
0.75849 0.74484
0.65530 0.65024 | | 0.08232
0.19865
0.77675
0.65246
 | 0.01101
0.02656
0.10387
0.08725 | 0.09333
0.22521
0.88062
0.73971 | 99.7% 0.3% 98.4% 1.6% 81.1% 18.9% 100.0% 0.0% |
| Canada
China, People's Republic of
Chinese Taipei
Croatia | 0.20345
of | 0.06099
0.19565 0.20469
0.79429
0.50213
0.32410 | 9 0.05541
9 0.18298
5 0.79387
3 0.52515
8 0.32746

 | 0.05117 0.0
0.17955 0.1
0.76781 0.8
0.52356 0.5
0.24922 0.2
 | 15530 0.0571 8436 0.1782 10281 0.8205 13346 0.5396 17159 0.2527

 | 1 0.06222 0.0622
7 0.19764 0.221
6 0.80408 0.8229
0 0.57041 0.5774
3 0.29745 0.3214 | 2 0.08221 0.08761 0.10 9 0.21215 0.22195 0.23 3 0.79758 0.76464 0.73 4 0.59576 0.62638 0.644 2 0.30482 0.30327 0.31
 | 335 0.08525 0.0788 110 0.21608 0.2285 963 0.74822 0.7757 095 0.63133 0.6505 286 0.35667 0.3796
 | 6 0.08503
1 0.21387
2 0.80531
3 0.64631
7 0.30001 | 0.08395 0.08100
0.20018 0.20129
0.78745 0.78768
0.65129 0.65917
0.31398 0.32023
 | 0.07277 0.08885
0.19731 0.18058
0.75849 0.74484
0.65530 0.65024
0.38492 0.34142 | | 0.08232
0.19865
0.77675
0.65246
0.33211
 | 0.01101
0.02656
0.10387
0.08725
0.04441 | 0.09333
0.22521
0.88062
0.73971
0.37652 | 99.7% 0.3% 98.4% 1.6% 81.1% 18.9% 100.0% 0.0% 78.6% 21.4% |
| Canada
China, People's Republic of
Chinese Taipei
Croatia
Egypt | 0.20345
of | 0.06099
0.19565 0.20469
0.79429
0.50213
0.32410
0.52960 | 9 0.05541
9 0.18298
5 0.79387
3 0.52515
8 0.32746
8 0.50320

 | 0.05117 0.0
0.17955 0.1
0.76781 0.8
0.52356 0.5
0.24922 0.2
0.46648 0.4
 | 5530 0.0571
8436 0.1782
0281 0.8205
3346 0.5396
7159 0.2527
4331 0.4327

 | 1 0.06222 0.0622
7 0.19764 0.221
6 0.80408 0.8229
0 0.57041 0.5774
3 0.29745 0.3214
7 0.44226 0.4674 | 2 0.08221 0.08761 0.10 9 0.21215 0.22195 0.23 3 0.79758 0.76464 0.73 4 0.59576 0.62638 0.64 2 0.30482 0.30327 0.31 8 0.45457 0.41183 0.38
 | 335 0.08525 0.0788 110 0.21608 0.2285 963 0.74822 0.7757 095 0.63133 0.6505 286 0.35667 0.3796 101 0.43669 0.4324
 | 6 0.08503
1 0.21387
2 0.80531
3 0.64631
7 0.30001
8 0.47316 | 0.08395 0.08100 0.20018 0.20129 0.78745 0.78768 0.65129 0.65917 0.31398 0.32023 0.47403 0.47343
 | 0.07277 0.08885
0.19731 0.18058
0.75849 0.74484
0.65530 0.65024
0.38492 0.34142
0.45041 0.45976 | | 0.08232
0.19865
0.77675
0.65246
0.33211
0.46616
 | 0.01101
0.02656
0.10387
0.08725
0.04441
0.06234 | 0.09333
0.22521
0.88062
0.73971
0.37652
0.52850 | 99.7% 0.3% 98.4% 1.6% 81.1% 18.9% 100.0% 0.0% 78.6% 21.4% 100.0% 0.0% |
| Canada
China, People's Republic of
Chinese Taipei
Croatia
Egypt
Gibraltar | 0.20345 | 0.06099
0.19565 0.20469
0.79429
0.50213
0.32410
0.52960
0.77360 | 9 0.05541
9 0.18298
5 0.79387
3 0.52515
8 0.32746
8 0.50320
8 0.77337

 | 0.05117 0.0
0.17955 0.1
0.76781 0.8
0.52356 0.5
0.24922 0.2
0.46648 0.4
0.75148 0.7
 | 5530 0.0571
8436 0.1782
00281 0.8205
03346 0.5396
7159 0.2527
4331 0.4321
76592 0.7515

 | 1 0.06222 0.0622
7 0.19764 0.2211
6 0.80408 0.8229
0 0.57041 0.5774
3 0.29745 0.3214
7 0.44226 0.4674
9 0.77284 0.7659 | 2 0.08221 0.08761 0.10 9 0.21215 0.22195 0.23 3 0.79758 0.76464 0.73 4 0.59576 0.62638 0.644 2 0.30482 0.30327 0.31
 | 335 0.08525 0.0788 110 0.21608 0.2285 963 0.74822 0.7757 095 0.63133 0.6505 286 0.35667 0.3796 101 0.43669 0.4324 378 0.75998 0.7545
 | 6 0.08503
1 0.21387
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7 0.30001 | 0.08395 0.08100
0.20018 0.20129
0.78745 0.78768
0.65129 0.65917
0.31398 0.32023
0.47403 0.47343
0.76066 0.77101
 | 0.07277 0.08885
0.19731 0.18058
0.75849 0.74484
0.65530 0.65024
0.38492 0.34142
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0.19865
0.77675
0.65246
0.33211
 | 0.01101
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0.22521
0.88062
0.73971
0.37652 | 99.7% 0.3% 98.4% 1.6% 81.1% 18.9% 100.0% 0.0% 78.6% 21.4% |
| Canada
China, People's Republic of
Chinese Taipei
Croatia
Egypt
Gibraltar
Hong Kong (China)
Iceland | of | 0.06099
0.19565 0.20469
0.79422
0.50213
0.32410
0.52960
0.52960
0.777360
0.82063
0.82063
0.00049 0.00044 | 9 0.05541 9 0.18298 5 0.79387 3 0.52515 3 0.32746 3 0.50320 3 0.77337 3 0.86204 6 0.00080

 | 0.05117 0.0 0.17955 0.1 0.76781 0.8 0.52356 0.5 0.24922 0.2 0.46648 0.4 0.75148 0.7 0.86434 0.8 0.00080 0.0
 | 95530 0.0571 8436 0.1782 90281 0.8205 93346 0.5396 97159 0.2527 44331 0.4327 76592 0.7519 95526 0.8232 90162 0.0011

 | 1 0.06222 0.0622
7 0.19764 0.2211
6 0.80408 0.8229
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7 0.44226 0.4674
9 0.77284 0.7655
3 0.72359 0.7399
9 0.00109 0.0029 | 2 0.08221 0.08761 0.10 9 0.21215 0.22195 0.23 3 0.79758 0.76464 0.73 4 0.59576 0.62638 0.644 2 0.0482 0.300327 0.31 8 0.45457 0.41183 0.38 2 0.76594 0.75981 0.75 8 0.71182 0.71182 0.71 2 0.00375 0.00062 0.00
 | 335 0.08525 0.0788 110 0.21608 0.2285 963 0.74822 0.7757 995 0.63133 0.6505 026 0.35667 0.3796 101 0.43669 0.4324 378 0.7598 0.7545 996 0.72516 0.7965 0.60061 0.00061 0.00061
 | 6 0.08503
1 0.21387
2 0.80531
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7 0.30001
8 0.47316
1 0.76593
5 0.74912
2 0.00061 | 0.08395 0.08100 0.20018 0.20129 0.78745 0.78768 0.65129 0.65917 0.31398 0.32023 0.47403 0.47343 0.76066 0.77101 0.75544 0.75394 0.00061 0.00054
 | 0.07277 0.08885
0.19731 0.18058
0.75849 0.74484
0.65530 0.65024
0.38492 0.34142
0.45041 0.45976
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0.77473 0.75742
0.00137 0.00075 | | 0.08232
0.19865
0.77675
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0.33211
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0.76503
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 | 0.01101
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0.22521
0.88062
0.73971
0.37652
0.52850
0.86733
0.85950
0.00088 | 99.7% 0.3% 98.4% 1.6% 81.1% 18.9% 100.0% 0.0% 78.6% 21.4% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 79.5% 20.5% |
| Canada
China, People's Republic of
Chinese Taipei
Croatia
Egypt
Gibraltar
Hong Kong (China)
Iceland
India | of | 0.0609
0.19565 0.20468
0.79422
0.5021:
0.32411
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0.77368
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0.00049 0.00044
0.89033 | 9 0.05541 9 0.18298 5 0.79387 3 0.52515 3 0.52515 3 0.50320 3 0.77337 3 0.86204 6 0.00080 5 0.91253

 | 0.05117 0.0 0.17955 0.1 0.76781 0.8 0.52356 0.5 0.24922 0.2 0.46648 0.4 0.75148 0.7 0.86434 0.8 0.00080 0.0 0.87702 0.9
 | 0.0571 8436 0.1782 00281 0.8205 03346 0.5396 77159 0.2527 44331 0.4327 76592 0.7519 95266 0.8232 00162 0.0011 102698 0.9711

 | 1 0.06222 0.0622
7 0.19764 0.2211
6 0.80408 0.8222
0 0.57041 0.5774
7 0.44226 0.4674
9 0.77284 0.7655
3 0.72359 0.7396
9 0.00109 0.0022
6 0.94368 0.9222 | 2 0.08221 0.08761 0.10 9 0.21215 0.22195 0.23 3 0.79758 0.76464 0.73 4 0.59576 0.62638 0.64 2 0.30482 0.30327 0.31 8 0.45457 0.41183 0.38 2 0.76544 0.75981 0.75 8 0.71594 0.71182 0.711 2 0.00375 0.00062 0.00
 | 335 0.08525 0.0788 110 0.21608 0.2285 963 0.74822 0.7757 905 0.63133 0.6505 286 0.74682 0.3796 101 0.43669 0.4324 378 0.75998 0.7545 996 0.72516 0.7950 0.600 0.00061 0.0006
 | 6 0.08503
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7 0.30001
8 0.47316
1 0.76593
5 0.74912
2 0.00061
3 0.94325 | 0.08395 0.08100 0.20018 0.20129 0.78745 0.78768 0.65129 0.65917 0.31398 0.32023 0.47403 0.47343 0.76544 0.75391 0.00061 0.00054 0.03089 0.33124
 | 0.07277 0.08885
0.19731 0.18058
0.75849 0.74484
0.65530 0.65024
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0.77473 0.75742
0.00137 0.00075
0.93506 0.96823 | | 0.08232
0.19865
0.77675
0.65246
0.33211
0.46616
0.76503
0.75612
0.00078
0.94294
 | 0.01101
0.02656
0.10387
0.08725
0.04441
0.06234
0.10230
0.10138
0.00010
0.12609 | 0.09333
0.22521
0.88062
0.73971
0.37652
0.86733
0.86733
0.68350
0.00088
1.06903 | 99.7% 0.3% 98.4% 1.6% 81.1% 1.8% 100.0% 0.0% 78.6% 21.4% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% |
| Canada
China, People's Republic ol
Chinese Taipei
Croatia
Egypt
Gibraltar
Hong Kong (China)
Iceland
India
Indonesia | of | 0.0609
0.19565 0.2046
0.79422
0.50211
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0.60077 | 9 0.05541
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5 0.79387
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3 0.77337
3 0.86204
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0 0.72195

 | 0.05117 0.0 0.17955 0.1 0.76781 0.6 0.52356 0.5 0.52356 0.5 0.46648 0.4 0.75148 0.7 0.86434 0.6 0.00080 0.0 0.00080 0.0 0.867702 0.5 0.60775 0.5
 | 0.05730 0.0571 8436 0.1782 00281 0.82051 03346 0.5399 03346 0.5391 0.4321 0.4222 44331 0.4322 76592 0.7513 5526 0.8232 0.00162 0.0011 42698 0.9717 55187 0.6004

 | 1 0.06222 0.0622 7 0.19764 0.2211 6 0.80408 0.8229 0 0.57041 0.5774 3 0.29745 0.3214 7 0.44226 0.4674 9 0.72359 0.7396 9 0.0109 0.0022 6 0.94368 0.9223 5 0.63403 0.6077 | $\begin{array}{c c c c c c c c c c c c c c c c c c c $
 | 3335 0.08525 0.0788 110 0.21608 0.2285 0683 0.74822 0.7757 095 0.63133 0.6505 286 0.35667 0.3796 101 0.43669 0.4324 101 0.43669 0.4324 102 0.7516 0.7900 0.601 0.00061 0.00061 0.800 0.90401 888 0.81942 0.91942 0.91402
 | 6 0.08503
1 0.21387
2 0.80531
3 0.64631
7 0.30001
8 0.47316
1 0.76593
5 0.74912
2 0.00061
3 0.94325
4 0.69012 | 0.08395 0.08100
0.20018 0.20129
0.78745 0.78768
0.65129 0.65917
0.31398 0.32023
0.47403 0.47343
0.76066 0.77101
0.75544 0.75391
0.00051 0.00054
0.93693 0.93124
0.69410 0.70141
 | 0.07277 0.08885
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0.75849 0.7484
0.65530 0.65024
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0.77473 0.75670
0.93506 0.96823
0.74967 0.72614 | | 0.08232
0.19865
0.77875
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0.76503
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0.94294
0.71229
 | 0.01101
0.02656
0.10387
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0.04441
0.06234
0.10230
0.10138
0.00010
0.12609
0.09525 | 0.09333
0.22521
0.88062
0.37971
0.37652
0.62850
0.66733
0.65950
0.00088
1.06903
0.80754 | 99.7% 0.3% 98.4% 1.6% 81.1% 18.9% 100.0% 0.0% 78.6% 21.4% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% |
| Canada
China, People's Republic of
Chinese Taipei
Croatia
Egypt
Gibraltar
Hong Kong (China)
loeland
India
Indonesia
Israel | 0.00052 | 0.0609
0.19565 0.20468
0.79422
0.5021
0.32411
0.5296
0.77368
0.8206
0.00049 0.00044
0.88003
0.6007
0.7907 | 0.05541 0.18298 0.79387 0.52515 0.32746 0.50320 0.77337 0.86204 0.91253 0.72195 0.80623

