

Executive Summary of Avnet's Carbon Footprint Analysis 2014

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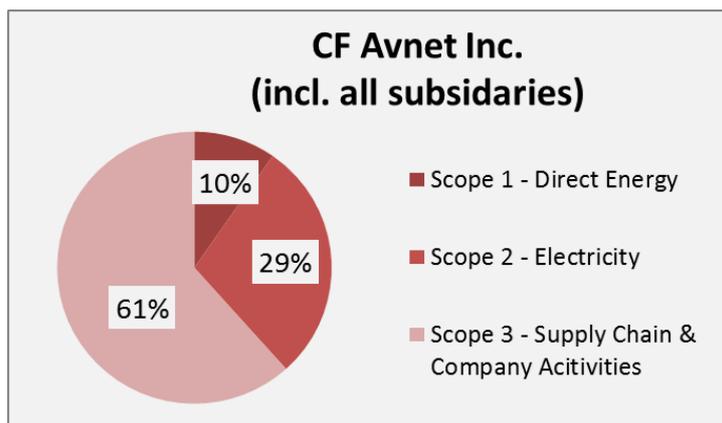
Project Target. The project target was to update and hone the approximate corporate carbon footprint for Avnet Inc. including all subsidiaries on a global basis based on the first carbon footprint study in 2010 for 2009 and the yearly updates since 2011. The report followed the proven process from the previous years with a pragmatic but comprehensive approach which combines public available as well as selected internal data. Due to the preliminary work it was possible to speed up the process in data gathering and calculation. This has been achieved by the holistic methodological TopDown¹ approach, based on experiences of DFGE and combined with mathematic methods following highly reliable estimates based on industry-proven algorithms.

Data Collection in the Cloud. Also in 2014 the data collection was supported via an integrated web-interface for environmental data collection hosted by the DFGE called "FridaCarb". This strategic approach allows an even more integrated and global distributed collection of environmental data to engage employees and to identify GHG emissions. This platform supports Avnet's Going Green and Green Council initiatives by providing an easy to use web-platform to track and measure emissions on a facility, regional and global basis.

The following summary of the high level results of Avnet's Carbon Footprint analysis show the main figures per balance group. The methodological background and the balance groups in details will be explained in the respective final report.

Avnet's Carbon Footprint 2014. The Carbon Footprint for Avnet was appraised via a TopDown analysis. Focusing on items of big importance, the "sensitive elements", the input data are based on confidential internal data, confirmed by former surveys for specific Avnet locations, completed by Avnet publications and verified by published default values of comparable industries and standards considering the different balance boundaries. The estimated total Carbon Footprint for Avnet's international activities is **200.869 t CO_{2e}** (CY 2013):

¹ See also http://www.dfge.de/wp-content/uploads/2012/03/DFGE_CF_TopDown-Approach_Mar2012.pdf



Confidence Belt. Results are verified by an error analysis for statistical data, the “corrected standard deviation”, including calculation of variants for the particular balance levels. This leads to a bandwidth for each balance level that includes the real Carbon Footprint. Overall the total deviation is +/- 9,3%.

Comparison with Avnet’s CF 2013 (covering CY 2012). The actual study covers the calendar year 2013. Compared to the last year’s study Avnet’s CF increased from 199,5 kt to this year 200,8 kt CO_{2e}. Due to a better data collection for all major locations (more granular, better allocation of energy data to the respective source), a clear allocation on thermal energy and electricity emissions was possible. The CF divides into the following balance levels indicating also the changes of the values compared to last year’s study:

Changes in absolute values rounded off to whole numbers Balance group	2014 (CY 2013) Results [1000t CO ₂ eq]	2013 (CY 2012)	Change (12/13)
Scope 1 - Energy	19,418	45,856	-58%
Scope 2 – Electricity	57,638	28,752	100%
Scope 3 – Purchased Goods & Services	7,301	10,064	-27%
Scope 3 – Capital Goods	20,168	16,858	20%
Scope 3 – Waste	7,200	7,450	-3%
Scope 3 – Business Travel	16,652	18,371	-9%
Scope 3 – Commuting	38,276	39,806	-4%
Scope 3 – Transportation	34,216	32,343	-6%
Total	200,8	199,5	0,1%

Avnet’s Key factors. Following key factors (totals) show Avnet’s evolution in the past 12 months and compares the results as well as the bandwidth.

Key factor	2014 (covering CY 2013)	2013 (covering CY2012)	Change ² (13/14)
Employees	18.000 employees	18.624 employees	-3,4%
Surface	734.796 m ² / 7,9 bn sqft	734.796 m ² / 7,9 bn sqft	0%
Carbon Footprint	200.869 t CO ₂ eq	199.500 t CO ₂ eq	0,1%
Bandwidth	+/- 9,3 %	+/- 9,3 %	0%
CF / Employee	11,16 t CO _{2e} /Employee	10,71 t CO _{2e} /Employee	4,2%
CF / Revenue	7,53 t CO _{2e} /k USD	7,93 t CO _{2e} /k USD	-5,1%
CF / Surface	0,272 t CO _{2e} /m ²	0,272 t CO _{2e} /m ²	0%

Avnet again achieved a CF reduction based on revenue of more than 5%. This demonstrates the continuous improvement in efficiency and organization. However the efforts in sustainability measures and initiatives should be continued and further developed.

All CO₂-Values are calculated in CO₂-equivalents CO_{2e}. The full and final results can be found in the extended report.

Munich/Germany, December 2014

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 footprint 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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² The percent change is rounded to one decimal place. Exact numbers are provided in the Final Report.