

Green House Gas Emissions VAUDE Obereisenbach (Headquater)

year	2012					2013								
				Change of consumption in %	Change of emissions in %				SCOPE 1	SCOPE 2	SCOPE 3	Data source	Change of consumption in %	Change of emissions in %
	unit	value				unit	value							
general company data														
number of employees	[persons]	476		-2,1%	-	[persons]	474						-0,4%	
number of workdays per year (per full time position)	[work days]	220		-0,5%	-	[work days]	220						0,0%	-
company area	[m2]	18.797		0,0%	-	[m2]	18.897						0,5%	-
	unit	value	GHG			unit	value	GHG						
		[kWh]	[t CO2e]				[kWh]	[t CO2e]						
energy														
renewable power (label see comment) Vaude-Str. 2	[kWh]	570.019	8,38	-4,2%	-4,2%	[kWh]	512.526	7,53	0,00	0,00	7,53	ecoinvent 2.2 electricity, low voltage, certified electricity, at grid	-10,1%	-10,1%
renewable power (label see comment) Siggenweilerstr. 25						[kWh]	61.980	0,91	0,00	0,00	0,91	ecoinvent 2.2, electricity, low voltage, certified electricity, at grid	#DIV/0!	#DIV/0!
natural gasVaude Str. 2	[kWh]	908.451	228,93	+51,5%	+51,5%	[kWh]	1.095.118	275,97	221,21	0,00	54,76	ecoinvent 2.2, natural gas, burned in industrial furnace	20,5%	20,5%
natural gas Siggenweilerstr. 25						[kWh]	55.035	13,87	11,12	0,00	2,75	ecoinvent 2.2, natural gas, burned in industrial furnace	#DIV/0!	#DIV/0!
total		1.478.470,00	237,31	+22,5%	+19,4%		1.724.659	298,28	232,33	0,00	65,95		16,7%	25,7%
water														
water consumption Vaude Str. 2	[m3]	2.194	0,70	+18,9%	+123,2%	[m3]	1.919	0,61			0,61	ecoinvent 2.2, tap water, at user RER	-12,5%	-12,5%
water consumption Siggenweilerstr. 25						[m3]	365	0,12			0,12	ecoinvent 2.2, tap water, at user RER	#DIV/0!	#DIV/0!
total		2.194,00	0,70	+18,9%	+123,2%		2.284	0,73			0,73		+4,1%	+4,1%

	distance [km]	fuel consumption [L petrol/diesel resp. kg gas resp. kWh]	GHG [t CO2e]			distance [km]	fuel consumption [L petrol/diesel resp. kg gas resp.]	GHG [t CO2e]						
business trips and commuting company														
	distance [km]		GHG [t CO2e]			distance [km]		GHG [t CO2e]						
business trips and commuting									3,2	0,0	1,7	ecoinvent 2.2: transport, passenger car, petrol, fleet average, RER, [pkm]; without emissions from fuel		
cars, petrol	57742,85714	4.042	14,83	-50,8%	-50,8%	27.000,0	3.966,0	4,9	3,2		1,7	ecoinvent 2.2: transport, passenger car, petrol, fleet average, RER, [pkm]; without emissions from fuel	-1,9%	-67,2%
cars, diesel	2391171,429	167.382	641,54	2,5%	2,5%	2.341.262,0	166.988,7	659,3	445,9		213,4	ecoinvent 2.2: transport, passenger car, diesel, fleet average 2010, RER, [pkm]; without emissions from fuel	-0,2%	2,8%
cars, gas (LPG)	nan	924	4,00	-14,3%	-14,4%	nan	1.452,0	12,4	6,5		5,9	IPCC 2006 + ecoinvent 2.2: transport, passenger car, natural gas	57,1%	210,2%
total	2.448.914,29	172.348,00	660,37	-0,1%	0,0%	2.368.262,0	172.406,7	676,5	455,6	0,0	220,9		0,0%	2,4%
	distance [km]		GHG [t CO2e]			distance [km]		GHG [t CO2e]						
commuting and business travel with other vehicles														
commuting						[km]		[t CO2e]						
foot / bike	45.690	-	0,44	-	+8,1%	46.849	-	0,45			0,45	ecoinvent 2.2 Transport, Fahrrad	-	2,5%
bus	-	-	-	-	-	13.694	-	1,43			1,42951666	ecoinvent 2.2, transport, regular bus	-	-
cars, 5 - 8 L / 100 km	2.827.006	-	684,57	-	-6,7%	1.871.954	-	542,84			542,84	ecoinvent 2.2 Transport, PKW	-	-20,7%
total	2.872.696,00		685,01		-6,7%	1.932.497		544,71			544,71		-32,7%	-20,5%
business trips (excl. delivery)														
foot / bike	-	-	-	-		-	-	-					-	
bus	-	-	-	-	-	-	-	-					-	-
trains	29.003	-	1,98	-	45,4%		-	2,28			2,28	ecoinvent 2.2, average of transport, high speed train, DE, [pkm] + transport, average train, DE	-	15,2%
motorcycle	-	-	-	-	-	-	-	-					-	-

