

Executive Summary of Avnet's Carbon Footprint Analysis 2013

Summary Version, June '13

Project Target. The project target was to update and hone the approximate corporate carbon footprint based on the first carbon footprint study in 2010 and the updates in 2011 and 2012. 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.

Data Collection in the Cloud. Also in 2013 the data collection was supported via an integrated web-interface for environmental data collection hosted by the DFGE called "Avnet Green". 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 initiatives² by providing an easy to use web-platform to track and measure emissions on a facility, regional and global basis.

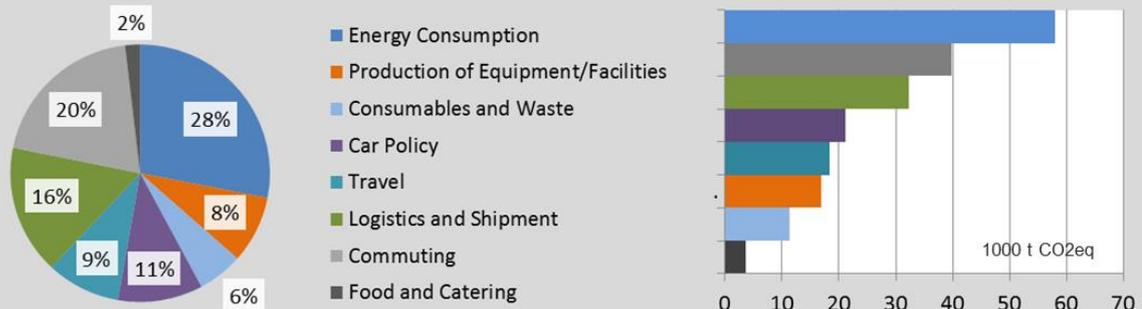
The following summary of the high level results of Avnet's Carbon Footprint analysis show the main figures per balance group. All values are preliminary and need further investigation. The methodological background and the balance groups in details will be explained in the respective final report.

Avnet's Carbon Footprint 2013. 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 **199.506 t CO_{2e}** (CY 2012):

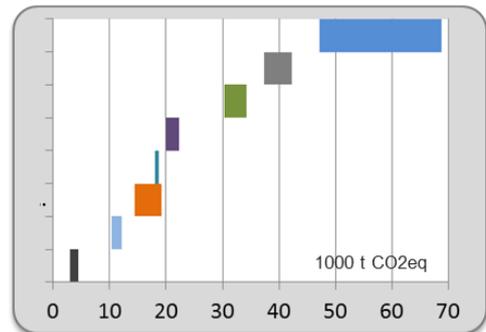
¹ See also http://www.dfge.de/wp-content/uploads/2012/03/DFGE_CF_TopDown-Approach_Mar2012.pdf

² See also <http://localglobalgreen.com/>

Avnet's Carbon Footprint 2013: 199 506 t CO_{2e}



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 2012. Compared to the last year's study Avnet's CF increased from 186,7 kt to this year 199,5 kt CO_{2e}. 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	Spring 13 (CY 2012)	Spring 12 (CY 2011)	Change
Balance group	Results [1000t CO _{2e}]		(12/13)
Energy consumption of Facilities	56,01	52,73	6%
Travel to/from Work	39,81	36,81	8%
Logistics and Shipment	32,33	31,76	2%
Car Policy	21,12	19,64	8%
Travel	18,37	17,54	5%
Production of Equipment/Facilities	16,86	14,24	18%
Consumables and Waste	11,28	10,55	7%
Food and Catering	3,72	3,48	7%
Total	199,5	186,7	6,9%

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	Spring 2013 (covering CY 2012)	Spring 2012 (covering CY 2011)	Change ³ (12/13)
Employees	18.624 employees	17.414 employees	6,9%
Surface	734.796 m ² / 7,9 bn sqft	619.050 m ² / 6,6 bn sqft	18,7%
Carbon Footprint	199.500 t CO ₂ eq	186.700 t CO ₂ eq	6,9%
Bandwidth	+/- 9,32 %	+/- 9,80 %	-4,9%
CF / Employee	10,71 t CO _{2e} /Employee	10,72 t CO _{2e} /Employee	-0,1%
CF / Revenue	7,93 t CO _{2e} /k USD	6,99 t CO _{2e} /k USD	13,5%
CF / Surface	0,272 t CO _{2e} /m ²	0,302 t CO _{2e} /m ²	-10,1%

It's remarkable, that Avnet managed in 2013, to increase the location surfaces (+18,7%) with only 6,9% increase in the CF. 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 results are preliminary and need further investigation in detail.

Munich/Germany, June 2013

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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³ The percent change is rounded to one decimal place. Exact numbers are provided in the Final Report.