aebi schmidt group

TCO & Emissions Tool

Swingo Family

Technology 1

Battery Electric Drive

eSwingo 200+

Upfront costs		
Purchase price	CHF	269.000,00
Subsidies	CHF	-
Misc.	CHF	-
Upfront costs total	**CHF**	**269.000,00**
Depriciation		10,0%
Inflation		2,0%

Yearly costs		
Duty cycle		
Machine lifetyime [yrs]		12
Operation time per year [hrs]		600
Lifetime operation hours [hrs]		**7200**
Consumption		
Electric energy [€/kWh]	CHF	0,26
Energy consumption [kw]	CHF	10,00
Yearly consumption cost	**CHF**	**1.560,00**
Maintenance		
Service cost [€]	CHF	1.500,00
Yearly maintenance	**CHF**	**1.500,00**
Insurance		
Insurance cost [€/yr]	CHF	1.000,00
Total yearly insurance	**CHF**	**1.000,00**
Yearly costs total	**CHF**	**4.060,00**

Emissions	
Embodied (manufacture) (kg CO2e)	11000
Electric CO2 emissions [kg/kWh]	0
Driving yearly(kg CO2e)	**0**

Technology 2

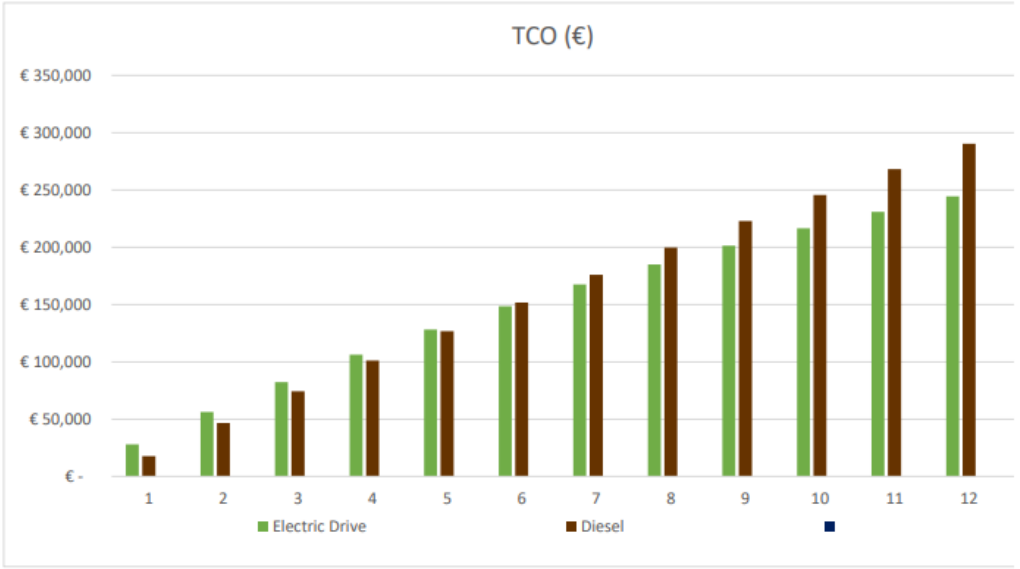
Diesel

Swingo 200+

Upfront costs		
Purchase price	CHF	167.000,00
Subsidies	CHF	-
Misc.	CHF	-
Upfront costs total	**CHF**	**167.000,00**
Depriciation		10,0%
Inflation		2,0%

Yearly costs		
Duty cycle		
Machine lifetyime [yrs]		12
Operation time per year [hrs]		600
Lifetime operation hours [hrs]		**7200**
Consumption		
Diesel / Petrol [€/l]	CHF	2,10
Fuel use [l/h]		6
Ad-blue [€/l]	CHF	0,50
Ad blue usage [l/h]	CHF	0,04
Yearly consumption cost	**CHF**	**8.160,54**
Maintenance		
Service cost [€]	CHF	4.500,00
Yearly maintenance	**CHF**	**4.500,00**
Insurance		
Insurance cost [€/yr]	CHF	1.000,00
Total yearly insurance	**CHF**	**1.000,00**
Yearly costs total	**CHF**	**13.660,54**

Emissions	
Embodied (manufacture) (kg CO2e)	8000
Diesel/Petrol CO2 emissions [kg/l]	2,65
Driving yearly(kg CO2e)	**9540**