cars, < 5 L / 100 km	-	-	-	-	-	-	-	-					-	-
cars, 5 - 8 L / 100 km	-	-	-	-	-	-	-	-					-	-
cars, > 8 L / 100 km	-	-	-	-	-	-	-	-					-	-
airplane	nan.	-	149,81	-	-6,0%		-	160,19			160,19	myc internal flight calculator (documentation: http://www.myclimate.org/fileadmin/myc/files_myc_perfl12_flight_calculator_documentation_EN.pdf)	-	6,9%
total	29.003		151,79		-5,6%	0,00		162,47			162,47			+7,0%
	weight		GHG			unit	value	GHG						
	[t]		[t CO2e]					[t CO2e]						
consumables														
paper consumption virgin fibre	0,00	-	0,00	-100,0%	-100,0%	[t]								
paper consumption FSC-mix	0,16		0,17	-	-	[t]								
paper consumption recycled	11,89	-	10,33	15,8%	15,8%	[t]	10,57	9,18			9,18	ecoinvent 2.2, paper, Recycling-, without Deinking,	-11,1%	-11,1%
toner	0,00	-	0,00	-100,0%	-100,0%	[pieces]								
number of replaced / newly bought desktop computer	28	-	7,58	-26,3%	-26,3%	[pieces]	6	1,62			1,62	ecoinvent 2.2: desktop computer, without screen	-78,6%	-78,6%
number of replaced / newly bought thin clients	-	-	-	-	-	[pieces]							-	-
number of replaced / newly bought screens	53	-	17,83	-14,5%	-14,5%	[pieces]	24	8,07			8,07	ecoinvent 2.2: LCD flat screen, 17 inches	-54,7%	-54,7%
number of replaced / newly bought laptops	16	-	3,36	-51,5%	-51,5%	[pieces]	22	4,61			4,61	ecoinvent 2.2: laptop computer	37,5%	37,5%
number of replaced / newly bought printers	-	-	-	-	-	[pieces]							-	-
number of replaced / newly bought server	5	-	3,37	-	-	[pieces]							-	-
work place - printer						[pieces]	9	0,60			0,60	ecoinvent 2.2: mean of printer, laser jet, colour, and	-	
multifunctional - printer						[pieces]	3	3,47			3,47	ecoinvent 2.2: mean of printer, laser jet, colour, and	-	
PC-mouse						[pieces]	40	0,20			0,20	ecoinvent 2.2: mouse device, optical, with cable, at plant	-	
telefone						[pieces]	28	0,60			0,60	ecoinvent 2.2: desktop computer, without screen, at	-	
bluray-writer						[pieces]	1	0,02			0,02	ecoinvent 2.2: CD-ROM/DVD ROM drive, desktop	-	
beamer						[pieces]	1	0,12			0,12	ecoinvent 2.2: desktop computer, without screen, at	-	
Vidy-Server						[pieces]	2	0,77			0,77	ecoinvent 2.2: desktop computer, without screen, at	-	
room - camera						[pieces]	1	0,01			0,01	ecoinvent 2.2: desktop computer, without screen, at	-	
speaker						[pieces]	1	0,06			0,06	ecoinvent 2.2: desktop computer, without screen, at	-	
visualizer						[pieces]	1	0,12			0,12	ecoinvent 2.2: desktop computer, without screen, at	-	
profi-display						[pieces]	1	3,36			3,36	ecoinvent 2.2: LCD-Flachbildschirm, 17-Zoll,	-	
networkswitch						[pieces]	15	0,46			0,46	ecoinvent 2.2: router, IP network, at server,	-	
barcode scanner						[pieces]	2	0,01			0,01	ecoinvent 2.2: desktop computer, without screen, at	-	
headsets						[pieces]	15	0,01			0,01	ecoinvent 2.2: Kupferkabel PE Isolation, estimation:	-	
docking-station						[pieces]	3	0,08			0,08	ecoinvent 2.2: desktop computer, without screen, at	-	

