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# Worcester City Council

## Air Quality Action Plan: Technical Appendices

In fulfilment of Part IV of the Environment Act 1995

Local Air Quality Management

2024 - 2029

**Worcester City Council**

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<b>Report Reference Number</b>	WCC AQAP 2024-29: Technical Appendices
<b>Date</b>	November 2024

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## Appendix G: Modelled Measures

### Summary of Source Apportionment Outcomes and Impact Assessment Bandings

**Figure G.1 Roadside emissions, required reduction and Impact Assessment bandings**

Source Name	Source Apportionment All Vehicles (g/km)	1µg/m <sup>3</sup> equiv (g/km)	Required Reduction	Bandings				
				Negligible <3%	Small 3 -15%	Medium 15 -25%	Large 25 -35%	Very Large 35 - 40%
St Johns	10543.68	170.78	-1792.43	-316.31	-1581.55	-2635.92	-3690.29	-4217.47
London Road	6457.61	101.42	-1840.42	-193.73	-968.64	-1614.40	-2260.16	-2583.04
The Tything	12151.10	166.23	-3280.80	-364.53	-1822.67	-3037.78	-4252.89	-4860.44
Foregate Street	4899.47	64.20	-1469.84	-146.98	-734.92	-1224.87	-1714.82	-1959.79
The Butts	9017.14	104.61	-3426.51	-270.51	-1352.57	-2254.29	-3156.00	-3606.86
Bridge St	14425.68	193.45	-4039.19	-432.77	-2163.85	-3606.42	-5048.99	-5770.27
The Cross	19247.44	269.27	-4811.86	-577.42	-2887.12	-4811.86	-6736.60	-7698.98
All Saints Road	12522.90	192.54	-2191.51	-375.69	-1878.43	-3130.72	-4383.01	-5009.16
Lowesmoor	6538.06	115.21	-359.59	-196.14	-980.71	-1634.52	-2288.32	-2615.23

## Measures Supporting Transition to Electric Vehicle Parc

Figure G.2 Summary Forecast Data from NEVIS

	Diesel		Petrol	Diesel	Rigid	Artic		Full Hybrid	Plug-In Hybrid	Full Hybrid	
	Petrol Cars (g/km)	Cars (g/km)	Taxis (g/km)	LGVs (g/km)	LGVs (g/km)	HGVs (g/km)	HGVs (g/km)	Buses/Coac hes (g/km)	Motorcycle s (g/km)	Petrol Cars (g/km)	Petrol Cars (g/km)
2016 Worcester	61.54%	37.88%		4.38%	95.29%						0.04%
2016 County	59.57%	39.62%		4.70%	94.93%						0.09%
2016 Avg	<b>60.55%</b>	<b>38.75%</b>		<b>4.54%</b>	<b>95.11%</b>						<b>0.07%</b>
2018 Worcester	64.31%	34.72%		4.00%	95.66%						0.11%
2018 County	59.30%	39.46%		4.43%	95.31%						0.21%
2018 Avg	<b>61.81%</b>	<b>37.09%</b>		<b>4.22%</b>	<b>95.49%</b>						<b>0.16%</b>
2021 Worcester	61.62%	34.90%		3.68%	95.26%						0.58%
2021 County	59.80%	36.75%		4.08%	95.51%						0.60%
2021 Avg	<b>60.71%</b>	<b>35.82%</b>		<b>3.88%</b>	<b>95.38%</b>						<b>0.59%</b>
2023 Q3 Worcester	60.47%	34.17%		3.53%	95.83%						0.67%
2023 Q3 County	58.85%	33.43%		3.64%	94.85%						1.59%
2023 Avg	<b>59.66%</b>	<b>33.80%</b>		<b>3.59%</b>	<b>95.34%</b>						<b>1.13%</b>
2029 Low	49.44%	19.88%		3.17%	69.14%						3.15%
2029 Medium	44.18%	16.52%		2.90%	60.82%						3.81%
2029 High	42.34%	15.35%		2.78%	57.40%						4.02%

Battery EV Cars (g/km)	FCEV Cars (g/km)	E85		Full Hybrid		Plug-In Hybrid		E85		Bioethanol		LPG		Total		Total	
		Bioethanol Cars (g/km)	LPG Cars (g/km)	Petrol LGVs (g/km)	Petrol LGVs (g/km)	Battery EV LGVs (g/km)	FCEV LGVs (g/km)	oil LGVs (g/km)	LPG LGVs (g/km)	Cars	LGVs	Total	LGVs	Total	LGVs	Total	
0.06%				0.49%		0.00%	0.19%					0.13%	56681	5205	<b>61,886</b>		
0.11%				0.61%		0.00%	0.13%					0.24%					
<b>0.08%</b>			<b>0.55%</b>			<b>0.00%</b>	<b>0.16%</b>					<b>0.19%</b>					
0.13%			0.73%			0.00%	0.23%					0.10%	56690	5718	<b>62,408</b>		
0.20%			0.84%			0.00%	0.10%					0.16%					
<b>0.16%</b>			<b>0.78%</b>			<b>0.00%</b>	<b>0.16%</b>					<b>0.13%</b>					
1.09%			1.82%			0.02%	0.94%					0.10%	54905	6141	<b>61,046</b>		
0.91%			1.94%				0.26%					0.13%					
<b>1.00%</b>			<b>1.88%</b>			<b>0.02%</b>	<b>0.60%</b>					<b>0.11%</b>					
1.26%			3.42%			0.03%	0.46%					0.14%					
2.57%			3.56%			0.02%	1.37%					0.13%					
<b>1.92%</b>			<b>3.49%</b>			<b>0.02%</b>	<b>0.92%</b>					<b>0.14%</b>					
25.64%			1.88%			1.28%	26.25%					0.16%	54631	7912	<b>62,543</b>		
33.86%			1.62%			1.62%	34.52%					0.14%	54570	7908	<b>62,478</b>		
36.76%			1.53%			1.76%	37.93%					0.14%	54563	7910	<b>62,473</b>		

