Institute for Energy, Ecology and Economy

Carbon Footprint Analysis 2014
Optima Pharmazeutische GmbH and Optima Medical Swiss AG

- Management Summary -

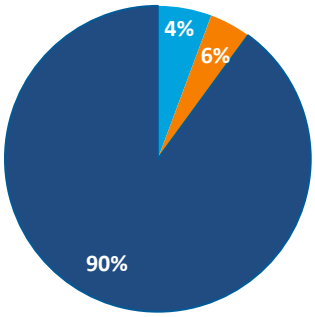
Version 2.0, November 2014

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[1] approach, based on DFGE's project experiences and combined with mathematic methods.

Data collection in the cloud. Beside the manual analysis of data, the web-based environmental tool FridaCarb[2] was implemented to improve data quality and accuracy. Strategically, this approach allows an even more integrated and distributed collection of environmental data, enabling the engagement of employees as well as partners to identify GHG emissions and report the respective data.

Optima - Carbon Footprint 2014. 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)[3] and covers all relevant Scope 1, 2 and 3 emissions.

The estimated total Carbon Footprint is **383 t CO2e** (calendar year 2013).



Scope	Value	Unit
Scope 1 total	22	t CO_2e
Scope 2 total	17	t CO_2e
Scope 3 total	344	t CO_2e
Total CF	**383**	**t CO_2e**

Scope 1 - direct emissions

Scope 2 - indirect emissions from purchased energy

Scope 3 - other indirect emissions

[1] See DFGE, 2013
[2] Available at http://fc.dfge.de/
[3] 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 2012, the following emission intensity metric has been calculated:

Intensity metric	Value	Unit
Emissions per unit sold	0.124	kg CO_2e / 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_2-equivalents (CO_2e). 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.

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