

# Optima Pharmazeutische GmbH and Optima Medical Swiss AG

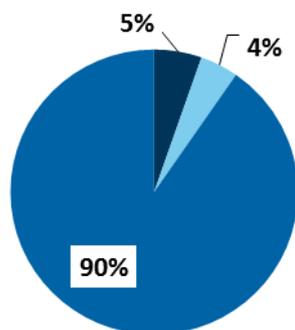
## Carbon Footprint Report 2015

### Management Summary

**Project Target.** The project target was to calculate an updated 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 in data gathering and calculation. This has been supported by the holistic DFGE TopDown<sup>1</sup> approach, based on DFGE’s project experiences and combined with mathematic methods.

**Optima - Carbon Footprint 2015.** The Carbon Footprint for Optima was appraised via a complete analysis considering the selected balance boundaries. The calculation is based on the methodology of the Greenhouse Gas Protocol (GHG Protocol)<sup>2</sup> and covers all relevant Scope 1, 2 and 3 emissions.

The estimated total Carbon Footprint is **381 t CO<sub>2</sub>e** (calendar year 2014).



- Scope 1 - Direct Energy
- Scope 2 - Purchased Energy (location-based)
- Scope 3 - Company & Supply Chain Activities

Scope	Value	Unit
Scope 1 total	20	t CO <sub>2</sub> e
Scope 2 total	16	t CO <sub>2</sub> e
Scope 3 total	344	t CO <sub>2</sub> e
<b>Total CF</b>	<b>381</b>	<b>t CO<sub>2</sub>e</b>

<sup>1</sup> See DFGE, 2013

<sup>2</sup> Standards available at <http://www.ghgprotocol.org/standards/> (Jan 14)

**Optima – carbon intensity.** Based on the data provided by Optima regarding units of product sold in the year 2014, the following emission intensity metric has been calculated:

Intensity metric	Value	Unit
Emissions per unit sold	0.120	kg CO <sub>2</sub> e / unit

**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 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 CO<sub>2</sub>-equivalents (CO<sub>2</sub>e). 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 final Carbon Footprint report.



This document was submitted by:  
 DFGE – Institute for Energy, Ecology and Economy  
 Kreitstr. 5, 86926 Greifenberg, Germany  
 T. +49.8192.99733-20 / F. +49.8192.99733-29  
 info@dfge.de  
 www.dfge.de

The DFGE – Institute for Energy, Ecology and Economy provides consulting and auditing services to realize a Green Vision integrated in corporate business processes. Strategic advice on topics like technology, energy and emissions is expanded to business related and socio-economic aspects. Services range from consultancy in developing and managing customized analysis for testified Carbon footprints to validation of analysis methods and results for sustainable accuracy. As independent Institute DFGE’s work is based on advanced scientific and research methods and institutionalized standards.

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