 | 0.05117 0.0
0.17955 0.1
0.76781 0.8
0.52356 0.1
0.24922 0.2
0.46648 0.4
0.04648 0.4
0.00080 0.0
0.00080 0.0
0.00075 0.5
0.080725 0.5
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0.38871
0.85871
0.85850
0.64728
0.96014
0.03282
0.60080
0.511186
0.33442
0.62747
0.671269 | 99.7% 0.3% 98.4% 1.6% 81.1% 1.8% 81.1% 1.8% 81.1% 0.0% 78.6% 21.4% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 99.4% 0.6% 99.1% 0.0% 9100.0% 0.0% 9100.0% 0.0% 917.2% 2.8% 100.0% 0.0% 91.1% 0.0% 91.1% 0.0% 91.1% 0.0% 91.1% 0.0% 91.1% 0.0% 91.1% 0.0% 91.1% 0.0% 91.1% 0.0% 91.1% 0.0% 91.1% 0.0% 91.1% 0.0% 91.1%
 0 |

Source Notes

Emission factor data is from the International Energy Agency (IEA) Data Services (2010) for the table "CO₂ Emissions per kWh from electricity and heat generation", from "CO₂ Emissions from Fuel Combustion 2010 - Highlights" report available at http://www.iea.org/publications/free_new_Desc.aso/PUBS_ID=214.3 Data on the proportion of electricity and heat is sourced from the IEA website at: <u>http://www.iea.org/Textbase/stats/prodresult.asp?PRODUCT=Electricity/Heat</u> Data on losses in distribution of electricity and heat is calculated from country energy balances available at the IEA website at: <u>http://www.iea.org/Textbase/stats/prodresult.asp?PRODUCT=Balances</u>

Indirect (Scope 3) emission factors for different countries were estimated as being roughly a similar ratio CO2 emission factors as for the UK (which is 13.4%), in the absence of other information.

¹ Emissions factors for electricity and heat GENERATED (and supplied to the grid where relevant) - **EXCLUDES** losses from the transmission and distribution grid. If you cannot find an emission factor for a particular country, please refer to the larger list available on the GHG Protocol website at the link above.

Annex 10 - International Electricity Emission Factors Last updated: Aug-11

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 | | 2008 E vs colling | Scope 2 | Scope 3 | All Scopes
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Overseas Electricity/Heat	t Conversion	n Factors from 19

 | 8: kgCO₂ per kWh | electricity
 | and heat LOSSES | in transmission a

 | nd distributio
 | on ² |

 | | 2008 5-yr rolling
average: | Total Direct GHG | Total Indirect GHG | Grand Total GHG
 | % Total GWh |
| | | |

 | |
 | |

 |
 | |

 | | Amount used per | kg CO ₂ per | kg CO ₂ e per | kg CO ₂ e per
 | |
| Country | 1990 | 1991 1992 | 1993

 | 1994 1995 | 1996
 | 1997 1998 | 1999 2000

 | 2001 2
 | 2002 2003 | 2004 2005

 | 2006 2007 2008 | year, kWh | kWh Total kg CO ₂ | kWh Total kg CO ₂ e | kWh Total kg CO2e
 | Electricity Heat |
| European Union
Austria | 0.01625 | 0.01672 0.0128 | 0.01296

 | 0.01275 0.0142 | 10.01522
 | 0.01512 0.01290 | 0.01282 0.01105

 | 0.01225 0.0
 | 01206 0.01545 | 0.01492 0.01440

 | 0 01260 0 01261 0 01175 | - | 0.01345 | 0.00180 | 0.01525
 | 79.0% 21.0% |
| Belgium | | |

 | 7 0.01891 0.01854 |
 | |

 |
 | |

 | 0.01369 0.01261 0.01175
0.01299 0.01234 0.01264 | | 0.01342 | 0.00179 | 0.01521
 | 91.7% 8.3% |
| Bulgaria | | |

 | 2 0.08906 0.08382 |
 | |

 |
 | | 0.09185 0.07923

 | | | 0.08212 | 0.01098 | 0.09310
 | 74.8% 25.2% |
| Cyprus | | | 0.04705

 | |
 | | 0.04865 0.04759

 |
 | 04295 0.04734 |

 | 0.04019 0.03729 0.02505 | | 0.03576 | 0.00478 | 0.04054
 | 100.0% 0.0% |
| Czech Republic | | 0.07262 0.0709 |

 | |
 | | 0.07151 0.07354

 |
 | | 0.06477 0.06641

 | 0.06215 0.06640 0.06339 | | 0.06462 | 0.00864 | 0.07326
 | 69.8% 30.2% |
| Denmark
Estonia | 0.06568 | |

 | 5 0.06516 0.05992
7 0.12182 0.13862 |
 | | 0.05106 0.04788

 |
 | | 0.04368 0.03822

 | 0.04592 0.04266 0.04456
0.11130 0.14156 0.12140 | | 0.04301
0.12729 | 0.00575
0.01702 | 0.04876
0.14431
 | 53.0% 47.0%
59.0% 41.0% |
| Finland | 0.01053 | |

 | 0.01229 0.01148 |
 | 0.01208 0.00984 | 0.00983 0.00980

 | 0.01118 0.0
 | 01171 0.01353 | 0.01174 0.00936

 | 0.01102 0.00995 0.00898 | | 0.01021 | 0.00137 | 0.01158
 | 61.0% 39.0% |
| France | 0.00737 | |

 | 3 0.00462 0.0051 |
 | | 0.00583 0.00566

 |
 | |

 | 0.00579 0.00599 0.00566 | | 0.00580 | 0.00078 | 0.00658
 | 92.5% 7.5% |
| Germany | 0.03435 | |

 | 0.03348 0.03246 |
 | | 0.03038 0.03070

 |
 | |

 | 0.02544 0.02858 0.02762 | | 0.02721 | 0.00364 | 0.03085
 | 75.7% 24.3% |
| Greece | 0.10236 | |

 | 0.09127 0.09004 |
 | | 0.08446 0.08404

 |
 | |

 | 0.06967 0.06536 0.06459 | | 0.07281 | 0.00974 | 0.08255
 | 99.1% 0.9% |
| Hungary
Ireland | 0.03493 | |

 | 0.03606 0.03600 |
 | | 0.03428 0.03336

 |
 | |

 | 0.02760 0.02783 0.02609
0.04592 0.04415 0.04097 | | 0.02827
0.04635 | 0.00378 0.00620 | 0.03205
0.05255
 | 68.9% 31.1%
100.0% 0.0% |
| Italy | 0.00534 | |

 | 2 0.03226 0.03415 |
 | |

 |
 | |

 | 0.02428 0.02341 0.02337 | | 0.02418 | 0.00820 | 0.02741
 | 84.9% 15.1% |
| Latvia | | |

 | |
 | |

 |
 | |

 | 0.02735 0.02514 0.02301 | | 0.02718 | 0.00363 | 0.03081
 | 37.5% 62.5% |
| Lithuania | | |

 | |
 | |

 |
 | |

 | 0.02168 0.01817 0.01606 | | 0.02041 | 0.00273 | 0.02314
 | 51.8% 48.2% |
| Luxembourg | 0.01773 | 0.01692 0.0170 |

 | 3 0.01551 0.00918 | 8 0.00817
 | | 0.00176 0.00175

 | 0.00164 0.0
 | 00225 0.00226 | 0.00229 0.00498

 | 0.00592 0.00585 0.00593 | | 0.00499 | 0.00067 | 0.00566
 | 85.8% 14.2% |
| Malta
Netherlands | 0.04655 | |

 | 2 0.18861 0.1556 ⁴
2 0.04242 0.03675 |
 | |

 |
 | |

 | 0.13080 0.15666 0.15206 0.02910 0.02892 0.02843 | | 0.14028 0.02967 | 0.01876 | 0.15904
0.03364
 | 100.0% 0.0%
70.8% 29.2% |
| Poland | 0.04633 | |

 | 3 0.04635 0.04850 |
 | | 0.03288 0.03166

 |
 | |

 | 0.02910 0.02892 0.02843 | | 0.02967 | 0.00397 | 0.05234
 | 63.1% 36.9% |
| Portugal | | |

 | 5 0.04396 0.04844 |
 | |

 |
 | |

 | 0.02969 0.02298 0.03066 | | 0.03267 | 0.00437 | 0.03704
 | 92.8% 7.2% |
| Romania | | |

 | 0.09348 0.0902 |
 | |

 |
 | |

 | 0.08733 0.08816 0.08505 | | 0.08507 | 0.01138 | 0.09645
 | 64.8% 35.2% |
| Slovak Republic | 0.03245 | |

 | 0.03076 0.0323 |
 | 0.03256 0.03032 | 0.02935 0.02304

 | 0.02084 0.0
 | 01856 0.02202 | 0.02074 0.02222

 | 0.02060 0.02020 0.01607 | | 0.01997 | 0.00267 | 0.02264
 | 69.8% 30.2% |
| Slovenia
Spain | 0.04457 | |

 | 0.02608 0.02639
0.04286 0.0473 |
 | |

 |
 | |

 | 0.02865 0.02977 0.02540 | | 0.02863 0.02861 | 0.00383 | 0.03246 0.03244
 | 85.3% 14.7%
100.0% 0.0% |
| Sweden | | 0.00416 0.0036 |

 | |
 | |

 |
 | | 0.003983 0.04254

 | | | 0.00319 | 0.00383 | 0.00362
 | 75.2% 24.8% |
| European Union - 27 | 0.00342 | |

 | |
 | |

 |
 | |

 | 0.02639 0.02700 0.02596 | | 0.02752 | 0.00368 | 0.03120
 | 81.2% 18.8% |
| SUBTOTAL | | |

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 | | | Scope 2 | Scope 3 | All Scopes
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 | | 2008 5-yr rolling | | |
 | |
| Overseas Electricity/Heat | t Conversion | n Factors from 19 | 90 to 2008

 | 8: kgCO ₂ per kWh | electricity
 | and heat LOSSES | in transmission a

 | nd distributio
 | on ² |

 | | average: | Total Direct GHG | Total Indirect GHG | Grand Total GHG
 | % Total GWh |
| | | |

 | |
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 | | Amount used per | kg CO ₂ per | kg CO ₂ e per | kg CO ₂ e per
 | |
| Country | 1990 | 1991 1992 | 1993

 | 1994 1995 | 1996
 | 1997 1998 | 1999 2000

 | 2001 2
 | 2002 2003 | 2004 2005

 | 2006 2007 2008 | year, kWh | kWh Total kg CO ₂ | kWh Total kg CO ₂ e | kWh Total kg CO2e
 | Electricity Heat |
| Other countries
Australia | 0.07549 | 0.07596 0.0764 | 4 0.0750

 | 0.07445 0.07400 | 0.07625
 | 0.07647 0.07006 | 0.09006 0.07900

 | 0.07060.0
 | 09500 0.09409 | 0.09222 0.07452

 | 0.08498 0.06833 0.07015 | - | 0.07624 | 0.01020 | 0.08644
 | 100.0% 0.0% |
| Brazil | 0.07548 | |

 | 3 0.00963 0.01041 |
 | |

 |
 | |

 | 0.01522 0.01323 0.01671 | | 0.01534 | 0.00205 | 0.01739
 | 99.7% 0.3% |
| Canada | 0.01480 | |

 | 1 0.01306 0.0134 |
 | |

 |
 | |

 | 0.02016 0.02169 0.01726 | | | |
 | |
| China, People's Republic of | f | | 1 0.05328

 | 3 0.05154 0.05388 | 3 0.05507
 | 0.05397 0.05524 |

 |
 | |

 | | | 0.01845 | 0.00247 | 0.02092
 | 98.4% 1.6% |
| Chinese Taipei | | |

 | |
 | |

 |
 | | 0.05405 0.05485

 | 0.05150 0.04714 0.04298 | | 0.05010 | 0.00670 | 0.02092 0.05680
 | 98.4% 1.6%
81.1% 18.9% |
| | | 0.02350 | 0.02457

 | 0.02450 0.02497 | 0.02526
 | 0.02669 0.02703 | 0.02788 0.02932

 | 0.03000 0.0
 | 02955 0.03044 | 0.05405 0.05485 0.03025 0.02960

 | 0.05150 0.04714 0.04298 0.02525 0.02955 0.02657 | | 0.05010
0.02824 | 0.00670
0.00378 | 0.02092
0.05680
0.03202
 | 98.4% 1.6%
81.1% 18.9%
100.0% 0.0% |
| Croatia | | 0.02350 | 0.02457

