

Hotel Footprinting Tool

Frequently Asked Questions

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About the Data

1. What is the Hotel Footprinting Tool?

The tool estimates the carbon footprint of a single or multiple hotel room nights and meeting spaces across the world. Companies can use this information to calculate the carbon footprint of hotel stays or meetings during business travels for Scope 3 reporting and offsetting, or to provide clients with information when booking hotels or offsetting carbon on their behalf.

The data set shows the median carbon footprint in specified geographical locations, and users can filter for hotels by the number of Expedia Stars. It calculates the carbon footprint using the Hotel Carbon Measurement Initiative (HCMI) methodology; ideal for corporate reporting and calculating the amount of carbon to offset.

2. What is the Hotel Carbon Measurement Initiative (HCMI)?

HCMI is the industry-accepted methodology to measure and compare Scope 1 and 2 greenhouse gas emissions of hotels. It includes emissions related to fuels burned on site (e.g. in gas boilers and company vehicles) and electricity used on site. It also accounts for emissions related to any outsourced laundry and refrigerants (e.g. used in air conditioning). For more information, please visit [Hotel Carbon Measurement Initiative \(HCMI\) - Greenview](#).

3. What is the data source of the Hotel Footprinting Tool?

The data is from the Cornell Hotel Sustainability Benchmarking (CHSB) Index 2026 data set (based on 2024 data), with over 31,500 hotels in over 1,000 geographies.

The CHSB data set, along with the accompanying guidance document outlining the methodology, are freely available online at [Resource | Cornell Hotel Sustainability Benchmarking Index - Greenview](#), or through the Cornell University Center for Hospitality Research.

4. What is the minimum number of properties in each country, state or province to generate median figures?

The minimum threshold is five properties for market areas and eight properties for all other geographies (i.e. country, state, province). If a particular segment within a market contained at least five properties, or if a particular segment within a region, country, and climate zone contained at least eight properties, the results were included. On the other hand, data for geographies that did not meet the minimum threshold were excluded from the final outputs.

5. If there is insufficient data to generate median figures, how is the data extrapolated for these countries?

Some countries will not have actual median figures available, due to limitations in the raw data received for CHSB. The carbon footprint per occupied room (kg CO₂e) [*Measure 1*] and the carbon footprint per sqm/hour of meeting space (kg CO₂e) [*Measure 7*] for these countries are extrapolated using the following data points:

- the global average carbon footprint per occupied room (kg CO₂e) [*Measure 1*]
- the global average carbon footprint per sqm/hour of meeting space (kg CO₂e) [*Measure 7*]
- the percentage of energy from electric sources for each country
- the percentage of energy from non-electric sources for each country
- the purchased electricity emission factor for each country
- the global weighted average of purchased electricity emission factors

For more information on the data set and the extrapolation methodology, please contact us at data@greenview.sg.

While we understand that global extrapolations are broad and high-level figures, the HFT produces more accurate and reliable data than other existing methods because of our extensive CHSB source data. Furthermore, as the CHSB data set grows in reach and depth over time, we will be able to reduce extrapolation, while expanding coverage in the remaining countries that still require it for footprinting exercises (e.g. by increasing the number of properties per country and number of countries with actual data).

6. What are the calculation methods applied in the Hotel Footprinting Tool?

Actual Data

- Indicates that figures were available in the source data received from the Cornell Hotel Sustainability Benchmarking (CHSB) Index 2026 data set (based on calendar year 2024 data).

Extrapolated Data

- For countries that lack the minimum number of properties to generate a median figure, a proxy country/group of countries were used to estimate the figure using the extrapolation methodology explained above. The proxy group of countries for each climate grouping and country grouping are listed in the Legend to the Hotel Footprinting Tool.

7. What are the types of extrapolations performed?

Extrapolation by Stars, within a specific country

Average of 2 Stars and 4 Stars

- The average of 2 Stars and 4 Stars coefficients was calculated and used as a proxy to fill in the gap in the 3 Stars coefficient for a specific country.

Average of 3 Stars and 5 Stars

- The average of 3 Stars and 5 Stars coefficients was calculated and used as a proxy to fill in the gap in the 4 Stars coefficient for a specific country.