**Figure G.3 NEVIS Vehicle Growth Factors**

Vehicle Growth	2016	2018	2020	2021	2029_L	2029_M	Low				Medium			
							Δ 2016-2029	Δ 2018-2029	2020-2029	2021-2029	Δ 2016-2029	Δ 2018-2029	2020-2029	2021-2029
Cars Worcester	56,681	56,690	55,046	54,905	51,585	51624	-8.99%	-9.01%	-6.29%	-6.05%	-8.92%	-8.94%	-6.22%	-5.98%
LGVs Worcester	5,205	5,718	5,877	6,141	6,612	6622	27.03%	15.63%	12.51%	7.67%	27.22%	15.81%	12.68%	7.83%
Cars County	350,327	353,294	350,648	351,340	375,420	374790	7.16%	6.26%	7.06%	6.85%	6.98%	6.08%	6.88%	6.67%
LGVs County	38,133	41,654	43,771	46,174	60793	60839	59.42%	45.95%	38.89%	31.66%	59.54%	46.06%	38.99%	31.76%
					Avg Cars		-1.83%	-2.74%	0.78%	0.81%	-1.94%	-2.85%	0.67%	0.70%
					Avg LGVs		43.23%	30.79%	25.70%	19.67%	43.38%	30.93%	25.84%	19.80%

**Figure G.4 DFT Growth Factors**

DfT Fleet Growth 2029 (Cars & LGVs)													
Adj factor Cars	8.02%	8.02%	4.76%	4.76%	4.76%	4.76%	4.76%	4.76%	4.76%	4.76%	4.76%	4.76%	4.76%
Adj factor LGVs	27.38%	27.38%	22.07%	22.07%	22.07%	20.30%	20.30%	20.30%	20.30%	20.30%	20.30%	20.30%	20.30%
Adj Cars for growth	1075.64	835.68	821.81	229.15	245.62	890.02	509.13	694.06	152.89				
Adj LGVs for growth	516.93	449.58	492.38	139.48	167.51	528.00	301.66	350.58	129.11				
Adj AADT for growth	17998	14475	22562	6842	7669	24125	16431	18710	5168				

**Figure G.5 Proportion of Vehicle Types for EFT (All Vehicles) NEVIS data (2018 - 2023)**

2023 NEVIS data									
Area	St Johns	London Road	The Tything	Foregate St	The Butts	Bridge St	The Cross	All Saints Rd	Lowesmoor
Location ID	StJ1	R12	Tyn	Fos	But2	BrS2	Bkc	DDASH	Lwm1
AADT (One Way)	16405	13190	21248	6473	7256	22707	15620	17665	4886
Year	2016	2016	2018	2018	2018	2018	2018	2018	2018
<b>No. vehicles</b>									
Cars	13412	10420	17265	4814	5160	18698	10696	14581	3212
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	1888	1642	2231	632	759	2601	1486	1727	636
HGVs	242	600	326	80	79	282	224	272	57
Arctic	154	383	150	38	31	106	20	103	10
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>% vehicles</b>									
Cars	81.76	79.00	81.25	74.37	71.11	82.34	68.48	82.54	65.74
Taxis	0.00	0.00	3.85	9.49	6.73	2.36	12.53	2.37	8.70
LGVs	11.51	12.45	10.50	9.76	10.46	11.45	9.51	9.78	13.02
HGVs	1.48	4.55	1.53	1.24	1.09	1.24	1.43	1.54	1.17
Arctic	0.94	2.90	0.71	0.59	0.43	0.47	0.13	0.58	0.20
Buses	3.82	0.60	1.44	3.83	9.52	1.19	6.61	2.18	10.48
Motorcycles	0.51	0.50	0.72	0.73	0.66	0.93	1.31	1.01	0.70
<b>% vehicles 2023</b>									
Battery Electric Cars	1.57	1.52	1.56	1.43	1.36	1.58	1.31	1.58	1.26
Diesel Cars	27.63	26.70	27.46	25.14	24.04	27.83	23.14	27.90	22.22
Other EV Cars	0.92	0.89	0.92	0.84	0.80	0.93	0.77	0.93	0.74
Other ICE Cars	2.85	2.76	2.84	2.60	2.48	2.87	2.39	2.88	2.29
Petrol Cars	48.78	47.13	48.48	44.37	42.43	49.13	40.86	49.25	39.22
Taxi Petrol	0.00	0.00	0.01	0.03	0.02	0.01	0.04	0.01	0.03
Taxi Hybrid	0.00	0.00	0.12	0.30	0.21	0.07	0.39	0.07	0.27
Taxi Diesel	0.00	0.00	3.35	8.27	5.86	2.06	10.92	2.07	7.58
Taxi EV	0.00	0.00	0.36	0.89	0.63	0.22	1.17	0.22	0.82
Battery Electric LGVs	0.11	0.11	0.10	0.09	0.10	0.11	0.09	0.09	0.12
Diesel LGVs	10.97	11.87	10.01	9.31	9.97	10.92	9.07	9.32	12.41
Other EV LGVs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other ICE LGVs	0.02	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.02
Petrol LGVs	0.41	0.45	0.38	0.35	0.38	0.41	0.34	0.35	0.47
HGV EV	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01
HGV Diesel	1.46	4.51	1.52	1.22	1.08	1.23	1.42	1.53	1.16
Arctic	0.94	2.90	0.71	0.59	0.43	0.47	0.13	0.58	0.20
Buses	3.82	0.60	1.44	3.83	9.52	1.19	6.61	2.18	10.48
Motorcycles	0.51	0.50	0.72	0.73	0.66	0.93	1.31	1.01	0.70

**Figure G.6 Proportion of Vehicle Types for EFT (All Vehicles) Low EV Uptake scenario including NEVIS fleet growth (2029)**