 | 7 0.02450 0.02497
6 0.04000 0.04359 | 7 0.02526
9 0.04056
 | 0.02669 0.02703 0.04774 0.05159 | 0.02788 0.02932 0.04893 0.04867

 | 0.03000 0.0
 | 02955 0.03044
05725 0.06094 | 0.05405 0.05485
0.03025 0.02960
0.04815 0.04687

 | 0.05150 0.04714 0.04298
0.02525 0.02955 0.02657
0.04196 0.05380 0.03894 | | 0.05010
0.02824
0.04594 | 0.00670
0.00378
0.00614 | 0.02092
0.05680
0.03202
0.05208
 | 98.4% 1.6% 81.1% 18.9% 100.0% 0.0% 78.6% 21.4% |
| Egypt | | 0.02350
0.0520
0.07660 | 0 0.02457
4 0.05256
6 0.07283

 | 7 0.02450 0.02497
5 0.04000 0.04359
3 0.06752 0.06416 | 7 0.02526
9 0.04056
6 0.06263
 | 0.02669 0.02703
0.04774 0.05159
0.06401 0.06766 | 0.02788 0.02932
0.04893 0.04867
0.06579 0.05960

 | 0.03000 0.0
0.05021 0.0
0.05514 0.0
 | 02955 0.03044
05725 0.06094
06320 0.06260 | 0.05405 0.05485 0.03025 0.02960 0.04815 0.04687 0.06848 0.09310

 | 0.05150 0.04714 0.04298
0.02525 0.02955 0.02657
0.04196 0.05380 0.03894
0.06051 0.05811 0.05736 | | 0.05010
0.02824
0.04594
0.06751 | 0.00670
0.00378
0.00614
0.00903 | 0.02092
0.05680
0.03202
0.05208
0.07654
 | 98.4% 1.6% 81.1% 18.9% 100.0% 0.0% 78.6% 21.4% 100.0% 0.0% |
| | | 0.02350
0.0520
0.07660
0.0000 | 0 0.02457
4 0.05256
6 0.07283
0 0.00000

 | 7 0.02450 0.02493
6 0.04000 0.04355
8 0.06752 0.06416
0 0.00000 0.00000 | 7 0.02526
9 0.04056
6 0.06263
0 0.00000
 | 0.02669 0.02703
0.04774 0.05159
0.06401 0.06766
0.00000 0.00000 | 0.02788 0.02932
0.04893 0.04867
0.06579 0.05960
0.00000 0.00000

 | 0.03000 0.0 0.05021 0.0 0.05514 0.0 0.00000 0.0
 | 02955 0.03044
05725 0.06094
06320 0.06260
00000 0.00000 | 0.05405 0.05485 0.03025 0.02960 0.04815 0.04687 0.06848 0.09310

 | 0.05150 0.04714 0.04298 0.02525 0.02955 0.02657 0.04196 0.05380 0.03894 0.06051 0.05811 0.05736 0.00000 0.00000 0.00000 | | 0.05010
0.02824
0.04594 | 0.00670
0.00378
0.00614 | 0.02092
0.05680
0.03202
0.05208
 | 98.4% 1.6% 81.1% 18.9% 100.0% 0.0% 78.6% 21.4% |
| Egypt
Gibraltar
Hong Kong (China)
Iceland | 0.00004 | 0.02350
0.0520
0.07660
0.00000
0.09743
0.00003 0.00003 | 0 0.02457
4 0.05256
6 0.07283
0 0.00000
3 0.10234
3 0.00006

 | 7 0.02450 0.02497 6 0.04000 0.04359 8 0.06752 0.06416 0 0.00000 0.00000 4 0.10261 0.10154 6 0.00006 0.00012 | 7 0.02526
9 0.04056
6 0.06263
0 0.00000
4 0.09774
2 0.00008
 | 0.02669 0.02703
0.04774 0.05159
0.06401 0.06766
0.00000 0.00000
0.08590 0.08781
0.00008 0.00020 | 0.02788 0.02932
0.04893 0.04867
0.06579 0.05960
0.00000 0.00000
0.08499 0.08451
0.00026 0.00005

 | 0.03000 0.0 0.05021 0.0 0.05514 0.0 0.00000 0.0
0.08548 0.0 0.00005 0.0 | 02955 0.03044 05725 0.06094 06320 0.06260 00000 0.00000 08609 0.09439 00004 0.00004 | 0.05405 0.05485 0.03025 0.02960 0.04815 0.04687 0.06848 0.09310 0.00000 0.00000 0.8893 0.09257 0.00004 0.00004

 | 0.05150 0.04714 0.04298 0.02525 0.02955 0.02657 0.04196 0.05380 0.03894 0.06051 0.05811 0.05706 0.00000 0.00000 0.00000 0.08687 0.05818 0.08833 0.00003 0.00010 0.00003 | | 0.05010
0.02824
0.04594
0.06751
0.00000
0.09050
0.00005 | 0.00670
0.00378
0.00614
0.00903
0.00000
0.01210
0.00001 | 0.02092
0.05680
0.03202
0.05208
0.07654
0.00000
0.10260
0.00006
 | 98.4% 1.6% 81.1% 18.9% 100.0% 0.0% 78.6% 21.4% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 79.5% 20.5% |
| Egypt
Gibraltar
Hong Kong (China)
Iceland
India | 0.00004 | 0.02350
0.05200
0.07660
0.00000
0.09743
0.00003 0.00003
0.35110 | 0 0.02457
4 0.05256
6 0.07283
0 0.00000
3 0.10234
3 0.00006
8 0.35993

 | 7 0.02450 0.02497 3 0.04000 0.04359 3 0.06752 0.06416 0 0.00000 0.00000 4 0.10261 0.10154 5 0.00006 0.00011 3 0.34593 0.36563 | 7 0.02526
9 0.04056
6 0.06263
0 0.00000
4 0.09774
2 0.00008
3 0.38329
 | 0.02669 0.02703
0.04774 0.05159
0.06401 0.06766
0.00000 0.00000
0.08590 0.08781
0.00008 0.00020
0.37221 0.36377 | 0.02788 0.02932
0.04893 0.04867
0.06579 0.05960
0.00000 0.00000
0.08499 0.08451
0.00026 0.00005
0.36287 0.37049

 | 0.03000 0.0 0.05021 0.0 0.05514 0.0 0.00000 0.0
0.08548 0.0 0.00005 0.0 0.036872 0.3 | 02955 0.03044 05725 0.06094 06320 0.06260 00000 0.00000 08609 0.09439 00004 0.00004 36281 0.35658 | 0.05405 0.05485
0.03025 0.02960
0.04815 0.04687
0.06848 0.09310
0.00000 0.00000
0.08893 0.09257
0.00004 0.00004
0.37205 0.34268

 | 0.05150 0.04714 0.04298 0.02525 0.02955 0.02657 0.04196 0.05380 0.03894 0.06051 0.05811 0.05736 0.00000 0.00000 0.00000 0.08687 0.99518 0.08833 0.00003 0.00010 0.00003 0.00003 0.00010 0.00003 | | 0.05010
0.02824
0.04594
0.06751
0.00000
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0.00005
0.33075 | 0.00670
0.00378
0.00614
0.00903
0.00900
0.01210
0.00001
0.04423 | 0.02092
0.05680
0.03202
0.05208
0.07654
0.00000
0.10280
0.00006
0.37498
 | 98.4% 1.6% 81.1% 18.9% 100.0% 0.0% 78.6% 21.4% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% |
| Egypt
Gibraltar
Hong Kong (China)
Iceland
India
Indonesia | 0.00004 | 0.02350
0.0520-
0.07660
0.00000
0.09743
0.00003
0.00003
0.00003
0.05413 | 0 0.02457
4 0.05256
6 0.07283
0 0.00000
3 0.10234
3 0.00006
8 0.35993
5 0.10268

 | 7 0.02450 0.02490 6 0.04000 0.04359 3 0.06752 0.06410 1 0.00000 0.00000 4 0.10261 0.11154 5 0.00006 0.000112 3 0.34593 0.38656 0 0.08645 0.07856 | 7 0.02526
9 0.04056
6 0.06263
0 0.00000
4 0.09774
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Source

Emission factor data is from the International Energy Agency (IEA) Data Services (2010) for the table "CO₂ Emissions per kWh from electricity and heat generation", from "CO₂ Emissions from Fuel Combustion 2010 - Highlights" report available at http://www.iea.org/publications/free_new_Desc.asg/PUBS_ID=2143 Data on the proportion of electricity and heat is sourced from the IEA website at: http://www.iea.org/Textbase/stats/prodresult.asp?PRODUCT=Electricity/Heat Data on losses in distribution of electricity and heat is calculated from country energy balances available at the IEA website at: http://www.iea.org/Textbase/stats/prodresult.asp?PRODUCT=Balances

Notes

Indirect (Scope 3) emission factors for different countries were estimated as being roughly a similar ratio CO2 emission factors as for the UK (which is 13.4%), in the absence of other information.

² Emissions factors for electricity and heat LOSSES from the transmission and distribution grid. If you cannot find an emission factor for a particular country, please refro the larger ist available on the GHG Protocol website at the link above. Emission factors per KNh energy consumed are calculated using % distribution losses for the 5-year average, 2004-2008.

Table 10c



Annex 10 - International Electricity Emission Factors

Last updated:	Aug-11
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| Overseas Electricity/Heat | Conversion | Tactors | 101111330102000 | KgCC ₂
 | | accurrency and

 | | JONILD |

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 | | |
 | |
 | | Amount used per | kg CO ₂ per | rect GHG | kg CO ₂ e per
 | direct GHG | kg CO ₂ e per | Total GHG | % Total GWh | |
|--|---|--|--
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---|-------------------|---|--------------------------|---|----------------------------
---|----------------------------|--|---|
| Country | 1990 | 1991 | 1992 1993 | 1994
 | 1995 | 1996 19

 | 97 19 | 98 19 | 99 2000

 | 2001
 | 2002 | 2003 | 2004
 | 2005 20 | 006 2007
 | 2008 | year, kWh | kWh | Total kg CO ₂ | kWh
 | Total kg CO ₂ e | kWh | Total kg CO ₂ e | Electricity Heat | t |
| European Union
Austria | 0.26080 | 0.26957 | 0.22251 0.20638 | 0.22060
 | 0.22912 | 0.24444.0.2

 | 1256 0.22 | 128 0.20 | 571 0 1010

 | 0 21446
 | 0.20070 | 0.24796 (| 0.22702
 | 0.22277 0.2 | 2951 0 20922
 | 0.10451 | | 0.22059 | | 0.02950
 | | 0.25009 | | 79.0% 21.0% | / |
| Belgium | 0.36232 | 0.35879 | 0.34720 0.36160 | 0.38276
 | 0.22612 | 0.35573 0.3

 | 2619 0.33 | 3134 0.29 | 253 0.299

 | 12 0.28561
 | 0.28010 | 0.24786 (| 0.23792
 | | 7277 0.26517
 | | | 0.27603 | | 0.03691
 | | 0.31294 | | 91.7% 8.3% | |
| Bulgaria | | | 0.56845 0.57620 | 0.54525
 | 0.51313 | 0.49978 0.5

 | 6749 0.57 | 431 0.53 | 249 0.514

 | 76 0.55527
 | 0.51735 | 0.56206 | 0.56232
 | | 1363 0.60424
 | | | 0.55476 | | 0.07418
 | | 0.62894 | | 74.8% 25.2% | |
| Cyprus | | | 0.87435 0.87515 | 0.87913
 | 0.86897 | 0.88002 0.8

 | 8911 0.89 | 9116 0.90 | 0502 0.8852

 | 22 0.82160
 | 0.79900 | 0.88064 | 0.81631
 | 0.82074 0.7 | 9831 0.79793
 | 0.78371 | | 0.80340 | | 0.10743
 | | 0.91083 | | 100.0% 0.0% | 5 |
| Czech Republic | 0.66963 | | 0.64470 0.65899 |
 | | 0.65523 0.6

 | | | 029 0.668

 |
 | | 0.58789 (| 0.58898
 | | 8777 0.62319
 | | | 0.59962 | | 0.08018
 | | 0.67980 | | 69.8% 30.2% | |
| Denmark | 0.54282 | 0.57665 | 0.53741 0.52360 |
 | | 0.53702 0.4

 | | | 208 0.395

 |
 | | | 0.36101
 | | 9845 0.36914
 | | | 0.36236 | | 0.04846
 | | 0.41082 | | 53.0% 47.0% | |
| Estonia
Finland | 0.23763 | 0.24204 | 0.74593 0.71806 0.21459 0.24012 |
 | | 0.81300 0.7

 | | | 361 0.832

 |
 | 0.79675 | 0.86289 0 | 0.84454
 | | 6311 0.88937
5165 0.23865
 | 0.87326 | | 0.83978 0.23069 | | 0.11230 0.03085
 | | 0.95208
0.26154 | | 59.0% 41.0%
61.0% 39.0% | |
| France | 0.11653 | | 0.10471 0.07255 |
 | |

 | | | 232 0.0896

 |
 | | | 0.08446
 | | 9238 0.09597
 | | | 0.09212 | | 0.01232
 | | 0.10444 | | 92.5% 7.5% | |
| Germany | 0.58700 | | 0.57981 0.57249 |
 | | 0.55696 0.5

