

Hanken School of Economics, Environmental and CO2 emissions results 2010-2022

Consumptions in Helsinki [1]	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Purchased electricity (kWh)	987264	958786	820764	833733	838909	707333	880744	984116	756551	848313	708327	641508	744986,6
District heating (kWh)									1578	1858	1952	2145550	1888200
Solar panel production (kWh)													40569
Water (m3)									2658	2938	1321	1053	1959,3
Paper consumption (pages)	2175000	1609708	1731921	1318799	1251506	1072240	1068500	945000	890500	761000	289000	257500	219000
Mixed waste (kg)	48010	42230	20980	18540	10130	11670	16132	16812	18900	19368	12960	12096	15844
Bio waste (kg)		18690	18690	20790	24990	23360	26278	26250	25970	26460	26670	22890	30310
Plastic (kg)												102	5500
Energy waste (kg)												5160	1700
Cardboard and carton waste (kg)									18400	17680	15000	11240	1652
Recyclebale Paper Waste (kg)									600	821		120	16461
Mixed Glass (kg)									670	960	1920	1920	2400
Metal Waste (kg)									2210	2110	2285	2080	1510
Electrical and electronic equipment WEEE (kg)												900	480

Vaasa	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Purchased electricity (kWh)	330530	316445	302916	305995	310108	287040	223405	223001	258843	265362	189196	260213	221372
Solar panel production (kWh)													42300
District heating (kWh)												898000	802630
Water (m3)												374	70,5
Mixed waste (kg)					10074	10143	8832	9798	9660	9867			7659
Bio waste (kg)												3936	3648
Energy waste (kg)	920	1282	1242	1740							6762	5589	
Cardboard and carton waste (kg)												1183	1323
Recyclebale Paper Waste (kg)	1792	1789	1707	1050	1010	988	982	724	951	1022	828	841	578
Mixed Glass (kg)												1584	1728
Metal Waste (kg)												150	120

Joint (Helsinki and Vaasa)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
IT Procurement (emissions in tCO2, Helsinki and Vaasa combined)												60,84	46,94
Employee travel (emissions in tCO2, Helsinki and Vaasa combined)									683,04	593,04	58,58	54,6	272,33
Student travel (emissions in tCO2, Helsinki and Vaasa combined)												282,01	295,97

[1] The consumption in Helsinki includes only data from Arkadiankatu 22

### Combined CO2 Emissions of Helsinki [1] and Vaasa

(tCO2 eq)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Energy (scope 2)	292	264	233	235	256	219	242	202	168	176	127	421	106
Purchased goods - IT (Scope 3)	0	0	0	0	0	0	0	0	0	0	64	61	47
Purchased goods - Paper (Scope 3)	31	16	19	6	6	6	5	5	5	4	1	2	1
Waste (scope 3)	23	21	21	22	21	11	12	9	17	20	15	17	36
Travel - Employee (scope 3)	0	0	0	0	0	0	0	0	683	593	59	55	272
Travel - Student (scope 3)	0	0	0	0	0	0	0	0	0	0	0	282	296
<b>Total</b>	<b>346</b>	<b>300</b>	<b>273</b>	<b>264</b>	<b>283</b>	<b>235</b>	<b>258</b>	<b>216</b>	<b>873</b>	<b>794</b>	<b>266</b>	<b>837</b>	<b>759</b>
<b>Total (excluding student travel)</b>	<b>346</b>	<b>300</b>	<b>273</b>	<b>264</b>	<b>283</b>	<b>235</b>	<b>258</b>	<b>216</b>	<b>873</b>	<b>794</b>	<b>266</b>	<b>555</b>	<b>463</b>

[1] The emissions in Helsinki includes only data from Arkadiankatu 22