2029 Low uptake (NEVIS growth)									
Area	St Johns	London Road	The Tything	Foregate St	The Butts	Bridge St	The Cross	All Saints Rd	Lowesmoor
Location ID	StJ1	R12	Tyn	Fos	But2	BrS2	Bkc	DDASH	Lwm1
<b>AADT (One Way)</b>	16975.976	13709.32762	21955.4905	6672.82142	7491.1463	23369.376	15998.5367	18122.27995	5036.99008
<b>Year</b>	2029 Low	2029 Low	2029 Low	2029 Low	2029 Low	2029 Low	2029 Low	2029 Low	2029 Low
<b>No. vehicles</b>									
Cars	13166.838	10229.52964	17399.1777	4851.41277	5200.1018	18848.884	10782.3116	14698.66164	3237.91929
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	2704.138	2351.797985	2804.31282	794.408651	954.04457	3112.4923	1778.22514	2066.61831	761.070785
HGVs	242	600	326	80	79	282	224	272	57
Arctic	154	383	150	38	31	106	20	103	10
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>% vehicles</b>									
Cars	77.56	74.62	79.25	72.70	69.42	80.66	67.40	81.11	64.28
Taxis	0.00	0.00	3.72	9.20	6.51	2.30	12.23	2.31	8.44
LGVs	15.93	17.15	12.77	11.91	12.74	13.32	11.11	11.40	15.11
HGVs - Rigid	1.43	4.38	1.48	1.20	1.05	1.21	1.40	1.50	1.13
Arctic	0.91	2.79	0.68	0.57	0.41	0.45	0.13	0.57	0.20
Buses	3.69	0.58	1.39	3.72	9.22	1.16	6.46	2.12	10.16
Motorcycles	0.49	0.48	0.70	0.70	0.64	0.91	1.28	0.98	0.68
<b>% vehicles 2029 low</b>									
Battery Electric Cars	16.9559969	16.31233378	17.3245582	15.8940771	15.1754	17.632549	14.7335773	17.73133958	14.0530798
Diesel Cars	16.1180423	15.5061886	16.4683896	15.1086019	14.425442	16.76116	14.0054532	16.85506804	13.3585856
Other EV Cars	0.79650746	0.766271403	0.81382062	0.74662381	0.712864	0.8282885	0.69210936	0.832929159	0.66014302
Other ICE Cars	2.48134437	2.387150561	2.53527971	2.32594278	2.2207714	2.5803512	2.15611498	2.594808186	2.05653084
Petrol Cars	41.2097053	39.64535213	42.1054535	38.6288247	36.882159	42.853992	35.8083562	43.0940913	34.1544813
Taxi Petrol	0	0	0.0116286	0.0287547	0.0203574	0.0071809	0.0382262	0.0072252	0.0263674
Taxi Hybrid	0	0	0.1162864	0.2875470	0.2035736	0.0718087	0.3822615	0.0722522	0.2636743
Taxi Diesel	0	0	3.2443906	8.0225622	5.6797048	2.0034633	10.6650965	2.0158370	7.3565139
Taxi EV	0	0	0.3488592	0.8626411	0.6107209	0.2154262	1.1467846	0.2167567	0.7910230
Battery Electric LGVs	2.89275849	3.115314783	2.31953746	2.16198432	2.312802	2.4186846	2.01848051	2.070930456	2.74392371
Diesel LGVs	12.2735943	13.21787139	9.84149272	9.17301547	9.8129152	10.262161	8.56414765	8.786685884	11.6421079
Other EV LGVs	0.09257026	0.099692218	0.0742268	0.06918499	0.0740113	0.0773996	0.06459277	0.066271201	0.08780745
Other ICE LGVs	0.02928461	0.031537644	0.02348165	0.02188668	0.0234135	0.0244854	0.02043393	0.020964901	0.0277779
Petrol LGVs	0.6409973	0.690312848	0.51397904	0.47906734	0.5124866	0.5359488	0.44726878	0.458890995	0.60801746
HGV EV	0.06	0.18	0.06	0.05	0.04	0.05	0.06	0.06	0.05
HGV Diesel	1.37	4.20	1.42	1.15	1.01	1.16	1.34	1.44	1.09
Arctic	0.91	2.79	0.68	0.57	0.41	0.45	0.13	0.57	0.20
Buses	3.69	0.58	1.39	3.72	9.22	1.16	6.46	2.12	10.16
Motorcycles	0.49	0.48	0.70	0.70	0.64	0.91	1.28	0.98	0.68

**Figure G.7 Proportion of Vehicle Types for EFT (All Vehicles) Medium Uptake scenario including NEVIS fleet growth (2029)**

2029 Medium uptake (NEVIS growth)									
Area	St Johns	London Road	The Tything	Foregate St	The Butts	Bridge St	The Cross	All Saints Rd	Lowesmoor
Location ID	StJ1	R12	Tyn	Fos	But2	BrS2	Bkc	DDASH	Lwm1
<b>AADT (One Way)</b>	16964.03756	13700.32643	21939.77356	6668.452726	7486.575909	23352.543	15988.90499	18108.75776	5034.3467
<b>Year</b>	2029	2029	2029	2029	2029	2029	2029	2029	2029
<b>No. vehicles</b>									
Cars	13151.94717	10217.96074	17380.39036	4846.174294	5194.486779	18828.6373	10770.72975	14682.87308	3234.441282
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	2707.090392	2354.365691	2807.383201	795.2784325	955.0891301	3115.90565	1780.175236	2068.884679	761.9054174
HGVs	242	600	326	80	79	282	224	272	57
Arctic	154	383	150	38	31	106	20	103	10
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>% vehicles</b>									
Cars	77.53	74.58	79.22	72.67	69.38	80.63	67.36	81.08	64.25
Taxis	0.00	0.00	3.72	9.21	6.52	2.30	12.24	2.31	8.44
LGVs	15.96	17.18	12.80	11.93	12.76	13.34	11.13	11.42	15.13
HGVs - Rigid	1.43	4.38	1.49	1.20	1.06	1.21	1.40	1.50	1.13
Arctic	0.91	2.80	0.68	0.57	0.41	0.45	0.13	0.57	0.20
Buses	3.69	0.58	1.39	3.72	9.23	1.16	6.46	2.13	10.17
Motorcycles	0.49	0.48	0.70	0.70	0.64	0.91	1.28	0.98	0.68
<b>% vehicles 2029 medium</b>									
Battery Electric									
Cars	23.18899642	22.30768164	23.69455238	21.73677331	20.75298328	24.116031	20.1487232	24.2517738	19.21663202
Diesel Cars	13.04435675	12.54859642	13.32874388	12.22744703	11.67404197	13.5658355	11.33413144	13.64219406	10.8098082
Other EV Cars	3.017018366	2.902354375	3.082794029	2.828076002	2.700079406	3.13763076	2.621461785	3.155291657	2.5001915
Other ICE Cars	2.137074611	2.055853526	2.18366614	2.003239188	1.912574087	2.22250919	1.856886085	2.235019106	1.770985499
Petrol Cars	36.14095546	34.76739201	36.92888414	33.87760909	32.34433395	37.585775	31.40257105	37.79733546	29.9498706
Taxi Petrol	0	0	0.011636971	0.028773541	0.020369793	0.007186048	0.038249180	0.007230617	0.026381278
Taxi Hybrid	0	0	0.139643647	0.345282496	0.244437514	0.086232579	0.458990156	0.086767409	0.316575336
Taxi Diesel	0	0	3.223440858	7.970270943	5.642432604	1.990535358	10.595022776	2.002881036	7.307614015
Taxi EV	0	0	0.349109118	0.863206239	0.611093784	0.215581447	1.147475391	0.216918524	0.791438341
Battery Electric									
LGVs	4.194524234	4.517021742	3.36340164	3.134752835	3.353280208	3.50719	2.926531542	3.003010149	3.978021413
Diesel LGVs	11.00046848	11.84624347	8.820784355	8.221134946	8.794240108	9.19788059	7.675058291	7.87562943	10.43267287
Other EV LGVs	0.135434132	0.145847034	0.108598581	0.101215896	0.108271777	0.11324127	0.094492781	0.096962146	0.12844362
Other ICE LGVs	0.027180262	0.029270026	0.021794638	0.020313008	0.021729052	0.02272638	0.018963746	0.019459323	0.025777337
Petrol LGVs	0.600211792	0.646359292	0.481283028	0.448564726	0.479834711	0.5018583	0.418769482	0.429713121	0.569231509
HGV EV	0.06	0.18	0.06	0.05	0.04	0.05	0.06	0.06	0.05
HGV Diesel	1.37	4.20	1.42	1.15	1.01	1.16	1.34	1.44	1.09
Arctic	0.91	2.80	0.68	0.57	0.41	0.45	0.13	0.57	0.20
Buses	3.69	0.58	1.39	3.72	9.23	1.16	6.46	2.13	10.17
Motorcycles	0.49	0.48	0.70	0.70	0.64	0.91	1.28	0.98	0.68