 | | | 920 0.524

 |
 | | | 0.46324
 | | 2907 0.49835
 | | | 0.45843 | | 0.06130
 | | 0.51973 | | 75.7% 24.3% | |
| Greece | 1.09259 | 1.03726 | 1.05648 1.02889 | 0.97425
 | 0.96114 | 0.91245 0.9

 | 5311 0.94 | 1247 0.90 | 0.8970

 | 06 0.91751
 | 0.89858 | 0.85401 (| 0.85669
 | 0.85985 0.7 | 9695 0.81474
 | 0.79581 | | 0.82481 | | 0.11030
 | | 0.93511 | | 99.1% 0.9% | 5 |
| Hungary | 0.45461 | | 0.46826 0.46863 |
 | | 0.45935 0.4

 | | | 613 0.4340

 |
 | | | 0.42509
 | | 7152 0.37360
 | | | 0.37899 | | 0.05068
 | | 0.42967 | | 68.9% 31.1% | |
| Ireland | | | 0.81412 0.79770 |
 | |

 | | |

 |
 | | | 0.62493
 | | 9135 0.54791
 | | | 0.58463 | | 0.07818
 | | 0.66281 | | 100.0% 0.0% | |
| Italy | 0.61053 | 0.58252 | 0.56861 0.55694 |
 | | 0.55680 0.5

 | | |

 |
 | | |
 | | 4781 0.41118
 | | | 0.43191 | | 0.05776
 | | 0.48967 | | 84.9% 15.1% | |
| Latvia | | + | 0.33385 0.32493 |
 | | 0.31204 0.2

 | | |

 |
 | | |
 | | 9466 0.18919
 | | | 0.19150 | | 0.02561
 | | 0.21711 | | 37.5% 62.5% | |
| Lithuania
Luxembourg | 2 60604 | 2 48702 | 0.22111 0.22101 2.50033 2.48092 |
 | | 0.20600 0.2

 | 1548 0.25 | 3056 0.25 | 196 0.1904
948 0.2568

 | 41 U.1/540
 | 0.33102 | 0.13557 (| 0.13569
 | | 5958 0.13917
3197 0.33374
 | | | 0.14503 | | 0.01939
0.04427
 | | 0.16442 0.37532 | | 51.8% 48.2%
85.8% 14.2% | 10
X |
| Malta | 2.00001 | 2.40/03 | 1.18639 1.61346 |
 | |

 | | | 948 0.2560
033 0.952

 |
 | | 0.97687 1 |
 | | 0896 1.08012
 | | | 1.02816 | | 0.13749
 | | 1.16565 | | 100.0% 0.0% | |
| Netherlands | 0.63490 | 0.61706 | 0.60379 0.61952 |
 | | 0.47816 0.4

 | | 5002 0.44 | 836 0.4310

 | 68 0.44680
 | 0.43325 | 0.43771 (|
 | | 2342 0.42819
 | | | 0.42332 | | 0.05661
 | | 0.47993 | | 70.8% 29.2% | |
| Poland | 0.68691 | | 0.68328 0.68230 |
 | |

 | | |

 |
 | | | 0.71226
 | | 0371 0.71524
 | | | 0.70644 | | 0.09447
 | | 0.80091 | | 63.1% 36.9% | |
| Portugal | 0.55988 | 0.56447 | 0.67298 0.59012 |
 | | 0.46838 0.5

 | 0009 0.51 | 0.58 | 422 0.520

 | 10 0.47933
 | 0.55529 | | 0.49030
 | | 4780 0.40750
 | | | 0.46054 | | 0.06158
 | | 0.52212 | | 92.8% 7.2% | 5][|
| Romania | | 1 | 0.49326 0.46289 |
 | | 0.53498 0.4

 | | |

 |
 | | | 0.50386
 | | 1594 0.52628
 | | | 0.50541 | | 0.06758
 | | 0.57299 | | 64.8% 35.2% | |
| Slovak Republic | 0.40804 | 0.41923 | 0.38862 0.44515 |
 | 0.40703 |

 | | | 911 0.289

 |
 | | 0.27680 | 0.26076
 | | 4401 0.24949
 | | | 0.24774 | | 0.03313
 | | 0.28087 | | 69.8% 30.2% | 6 |
| Slovenia | 0.47.77 | 0.105- | 0.37351 0.38766 |
 | 0.35436 | 0.33688 0.3

 | | |

 | 54 0.38193
 | | 0.39661 | 0.36815
 | | 8361 0.39641
 | | | 0.37578 | | 0.05025
 | | 0.42603 | | 85.3% 14.7% | |
| Spain
Sweden | | | 0.52385 0.45924 0.05573 |
 | |

 | | | 077 0.4748

 |
 | | | 0.42159
 | | 8887 0.40923
5132 0.04280
 | | | 0.40067 | | 0.05358
 | | 0.45425
0.05418 | | 100.0% 0.0%
75.2% 24.8% | |
| European Union - 27 | 0.00169 | 0.00280 | 0.05460 0.05573 |
 | |

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 | |
 | | | 0.04779 | | 0.00839
 | | 0.05418 | | 81.2% 18.8% | |
| SUBTOTAL | | | 10.4743410.43334 | 0.452.50
 | 10.44041 | 10.450551 0.4

 | | | 234 0.4110

 | 0010.407.50
 | 0.41124 | 0.4042110 | 0.331301
 | 0.0000010.0 | 044210.33340
 | 0.57001 | | 0.50051 | 0 | 0.03103
 | 0 | 0.43020 | 0 | 01.276 10.076 | |
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 | direct GHG | 0 | | A/ T | |
| Overseas Electricity/Heat | t Conversion | n Factors | from 1990 to 2008 | kgCO ₂
 | per kWh e | electricity and

 | heat CON | ISUMED ³ |

 |
 | | |
 | |
 | | average: | I otal Di | rect GHG | I otal In
 | airect GHG | Grand | Total GHG | % Total GWh | |
| Overseas Electricity/Heat | t Conversion | n Factors | from 1990 to 2008 | kgCO ₂
 | per kWh e | electricity and

 | heat CON | SUMED 3 |

 |
 | | |
 | |
 | | Amount used per | kg CO ₂ per | rect GHG | kg CO ₂ e per
 | | kg CO ₂ e per | l otal GHG | % Total GWh | |
| | t Conversion | 1991 | from 1990 to 2008
1992 1993 | kgCO₂
1994
 | per kWh e
1995 |

 | | 98 19 | 99 2000

 | 2001
 | 2002 | 2003 | 2004
 | 2005 20 | 006 2007
 | 2008 | | | Total kg CO2 |
 | | | Total GHG | Electricity Heat | t |
| Country
Other countries | 1990 | 1991 | 1992 1993 | 1994
 | 1995 | 1996 19

 | 97 19 | 98 19 |

 |
 | | |
 | |
 | | Amount used per | kg CO₂ per
kWh | | kg CO₂e per
kWh
 | | kg CO ₂ e per
kWh | | Electricity Heat | |
| Country
Other countries
Australia | 1990 | 1991 | 1992 1993
0.90196 0.88517 | 1994
0.87853
 | 1995
0.88486 | 1996 19
0.89967 0.9

 | 97 19
0236 0.94 | 98 19 | 470 0.9320

 | 02 0.93922
 | 1.01474 | 1.00281 (| 0.98203
 | 0.98424 1.0 | 1060 0.94464
 | 0.95346 | Amount used per | kg CO ₂ per
kWh
0.97499 | | kg CO ₂ e per
kWh
0.13038
 | | kg CO ₂ e per
kWh
1.10537 | | Electricity Heat | ż |
| Country
Other countries
Australia
Brazil | 0.89066 | 1991
0.89510 | 1992 1993 0.90196 0.88517 0.07247 0.06584 | 1994
0.87853
0.06080
 | 1995
8 0.88486
0 0.06571 | 1996 19
0.89967 0.9
0.06786 0.0

 | 197 19
0236 0.94
7393 0.07 | 98 19
1349 0.94
7393 0.09 | 470 0.9320
769 0.104

 | 02 0.93922
 | 1.01474 | 1.00281 (
0.09371 (| 0.98203
0.10104
 | 0.98424 1.0 | 1060 0.94464
9622 0.08600
 | 0.95346 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766 | | kg CO ₂ e per
kWh
0.13038
0.01306
 | | kg CO ₂ e per
kWh
1.10537
0.11072 | | Electricity Heat | 5 |
| Country
Other countries
Australia
Brazil
Canada | 0.89066 | 1991
0.89510 | 1992 1993 0.90196 0.88517 0.07247 0.06584 0.21958 0.19629 | 1994
0.87853
0.06080
0.19261
 | 1995
0.88486
0.06571
0.19777 | 1996 19
0.89967 0.9
0.06786 0.0
0.19124 0.2

 | 97 19
0236 0.94
7393 0.07
1201 0.23 | 98 19
4349 0.94
7393 0.09
3727 0.22 | 1470 0.9320
9769 0.104
1758 0.2380

 | 02 0.93922
11 0.12280
09 0.24791
 | 1.01474
0.10130
0.23179 | 1.00281 (
0.09371 (
0.24513 (| 0.98203
0.10104
0.22942
 | 0.98424 1.0
0.09947 0.0
0.21779 0.2 | 1060 0.94464
9622 0.08600
2145 0.21900
 | 0.95346
0.10556
0.19784 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766
0.21710 | | kg CO ₂ e per
kWh
0.13038
0.01306
0.02903
 | | kg CO ₂ e per
kWh
1.10537
0.11072
0.24613 | | Electricity Heat | |
| Country
Other countries
Australia
Brazil
Canada
China, People's Republic of | 0.89066 | 1991
0.89510 | 1992 1993
0.90196 0.88517
0.07247 0.06584
0.21958 0.19629
0.84756 0.84715 | 1994
0.87853
0.06080
0.19261
0.81935
 | 1995
8 0.88486
0 0.06571
0.19777
6 0.85669 | 1996 19
0.89967 0.9
0.06786 0.0
0.19124 0.2
0.87563 0.8

 | 97 19
0236 0.94
7393 0.07
1201 0.23
5805 0.87 | 98 19
1349 0.94
7393 0.09
3727 0.22
7817 0.85 | 1470 0.9320
769 0.104
758 0.2380
111 0.8159

 | 02 0.93922
11 0.12280
09 0.24791
96 0.78927
 | 1.01474
0.10130
0.23179
0.79844 | 1.00281 (
0.09371 (
0.24513 (
0.82778 (| 0.98203
0.10104
0.22942
0.85936
 | 0.98424 1.0
0.09947 0.0
0.21779 0.2
0.84230 0.8 | 1060 0.94464
9622 0.08600
2145 0.21900
3918 0.80563
 | 0.95346
0.10556
0.19784
0.78782 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766
0.21710
0.82686 | | kg CO ₂ e per
kWh
0.13038
0.01306
0.02903
0.11057
 | | kg CO ₂ e per
kWh
1.10537
0.11072
0.24613
0.93743 | | Electricity Heat
100.0% 0.0%
99.7% 0.3%
98.4% 1.6%
81.1% 18.9% | ->
->
->
-> |
| Country
Other countries
Australia
Brazil
Canada
China, People's Republic of
Chinese Taipei | 0.89066 | 1991
0.89510 | 1992 1993 0.90196 0.88517 0.07247 0.06584 0.21958 0.19629 0.84756 0.84715 0.52563 0.54972 | 1994
0.87853
0.06080
0.19261
0.81935
0.54806
 | 1995
0.88486
0.06571
0.19777
0.85669
0.55843 | 1996 19
0.89967 0.9
0.06786 0.0
0.19124 0.2
0.87563 0.8
0.56486 0.5

 | 97 19
0236 0.94
7393 0.07
1201 0.23
5805 0.87
9710 0.60 | 98 199
1349 0.94
7393 0.09
3727 0.22
7817 0.85
0447 0.62 | 1470 0.9320
1769 0.104
1758 0.2380
1111 0.8159
1364 0.655

 | 02 0.93922
11 0.12280
09 0.24791
96 0.78927
70 0.67095
 | 1.01474
0.10130
0.23179
0.79844
0.66088 | 1.00281 (
0.09371 (
0.24513 (
0.82778 (
0.68097 (| 0.98203
0.10104
0.22942
0.85936
0.67656
 | 0.98424 1.0
0.09947 0.0
0.21779 0.2
0.84230 0.8
0.68089 0.6 | 1060 0.94464
9622 0.08600
2145 0.21900
3918 0.80563
8442 0.68485
 | 0.95346
0.10556
0.19784
0.78782
0.67681 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766
0.21710
0.82686
0.68071 | | kg CO ₂ e per
kWh
0.13038
0.01306
0.02903
0.11057
0.09103
 | | kg CO ₂ e per
kWh
1.10537
0.11072
0.24613
0.93743
0.77174 | | Electricity Heat
100.0% 0.0%
99.7% 0.3%
98.4% 1.6%
81.1% 18.9%
100.0% 0.0% | ->
->
->
-> |
| Country
Other countries
Australia
Brazil
Canada
China, People's Republic of
Chinese Taipei
Croatia | 0.89066 | 1991
0.89510 | 1992 1993 0.90196 0.88517 0.07247 0.06584 0.21958 0.19629 0.84756 0.84715 0.52563 0.54972 0.37622 0.38002 | 1994
0.87853
0.06080
0.19261
0.81935
0.54806
0.28922
 | 1995
0.88486
0.006571
0.19777
6.0.85669
6.0.55843
2.0.31518 | 1996 19 0.89967 0.9 0.06786 0.0 0.19124 0.2 0.87563 0.88 0.56486 0.55 0.29329 0.3

