

Optima Pharmazeutische GmbH / Optima Medical Swiss AG

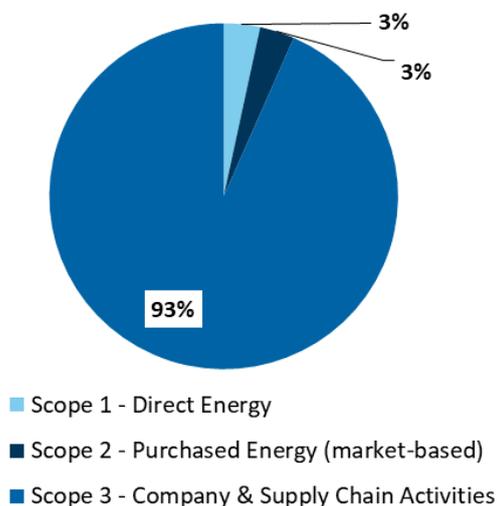
Carbon Footprint Report 2017

Management Summary

Project Target: The project target was to calculate a Corporate Carbon Footprint of Optima Pharmazeutische GmbH and Optima Medical Swiss AG (“Optima”). Covered are direct emissions from own facilities, own vehicles and purchased energy, as well as indirect emissions along the value chain. Due to the preliminary internal work by Optima, it was possible to speed up the process of data gathering and calculation. This has been supported by the holistic DFGE TopDown approach, based on DFGE’s project experiences and combined with mathematical methods.

Optima - Carbon Footprint 2017: The Carbon Footprint for Optima was assessed via a complete analysis considering the selected inventory boundaries. The calculation is based on the methodology of the Greenhouse Gas Protocol (GHG Protocol)¹ and covers all relevant Scope 1, 2 and 3 emissions.

The estimated total Carbon Footprint amounts to **500 t CO₂e** (calendar year 2016).



Scope	Value	Unit
Scope 1 total	17	t CO ₂ e
Scope 2 total	16	t CO ₂ e
Scope 3 total	467	t CO ₂ e
Total CF	500	t CO₂e

¹ Standards available at <http://www.ghgprotocol.org/standards/> (Nov 17)

Optima– carbon intensity. Based on the data provided by Optima for in the year 2016, the following emission intensity metrics have been calculated:

Intensity metric	Value	Unit
Emissions per unit sold	0.093	kg CO ₂ e/Unit
Emissions per FTE	49.96	t CO ₂ e/FTE
Emissions per floor area	0.63	t CO ₂ e/m ²

Data quality rating: The quality of used input data is rated by DFGE experts based on qualitative indicators defined by the GHG protocol. For the different balance groups, an error analysis is performed, including an estimation of the bandwidth in which the actual value is located. Results are then aggregated using mathematical methods.

The resulting data quality rating for the overall result is **“Good”**, corresponding to a bandwidth of **+/- 5-15%**

All greenhouse gas emission amounts are calculated in CO₂-equivalents (CO₂e). All results are based on the information provided by Optima and should be considered preliminary. DFGE recommends conducting further investigation to improve data quality.

The methodological background, detailed values for all categories, used data sources and a detailed data quality assessment are presented in the detailed Carbon Footprint report.



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