**Figure G.8 Proportion of Vehicle Types for EFT (All Vehicles) Low EV Uptake scenario including DFT fleet growth (2029)**

2029 Low uptake (DfT growth)									
Area	St Johns	London Road	The Tything	Foregate St	The Butts	Bridge St	The Cross	All Saints Rd	Lowesmoor
Location ID	St1	R12	Tyn	Fos	But2	BrS2	Bkc	DDASH	Lwm1
<b>AADT (One Way)</b>	17997.58	14475.2636	22562.1957	6841.6288	7669.1273	24125.0278	16430.7876	18709.6366	5167.9992
<b>Year</b>	2016	2016	2020	2020	2020	2021	2021	2021	2021
<b>No. vehicles</b>									
Cars	14487.64	11255.68	18086.81	5043.15	5405.62	19588.02	11205.13	15275.06	3364.89
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	2404.93	2091.58	2723.38	771.48	926.51	3129.00	1787.66	2077.58	765.11
HGVs	242	600	326	80	79	282	224	272	57
Arctic	154	383	150	38	31	106	20	103	10
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>% vehicles</b>									
Cars	80.50	77.76	80.16	73.71	70.49	81.19	68.20	81.64	65.11
Taxis	0.00	0.00	3.62	8.97	6.36	2.23	11.91	2.24	8.22
LGVs	13.36	14.45	12.07	11.28	12.08	12.97	10.88	11.10	14.80
HGVs - Rigid	1.34	4.15	1.44	1.17	1.03	1.17	1.36	1.45	1.10
Arctic	0.86	2.65	0.66	0.56	0.40	0.44	0.12	0.55	0.19
Buses	3.48	0.55	1.36	3.62	9.01	1.12	6.29	2.06	9.91
Motorcycles	0.46	0.46	0.68	0.69	0.63	0.88	1.24	0.95	0.66
<b>% vehicles 2029 low</b>									
Battery Electric Cars	17.59787676	16.99894624	17.52497069	16.11456765	15.40904894	17.75004312	14.90853922	17.84818411	14.23394156
Diesel Cars	16.72820086	16.15886911	16.65889776	15.31819595	14.64754352	16.87284726	14.17176867	16.96613818	13.5305092
Other EV Cars	0.826659747	0.798525003	0.823234986	0.756981345	0.723839624	0.833807757	0.700328194	0.838417927	0.668638989
Other ICE Cars	2.575277207	2.487629581	2.564608116	2.358209421	2.254963655	2.597545266	2.181718952	2.61190724	2.082998179
Petrol Cars	42.76972443	41.31408899	42.59253416	39.16470306	37.4500166	43.13954822	36.2335822	43.37806921	34.59404599
Taxi Petrol	0.00	0.00	0.01	0.03	0.02	0.01	0.04	0.01	0.03
Taxi Hybrid	0.00	0.00	0.11	0.28	0.20	0.07	0.37	0.07	0.26
Taxi Diesel	0.00	0.00	3.16	7.82	5.55	1.94	10.38	1.95	7.17
Taxi EV	0.00	0.00	0.34	0.84	0.60	0.21	1.12	0.21	0.77
Battery Electric LGVs	2.426650751	2.624013067	2.192023623	2.047786109	2.193930425	2.355354245	1.975805237	2.016557871	2.688551639
Diesel LGVs	10.29596037	11.13334275	9.300468284	8.688487459	9.308558595	9.993458658	8.383082078	8.555990148	11.40717143
Other EV LGVs	0.077654495	0.083970225	0.070146265	0.065530566	0.070207284	0.075372958	0.063227128	0.064531241	0.086035504
Other ICE LGVs	0.024566008	0.026563989	0.022190778	0.020730601	0.022210082	0.023844243	0.020001909	0.020414465	0.027217341
Petrol LGVs	0.537713942	0.581446839	0.485723651	0.453762512	0.486146173	0.521915572	0.437812496	0.446842744	0.595747739
HGV EV	0.06	0.17	0.06	0.05	0.04	0.05	0.06	0.06	0.05
HGV Diesel	1.29	3.97	1.39	1.12	0.99	1.12	1.31	1.39	1.06
Arctic	0.86	2.65	0.66	0.56	0.40	0.44	0.12	0.55	0.19
Buses	3.48	0.55	1.36	3.62	9.01	1.12	6.29	2.06	9.91
Motorcycles	0.46	0.46	0.68	0.69	0.63	0.88	1.24	0.95	0.66

