

Workplace EV Chargepoints Project
Financial Business Case Summary - 20 year loan period

Project Summary

Capital Cost	£99,460
Year 1 Cost Savings & Revenues	£2,091
Payback period (years)	17.63
Cost to charge (p/kWh) - from 2021	22.70
IRR	3.80%
NPV	£8,092

Capital Costs

Chargepoint Unit	£31,873
Trenching & Cabling (inc labour)	£57,524
Bay marking & signage	£12,475
Total	£101,872
Contingency	£10,187.25
WCS Grant	£12,600
Grand Total	£99,460

Operating Costs & Loan Balance for all EVCs

Year	Operations & Maintenance Costs £	Back Office £	Insurance £	Electricity		Replacement EVC unit	Borrowing Costs		TOTAL £	Loan Balance £
				kWh	£		Interest £	Repayment of principal £		
2021-22	£13,500	£12,258	£3,000	8,963	£1,573		£2,148	£0	£32,479	£99,460
2022-23	£0	£0	£3,000	15,357	£2,769		£2,041	£4,973	£12,783	£94,487
2023-24	£0	£0	£3,000	26,096	£4,835		£1,933	£4,973	£14,741	£89,514
2024-25	£4,624	£4,198	£3,000	43,745	£8,327		£1,826	£4,973	£26,948	£84,541
2025-26	£4,751	£4,314	£3,000	71,738	£14,031		£1,719	£4,973	£32,788	£79,568
2026-27	£4,882	£4,432	£3,000	113,724	£22,855		£1,611	£4,973	£41,754	£74,595
2027-28	£5,016	£4,554	£3,000	171,704	£35,457		£1,504	£4,973	£54,504	£69,622
2028-29	£5,154	£4,680	£3,000	243,257	£51,614		£1,396	£4,973	£70,816	£64,649
2029-30	£5,295	£4,808	£3,000	320,255	£69,820		£1,289	£4,973	£89,185	£59,676
2030-31	£5,441	£4,941	£3,000	391,808	£87,768		£1,182	£4,973	£107,304	£54,703
2031-32	£5,591	£5,076	£3,000	449,788	£103,527		£1,074	£4,973	£123,241	£49,730
2032-33	£5,744	£5,216	£3,000	491,774	£116,303	£ 41,807	£967	£4,973	£178,010	£44,757
2033-34	£5,902	£5,359	£3,000	519,767	£126,304		£859	£4,973	£146,398	£39,784
2034-35	£6,065	£5,507	£3,000	537,416	£134,184		£752	£4,973	£154,481	£34,811
3035-36	£6,232	£5,658	£3,000	548,155	£140,629		£644	£4,973	£161,137	£29,838
2036-37	£6,403	£5,814	£3,000	554,549	£146,182		£537	£4,973	£166,909	£24,865
37-38	£6,579	£5,974	£3,000	558,306	£151,220		£430	£4,973	£172,175	£19,892
38-39	£6,760	£6,138	£3,000	560,496	£155,988		£322	£4,973	£177,181	£14,919
39-40	£6,946	£6,307	£3,000	561,768	£160,641		£215	£4,973	£182,082	£9,946
40-41	£7,137	£6,480	£3,000	562,505	£165,275		£107	£4,973	£186,973	£4,973
41-42	£7,333	£6,658	£3,000	562,505	£169,820		£0	£4,973	£191,785	£0

Savings & Revenue for all EVCs

Year	Revenues - Fees to charge	Potential further Savings (notional savings this project could unlock)			TOTAL potential additional savings £
	Fee to use Chargepoints £	Fuel Use by pool Cars £	Pool car carbon savings £	Grey Fleet carbon savings £	
2021-22	£2,091	£0	£0	£65	£65
2022-23	£3,680	£5,972	£1,196	£112	£7,281
2023-24	£6,426	£6,136	£1,216	£194	£7,546
2024-25	£11,068	£6,305	£1,235	£330	£7,871
2025-26	£18,650	£6,479	£1,254	£550	£8,283
2026-27	£30,379	£6,657	£1,274	£886	£8,816
2027-28	£47,128	£6,840	£1,293	£1,358	£9,491
2028-29	£68,603	£7,028	£1,312	£1,953	£10,293
2029-30	£92,802	£7,221	£1,332	£2,608	£11,161
2030-31	£116,659	£7,420	£1,351	£3,237	£12,008
2031-32	£137,605	£7,624	£1,476	£4,062	£13,162
2032-33	£154,587	£7,833	£1,602	£4,818	£14,253
2033-34	£167,880	£8,049	£1,727	£5,491	£15,267
2034-35	£178,354	£8,270	£1,853	£6,090	£16,213
3035-36	£186,921	£8,498	£1,978	£6,632	£17,108
2036-37	£194,301	£8,731	£2,103	£7,135	£17,970
37-38	£200,997	£8,971	£2,229	£7,612	£18,812
38-39	£207,335	£9,218	£2,354	£8,072	£19,644
39-40	£213,520	£9,472	£2,480	£8,521	£20,472
40-41	£219,679	£9,732	£2,605	£8,964	£21,301
41-42	£225,720	£10,000	£2,605	£8,971	£21,576

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Year	Net Revenue £	Project Balance £	Payback period
2021	-£99,460	£	17.63
2022	-£30,389	-£ 129,848	
2023	-£4,129	-£ 133,978	
2024	-£3,342	-£ 137,320	
2025	-£10,907	-£ 148,227	
2026	-£9,165	-£ 157,392	
2027	-£6,402	-£ 163,793	
2028	-£2,403	-£ 166,196	
2029	£2,760	-£ 163,436	
2030	£8,590	-£ 154,846	
2031	£14,328	-£ 140,519	
2032	£19,337	-£ 121,182	
2033	-£18,450	-£ 139,632	
2034	£26,455	-£ 113,177	
2035	£28,846	-£ 84,331	
2036	£30,757	-£ 53,574	
2037	£32,365	-£ 21,209	
2038	£33,795	£ 12,586	
2039	£35,127	£ 47,713	
2040	£36,411	£ 84,124	
2041	£37,679	£ 121,803	
IRR	3.80%		
NPV	£8,092		