external hard disk						[pieces]	2	0,02			0,02	ecoinvent 2.2: HDD, laptop computer, at plant, specific	-	
scanner						[pieces]	1	0,10			0,10	ecoinvent 2.2: desktop computer, without screen, at	-	
smartphones						[pieces]	13	0,53			0,53	iPhone 4 Apple, without use	-	
keyboard						[pieces]	27	0,70			0,70	ecoinvent 2.2: keyboard, standard version, at plant	-	
total	114,05		42,63	-20,8%	-20,7%			34,75			34,75			-18,5%
print products, external														
virgin fibre	35,84	-	89,97	-87,8%	-89,0%	[t]	0,31	0,88			0,88	myc data, based on print sector solution	-99,1%	-99,0%
recycled paper	28,70	-	63,89	+15669,2%	+15670,5%	[t]	43,76	97,41			97,41	myc data, based on print sector solution	+52,5%	52,5%
climate nutral printed	-	-	-	-	-	[t]	0,00	0,00			0,00	myc data, based on print sector solution	-	-
total	64,54		153,86	-78,0%	-81,2%		44,06	98,29			98,29		-31,7%	-36,1%
material production							[t]	[t CO2e]						
total	87,70		521,83	-25,6%	-34,1%	0,00	107,50	714,83			714,83		+22,6%	+37,0%
material consumption diverse							[t]	[t CO2e]						
cardboard boxes	269,50	-	253,47	+39,4%	+39,4%	[t]	262,90	247,26			247,26	ecoinvent 2.2: corrugated cardboard carton, mixed fibre, once corrugated, at plant, disposal: recycling	-2,4%	-2,4%
LLDPE strech foil	4,81	-	27,44	+11,4%	+11,4%	[t]	5,43	30,92			30,92	ecoinvent 2.2: approximated with foil, LDPE, at plant + disposal (KVA)	12,7%	12,7%
LDPE foil	5,39		30,73	+128,8%	+128,8%	[t]	2,57	14,63			14,63	ecoinvent 2.2: foil, LDPE, at plant + disposal (KVA)	-52,4%	-52,4%
foil div not LDPE	0,70	-	3,72	-61,9%	-61,9%	[t]	2,83	15,37			15,37	ecoinvent 2.2: mean, polyester granulate + foil extrusion + KVA and polypropylen granulate + forms + KVA	305,7%	312,8%
lights (pieces)	77	-	0,07	-44,6%	-44,5%	[Stück]	77	0,07			0,07	compact fluorescent lamp, Study: OSRAM_LED_LCA_Summary_November_2009	0,0%	0,0%
total	357,40	0,00	315,43	+4,8%	+37,3%		350,72	308,25			308,25		-1,9%	-2,3%
waste														
waste [t]	382	-	18,57	-49,7%	-57,6%	[t]	679,8	33,0			33,0	ecoinvent 2.2, disposal, municipal waste, 22.9%	78,0%	78,0%
waste water Vaude Str. 2 [m3]	2.194	-	0,85	+18,9%	+19,0%	[m³]	1.919,0	0,7			0,7	ecoinvent 2.2, treatment, sewage, to wastewater	-12,5%	-12,5%