### Figure G.9 Proportion of Vehicle Types for EFT (All Vehicles) Medium EV

#### Uptake scenario including DFT fleet growth (2029)

2029 Medium uptake (DfT growth)									
Area	St Johns	London Road	The Tything	Foregate St	The Butts	Bridge St	The Cross	All Saints Rd	Lowesmoor
Location ID	StJ1	R12	Tyn	Fos	But2	BrS2	Bkc	DDASH	Lwm1
AADT (One Way)	17997.58	14475.2636	22562.1957	6841.6288	7669.1273	24125.0278	16430.7876	18709.6366	5167.9992
Year	2029	2029	2029	2029	2029	2029	2029	2029	2029
<b>No. vehicles</b>									
Cars	14487.6424	11255.684	18086.814	5043.1464	5405.616	19588.0248	11205.1296	15275.0556	3364.8912
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	2404.9344	2091.5796	2723.3817	771.4824	926.5113	3129.003	1787.658	2077.581	765.108
HGVs	242	600	326	80	79	282	224	272	57
Arctic	154	383	150	38	31	106	20	103	10
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>% vehicles</b>									
Cars	80.50	77.76	80.16	73.71	70.49	81.19	68.20	81.64	65.11
Taxis	0.00	0.00	3.62	8.97	6.36	2.23	11.91	2.24	8.22
LGVs	13.36	14.45	12.07	11.28	12.08	12.97	10.88	11.10	14.80
HGVs - Rigid	1.34	4.15	1.44	1.17	1.03	1.17	1.36	1.45	1.10
Arctic	0.86	2.65	0.66	0.56	0.40	0.44	0.12	0.55	0.19
Buses	3.48	0.55	1.36	3.62	9.01	1.12	6.29	2.06	9.91
Motorcycles	0.46	0.46	0.68	0.69	0.63	0.88	1.24	0.95	0.66
<b>% vehicles 2029 medium</b>									
Battery Electric Cars	24.07713487	23.25768767	23.97738595	22.04769496	21.08241548	24.28532646	20.39762606	24.4196014	19.47465227
Diesel Cars	13.54395555	13.08299719	13.48784443	12.40234779	11.85935534	13.66106822	11.47414516	13.73660104	10.95495066
Other EV Cars	3.132570154	3.025955482	3.11959226	2.868528651	2.742940382	3.159657047	2.653845441	3.177126969	2.53376138
Other ICE Cars	2.218924558	2.143405127	2.209731797	2.031893415	1.942934228	2.238111286	1.879824722	2.25048593	1.794764386
Petrol Cars	37.52515388	36.24801345	37.36969129	34.36219262	32.8577669	37.8496286	31.79049586	38.05890133	30.35200522
Taxi Petrol	0.00	0.00	0.01	0.03	0.02	0.01	0.04	0.01	0.03
Taxi Hybrid	0.00	0.00	0.14	0.34	0.24	0.08	0.45	0.08	0.31
Taxi Diesel	0.00	0.00	3.13	7.77	5.51	1.93	10.31	1.94	7.12
Taxi EV	0.00	0.00	0.34	0.84	0.60	0.21	1.12	0.21	0.77
Battery Electric LGVs	3.51235476	3.79801864	3.172753477	2.963982883	3.175513398	3.409159596	2.859797162	2.918782868	3.891432314
Diesel LGVs	9.211425585	9.960601495	8.320794608	7.773277365	8.328032718	8.940788181	7.50004215	7.654736784	10.20558617
Other EV LGVs	0.113408027	0.122631633	0.102442873	0.095702021	0.102531986	0.110076029	0.09233804	0.094242589	0.125647803
Other ICE LGVs	0.022759845	0.02461093	0.020559249	0.019206429	0.020577134	0.022091147	0.018531312	0.018913535	0.025216245
Petrol LGVs	0.502597345	0.543474169	0.454002395	0.424128549	0.454397324	0.487830723	0.409220184	0.417660692	0.556841117
HGV EV	0.06	0.17	0.06	0.05	0.04	0.05	0.06	0.06	0.05
HGV Diesel	1.289395979	3.97474938	1.385546862	1.121283576	0.987793413	1.120898446	1.307298063	1.394082684	1.057638859
Arctic	0.86	2.65	0.66	0.56	0.40	0.44	0.12	0.55	0.19
Buses	3.48	0.55	1.36	3.62	9.01	1.12	6.29	2.06	9.91
Motorcycles	0.46	0.46	0.68	0.69	0.63	0.88	1.24	0.95	0.66

Figure G.10 EFT Input - NEVIS data (2023)

Primary Inputs		Pollutants	Selected	Standard Outputs		Selected	Additional Outputs		Selected	Advanced Options		Selected	Click the button to:	
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)			Breakdown by Vehicle		Y	Bespoke Base Fleets			 Run EFT	
Year	2023	PM <sub>10</sub>		Emissions Rates (g/km)		Y	Source Apportionment			Bespoke Euro Fleet		Y	 Clear Input Data	
Traffic Format	All Vehicle Types	PM <sub>2.5</sub>		Annual Link Emissions		Y	PM by Source			Fleet Projection Tool				
All must be selected		CO <sub>2</sub>					Primary NO <sub>x</sub> Fraction		Y					
							Export Outputs							
SourceID	Road Type	Traffic Flow	% Petrol Car	% Petrol Hybrid Car		% Petrol Plugin Hybrid Car	% Diesel Car		% Diesel Hybrid Car	% Electric Car		% Petrol Taxi (black cab)	% Petrol Hybrid Taxi (black cab)	% Diesel Taxi (black cab)
St Johns	Urban (not London)	16405	48.77783256			0 0.922912544	27.63253828		0	1.568690982		0	0	0
London Road 40km	Urban (not London)	13190	47.13332869			0 0.891797319	26.70093033		0	1.515803877		0	0	0
Tything	Urban (not London)	21248	48.47900677			0 0.91725854	27.4632541		0	1.55908077		0.012015837	0.120158368	3.352418463
Foregate St	Urban (not London)	6473	44.37165907			0 0.839544494	25.13645038		0	1.426988815		0.029642361	0.296423606	8.2702186
Butts	Urban (not London)	7256	42.42849393			0 0.802778378	24.03565147		0	1.364496788		0.021017089	0.210170893	5.863767916
Bridge St	Urban (not London)	22707	49.12930087			0 0.929562584	27.83164433		0	1.579994174		0.007390342	0.073903422	2.06190547
The Cross	Urban (not London)	15620	40.85503183			0 0.773007315	23.14428854		0	1.313894379		0.039152529	0.391525288	10.92355554
All Saints Rd	Urban (not London)	17665	49.24689535			0 0.931787558	27.89826135		0	1.583776002		0.007412256	0.074122559	2.068019389
Lowesmoor	Urban (not London)	4886	39.22177667			0 0.742104924	22.21905296		0	1.261369031		0.027182255	0.271822554	7.583849263
% Electric Taxi (black cab)	% Petrol LGV	% Petrol Hybrid LGV	% Petrol Plugin Hybrid LGV	% Diesel LGV	% Electric LGV	% Rigid HGV (Diesel)	% Rigid HGV Electric	% Artic HGV (Diesel)	% Artic HGV Electric	% Conventional Bus	% Hybrid Bus	% Electric Bus	% Biogas Bus	% Conventional Coach
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0 0.35007857	0 0.630512679	0 0.37505811	0 0.221710266	0 0.4107094	0 0.193270817	0 0.34110794	0 0.222367676	0 0.3505361	0 0.815467663
0 0.41264806	0 0.44635706	0 0.360475104	0 0.37647475	0 0.889270817	0									