 | 97 19
0236 0.94
7393 0.07
1201 0.23
5805 0.87
9710 0.60
4519 0.37 | 98 199
1349 0.94
7393 0.09
3727 0.22
7817 0.85
0447 0.62
7301 0.35 | 1470 0.9320
1769 0.104
1758 0.2380
1111 0.8159
1364 0.655
1375 0.3519

 | 02 0.93922
11 0.12280
09 0.24791
96 0.78927
70 0.67095
94 0.36307
 | 1.01474
0.10130
0.23179
0.79844
0.66088
0.41392 | 1.00281 (
0.09371 (
0.24513 (
0.82778 (
0.68097 (
0.44061 (| 0.98203
0.10104
0.22942
0.85936
0.67656
0.34816
 | 0.98424 1.0
0.09947 0.0
0.21779 0.2
0.84230 0.8
0.68089 0.6
0.36085 0.3 | 1060 0.94464
9622 0.08600
2145 0.21900
3918 0.80563
8442 0.68485
6219 0.43872
 | 0.95346
0.10556
0.19784
0.78782
0.67681
0.38036 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766
0.21710
0.82686
0.68071
0.37806 | | kg CO ₂ e per
kWh
0.13038
0.01306
0.02903
0.11057
0.09103
0.05056
 | | kg CO ₂ e per
kWh
1.10537
0.11072
0.24613
0.93743
0.77174
0.42862 | | Electricity Heat
100.0% 0.0%
99.7% 0.3%
98.4% 1.6%
81.1% 18.9%
100.0% 0.0%
78.6% 21.4% | -> -> -> /6 -> /6 |
| Overseas Electricity/Heat
Country
Other countries
Australia
Brazil
Canada
China, People's Republic of
Chinese Taipei
Croatia
Eqypt
Gibraltar | 0.89066 | 1991
0.89510 | 1992 1993 0.90196 0.88517 0.07247 0.06584 0.21958 0.19629 0.84756 0.84715 0.52563 0.54972 0.37622 0.38002 | 1994
0.87853
0.06080
0.19261
0.81935
0.54806
0.28922
0.53400
 | 1995
0.88486
0.0.06571
0.19777
0.85669
0.55843
0.31518
0.50747 | 1996 19 0.89967 0.9 0.06786 0.0 0.19124 0.2 0.87563 0.83 0.56486 0.55 0.29329 0.3 0.49540 0.55

 | 97 19
0236 0.94
7393 0.07
1201 0.23
5805 0.87
9710 0.60
4519 0.37
0627 0.53 | 98 199
1349 0.94
7393 0.09
3727 0.22
7817 0.85
0447 0.62
7301 0.35
3514 0.52 | 1470 0.9320
1769 0.104
1758 0.2380
1111 0.8159
1364 0.655

 | 02 0.93922
11 0.12280
09 0.24791
96 0.78927
70 0.67095
94 0.36307
43 0.43615
 | 1.01474
0.10130
0.23179
0.79844
0.66088
0.41392
0.49989 | 1.00281 (
0.09371 (
0.24513 (
0.82778 (
0.68097 (
0.44061 (
0.49508 (| 0.98203
0.10104
0.22942
0.85936
0.67656
 | 0.98424 1.0
0.09947 0.0
0.21779 0.2
0.84230 0.8
0.68089 0.6
0.36085 0.3
0.56713 0.5 | 1060 0.94464
9622 0.08600
2145 0.21900
3918 0.80563
8442 0.68485
 | 0.95346
0.10556
0.19784
0.78782
0.67681
0.38036
0.51712 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766
0.21710
0.82686
0.68071 | | kg CO ₂ e per
kWh
0.13038
0.01306
0.02903
0.11057
0.09103
 | | kg CO ₂ e per
kWh
1.10537
0.11072
0.24613
0.93743
0.77174 | | Electricity Heat
100.0% 0.0%
99.7% 0.3%
98.4% 1.6%
81.1% 18.9%
100.0% 0.0% | |
| Country
Other countries
Australia
Brazil
Canada
China, People's Republic of
Chinese Taipel
Croatia
Eqvpt
Gibraltar
Hong Kong (China) | 0.89066 | 1991
0.89510 | 1992 1993 0.90196 0.88517 0.07247 0.06584 0.21958 0.19629 0.84756 0.84715 0.52563 0.54972 0.36034 0.57603 0.77368 0.77337 | 1994
0.87853
0.06080
0.19261
0.81935
0.54806
0.28922
0.53400
 | 1995
0.88486
0.0.06571
0.19777
0.85669
0.55843
0.31518
0.50747 | 1996 19 0.89967 0.9 0.06786 0.0 0.19124 0.2 0.87563 0.83 0.56486 0.55 0.29329 0.3 0.49540 0.55

 | 197 19
0236 0.94
7393 0.07
1201 0.23
5805 0.87
0710 0.60
4519 0.37
0627 0.53
7284 0.76 | 98 199
1349 0.94
7393 0.09
3727 0.22
7817 0.85
0447 0.62
7301 0.35
3514 0.52 | 1470 0.9320
1769 0.104
1758 0.2380
111 0.8155
1364 0.655
1375 0.3515
1036 0.4714
1594 0.7595

 | 02 0.93922
11 0.12280
09 0.24791
96 0.78927
70 0.67095
94 0.36307
43 0.43615
81 0.75378
 | 1.01474
0.10130
0.23179
0.79844
0.66088
0.41392
0.49989
0.75998 | 1.00281 (
0.09371 (
0.24513 (
0.82778 (
0.68097 (
0.44061 (
0.49508 (
0.75451 (| 0.98203
0.10104
0.22942
0.85936
0.67656
0.34816
0.54164
 | 0.98424 1.0
0.09947 0.0
0.21779 0.2
0.84230 0.8
0.84230 0.8
0.68089 0.6
0.36085 0.3
0.56713 0.5
0.76066 0.7 | 1060 0.94464
9622 0.08600
2145 0.21900
3918 0.80563
8442 0.68485
6219 0.43872
3394 0.50852
 | 0.95346
0.10556
0.19784
0.78782
0.67681
0.38036
0.51712 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766
0.21710
0.82686
0.68071
0.37806
0.53367
0.76503
0.84862 | | kg CO ₂ e per
kWh
0.13038
0.01306
0.02903
0.11057
0.09103
0.05056
0.07136
 | | kg CO ₂ e per
kWh
1.10537
0.11072
0.24613
0.93743
0.77174
0.42862
0.60503 | | Electricity Heat | |
| Country
Other countries
Australia
Brazil
Canada
China, People's Republic of
Chinese Taipei
Croatia
Ecrypt
Gibraltar
Hong Kong (China)
Ceoland | 0.89066 | 1991
0.89510
0.20988 | 1992 1993 0.90196 0.88517 0.07247 0.06584 0.21958 0.19629 0.84756 0.84715 0.52563 0.54972 0.37622 0.38002 0.60634 0.57603 0.77368 0.77368 0.00049 0.00086 | 1994
0.87853
0.06080
0.19261
0.81935
0.54806
0.28922
0.53400
0.75148
0.96695
0.00086
 | 1995
0.88486
0.06571
0.19777
0.85669
0.55843
0.55843
0.31518
0.31518
0.31518
0.76592
0.95680
0.00174 | 1996 15 0.89967 0.9 0.06786 0.0 0.19124 0.2 0.87563 0.8 0.56486 0.5 0.29329 0.3 0.49540 0.5 0.7199 0.7 0.92097 0.8 0.00127 0.00

 | 97 19
0236 0.94
7393 0.07
1201 0.23
5805 0.87
9710 0.60
4519 0.37
7284 0.76
0949 0.82
0117 0.00 | 98 199
4349 0.94
7393 0.09
3727 0.22
7817 0.85
0447 0.62
7301 0.35
5514 0.52
5592 0.76
2749 0.80
0312 0.00 | 1470 0.932
1769 0.104
1758 0.2380
1111 0.8155
1364 0.655
1375 0.351
1366 0.4714
1594 0.759
1093 0.796
1401 0.0000

 | 02 0.93922
11 0.12280
09 0.24791
96 0.76927
70 0.67095
94 0.36307
43 0.43615
81 0.75378
33 0.80544
67 0.00065
 | 1.01474
0.10130
0.23179
0.79844
0.66088
0.41392
0.49989
0.75998
0.81125
0.00065 | 1.00281 (
0.09371 (
0.24513 (
0.82778 (
0.82778 (
0.82778 (
0.44061 (
0.449508 (
0.75451 (
0.88944 (
0.00066 (| 0.98203
0.10104
0.22942
0.85936
0.67656
0.34816
0.54164
0.76593
0.83805
0.00065
 | 0.98424 1.0
0.09947 0.0
0.21779 0.2
0.84230 0.8
0.68089 0.6
0.36085 0.3
0.56713 0.5
0.76066 0.7
0.84801 0.8
0.00065 0.0 | 1060 0.94464
9622 0.08600
2145 0.21900
3918 0.80563
8442 0.68485
6219 0.43872
3394 0.50852
7101 0.7708
4078 0.86991
0057 0.00147
 | 0.95346
0.10556
0.19784
0.78782
0.67681
0.38036
0.51712
0.75670
0.84635
0.00078 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766
0.21710
0.82686
0.68071
0.37806
0.53367
0.76503
0.84862
0.0082 | | kg CO ₂ e per
kWh
0.13038
0.01306
0.02903
0.11057
0.09103
0.05056
0.07136
0.10230
0.11348
0.00011
 | | kg CO ₂ e per
kWh
1.10537
0.11072
0.24613
0.93743
0.77174
0.42862
0.60503
0.86733
0.96210
0.00093 | | Electricity Heat
100.0% 0.0%
99.7% 0.3%
81.1% 18.9%
100.0% 0.0%
78.6% 21.4%
100.0% 0.0%
100.0% 0.0%
100.0% 0.0%
100.0% 0.0% | · · · · · · · · · · · · · · · · · · · |
| Country
Other countries
Australia
Brazi
Canada
China, People's Republic of
Chinas Taipel
Croatia
Ecypti
Hong Kong (China)
Iceland
India | 1990
0.89066
0.21825
f | 1991
0.89510
0.20988 | 1992 1993 0.90196 0.88517 0.07247 0.06584 0.21958 0.19629 0.84756 0.84715 0.52563 0.54972 0.37622 0.38002 0.60634 0.57603 0.77368 0.77337 0.91806 0.96438 0.00049 0.00049 1.24153 1.27246 | 1994
0.87853
0.06080
0.19261
0.81935
0.54806
0.28922
0.53400
0.75148
0.96695
0.90086
1.22295
 | 1995
0.88486
0.06571
0.19777
0.85669
0.55843
0.55843
0.55747
0.76592
0.95680
0.95680
0.00174
1.29261 | 1996 15 0.89967 0.9 0.06786 0.0 0.19124 0.2 0.87563 0.8 0.56486 0.5 0.49540 0.5 0.75199 0.7 0.2027 0.8 0.00127 0.00 1.35505 1.3

 | 97 19
0236 0.94
7393 0.07
1201 0.23
5805 0.87
9710 0.60
4519 0.37
0627 0.53
7284 0.76
0949 0.82
0949 0.82
0117 0.00
1589 1.28 | 98 199
1349 0.94
1393 0.09
7727 0.22
7817 0.85
1447 0.62
7301 0.35
1552 0.76
15592 | 1470 0.932
1769 0.104
1758 0.2380
111 0.8159
1364 0.655
1375 0.3519
1364 0.759
1375 0.3519
1364 0.759
1375 0.3519
1394 0.759
1394 0.7598
1401 0.0000
1286 1.309

 | 02 0.93922
11 0.12280
09 0.24791
96 0.78927
70 0.67095
94 0.36307
43 0.43615
81 0.75378
81 0.75378
33 0.80544
67 0.00065
78 1.30354
 | 1.01474
0.10130
0.23179
0.79844
0.66088
0.41392
0.49989
0.75998
0.81125
0.00065
1.28263 | 1.00281 (
0.09371 (
0.24513 (
0.82778 (
0.68097 (
0.44061 (
0.44061 (
0.75451 (
0.88944 (
0.00066 (
1.26061 1 | 0.98203
0.10104
0.22942
0.85936
0.67656
0.34816
0.54164
0.76593
0.83805
0.00065
1.31530 | 0.98424 1.0
0.09947 0.0
0.21779 0.2
0.84230 0.8
0.68089 0.6
0.36085 0.3
0.56713 0.5
0.76066 0.7
0.84801 0.8
0.44801 0.8
 | 1060 0.94464
9622 0.08600
2145 0.21900
3918 0.80563
8442 0.68485
6219 0.43872
3394 0.50852
7101 0.77087
4078 0.86991
0057 0.00147
5783 1.23568
 | 0.95346
0.10556
0.19784
0.78782
0.67681
0.38036
0.51712
0.75670
0.84635
0.00078
1.28003 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766
0.21710
0.82686
0.68071
0.37806
0.53367
0.76503
0.76503
0.84862
0.00082
1.27369 | | kg CO ₂ e per
kWh
0.13038
0.01306
0.02903
0.11057
0.09103
0.05056
0.07138
0.10230
0.11348
0.00011 | | kg CO ₂ e per
kWh
1.10537
0.3743
0.93743
0.77174
0.42862
0.60503
0.66733
0.96210
0.00093
1.44401
 | | Electricity Heat 100.0% 0.0% 99.7% 0.3% 98.4% 1.6% 81.1% 1.8% 100.0% 0.0% 78.6% 21.4% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.5% 0.0% 100.5% 0.0% 100.5% 0.0% | 6
6 |
| Country
Other countries
Australia
Brazil
Canada
Chinese Tapei
Chotese Tapei
Croata
Eoyot
Gioratar
Hong Kong (China)
cealand
India
India
India | 1990
0.89066
0.21825
f | 1991
0.89510
0.20988 | 1992 1993 0.90196 0.88517 0.07247 0.06584 0.21958 0.19629 0.84756 0.84715 0.52563 0.54972 0.36263 0.54972 0.80534 0.57603 0.80534 0.57603 0.97868 0.77337 0.91806 0.96438 0.00049 0.00086 1.24153 1.27246 0.88815 0.82464 | 1994
0.87853
0.06080
0.19261
0.81935
0.54806
0.28922
0.53400
0.75148
0.966952
0.00086
1.22295
0.69420
 | 1995
0.88486
0.06571
0.19777
0.85609
0.55843
0.55843
0.55747
0.50747
0.50747
0.76592
0.95680
0.00174
0.00174
0.063037 | 1996 15 0.89967 0.9 0.06786 0.0 0.19124 0.2 0.87563 0.83 0.56486 0.5 0.29329 0.3 0.47540 0.5 0.75199 0.7 0.92097 0.8 0.00127 0.0 1.35505 1.3 0.68586 0.7

