

Hotel CO2 Report

DEFRA have published a CO2 calculation for hotels which is detailed below. The CO2 shown is per night per country.

UK Government GHG Conversion Factors for Company Reporting

Hotel stay

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Emissions source:	Hotel stay	Expiry:	31/07/2020	Factor set:	Full set
Scope:	Scope 3	Version:	1.0	Year:	2019

Hotel stay factors should be used to report emissions associated with overnight hotel stays. The emissions from hotel stays are reported as a Scope 3 emissions source.

Guidance

- The conversion factors provided are for an average class of hotel and can be applied to a stay at any type of hotel.
- Unless otherwise stated, conversion factors provided are an average for the specified country.
- The conversion factors are provided on a 'room per night' basis and should be applied to each room that is occupied during the stay. A "room per night" is on a per room basis and does not differentiate for number of travellers staying in the room.

Example of calculating emissions from hotel stays

Company R wants to report the emissions associated with its staff staying at hotels during business trips.

For each trip undertaken, Company R records information on the country visited and the number of nights each staff member stays in a hotel for.

For each hotel stay, the number of hotel rooms is multiplied by the length of stay (in number of nights) and by the conversion factor for the appropriate country to give the associated emissions. A room night is for the room and does not differentiate for number of travellers staying in the room.

Activity	Country	Unit	kg CO ₂ e
Hotel stay	UK	Room per night	17.4
	UK (London)	Room per night	20.4

Activity	Country	Unit	kg CO ₂ e
Hotel stay	Argentina	Room per night	52.8
	Australia	Room per night	44.9
	Austria	Room per night	18.3
	Belgium	Room per night	19.6
	Brazil	Room per night	14.9
	Canada	Room per night	15.5
	Caribbean Region	Room per night	64.6
	Chile	Room per night	40.4
	China	Room per night	63.8
	China (Hong Kong)	Room per night	77.0
	Colombia	Room per night	14.3
	Costa Rica	Room per night	13.7
	Czech Republic	Room per night	29.7
	Egypt	Room per night	70.0
	France	Room per night	7.6
	Germany	Room per night	20.8
	Greece	Room per night	46.9
	India	Room per night	86.7
	Indonesia	Room per night	64.7
	Ireland	Room per night	30.4
	Israel	Room per night	61.3
	Italy	Room per night	22.9
	Japan	Room per night	71.9
	Jordan	Room per night	80.9
	Malaysia	Room per night	69.0
	Mexico	Room per night	28.5
	Netherlands	Room per night	25.0
	New Zealand	Room per night	12.9
	Panama	Room per night	30.2
	Philippines	Room per night	79.3
	Poland	Room per night	39.9
	Portugal	Room per night	27.6

	Qatar	Room per night	119.3
	Russian Federation	Room per night	46.1
	Saudi Arabia	Room per night	142.2
	Singapore	Room per night	37.1
	South Africa	Room per night	40.2
	South Korea	Room per night	64.5
	Spain	Room per night	18.7
	Switzerland	Room per night	6.9
	Taiwan	Room per night	71.1
	Thailand	Room per night	54.6
	Turkey	Room per night	51.8
	United Arab Emirates	Room per night	94.9
	United States	Room per night	21.4
	Vietnam	Room per night	55.1

FAQs

How are the hotel stay conversion factors derived?

The hotel stay conversion factors are taken from the Hotel Footprinting Tool, produced by the International Tourism Partnership and Greenview, which have been derived from the Cornell Hotel Sustainability Benchmarking Index that uses annual data from international hotel companies and a standardized industry methodology.

For more information about how they have been derived, please visit <https://www.hotelfootprints.org> where more granular data is available by city and segment.

Why can't I find a conversion factor for the country I'm interested in?

The provision of conversion factors is limited by the availability of data in different parts of the world. The datasets used are updated each year, therefore it is expected that a wider range of countries will be covered in the future.

Note: the factor for hotel staying in Czech Republic was not updated in 2018, thus the 2017 value has been used.

For information about how the conversion factors have been derived, please refer to the 'Methodology paper' that accompanies the conversion factors.