Figure G.11 EFT Input – Low EV Uptake scenario including NEVIS fleet growth (2029)

Primary Inputs		Pollutants	Selected	Standard Outputs		Selected	Additional Outputs		Selected	Advanced Options		Selected	Click the button to:					
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)			Breakdown by Vehicle		Y	Bespoke Base Fleets								
Year	2029	PM <sub>10</sub>		Emissions Rates (g/km)		Y	Source Apportionment		Y	Bespoke Euro Fleet		N						
Traffic Format	All Vehicle Types	PM <sub>2.5</sub>		Annual Link Emissions		Y	PM by Source			Fleet Projection Tool								
All must be selected		CO <sub>2</sub>					Primary NO <sub>2</sub> Fraction		Y									
							Export Outputs											
SourceID	Road Type	Traffic Flow	% Petrol Car	% Petrol Hybrid Car		% Petrol Plugin Hybrid Car	% Diesel Car		% Diesel Hybrid Car	% Electric Car		% Petrol Taxi (black cab)	% Petrol Hybrid Taxi (black cab)	% Diesel Taxi (black cab)				
St Johns	Urban (not London)	16975.97596	41.20970534			0.79650746	16.11804231			16.95599692		0	0	0				
London Road 40km	Urban (not London)	13709.32762	39.64535213			0.766271403	15.5061886			16.31233378		0	0	0				
Tything	Urban (not London)	21955.49052	42.10545349			0.813820617	16.46838956			17.32455823		0.01162864	0.116286402	3.24439062				
Foregate St	Urban (not London)	6672.82142	38.62882468			0.746623806	15.10860186			15.89407706		0.028754703	0.28754703	8.02256216				
Butts	Urban (not London)	7491.14633	36.88215868			0.712863979	14.42544152			15.17540016		0.020357365	0.20357365	5.679704831				
Bridge St	Urban (not London)	23369.37615	42.85399246			0.828288492	16.76115998			17.63254938		0.007180872	0.07180872	2.003463301				
The Cross	Urban (not London)	15998.5367	35.8083562			0.692109361	14.00545322			14.73357726		0.038226152	0.382261523	10.66509649				
All Saints Rd	Urban (not London)	18122.27995	43.0940913			0.832929159	16.85506804			17.73133958		0.007225222	0.072252222	2.015837003				
Lowesmoor	Urban (not London)	5036.990076	34.15448128			0.660143015	13.35858556			14.05307985		0.026367433	0.263674333	7.356513899				
% Electric Taxi (black cab)	% Petrol LGV	% Petrol Hybrid LGV	% Petrol Plugin Hybrid LGV	% Diesel LGV	% Electric LGV	% Rigid HGV (Diesel)	% Rigid HGV Electric	% Artic HGV (Diesel)	% Artic HGV Electric	% Conventional Bus	% Hybrid Bus	% Electric Bus	% Biogas Bus	% Conventional Coach				
0	0.6409973			0.092570264	12.27359428	2.89275849	1.366990812	0.05855315	0.907164339		3.687564129							
0	0.69031285			0.099692218	13.21787139	3.115314783	4.196817423	0.17976483	2.793718339		0.576249997							
0.348859206	0.51397904			0.074226796	9.841492724	2.319537455	1.423834254	0.06098796	0.683200404		1.393728825							
0.862641098	0.47906734			0.069184987	9.173015467	2.16198432	1.149649529	0.04924364	0.569474254		3.716568815							
0.61072095	0.51248656			0.074011258	9.812915185	2.312802026	1.011262241	0.04331601	0.413821846		9.224222429							
0.215426161	0.53594875			0.077399574	10.26216118	2.418684634	1.157142834	0.0495646	0.453585065		1.159637289							
1.146784568	0.44726878			0.064592766	8.564147649	2.018480509	1.342618842	0.05750921	0.125011433		6.45684052							
0.216756667	0.458891			0.066271201	8.786685884	2.070930456	1.439265947	0.06164895	0.568361157		2.124456752							
0.791023	0.60801746			0.087807448	11.64210787	2.743923713	1.085147418	0.04648078	0.198531263		10.16480065							
% Hybrid Coach	% Electric Coach	% Biogas Coach	% Motorcycle	% Biomethane Car	% LPG Car	% Biomethane LGV	% LPG LGV	% Biodiesel Rigid HGV	% Biodiesel Artic HGV	% Biodiesel Bus	% Biomethane Bus	% Biodiesel Coach	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load
				0.488926234	2.48134437		0.029284613						29	24	0.074			
				0.481424048	2.38715056		0.031537644						40	24	1.77			
				0.696864412	2.53527971		0.023481655						19	24	0.211753			
				0.704349735	2.32594278		0.021886678						17	24	0.313909			
				0.640756406	2.22077144		0.023413469						13	24	0.34			
				0.90717013	2.58035121		0.024485363						13	24	0.084			
				1.275116618	2.15611498		0.020433928						10	24	0.085			
				0.982216369	2.59480819		0.020964901						13	24	0.101			
				0.675006293	2.05653084		0.027777895						13	24	0.28			