 | 19 193 0.94 7393 0.07 1201 0.23 8605 0.87 7710 0.66 4519 0.37 0627 0.53 7284 0.76 9349 0.82 0117 0.00 12589 1.28 2422 0.69 | 98 199 1349 0.94 '393 0.09 3727 0.22 '817 0.85 9447 0.62 '301 0.35 3514 0.52 5592 0.76 2749 0.80 0312 0.00 0342 0.71 | 1470 0.9320
1769 0.104
1758 0.2386
1111 0.8153
1364 0.655
1375 0.3518
1036 0.4714
1594 0.7599
1036 0.4714
1594 0.7599
10,0000
1286 1.3097
149 0.6807
149 0.6807

 | 02 0.93922
11 0.12280
09 0.24791
96 0.78927
70 0.67095
94 0.36307
43 0.43615
81 0.75378
33 0.80544
67 0.00065
78 1.30354
70 0.77511
 | 1.01474
0.10130
0.23179
0.79844
0.66088
0.41392
0.49989
0.75998
0.81125
0.00065
1.28263
0.74807 | 1.00281 (
0.09371 (
0.24513 (
0.82778 (
0.68097 (
0.44061 (
0.49508 (
0.75451 (
0.88944 (
0.00066 (
1.26061 1
0.81196 (| 0.98203
0.10104
0.22942
0.85936
0.367656
0.34816
0.54164
0.76593
0.83805
0.00065
1.31530
0.78829 | 0.98424 1.0
0.09947 0.0
0.21779 0.2
0.84230 0.8
0.68089 0.6
0.36085 0.3
0.56713 0.5
0.76066 0.7
0.84801 0.8
0.00065 0.0
1.27961 1.2
0.79152 0.7
 | 1060 0.94464
9622 0.08600
2145 0.21900
3918 0.80563
8442 0.68485
6219 0.43872
3394 0.50852
7101 0.77087
4078 0.86991
0057 0.00147
5783 1.23568
 | 0.95346
0.10556
0.19784
0.78782
0.67681
0.38036
0.51712
0.75670
0.84635
0.00078
1.28003
0.81077 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766
0.21710
0.82686
0.68071
0.37806
0.53367
0.76503
0.84862
0.00082
1.27369
0.80560 | | kg CO ₂ e per
kWh
0.13038
0.01306
0.02903
0.11057
0.09103
0.05056
0.07136
0.10230
0.11248
0.00011
0.17032
0.10773 | | kg CO ₂ e per
kWh
1.10537
0.24613
0.93743
0.77174
0.42862
0.60503
0.86733
0.86733
0.96210
0.00093
1.44401
0.91333
 | | Electricity Heat 100.0% 0.0% 99.7% 0.3% 98.4% 1.6% 81.1% 18.9% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% | 6
6
6
6 |
| Country
Other countries
Australia
Grazia
Canada
China, People's Republic of
Chinase Taipa
Croatia
Croatia
Edwyt
Gibrattar
Hong Kong (China)
Leeland
India
India
Strael | 1990
0.89066
0.21825
f
0.00056 | 1991
0.89510
0.20988
0.20988 | 1992 1993 1992 1993 0.90166 0.8517 0.07247 0.05584 0.21956 0.84756 0.84756 0.84715 0.52563 0.54972 0.37622 0.38002 0.60634 0.57003 0.97366 0.97337 0.91806 0.96433 0.00049 0.00088 0.00049 0.00088 0.81743 1.27246 0.81743 0.83347 | 1994
0.87853
0.06080
0.19261
0.81935
0.54806
0.28922
0.53400
0.75148
0.96695
0.00086
1.22295
0.69420
0.69420
0.82912
 | 1995
0.88486
0.06571
0.19777
0.85669
0.55843
0.31518
0.30158
0.076592
0.95680
0.00174
1.29261
0.63037
0.63027
0.83222 | 1996 15 0.89967 0.9 0.06786 0.0 0.19124 0.2 0.87563 0.8 0.56486 0.5 0.75199 0.7 0.0017 0.8 0.00127 0.8 0.00127 0.8 0.68586 0.7 0.83733 0.8

 | 19 193 0.94 1236 0.94 1393 0.07 1201 0.23 1202 0.23 1201 0.23 1201 0.23 1201 0.23 1202 0.82 1210 0.82 1224 0.76 1284 0.76 1289 1.28 4422 0.69 3079 0.77 | 98 194 1349 0.94 1349 0.94 1393 0.92 727 0.22 7817 0.85 1447 0.62 7301 0.35 5514 0.52 5559 0.76 749 0.80 3012 0.00 3605 1.28 3342 0.717 7322 0.77 | 1470 0.9320
1769 0.104
1758 0.2386
1111 0.8155
1364 0.655
1375 0.3518
1036 0.4714
1594 0.7598
1093 0.7966
1401 0.0000
1409 0.6800
1499 0.6800
1546 0.7742

 | 02 0.93922
11 0.12280
09 0.24791
96 0.78927
70 0.67095
94 0.36307
43 0.43615
81 0.75378
33 0.80544
67 0.00065
78 1.30354
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0.20007
0.21004 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766
0.21710
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kWh
0.13038
0.01306
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kWh
1.10537
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0.87717 | | Electricity Heat 100.0% 0.0% 99.7% 0.3% 98.4% 1.6% 100.0% 0.0% 98.4% 1.6% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% 100.0% 0.0% | 6 |
| Country
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 | 197 19 1236 0.94 7393 0.07 7393 0.07 5805 0.87 7710 0.60 1519 0.37 72627 0.53 7284 0.76 1284 0.76 1284 0.76 1284 0.76 0529 0.53 02307 0.37 0335 0.40 | 98 19* 1349 0.94 '393 0.09 '3727 0.22 '817 0.85 >1447 0.62 '301 0.35 3514 0.52 5592 0.76 2749 0.80 30312 0.00 3042 0.71 3022 0.77 3024 0.44 | 1470 0.9320 7769 0.104 7758 0.2380 111 0.8153 1364 0.6555 1375 0.3519 036 0.4714 1594 0.7596 0401 0.0000 1286 1.3097 449 0.6805 546 0.7742 678 0.4207

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11 0.12280
09 0.24791
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81 0.75378
81 0.75378
81 0.00065
78 1.30354
70 0.77511
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0.23179
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7101 0.77087
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7101 0.77087
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7873 0.76193
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 | 0.95346
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1.28003
0.81077
0.71064
0.71064 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766
0.21710
0.82686
0.68071
0.37806
0.53367
0.76503
0.76503
0.84862
0.00082
1.27369
0.80560
0.77371
0.45472 | | kg CO ₂ e per
kWh
0.13038
0.01306
0.02903
0.11057
0.09103
0.05056
0.010230
0.110348
0.00011
0.17032
0.10773
0.10346
0.06081
 | | kg CO ₂ e per
kWh
0.24613
0.374613
0.377174
0.42862
0.60503
0.86733
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| Country Other countries Australia Grazia Grazia Cranda Crina, People's Republic of Croatia Croatia Croatia Grazia | 1990
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 | 97 19 0236 0.94 393 0.07 1201 0.23 8005 0.87 7710 0.60 1519 0.37 0627 0.53 7284 0.76 0949 0.82 10117 0.00 1589 1.28 4422 0.69 3079 0.77 335 0.40 7612 0.51 | 98 19 1349 0.94 1393 0.99 3727 0.22 7817 0.85 0447 0.62 3301 0.35 3514 0.52 5592 0.76 3312 0.00 8605 1.28 3342 0.77 0.32 0.77 0.344 0.49 | 1470 0.932(7769 0.104* 7758 0.238(111 0.815(1364 0.655(1375 0.351(1364 0.655(1375 0.351(1384 0.655(1394 0.759(1036 0.471(1594 0.759(1040 0.680(1286 1.309(449 0.680(546 0.7742(678 0.420(8991 0.463(

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 | 0.95346
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 | Amount used per | kg CO ₂ per
kWh
0.97499
0.09766
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1.27369
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0.47968 | | kg CO ₂ e per
kWh
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0.06081 | | kg CO ₂ e per
kWh
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| Country
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 | 1995 0.88486 0.06571 0.19777 0.85669 0.55843 0.31518 0.50747 0.76592 0.96800 0.00174 1.29261 0.63037 0.43167 0.43658 0.43167 0.55897 | 1996 11 1.0.89967 0.9 0.067786 0.0 0.19124 0.2 0.87563 0.8 0.68486 0.5 0.75199 0.7 0.92027 0.8 0.020327 0.8 0.020327 0.8 0.020327 0.8 0.02037 0.8 0.02037 0.8 0.49550 1.3 0.48568 0.7 0.86368 0.7 0.42857 0.4 0.55291 0.5

 | 19 1236 0.94 7393 0.07 7393 0.07 1201 0.23 5805 0.87 7710 0.60 4519 0.37 5627 0.53 7284 0.76 9949 0.82 9117 0.00 1589 1.28 4422 0.69 3079 0.77 335 0.40 612 0.51 544 0.52 | 98 19 4349 0.94 7393 0.09 7393 0.09 7327 0.22 7817 0.85 4447 0.62 7301 0.35 5514 0.52 5592 0.76 3605 1.28 3605 1.28 3605 0.41 463 0.49 2600 0.50 | 1470 0.932(7769 0.104* 7758 0.238(111 0.815(1364 0.655(1375 0.351(1364 0.655(1375 0.351(1384 0.655(1394 0.759(1036 0.471(1594 0.759(1040 0.680(1286 1.309(449 0.680(546 0.7742(678 0.420(8991 0.463(

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0.81077
0.71064
0.45951
0.47617
0.67455 | Amount used per | kg CO ₂ per
kWh
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0.21710
0.82686
0.68071
0.37806
0.53367
0.76503
0.84862
0.00082
1.27369
0.80560
0.077371
0.45472
0.47968
0.62090 | | kg CO ₂ e per
kWh
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0.01306
0.02903
0.11057
0.09103
0.05056
0.10230
0.11348
0.00011
0.17032
0.10773
0.10346
0.06081
0.06641
0.06641 | | kg CO ₂ e per
kWh
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0.11072
0.24613
0.93743
0.97717
0.60503
0.86733
0.966210
0.00093
1.44401
0.91333
0.87717
0.51553
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0.82686
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0.76503
0.84662
0.00082
1.27369
0.80560
0.77371
0.45472
0.47968 | | kg CO ₂ e per
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0.02903
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kWh
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0.470680
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0.53029</td> <td></td> <td>kg CO-e per
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 | 197 19 0236 0.94 393 0.07 1201 0.23 3805 0.87 7710 0.60 1519 0.37 9420 0.53 20117 0.00 589 0.42 069 0.44 0.53 0.42 0.61 0.53 0.42 0.68 3079 0.77 335 0.40 612 0.51 5144 0.52 1144 0.68 0.942 0.42 0.692 0.55 0.612 0.51 | 98 199 4349 0.94 4349 0.94 393 0.09 3727 0.22 277 0.22 3551 0.52 3552 0.76 7749 0.86 3342 0.71 3042 0.71 3042 0.71 3042 0.71 3042 0.71 3042 0.71 3042 0.71 3042 0.71 3042 0.71 3042 0.71 3042 0.71 3042 0.71 3042 0.71 3042 0.71 3042 0.71 3042 0.71 3046 0.50 4083 0.62 305 0.62 305 0.62 306 0.62 307 0.62 3086 0.52 307 | 1470 0.9322
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 | 02 0.9392220 02 0.9392221 03 0.24791 04 0.78927 05 0.67092 04 0.86307 043 0.43615 043 0.43615 05 0.00065 78 0.42177 05 0.42177 05 0.99044 0.69044 0.69044 0.00643 0.62202 0.58055 0.58055
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0.23161
0.057242 | Amount used per | kg CO2, per
kWh
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0.25203 | | kg CO ₂ e per
kWh
0.13038
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0.02903
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0.07136
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0.07212 | | kg CO-e per
kWh
1.10537
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 | 197 19 2236 0.94 333 0.07 2201 0.23 8005 0.07 8005 0.87 9710 0.60 1519 0.37 9284 0.76 9294 0.82 9117 0.00 5589 1.28 8354 0.52 83544 0.52 83544 0.52 8045 0.04 9045 0.46 9045 0.58 7719 0.53 | 98 199 3349 0.94 3393 0.99 7393 0.99 7727 0.22 7817 0.85 9447 0.62 301 0.35 5514 0.52 5529 0.76 0.312 0.77 0.322 0.77 0.446 0.41 4680 0.48 0.448 0.49 6000 0.56 6484 0.67 6484 0.67 6467 0.17 6666 0.52 5560 0.35 | 4470 0.932(47) 1758 0.932(17) 1758 0.238(17) 1758 0.238(17) 1758 0.238(17) 1375 0.351(17) 13375 0.351(17) 13375 0.351(17) 13375 0.351(17) 13375 0.351(17) 1401 0.000(12) 1236 1.30(17) 1401 0.680(17) 546 0.774(17) 678 0.420(18) 1401 0.680(17) 1575 0.688(17) 1401 0.680(17) 1411 0.643(17) 1411 0.575(17) 1411 0.575(17)

 | 202 0.3992221 203 0.3992221 203 0.24791 204 0.78927 205 0.67092 204 0.36307 205 0.43615 207 0.87092 208 0.36307 208 0.36307 209 0.36307 200 0.77511 207 0.77511 207 0.49550 201 0.7751 201 0.7751 202 0.21144 202 0.21144 202 0.52565 207 0.34977 201 0.55585 207 0.34977 203 0.34977 204 0.34977
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0.45951
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0.56274
0.36127 | Amount used per | kg CO; per
kWh
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0.08766
0.82686
0.82686
0.82686
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1.27369
0.84862
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0.773711
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0.23025
0.25929
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 | | kg CO ₂₀ ppr
kWh
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kWh
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Source Notes