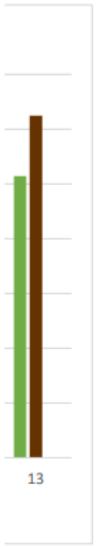


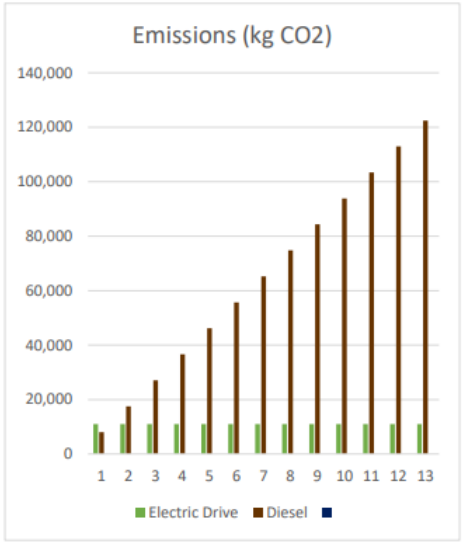
Electric Drive TCO & Emissions

Age (Yrs)	Yearly Cost	Cummulative Cost	Residual Value	TCO $	kg CO2e
0	CHF 1.000,00	CHF 270.000,00	CHF 242.100,00	**CHF 27.900,00**	11.000
1	CHF 4.141,20	CHF 274.141,20	CHF 217.890,00	**CHF 56.300,00**	11.000
2	CHF 4.224,02	CHF 278.365,22	CHF 196.101,00	**CHF 82.300,00**	11.000
3	CHF 4.308,50	CHF 282.673,73	CHF 176.490,90	**CHF 106.200,00**	11.000
4	CHF 4.394,67	CHF 287.068,40	CHF 158.841,81	**CHF 128.200,00**	11.000
5	CHF 4.482,57	CHF 291.550,97	CHF 142.957,63	**CHF 148.600,00**	11.000
6	CHF 4.572,22	CHF 296.123,19	CHF 128.661,87	**CHF 167.500,00**	11.000
7	CHF 4.663,66	CHF 300.786,85	CHF 115.795,68	**CHF 185.000,00**	11.000
8	CHF 4.756,94	CHF 305.543,79	CHF 104.216,11	**CHF 201.300,00**	11.000
9	CHF 4.852,08	CHF 310.395,87	CHF 93.794,50	**CHF 216.600,00**	11.000
10	CHF 4.949,12	CHF 315.344,98	CHF 84.415,05	**CHF 230.900,00**	11.000
11	CHF 5.048,10	CHF 320.393,08	CHF 75.973,55	**CHF 244.400,00**	11.000
12	CHF 5.149,06	CHF 325.542,15	CHF 68.376,19	**CHF 257.200,00**	11.000

Diesel TCO & Emissio

Age (Yrs)	Yearly Cost
0	CHF 1.000,00
1	CHF 13.933,75
2	CHF 14.212,43
3	CHF 14.496,67
4	CHF 14.786,61
5	CHF 15.082,34
6	CHF 15.383,99
7	CHF 15.691,67
8	CHF 16.005,50
9	CHF 16.325,61
10	CHF 16.652,12
11	CHF 16.985,16
12	CHF 17.324,87





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Cummulative Cost	Residual Value	TCO $	kg CO2e
CHF 168.000,00	CHF 150.300,00	**CHF 17.700,00**	**8.000**
CHF 181.933,75	CHF 135.270,00	**CHF 46.700,00**	**17.540**
CHF 196.146,18	CHF 121.743,00	**CHF 74.400,00**	**27.080**
CHF 210.642,85	CHF 109.568,70	**CHF 101.100,00**	**36.620**
CHF 225.429,46	CHF 98.611,83	**CHF 126.800,00**	**46.160**
CHF 240.511,80	CHF 88.750,65	**CHF 151.800,00**	**55.700**
CHF 255.895,79	CHF 79.875,58	**CHF 176.000,00**	**65.240**
CHF 271.587,45	CHF 71.888,02	**CHF 199.700,00**	**74.780**
CHF 287.592,95	CHF 64.699,22	**CHF 222.900,00**	**84.320**
CHF 303.918,56	CHF 58.229,30	**CHF 245.700,00**	**93.860**
CHF 320.570,68	CHF 52.406,37	**CHF 268.200,00**	**103.400**
CHF 337.555,85	CHF 47.165,73	**CHF 290.400,00**	**112.940**
CHF 354.880,72	CHF 42.449,16	**CHF 312.400,00**	**122.480**