Figure G.12 EFT Input – Medium EV Uptake scenario including NEVIS fleet growth (2029)

Primary Inputs		Pollutants	Selected	Standard Outputs		Selected	Additional Outputs		Selected	Advanced Options		Selected	Click the button to:					
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)			Breakdown by Vehicle		Y	Bespoke Base Fleets								
Year	2029	PM <sub>10</sub>		Emissions Rates (g/km)		Y	Source Apportionment		Y	Bespoke Euro Fleet		N						
Traffic Format	All Vehicle Types	PM <sub>2.5</sub>		Annual Link Emissions		Y	PM by Source			Fleet Projection Tool								
All must be selected		CO <sub>2</sub>					Primary NO <sub>2</sub> Fraction		Y									
							Export Outputs											
SourceID	Road Type	Traffic Flow	% Petrol Car	% Petrol Hybrid Car		% Petrol Plugin Hybrid Car	% Diesel Car		% Diesel Hybrid Car	% Electric Car		% Petrol Taxi (black cab)	% Petrol Hybrid Taxi (black cab)	% Diesel Taxi (black cab)				
St Johns	Urban (not London)	16964.03756	36.14095546			3.017018366	13.04435675			23.18899642		0	0	0				
London Road 40km	Urban (not London)	13700.32643	34.76739201			2.902354375	12.54859642			22.30768164		0	0	0				
Tything	Urban (not London)	21939.77356	36.92888414			3.082794029	13.32874388			23.69455238		0.011636971	0.139643647	3.223440858				
Foregate St	Urban (not London)	6668.452726	33.87760909			2.828076002	12.22744703			21.73677331		0.028773541	0.345282496	7.970270943				
Butts	Urban (not London)	7486.575909	32.34433395			2.700079406	11.67404197			20.75298328		0.020369793	0.244437514	5.642432604				
Bridge St	Urban (not London)	23352.54297	37.58577503			3.13763076	13.56583554			24.11603101		0.007186048	0.086323579	1.990535358				
The Cross	Urban (not London)	15988.90499	31.40257105			2.621461785	11.33413144			20.1487232		0.03824918	0.458990156	10.59502278				
All Saints Rd	Urban (not London)	18108.75776	37.79733546			3.155291657	13.64219406			24.2517738		0.007230617	0.086767409	2.002881036				
Lowesmoor	Urban (not London)	5034.3467	29.9948706			2.5001915	10.8098082			19.21663202		0.026381278	0.316575336	7.307614015				
% Electric Taxi (black cab)	% Petrol LGV	% Petrol Hybrid LGV	% Petrol Plugin Hybrid LGV	% Diesel LGV	% Electric LGV	% Rigid HGV (Diesel)	% Rigid HGV Electric	% Artic HGV (Diesel)	% Artic HGV Electric	% Conventional Bus	% Hybrid Bus	% Electric Bus	% Biogas Bus	% Conventional Coach				
0	0.60021179		0.135434132	11.00046848	4.194524234	1.367952828	0.05859436	0.907802753		3.690159243								
0	0.64635929		0.145847034	11.84624347	4.517021742	4.199574755	0.17988294	2.795553827		0.576628596								
0.349109118	0.48128303		0.108598581	8.820784355	3.36340164	1.424854244	0.06103165	0.683689828		1.394727248								
0.863206239	0.44856473		0.101215896	8.221134946	3.134752835	1.150402697	0.0492759	0.569847333		3.719003646								
0.611093784	0.47983471		0.108271777	8.794240108	3.353280208	1.011879599	0.04334245	0.414074476		9.229853652								
0.215581447	0.5018583		0.113241265	9.19788059	3.507189998	1.157976936	0.04960033	0.453912022		1.160473188								
1.147475391	0.41876948		0.094492781	7.675058291	2.926531542	1.343427635	0.05754385	0.12508674		6.460730118								
0.216918524	0.42971312		0.096962146	7.87562943	3.003010149	1.440340677	0.06169499	0.568785564		2.126043128								
0.791438341	0.56923151		0.12844362	10.43267287	3.978021413	1.085717195	0.04650518	0.198635505		10.17013787								
% Hybrid Coach	% Electric Coach	% Biogas Coach	% Motorcycle	% Biomethane Car	% LPG Car	% Biomethane LGV	% LPG LGV	% Biodiesel Rigid HGV	% Biodiesel Artic HGV	% Biodiesel Bus	% Biomethane Bus	% Biodiesel Coach	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load
			0.489270315		2.13707461		0.027180262						29	24	0.074			
			0.481740346		2.05585353		0.029270026						40	24	1.77			
			0.697363624		2.18366614		0.021794638						19	24	0.211753			
			0.704811175		2.00323919		0.020313008						17	24	0.313909			
			0.641147576		1.91257409		0.021729052						13	24	0.34			
			0.907824044		2.22250919		0.022726378						13	24	0.084			
			1.275884747		1.85688609		0.018963746						10	24	0.085			
			0.98294981		2.23501911		0.019459323						13	24	0.101			
			0.675360718		1.7709855		0.025777337						13	24	0.28			

Figure G.13 EFT Input – Low EV Uptake scenario including DFT fleet growth (2029)