Emission factor data is from the International Energy Agency (IEA) Data Services (2010) for the table "CO2 Emissions per kWh from electricity and heat generation", from "CO2 Emissions from Fuel Combustion 2010 - Highlights" report available at http://www.lea.org/publications/free new_Desc.asp?PUBS_ID=2143

Data on the proportion of electricity and heat is sourced from the IEA website at: <u>http://www.isa.org/Textbase/stats/prodesult.ass</u>?PRODUCT=Electricity/Heat Data on losses in distribution of electricity and heat is calculated from country energy balances available at the IEA website at: <u>http://www.isa.org/Textbase/stats/prodesult.ass</u>?PRODUCT=Electricity/Heat Indirect (Scope) of imission factors for different countries were estimated as being roughly a similar ratio CQ emission factors as for the UK (which is 13.4%). In the absence of other information.

³ Emissions factors for electricity and heat generated (and supplied to the grid where relevant) - INCLUDES losses from the transmission and distribution grid, i.e. Emission Factor (Electricity/Heat CONSUMED) = Emission Factor (Electricity/Heat COSES) If you cannot find an emission factor for a particular country, please refer to the larger list available on the GHG Protocol website at the link above. Emission factors per KWh energy consumed are calculated using % distribution losses for the 5-year average, 2004-2008.

Annex 11 - Fuel Properties Last updated: Apr-11

How to use this Annex

This annex can be used to help you convert between common units of energy, together with the unit conversions provided in **Annex 12**. In this Annex the typical/average UK calorific values and densities of the most common fuels has been provided.

Table 11

Fuel properties	Net CV	Gross CV	Density	Density
	GJ/tonne	GJ/tonne	kg/m ³	litres/tonne
Commonly Used Fossil Fuels				
Aviation Spirit	45.07	47.44	707.2	1414
Aviation Turbine Fuel	43.89	46.20	800.6	1249
Burning Oil ¹	43.86	46.16	803.2	1245
Coal (domestic) ²	28.98	30.50	850.0	1176
Coal (electricity generation) ³	23.75	25.00		
Coal (industrial) 4	24.51	25.80		
Coking Coal	30.97	32.60		
Diesel	42.85	45.59	836.8	1195
Fuel Oil	40.85	43.46	976.6	1024
Gas Oil	42.85	45.59	867.3	1153
LPG	45.96	49.23	508.1	1968
Naphtha	45.15	47.53	699.8	1429
Natural Gas	47.73	53.09	0.7459	1340651
Petrol	44.74	47.10	734.2	1362
Other Fuels	-			
Biodiesel (ME) 5	37.20	41.04	890.0	1124
Biodiesel (BtL or HVO) 6	44.00	46.32	780.0	1282
Bioethanol ⁷	26.80	29.25	794.0	1259
BioETBE ⁸	36.30	39.62	750.0	1333
Biogas ⁹	30.00	33.30	0.9626	1038840
Biomethane ¹⁰	49.00	54.39	0.7263	1376907
CNG ¹¹	47.73	53.09	175.0	5714
Grasses/Straw 12	14.50	15.26	160.0	6250
LNG ¹³	47.73	53.09	452.5	2210
Wood Chips ¹²	14.00	14.74	250.0	4000
Wood Logs ¹²	14.70	15.48	425.0	2353
Wood Pellets 12	17.00	17.90	650.0	1538
Methane (CH₄)	50.00	55.50	0.7170	1394700
Carbon Dioxide (CO ₂)	0.00	0.00	1.9800	505051
	0.00	0.00	1.5000	303031

Net CV	Cross CV
kWh/kg	Gross CV kWh/kg
KVVII/KY	KV/I/Kg
12.52	13.18
12.32	12.83
12.13	12.82
8.05	8.47
6.60	6.94
6.81 8.60	7.17
11.90	9.06
11.35	12.00
11.90	12.07
12.77	13.68
12.54	13.20
13.26	14.75
12.43	13.08
10.33	11.40
12.22	12.87
7.44	8.13
10.08	11.01
8.33	9.25
13.61	15.11
13.26	14.75
4.03	4.24
13.26	14.75
3.89	4.09
4.08	4.30
4.72	4.97
13.89	15.42

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Sources

Data for Commonly Used Fossil Fuels was sourced from the Digest of UK Energy Statistics 2010 (DECC), available at: http://www.decc.gov.uk/en/content/cms/statistics/publications/dukes/dukes.aspx Figures for CNG and biofuels are predominantly based on data from JRC/EUCAR/CONCAWE EU Well-to-Wheels study, 2007 update. Available at: http://ies.jrc.ec.europa.eu/jec-research-collaboration/downloads-jec.html

Notes

¹ Burning oil is also known as kerosene or paraffin used for heating systems. Aviation Turbine fuel is a similar kerosene fuel specifically refined to a higher quality for aviation.

² Factors should only be used for coal supplied for domestic purposes. Coal supplied to power stations or for industrial purposes have different emission factors.

³ Factors should only be used for coal supplied for electricity generation (power stations). Coal supplied for domestic or industrial purposes have different emission factors.

⁴ For coal used in sources other than power stations and domestic, i.e. industry sources including collieries, Iron & Steel, Autogeneration, Cement production, Lime production, Other industry, Miscellaneous, Public Sector, Stationary combustion railways and agriculture. Users who wish to use coal factors for types of coal used in specific industry applications should use the factors given in the UK ETS.

⁵ Biodiesel ME (Methyl Ester) is the conventionally produced biodiesel type (also known as 1st generation biodiesel).

⁶ Biodiesel, BtL (Biomass-to-Liquid) is an advanced biodiesel fuel not yet in significant commercial production (also known as 2nd generation biodiesel). Biodiesel HVO (Hydrotreated Vegetable Oil) is a new type of biodiesel, similar in properties to BtL biodiesel fuel, only recently becoming available.

⁷ Bioethanol is a biofuel commonly used in petrol engined vehicles, usually in a low % blend with conventional petrol.

⁸ BioETBE is a biofuel that can be used in petrol engined vehicles in a low % blend with conventional petrol, usually as a replacement for conventional octane enhancers.

⁹ Figures are indicative for uncompressed biogas assuming an assumed content of 60% methane and 40% of mainly carbon dioxide (with small quantities of nitrogen, oxygen, hydrogen and hydrogen disulphide). Note: the relative proportions can vary significantly depending on the source of the biogas, e.g. landfill gas, sewage gas, anaerobic digestion of biomass, etc. This will affect all physical properties.

¹⁰ Figures are for uncompressed biomethane (of suitable purity for transport applications) comprising an average of 98% methane and 2% carbon dioxide. Biomethane can be produced by upgrading biogas through removal of the majority of the carbon dioxide and other impurities.

¹¹ CNG (Compressed Natural Gas) is an alternative transport fuel, typically at 200 bar pressure.

¹² Based on average information on wood pellets, wood chips, grasses/straw (bales) sourced from the BIOMASS Energy Centre (BEC), which is owned and managed by the UK Forestry Commission, via Forest Research, its research agency. Fuel property data on a range of other wood and other heating fuels is available at: <u>http://www.biomassenergycentre.org.uk/portal/page?_pageid=75,20041&_dad=portal&_schema=PORTAL</u>, and <u>http://www.biomassenergycentre.org.uk/portal/page?_pageid=75,163182&_dad=portal&_schema=PORTAL</u>

¹³ LNG (Liquefied Natural Gas) is an alternative transport fuel. Some of the natural gas used in the UK network is also imported as LNG by ship in tankers.

Annex 12 - Unit Conversions

Last updated: Jun-09

How to use this Annex

This Annex can be used to help you convert between common units of energy, volume, mass or distance.

Table 12a provides conversions from common units of Energy

Table 12b provides conversions from common units of Volume

Table 12c provides conversions from common units of Weight/Mass

Table 12d provides conversions from common units of Length/Distance

If this annex does not have the conversion factor you are looking for, a more complete list of conversions is available here: http://www.onlineconversion.com/

Common unit abbreviations: kilo (k) = 1,000 or 10^3 mega (M) = 1,000,000 or 10^6 giga (G) = 1,000,000,000 or 10^9 tera (T) = 1,000,000,000,000 or 10^{12} peta (P) = 1,000,000,000,000 or 10^{15}

Table 12a

<u>Energy</u>					
From/To - multiply by	GJ	kWh	therm	toe	kcal
Gigajoule, GJ	1	277.78	9.47817	0.02388	238,903
Kilowatthour, kWh	0.0036	1	0.03412	0.00009	860.05
Therm	0.10551	29.307	1	0.00252	25,206
Tonne oil equivalent, toe	41.868	11,630	396.83	1	10,002,389
Kilocalorie, kcal	0.000004186	0.0011627	0.000039674	0.000000100	1

Table 12b Volume

From/To - multiply by	L	m ³	cu ft	Imp. gallon	US gallon	Bbl (US,P)	
Litres, L	1	0.001	0.03531	0.21997	0.26417	0.0062898	
Cubic metres, m ³	1000	1	35.315	219.97	264.17	6.2898	
Cubic feet, cu ft	28.317	0.02832	1	6.2288	7.48052	0.17811	
Imperial gallon	4.5461	0.00455	0.16054	1	1.20095	0.028594	
US gallon	3.7854	0.0037854	0.13368	0.83267	1	0.023810	
Barrel (US, petroleum), bbl	158.99	0.15899	5.6146	34.972	42	1	

Table 12c Weight/Mass

From/To - multiply by	kg	tonne	ton (UK)	ton (US)	lb	
Kilogram, kg	1	0.001	0.00098	0.00110	2.20462	
tonne, t (metric ton)	1000	1	0.98421	1.10231	2204.62368	
ton (UK, long ton)	1016.04642	1.01605	1	1.12000	2240	
ton (US, short ton)	907.18	0.90718	0.89286	1	2000	
Pound, Ib	0.45359	0.00045359	0.00044643	0.00050	1	

Table 12d Length/Distance

From/To - multiply by	m	ft	mi	km	nmi
Metre, m	1	3.2808	0.00062137	0.001	0.00053996
Feet, ft	0.30480	1	0.000	0.0003048	0.00016458
Miles, mi	1609.34	5280	1	1.60934	0.86898
Kilometres, km	1000	3280.8	0.62137	1	0.53996
Nautical miles, nmi or NM	1852	6076.1	1.15078	1.852	1

From/To - multiply by	m	ft	in	cm	yd
Metre, m	1	3.28084	39.37008	100	1.09361
Feet, ft	0.30480	1	12	30.48000	0.33333
Inch, in	0.02540	0.08333	1	2.54000	0.02778
Centimetres, cm	0.01	0.03281	0.39370	1	0.01094
Yard, yd	0.91440	3	36	91.44000	1

Annex 13 - Indirect emissions from the supply chain

Unlike most of the emission factors provided in the annexes, the emission factors presented in *this* Annex only cover indirect emissions from the supply chain and include CO₂, CH₄, N₂O and F-gas emissions. Indirect emissions are those which are generated by other organisations as part of the process of providing goods and services to your company.

How to use this Annex

This annex is intended to be used primarily as a high-level diagnostic tool/for initial scoping/estimating. If you have more specific information about the supply chain emissions of any particular product then that source should be used instead. Such adjustments should be clearly documented.

This annex also includes a number of activities that are also covered in other annexes, such as coal, fuels refined from crude oil, mains electricity, gas, water and for various modes of transport. If you have more specific/detailed information for such activities that will enable you to make calculations of emissions using the emission factors in the other annexes these should be used in preference to the factors in this annex as they will be more specific. However, the information in this annex may still be useful for a rough initial calculation of the relative importance of these activities in the first instance.

The table below provides emission factors for spending on different groups of products:

1) Identify the amount spent on different product groups (in actual prices in £s, including VAT).

