

Greenhouse Gas Emissions VAUDE Premises 2016 German Headquarters										
Year	2016									
				SCOPE 1	SCOPE 2	SCOPE 3	Source	Change in consumption from the previous year	Change in emissions from the previous year	
	Unit	Value								Reference Year Data
General Operating Data										
Number of employees (without apprentices)	[Persons]	529						13,3%		2016
Number of work days per year (per full-time position)	[Days Worked]	220						0,0%	-	2016
Operational space	[m2]	23.008						21,8%	-	2016
Page views of VAUDE Websites	Unit	Value	GHG							
Total			104,56			104,56				
		Amount	GHG							Reference Year Data
	Unit	[kWh]	[t CO2e]							
Energy	Unit	[kWh]	[t CO2e]							
Green energy (Label in Commentfeld angeben) Vaude-Str. 2	[kWh]	374.247	5,50			5,50	ecoinvent 2.2 electricity, low voltage, certified electricity, at grid	-6,9%	-6,9%	2016
Green energy, Siggenweilerstr. 25	[kWh]	61.592	0,91			0,91	ecoinvent 2.2, electricity, low voltage, certified electricity, at grid	1,9%	1,9%	2016

Company-generated, consumed energy VAUDE Str.	[kWh]	224.785	3,30			3,30		-6,6%	-6,6%	2016
Energy consumption, Amtzell/Manufaktur	[kWh]	91.925	35,48		29,57	5,91	EnBW- company mix:322g CO2/kWh, plus surcharge of 20% for provision of infrastructure	-16,7%	-16,7%	2016
Heating oil	[kWh]	0	0,00				ecoinvent 2.2: light fuel oil, burned in boiler	-100,0%	-100,0%	2016
Biogas, Vaude Str. 2	[kWh]	1.010.013	32,32		1,01	31,31	myclimate calculation based on ecoinvent 2.2	#DIV/0!	#DIV/0!	2016
Natural gas, Vaude Str. 2	[kWh]	0	0,00				ecoinvent 2.2, Exergie / heat, at cogen with biogas engine, allocation exergy	-100,0%	-100,0%	2016
Biogas, Siggenweilerstr. 25	[kWh]	36507	1,17		0,04	1,13	myclimate calculation based on ecoinvent 2.2	#BEZUG!	#DIV/0!	2016
Natural gas, Siggenweilerstr. 25	[kWh]	0	0,00				ecoinvent 2.2, Exergie / heat, at cogen with biogas engine, allocation exergy	-100,0%	-100,0%	2016
Heating energy, Amtzell (Gas)	[kWh]	93.975	4,14	0,19		3,95	ecoinvent 2.2, Exergie / heat, at cogen with biogas engine, allocation exergy			2016

Total		1.893.043	82,82	0,19	30,62	52,01		-1,2%	-32,0%	
Wasser										
Water consumption, Vaude Str. 2	[m3]	2.135	0,68			0,68	ecoinvent 2.2, tap water, at user RER	-2,4%	-2,4%	2016
Water consumption, Siggenweilerstr. 25	[m3]	403	0,13			0,13	ecoinvent 2.2, tap water, at user RER	11,6%	11,6%	2016
Rain water consumption	[m3]	230	0,00			0,00	-	42,9%		2016
Total		2.538	0,81			0,81		-4%	-4%	
	Distance	Fuel Consumption	GHG							Reference Year Data
	[km]	[L petrol/diesel resp. kg gas resp. kWh]	[t CO2e]							
Business travel and commuting company owned vehicles										
	Distance		GHG							Reference Year Data
	[km]	Liter	[t CO2e]							

Business travel and commuting							ecoinvent 2.2, company, passenger car petrol. fleet average RER 2010 + Infrastructure: ecoinvent 2.2: transport, passenger car, petrol, fleet average, RER, [pkm]; without emissions from fuel			
Bus (Shuttle)	-	-	-					-	-	
Passenger cars, petrol		4.498	16,37	10,8		5,6	ecoinvent 2.2: transport, passenger car, petrol, fleet average, RER, [pkm]; without emissions from fuel	40,3%	40,3%	2016
Passenger cars, diesel		168.072	663,55	448,8		214,8	ecoinvent 2.2: transport, passenger car, diesel, fleet average 2010, RER, [pkm]; without emissions from fuel	-1,1%	-1,1%	2016