Note: If coefficients for 2 Stars or 5 Stars are lacking, partial data extrapolation or figures from other countries are used as proxy.

Extrapolation based on other countries

Climate Grouping Extrapolation

- Countries from the same climate zone are grouped together and used as a proxy to fill in the gaps among countries based on the coefficient generated from the grouping.

Country Grouping Extrapolation

- Countries from the same location are grouped together and used as a proxy to fill in the gaps among countries based on the coefficient generated from the grouping. The full list of country groupings can be found in the Legend to the Hotel Footprinting Tool.

Global Extrapolation

- For countries that lack the minimum number of properties to generate a median figure or good proxy, its coefficient was estimated based on the coefficient generated from the whole list of countries that have actual data.

Partial Data Extrapolation

- For countries that lack the minimum number of properties to generate a median figure for some of the Expedia Star segments (i.e., data not available for 3 stars and 4 stars), its coefficient was estimated based on the coefficient generated from partially available data. In this case, data would be extrapolated from the 2 stars and 5 stars' coefficients within the same country.

Extrapolation for more granular geographies within a specific country

Sub-National Province Level Extrapolation

- Provinces that lack the minimum number of properties to generate a median figure are grouped together. The coefficients from other provinces within the same country which meet the minimum number of properties are used as a proxy to fill in the gaps.

Sub-National State Level Extrapolation

- States that lack the minimum number of properties to generate a median figure are grouped together. The coefficients from other states within the same country which meet the minimum number of properties are used as a proxy to fill in the gaps.

8. How do I identify if the figures generated are actual or extrapolated?

Under the Dataset tab of the Excel file, the Calculation method will state “Actual” or “Extrapolation”, and the type of extrapolation used.

9. Why is the latest data set from the 2024 calendar year?

The publishing cycle for the Cornell Hotel Sustainability Benchmarking (CHSB) Index takes up to two years, which includes data collection from major hotel chains (generally available in the third quarter of the following calendar year), data aggregation, rigorous validity testing and analysis, data verification, and finally drafting and publishing of the report.

10. Which hotel companies participated in the Hotel Footprinting Tool?

The benchmarking data for CHSB2026 (2024 data) includes 31,500+ hotels from 33 international hotel companies:

ACCOR, Baha Mar, Banyan Group, Centara Hotels & Resorts, Chatham, citizenM, DiamondRock, Eaton DC, Electra Hotels & Resorts, FIVE Holdings, Four Seasons, Grand Central Hotels, Hilton, Hongkong & Shanghai Hotels, HPL Hotels & Resorts, Hyatt, IHG, LDC Hotels & Resorts, Loews Hotels, Mandarin Oriental, Marriott, Millennium Hotels and Resorts, Park Hotel Group, Park Hotels & Resorts, Pebblebrook, Radisson, Ryman, Six Senses, The Ascott Limited, The Ranch at Laguna Beach, Xenia Hotels & Resorts

11. How often is the data refreshed?

Data sets are updated annually. The next update will be available in the first quarter of 2027 with the 2025 calendar year dataset.

12. Can the data set be used to calculate emissions from previous years?

The data set is updated annually to represent the latest CHSB dataset. If users wish to make calculations for any prior years, please contact Greenview to request the data set for the prior years' figures.

Citations and Use**13. How do I cite this tool when using it in research, publications or calculations?**

Please use the following citation:

- Hotel Footprinting Tool Dataset, Version [X]. HCMI values based on [hotel type] hotel type using median values. Greenview, retrieved [Month Year].
- Example: Hotel Footprinting Tool Dataset, Version 3.0. HCMI values based on all hotel types using median values. Greenview, retrieved March 2026.

Other**14. How can I participate as a hotel to submit data for the Hotel Footprinting Tool?**

Submit data by participating in the Cornell Hotel Sustainability Benchmarking (CHSB) Index! For more information, refer to the [CHSB webpage](#) or email us at data@greenview.sg and we will send you a data collection template.

15. How can I provide feedback on the Hotel Footprinting Tool?

Please email us at info@greenview.sg and we will be happy to receive your feedback to help us improve the tool.