2) Multiply the amount of spending by the conversion factor to get total emissions in kilograms of carbon dioxide equivalent (kg CO₂e). The excel spreadsheet does this automatically following your entry of the amount of spending into the appropriate box.

For example, if £1000 is spent on 'ceramic goods' (in purchasers' prices), then the table calculates that 709 kilograms of CO₂e were released during all stages of the production of these goods, including raw material extraction, processing, manufacturing, transportation, packaging etc. As a result, these emissions factors are different from the emission factors shown in the other annexes. They are similar to life-cycle emissions, but do not take into account direct emissions by your company, which may be included in life-cycle estimates (e.g. from the actual combustion of fuel by your company).

Please use this annex in conjunction with Annex F in the Defra Guidance on measuring emissions from your supply chain which is available at http://www.defra.gov.uk/environment/business/reporting/index.htm

Key information:

This Annex can be used to produce indicative estimates of the Greenhouse Gas emissions relating to the production of goods and services purchased by your company. The estimates can only be indicative as they represent the average emissions relating to each product group, and the emission factors relating to specific products within the group may be quite different. If you have specific information about the supply chain emissions of any particular product then this source should be used instead.

The information derived from this table can be combined with data on direct emissions, i.e. those relating to actual fuel use (e.g. litres of fuel used, or derived from mileage estimates). The footnotes to the table give more information about what the factors shown in the table mean in terms of purchases of energy products and transport services.

Are these factors directly comparable to those in the other annexes?

No. The emission factors provided in this annex are for the supply chain emissions of GHG resulting from the production and transportation of broad categories of goods and services. They express Scope 2 and 3 emissions as defined by the GHG Protocol. Because they encompass all the supply chain impacts (i.e. indirect emissions), these emission factors are **not directly comparable** with those from other annexes, which generally **only** include emissions from the point of use (generation for electricity; life cycle in the case of Annex 9).

Which products are included in which categories?

Some guidance is available in the comment boxes in the Table. The categories are based upon the Standard Industrial Classification (SIC): further information on the SIC 2003 is available here:

http://www.statistics.gov.uk/statbase/Product.asp?vlnk=14012

What are the factors for each of the individual Greenhouse Gases?

The factors for each of the six gases included in the overall calculation are included for information in Table 13.

Do the factors take into account emissions relating to imported goods, and those relating to the formation of capital assets used in making the products?

The factors are for products supplied for consumption in the UK but do take account of the emissions relating to the production of products imported for intermediate consumption (i.e. those products that are used by UK industries in the process of supplying products for consumption in the UK. The estimates do not incorporate any allowance for emissions relating to the formation of capital assets, whether in the UK or overseas.

Annex 13 Scopes & Boundaries:

Scope 3. For boundaries, see How were these factors calculated?

How were these factors calculated?

The factors are based on a model of the economy, known as the input-output model, which describes in monetary terms how the goods and services produced by different sectors of the economy are used by other sectors to produce their own output. These monetary accounts are linked to information about the greenhouse gas emissions of different sectors of the economy. For the factors in this Annex an input-output model of the world economy was used with two distinct regions - the UK and the Rest of World.

By using the input-output model, the industrial emissions are then attributed to final products bought by consumers. The result is an estimate of the total upstream emissions associated with the supply of a particular product group.

The input-output tables used for this exercise refer to the year 2006. The supply chain emission factors are expressed on a purchasers' price basis (i.e. the actual sales price including taxes on products and distribution margins). It may be advisable to take subsequent price changes into account when using the factors shown below. It should also be noted that emissions in more recent years may have changed because of subsequent changes in the structure and emissions intensity of the supply chain since 2006.

For more detail on the methodology used, contact the Centre for Sustainability Accounting: info@censa.org.uk http://www.censa.org.uk Table 13

Cummlum d	in omission factore former line	aradusta -	0			_			-		ope 3
Supply cha SIC code	ain emission factors for spending on p Product category	Carbon	O2e per £ Methane	Nitrous Oxide	HFCs	PFCs	SF ₆	Amount spont by	v	Total GHG	Total kg CO ₂ e
(SIC 2003)	Froduct category	Dioxide (CO ₂)	(CH ₄)	(N ₂ O)	HFUS	FFUS	3F6	Amount spent by product category (£)	[×]	Total kg CO ₂ e per £	
01	Agriculture products ²	0.65	1.15	1.47	0.01	0.0009	0.0007	p	x	3.29	
02	Forestry products	0.46	0.04	0.02	0.03	0.0012	0.0010		x	0.56	
05	Fish products ²	1.09	0.11	0.04	0.02	0.0014	0.0015		х	1.27	
10	Coal, lignite, peat ³	2.15	6.52	0.03	0.03	0.003	0.003		х	8.74	
11	Crude petroleum, natural gas ³	0.81	0.10	0.01	0.00	0.0005	0.0005		х	0.93	
13	Metal ores	1.13	0.11	0.02	0.01	0.0013	0.0014	-	х	1.27	
14 15	Stone, sand and clay, other minerals	1.21 0.55	0.10 0.38	0.03	0.01	0.0015	0.0014		x	1.36 1.23	
16	Food and drink products ² Tobacco products	0.07	0.05	0.29	0.00	0.0010	0.0003		×	0.16	
17	Textiles	0.33	0.03	0.02	0.01	0.0006	0.0005		x	0.38	
18	Wearing apparel	0.25	0.04	0.02	0.01	0.0006	0.0005		х	0.32	
19	Leather products, footwear	0.25	0.07	0.05	0.01	0.0004	0.0002		х	0.38	
20	Wood and wood products	0.88	0.06	0.02	0.01	0.002	0.002		х	0.97	
21	Pulp and paper, paper products	0.69	0.05	0.02	0.01	0.0008	0.0008		х	0.77	
22	Printing matter and related services	0.35	0.03 0.19	0.01	0.01	0.0007	0.0006		x	0.40	
24.11,24.12	Refined petroleum, coke and other fuels ⁴ Industrial gases and dyes	1.39	0.09	0.01	0.00	0.0003	0.0004		×	1.53	
24.13	Inorganic chemicals	1.06	0.09	0.03	0.02	0.004	0.002		x	1.22	
24.14	Organic chemicals	1.11	0.10	0.09	0.06	0.012	0.002		х	1.38	
24.15	Fertilisers	1.89	0.11	1.71	0.03	0.002	0.0013		х	3.74	
24.16,24.17	Plastics & synthetic resins etc	1.28	0.11	0.07	0.04	0.007	0.002		х	1.51	
24.2	Pesticides	0.94	0.09	0.04	0.04	0.005	0.002		X	1.12	
24.3 24.4	Paints, varnishes, printing ink etc Pharmaceuticals	0.52	0.05	0.03	0.02	0.002	0.0009		×	0.63	
24.4	Soap and toilet preparations	0.49	0.05	0.03	0.02	0.002	0.0009		×	0.59	
24.6	Other chemical products	0.80	0.07	0.02	0.01	0.0013	0.000		x	0.96	
24.7	Man-made fibres	1.80	0.13	0.07	0.06	0.004	0.002		х	2.07	
25.1	Rubber products	0.80	0.05	0.03	0.03	0.002	0.002		х	0.92	
25.2	Plastic products	1.00	0.07	0.04	0.05	0.003	0.002		х	1.16	
26.1	Glass and glass products	1.18	0.06	0.02	0.01	0.002	0.002		х	1.28	
26.2,26.3 26.4	Ceramic goods Structural clay products	0.64	0.04	0.01	0.01	0.002	0.002		X	0.71	
26.5	Cement, lime and plaster	6.21	0.08	0.01	0.02	0.0007	0.0009	-	x	7.06	
26.6-26.8	Articles of concrete, stone etc	1.40	0.13	0.03	0.01	0.002	0.002		x	1.57	
27.1-27.3	Iron and steel	3.27	0.11	0.03	0.01	0.006	0.007		х	3.44	
27.4	Non-ferrous metals	2.21	0.09	0.04	0.03	0.058	0.062		х	2.49	
27.5	Metal castings	1.38	0.08	0.02	0.02	0.015	0.036		х	1.55	
28	Metal products	1.21	0.06	0.02	0.01	0.009	0.009		х	1.32	
29 30	Machinery and equipment	0.73	0.04	0.02	0.01	0.006	0.006		X	0.81	
30	Office machinery and computers Electrical machinery	0.83	0.05	0.02	0.04	0.009	0.005	-	x	0.76	
32	Radio, television and communications	0.37	0.03	0.02	0.03	0.006	0.003		x	0.46	
33	Medical and precision instruments	0.44	0.03	0.01	0.04	0.013	0.005		х	0.54	
34	Motor vehicles	0.80	0.05	0.02	0.02	0.008	0.007		х	0.90	
35	Other transport equipment	0.60	0.04	0.01	0.01	0.005	0.004		х	0.67	
36, 37	Furniture, other manufactured goods, recycling	0.52	0.04	0.02	0.01	0.0012	0.0010		х	0.58	
40.1	services Mains electricity ⁴	6.19	0.25	0.05	0.01	0.0006	0.013		x	6.50	
40.2,40.3	Mains gas ⁴	2.72	0.51	0.02	0.01	0.0009	0.005		х	3.26	
41	Mains water	0.64	0.04	0.01	0.01	0.0011	0.0013		х	0.71	
45	Construction ⁵	0.49	0.04	0.02	0.01	0.0014	0.0013		х	0.56	
50	Motor vehicle distribution and repair, automotive	0.77	0.07	0.03	0.02	0.004	0.003		x	0.90	
51	fuel retail Wholesale distribution	0.50	0.10	0.05	0.01	0.002	0.0013		×	0.66	
52	Retail distribution	0.32	0.06	0.03	0.03	0.0009	0.0008		x	0.44	
55	Hotels, catering, pubs etc	0.38	0.12	0.09	0.01	0.0010	0.0009		х	0.60	
60.1	Railway transport ⁶	0.96	0.07	0.06	0.01	0.0015	0.0014		х	1.11	
60.2	Road transport ⁶	1.08	0.07	0.02	0.01	0.0011	0.0009		х	1.19	
61	Water transport ⁶	2.51	0.08	0.03	0.01	0.0011	0.0008		X	2.63	
62 63	Air transport ⁶ Ancillary transport services	3.21 0.33	0.11 0.03	0.04	0.01	0.0013	0.0010		x	3.37 0.38	
63 64	Post and telecommunications	0.33	0.03	0.01	0.01	0.0010	0.0007		x	0.38	
65	Banking and finance	0.18	0.02	0.02	0.00	0.0012	0.0004		x	0.21	
66	Insurance and pension funds	0.30	0.03	0.01	0.01	0.0013	0.0008		x	0.36	
67	Auxiliary financial services	0.24	0.03	0.01	0.01	0.0013	0.0007		х	0.29	
70	Real estate activities	0.10	0.01	0.01	0.00	0.0003	0.0003		х	0.12	
71	Renting of machinery etc	0.40	0.07	0.02	0.01	0.0015	0.0012		х	0.50	
72	Computer services	0.23	0.03	0.01	0.01	0.0014	0.0008		х	0.28	
73 74	Research and development	0.46	0.07	0.03	0.01	0.002	0.0011 0.0005		x	0.58	
74 75	Legal, consultancy, other business activities Public administration and defence	0.17	0.02	0.01	0.01	0.0008	0.0005		×	0.21	
80	Education	0.39	0.04	0.01	0.01	0.0005	0.002		x	0.46	
85	Health and social work	0.33	0.05	0.02	0.01	0.0027	0.001		x	0.42	
90	Sewage and refuse services	0.47	1.42	0.10	0.01	0.001	0.012		х	2.01	
91	Services from membership organisations	0.17	0.02	0.01	0.01	0.0004	0.0003		х	0.20	
92	Recreational services	0.25	0.05	0.03	0.01	0.0008	0.0005		х	0.33	
93	Other service activities	0.30	0.05	0.01	0.01	0.0010	0.0008		х	0.38	
	TOTAL					1			111		(

Source Calculated by Centre for Sustainability Accounting (CenSA), York, UK. http://www.censa.org.uk

Notes

¹ For detailed information on the Standard Industrial Classification system please see the UK Standard Industrial Classification of Economic Activities 2003: http://www.ons.gov.uk/about-statistics/classifications/archived/uk-standard-industrial-classification-of-ea-2003.pdf

² Agricultural and fish products are those bought direct from farmers or the fisheries industry. Where products have been prepared for consumption they should be treated as products from the food and drink manufacturing industry (SIC code 15 in the above table).

³ These emissions relate to the activities of the industries engaged in the extraction of energy carriers. Where fuels are processed before use then the factors identified by footnote 3 should be used.

⁴ These emission factors relate to the supply and distribution of energy products for general consumption, and take into account emissions relating to the extraction and processing of the energy carriers (e.g. oil refineries). Except in the case of electricity, they do not include emissions relating to your company's use of the energy (for which see primarily Annex 1). In the case of electricity, these factors include the emissions relating to the fuels used to generate the electricity, whereas those shown in Annex 3 of the 2009 Defra / DECC GHG Conversion Factors are limited just to emissions from the use of those fuels by the electricity producers.

⁵ These factors relate to spending on construction projects, not to emissions relating to construction projects in the supply chain.

⁶ These factors relate to transport services for hire or reward (including public transport services), not to emissions from vehicles owned by your company (for which estimates of actual fuel use should be used). They differ from those shown in Annexes 6 and 7, insofar as the upstream emissions relating to transport services are not included in the other annexes.