Passenger cars, liquid petroleum gas (LPG)	kg	792 kg	6,77	3,6		3,2	IPCC 2006 + ecoinvent 2.2: transport, passenger car, natural gas	-25,0%	-25,0%	2016
Total	0,0	173.362,0	686,7	463,1	0,0	223,6		-0,4%	-0,7%	
	Distance		GHG							Reference Year Data
	[km]		[t CO2e]							
Commuting and business travel with other vehicles										
Commuting	[km]		[t CO2e]							
By foot / bicycle	45.238		0,43			0,43	ecoinvent 2.2 transport, bike	-13,4%	-13,4%	2016
Bus	1.940		0,20			0,20	ecoinvent 2.2, transport, regular bus	-17,1%	-17,1%	2016
Passenger cars. 5 - 8 L / 100 km	1.232.297		357,35			357,35	ecoinvent 2.2 transport, car	-21,2%	-21,2%	2016
Total	1.279.475		357,98			357,98		-21,0%	-21,2%	

Business travel (excl. deliveries)										
Train / Tram	45.700		3,11			3,11	ecoinvent 2.2, average of transport, high speed train, DE, [pkm] + transport, average train, DE	-	-22,9%	
Coach transport	182		0,01			0,01	myclimate-calculations			
Air	1.078.226		211,08			211,08	myc internal flight calculator (documentation : http://www.myclimate.org/fileadmin/myc/files_myc_perf/12_flight_calculator_documentation_EN.pdf)	-	37,2%	
Total	1.124.108,00		214,20			214,20			+35,6%	
		Amount	GHG							Reference Year Data
	Unit		[t CO2e]							
Consumables										
Paper consumption recycling	[t]	15,82	12,97			12,97	ecoinvent 2.2, recycled paper, without deinking, ex works	62,4%	53,3%	2016

Toner	[piece]	111	1,10			1,10	ecoinvent 2.2, toner module, laser jet, b/w, at plant, GLO [unit]	-38,7%	-38,7%	2016
Number of replaced/new monitors	[piece]	118	39,69			39,69	ecoinvent 2.2: LCD flat screen, 17 inches	247,1%	247,1%	2016
Number of replaced/new laptops	[piece]	61	12,79			12,79	ecoinvent 2.2: laptop computer	-7,6%	-7,6%	2016
Number of new graphic tablets		1	0,01			0,01	ecoinvent 2.2: HDD, laptop computer, at plant, specific weight			
Number of replaced/new printers	[piece]	17	1,13			1,13	ecoinvent 2.2: printer, laser jet	-5,6%	-5,6%	2016
PC mouse	[piece]	43	0,22			0,22	ecoinvent 2.2: mouse device, optical, with cable, at plant	7,5%	7,5%	2016
Smartphones	[piece]	26	0,56			0,56	ecoinvent 2.2: desktop computer, without screen, at plant, GLO, estimation: specific weight	-70,8%	-70,8%	2016
Projectors	[piece]	1	0,12			0,12	ecoinvent 2.2: desktop computer, without screen, at plant, GLO, estimation: specific weight	-90,0%	-90,0%	2016
Network switch	[piece]	1	0,03			0,03	ecoinvent 2.2: router, IP network, at server, estimation: this device	-95,7%	-95,7%	2016

Barcode scanner	[piece]	2	0,01			0,01	ecoinvent 2.2: desktop computer, without screen, at plant, GLO, estimation: specific weight	-		2016
Headsets	[piece]	3	0,00			0,00	ecoinvent 2.2: copper cable PE insulation, estimation: specific weight	-76,9%	-76,9%	2016
Internal harddrives		115	1,42			1,42	ecoinvent 2.2: HDD, laptop computer, at plant, specific weight			
External harddrives	[piece]	1	0,01			0,01	ecoinvent 2.2: HDD, laptop computer, at plant, specific weight	0,0%	0,0%	2016
Smartphones	[piece]	34	1,38			1,38	iPhone 4 Apple, without use	-34,6%	-34,6%	2016
Keyboards	[piece]	47	1,21			1,21	ecoinvent 2.2: keyboard, standard version, at plant	56,7%	56,7%	2016
Total			72,68			72,68			31,3%	
Printed materials, third-party (flyers, compa										
on fresh fiber paper	[t]	0,34	0,99			0,99	myc data, based on print sector solution	-49,5%	-49,5%	2015
on recycled paper	[t]	15,56	34,64			34,64	myc data, based on print sector solution	-55,6%	-55,6%	2015
FSC Mix	(t)	4,65	11,94			11,94	myc data, based on print sector solution	#DIV/0!	#DIV/0!	
Total		15,91	47,57			47,57		-55,5%	-40,5%	