waste water Siggenweilerstr. 25 [m3]						[m³]	365,0	0,1			0,1	ecoinvent 2.2, treatment, sewage, to wastewater treatment, class 3	#DIV/0!	#DIV/0!
total	2.576,00		19,42	-1,1%	-56,4%		2.963,8	33,9	0,0	0,0	33,9		+15,1%	+74,7%
	Wert		TGH [t CO2e]			Wert		TGH [t CO2e]						
total accomodation														
total accomodation 2*-hotels	-	-	-	-	-	218	-	2,18			2,18	myc data, estimation based on hotel sector solution	-	-
total accomodation 3*-hotels	929	-	18,58	+48,6%	+48,6%	670	-	13,40			13,40	myc data, estimation based on hotel sector solution	-27,9%	-27,9%
total accomodation 4*-Hotels	398	-	19,90	-36,3%	-36,3%	179	-	8,95			8,95	myc data, estimation based on hotel sector solution	-55,0%	-55,0%
total accomodation 5*-Hotels	-	-	-	-	-	0	-						-	-
total	1.327,00		38,48	+6,2%	-12,0%	1.067		24,53			24,53		-19,6%	-36,3%
	weight per year [t]	totale GHG [t CO2e]	GHG [t CO2e]			weight per year [t]	total GHG [t CO2e]	GHG [t CO2e]						
delivery outbound						[t]	[t CO2e]	[t CO2e]						
lorry 16 - 32t	4.141,57	221,95	4,28	-	+18%	4.022	64,00	1,71			64,00	ecoinvent 2.2, transport, lorry 16-32t, EURO4	-2,9%	-71,2%
freight trains, europe	0	0,00	0	-	-	21	0,80	0,02			0,80	ecoinvent 2.2, transport, freight, rail RER	#DIV/0!	#DIV/0!
transoceanic freight ship	0	0,00	0	-	-	21	2,86	0,08			2,86	ecoinvent 2.2, transport, transoceanic freight ship	#DIV/0!	#DIV/0!
aircraft freight	3,5	33,41	0,64	-	-	6	16,16	0,43			16,16	ei V2.2: transport, aircraft, freight, intercontinental	85,1%	-51,6%
total	4.145,07	255,36	4,93		-52,0%	4.071	83,81	2,24			83,81		-1,8%	-67,2%
	weight per year [t]	total GHG [t CO2e]	GHG [t CO2e]			weight per year [t]	total GHG [t CO2e]	GHG [t CO2e]						
lorry 7.5 - 16t	23,1	1,73	0,03	-	-98%	2.754,0	5,6	0,1			5,6	ecoinvent 2.2, transport, lorry 7.5-16t, EURO4 RER	11822,1%	223,9%
lorry 16 - 32t	4853	46,83	0,90	-	-27%	1.685,6	7,0	0,2			7,0	ecoinvent 2.2, transport, lorry 16-32t, EURO4, RER	-65,3%	-85,0%
freight trains, europe	1753	47,65	0,92	-	-35%	1.224,0	46,7	1,2			46,7	ecoinvent 2.2, transport, freight, rail RER	-30,2%	-2,0%
transoceanic freight ship	1845	386,01	7,45	-	-34%	1.248,7	256,7	6,9			256,7	ecoinvent 2.2, transport, transoceanic freight ship	-32,3%	-33,5%

aircraft freight	39,8	378,70	7,31	-	-55%	55,3	682,0	18,2			682,0	ei V2.2: transport, aircraft, freight, intercontinental	38,8%	80,1%				
total	8.530,50	862,32	16,64		-50,9%	6.967,5	998,1	26,6	0,0	0,0	998,1		-18,3%	15,7%				
total emissions (t CO2e)	3943,6					-20,0%		4.008,1							687,93	0,00	3291,26	1,6%
% per scope								100,0							17%	0%	82%	
minus transportemissions products not produced in Obereisenbach)	-1095,2							-1.053,0									-1.053,0	
total emissions VAUDE Obereisenbach (t CO2e)	2.848,4					-22,7%		2.955,0							687,93	0,00	2.238,2	3,7%
minus commuting (t CO2e)	0,0							0,0										
total CO2-compensation	2848,4					-3,5%		2.955,0										3,7%