

Carbon Footprint 2021

The Dolder Grand



17.06.2022

This report summarizes the carbon footprint of The Dolder Grand for the year 2021. The carbon footprint is based on the internationally recognised standard 'The GHG Protocol: A Corporate Accounting and Reporting Standard' and includes the climate-relevant greenhouse gases that are under the 'operational control' of the hotel. The data for the calculations is taken from ecoinvent 3.6 and the IPCC 2013 (GWP 100a). The total greenhouse gas emissions account for amount to 2'843 t CO₂e (Tab. 1). The greenhouse gas emissions already offset account for 2'401 t CO₂e. Fig. 1 additionally illustrates the emissions associated with different food products.

	(t CO ₂ e)	%
Purchased Electricity	128.7	5%
Heating and Cooling	469.5	17%
Employee Commuting	483.9	17%
Business Travel	55.3	2%
Fuel Consumption	57.4	2%
Transport (3rd Parties)	0.0	0%
Food & Beverages	1'255.3	44%
Administration	23.4	1%
Toiletries and Detergents	59.4	2%
External Laundry Service	219.8	8%
Waste and Recycling	90.4	3%
Total	2'843.1	100%

Tab. 1: Greenhouse gas emissions divided into different categories.

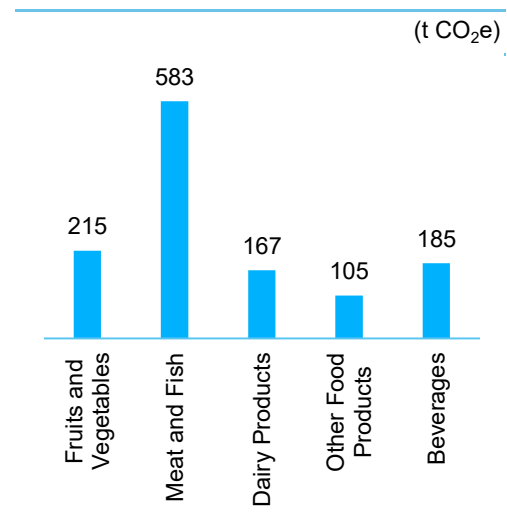


Fig. 1: Emissions from different food products.

The hotel operations itself account for 2'589 t CO₂e in 2021. Further emissions occur due to events which account for 254 t CO₂e. The following numbers illustrate the emissions per overnight stay, as well as per event and guest:

Greenhouse gas emissions per overnight stay: 46.4 kg CO ₂ e
Greenhouse gas emissions per event and guest: 7.5 kg CO ₂ e

Greenhouse gas emissions are assigned to the three scopes below. A distinction is made between where the emissions occur - at the hotel itself or in upstream or downstream processes for manufacturing and transporting goods:

Scope 1: Includes all direct emissions from owned or controlled sources, such as business travels in company cars or the combustion of fuels in heating systems.

Scope 2: Includes all indirect emissions from the production of purchased energy consumed by the

Scope 3: Includes all other indirect emissions resulting for example from purchasing food products.

Scope 1, 2 and 3 accounted for 15%, 0% and 85% of the total greenhouse gas emissions.

	(t CO ₂ e)	(%)
Scope 1	414.9	15%
Scope 2	0.2	0%
Scope 3	2'428.1	85%
Total	2'843.1	100%

Tab. 2: The three scopes according to the GHG Protocol.

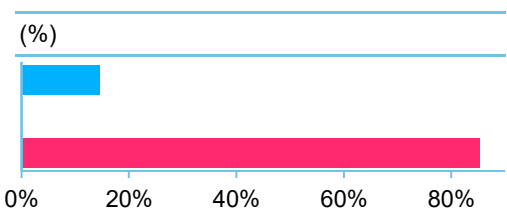


Fig. 2: Percentage per scope of total emissions.