Material Production		[t]	[t CO2e]							
Total		141,69	922,98			922,98		-13,1%	-15,5%	
Material misc. consumption		[t]	[t CO2e]							
Cardboard packaging, new	[t]	248,28	233,51			233,51	ecoinvent 2.2: corrugated board, mixed fiber single-wall, ex works, disposal recycling	-2,2%	-2,2%	2016
LLDPE stretch wrap	[t]	4,59	26,16			26,16	ecoinvent 2.2: approximated with packing wrap LDPE, ex works + disposal (KVA)	28,7%	28,7%	2016
LDPE wrap	[t]	3,50	19,95			19,95	ecoinvent 2.2: packing wrap LDPE, ex work + disposal KVA	82,9%	82,9%	2016
Misc. wrap, not LDPE	[t]	2,26	12,29			12,29	ecoinvent 2.2: middle value, polyester granulate + film extrusion + KVA and polypropylene granulate + forms + KVA	90,9%	90,9%	2016

Lighting (item)	[Stück]	1.122	0,99			0,99	compact fluorescent lamp, study OSRAM_LED_LCA_Summary November 20	220,6%	220,6%	2016
Total			292,90			292,90		#DIV/0!	+5,8%	
Waste										
Waste [t] (residual waste only)	[t]	307,3	14,94			14,94	ecoinvent 2.2, disposal, municipal waste, 22.9% water, refuse incineration	-29,0%	-29,0%	2016
Waste water, Vaude Str. 2 [m3]	[m³]	2.365	0,92			0,92	ecoinvent 2.2, treatment, sewage, to wastewater treatment, class 3	0,7%	0,7%	2016
Waste water, Siggenweilerstr. 25 [m3]	[m³]	403	0,16			0,16	ecoinvent 2.2, treatment, sewage, to wastewater treatment, class 3	11,6%	11,6%	2016
Total			16,0	0,0	0,0	16,0			-27,5%	

	Value		GHG							Reference Year Data
			[t CO2e]							
Hotel accommodation										
Hotel accommodation 2*-hotels	461		4,61			4,61	myc data, estimation based on hotel sector solution	352,0%	352,0%	2016
Hotel accommodation in 3*-hotels	138		2,76			2,76	myc data, estimation based on hotel sector solution	-79,4%	-79,4%	2016
Hotel accommodation in 4*-hotels	167		8,35			8,35	myc data, estimation based on hotel sector solution	-44,3%	-44,3%	2016
Hotel accommodation in 5*-hotels	6		0,18			0,18	myc data, estimation based on hotel sector solution	-87,2%	-87,2%	2016
Total	772		15,90			15,90		-31,1%	-48,5%	-
	Weight per year	total GHG	GHG							Reference year dates
	[t]	[t CO2e]	[t CO2e]							
Deliveries	[t]	[t CO2e]	[t CO2e]							
Truck freight 16 - 32t		454,26	17,17			454,26	emissions report various logistics providers		6,9%	2016
Ocean freight		7,46	0,28			7,5	emissions report Dachser		-56,3%	2016

Air freight		70,27	2,66			70,3	emissions report various logistics providers		-31,0%	2016
Total		531,99	20,11			531,99			-2,2%	
Deliveries	Weight per year	Total GHG	GHG							Reference year data
	[t]	[t CO2e]	[t CO2e]							
Truck freight 16 - 32t		34,5	1,31			34,5	ecoinvent 2.2, transport, lorry 16-32t, EURO4, as well as emissions reports from various logistics providers		-67,4%	2016
Rail freight Europe		24,74	0,94			24,7	emissions report Dachser		-7,0%	2016
Ocean freight		143,8	5,43			143,8	emissions reports from various logistics providers		-81,6%	2016
Air freight		1.366,2	51,63			1.366,2	emissions reports from various logistics providers		137,7%	2016
Total		1.569,2	59,3	0,0	0,0	1.569,2			5,5%	
Total Emissionen (t CO2e)			4.916,3	463,30	30,62	4422,39			-2,0%	
% per Scope			100,0	9%	1%	90%				
minus transport emissions (goods not produced in OEB)			-2.021,8			-2.021,8				

Total emissions Obereisenbach headquarters (t CO2e)			2.894,5	463,30	30,62	2.400,6			-5,8%	
Total CO2 compensation			2.894,5						-5,8%	