Primary Inputs		Pollutants	Selected	Standard Outputs		Selected	Additional Outputs		Selected	Advanced Options		Selected	Click the button to:					
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)			Breakdown by Vehicle		Y	Bespoke Base Fleets			 Run EFT					
Year	2029	PM <sub>10</sub>		Emissions Rates (g/km)		Y	Source Apportionment		Y	Bespoke Euro Fleet		N	 Clear Input Data					
Traffic Format	All Vehicle Types	PM <sub>2.5</sub>		Annual Link Emissions		Y	PM by Source			Fleet Projection Tool								
All must be selected		CO <sub>2</sub>					Primary NO <sub>2</sub> Fraction		Y									
							Export Outputs											
SourceID	Road Type	Traffic Flow	% Petrol Car	% Petrol Hybrid Car		% Petrol Plugin Hybrid Car	% Diesel Car		% Diesel Hybrid Car	% Electric Car		% Petrol Taxi (black cab)	% Petrol Hybrid Taxi (black cab)	% Diesel Taxi (black cab)				
St Johns	Urban (not London)	17997.5768	42.76972443			0.826659747	16.72820086			17.59787676		0	0	0				
London Road 40km	Urban (not London)	14475.2636	41.31408899			0.798525003	16.15886911			16.99894624		0	0	0				
Tything	Urban (not London)	22562.1957	42.59253416			0.823234986	16.65889776			17.52497069		0.011315942	0.113159421	3.157147844				
Foregate St	Urban (not London)	6841.6288	39.16470306			0.756981345	15.31819595			16.11456765		0.028045222	0.28045222	7.824616998				
Butts	Urban (not London)	7669.1273	37.4500166			0.723839624	14.64754352			15.40904894		0.019884922	0.19884922	5.54789305				
Bridge St	Urban (not London)	24125.0278	43.13954822			0.833807757	16.87284726			17.75004312		0.0069559505	0.0695559505	1.940710199				
The Cross	Urban (not London)	16430.7876	36.2335822			0.700328194	14.17176867			14.90853922		0.037220523	0.372205225	10.38452578				
All Saints Rd	Urban (not London)	18709.6366	43.37806921			0.838417927	16.96613818			17.84818411		0.006998399	0.069983989	1.95255329				
Lowesmoor	Urban (not London)	5167.9992	34.59404599			0.668638989	13.5305092			14.23394156		0.025699017	0.256990171	7.170025781				
% Electric Taxi (black cab)	% Petrol LGV	% Petrol Hybrid LGV	% Petrol Plugin Hybrid LGV	% Diesel LGV	% Electric LGV	% Rigid HGV (Diesel)	% Rigid HGV Electric	% Artic HGV (Diesel)	% Artic HGV Electric	% Conventional Bus	% Hybrid Bus	% Electric Bus	% Biogas Bus	% Conventional Coach				
0	0.53771394		0.077654495	10.29596037	2.426650751	1.289395979	0.05522948			0.855670748		3.478246027						
0	0.58144684		0.083970225	11.13334275	2.624013067	3.97474938	0.17025286			2.645893094		0.545758628						
0.339478263	0.48572365		0.070146265	9.300468284	2.192023623	1.385546862	0.05934797			0.664828911		1.356250979						
0.841356666	0.45376251		0.065530566	8.688487459	2.047786109	1.121283576	0.04802862			0.555423293		3.624867809						
0.596547667	0.48614617		0.070202784	9.308558595	2.193930425	0.987793413	0.04231076			0.404218091		9.010151651						
0.208678516	0.52191557		0.075372958	9.993458658	2.355354245	1.120898446	0.04801212			0.439377732		1.123314768						
1.116615676	0.4378125		0.063227128	8.383082078	1.975805237	1.307298063	0.05599629			0.12172271		6.28697799						
0.209951967	0.44684274		0.064531241	8.555990148	2.01657871	1.394082684	0.05971359			0.550518442		2.05776311						
0.770970514	0.59574774		0.086035504	11.40717143	2.688551639	1.057638859	0.04530249			0.193498482		9.907122277						
% Hybrid Coach	% Electric Coach	% Biogas Coach	% Motorcycle	% Biomethane Car	% LPG Car	% Biomethane LGV	% LPG LGV	% Biodiesel Rigid HGV	% Biodiesel Artic HGV	% Biodiesel Bus	% Biomethane Bus	% Biodiesel Coach	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load
			0.461173195	2.57527721		0.024566008							29	24	0.074			
			0.455950246	2.48762958		0.026563989							40	24	1.77			
			0.678125489	2.56460812		0.022190778							19	24	0.211753			
			0.686970915	2.35820942		0.020730601							17	24	0.313909			
			0.625886077	2.25496366		0.022210082							13	24	0.34			
			0.878755464	2.59754527		0.023844243							13	24	0.084			
			1.241571646	2.18171895		0.020001909							10	24	0.085			
			0.951381386	2.61190724		0.020414465							13	24	0.101			
			0.657894839	2.08299818		0.027217341							13	24	0.28			

Figure G.14 EFT Input – Medium EV Uptake scenario including DFT fleet growth (2029)

Primary Inputs		Pollutants	Selected	Standard Outputs		Selected	Additional Outputs		Selected	Advanced Options		Selected	Click the button to:					
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)			Breakdown by Vehicle		Y	Bespoke Base Fleets								
Year	2029	PM <sub>10</sub>		Emissions Rates (g/km)		Y	Source Apportionment		Y	Bespoke Euro Fleet		N						
Traffic Format	All Vehicle Types	PM <sub>2.5</sub>		Annual Link Emissions		Y	PM by Source			Fleet Projection Tool								
All must be selected		CO <sub>2</sub>					Primary NO <sub>2</sub> Fraction		Y									
							Export Outputs											
SourceID	Road Type	Traffic Flow	% Petrol Car	% Petrol Hybrid Car		% Petrol Plugin Hybrid Car	% Diesel Car		% Diesel Hybrid Car	% Electric Car		% Petrol Taxi (black cab)	% Petrol Hybrid Taxi (black cab)	% Diesel Taxi (black cab)				
St Johns	Urban (not London)	17997.5768	37.52515388			3.132570154	13.54395555			24.07713487		0	0	0				
London Road 40km	Urban (not London)	14475.2636	36.24801345			3.025955482	13.08299719			23.25768767		0	0	0				
Tything	Urban (not London)	22562.1957	37.369669129			3.11959226	13.48784443			23.97738595		0.011315942	0.135791305	3.134515959				
Foregate St	Urban (not London)	6841.6288	34.36219262			2.868528651	12.40234779			22.04769496		0.028045222	0.336542667	7.768526553				
Butts	Urban (not London)	7669.1273	32.8577669			2.742940382	11.85935534			21.08241548		0.019884922	0.238619067	5.50812346				
Bridge St	Urban (not London)	24125.0278	37.8496286			3.159657047	13.66106822			24.28532646		0.006955951	0.083471406	1.926798298				
The Cross	Urban (not London)	16430.7876	31.79049586			2.653845441	11.47414516			20.39762606		0.037220523	0.44664627	10.31008474				
All Saints Rd	Urban (not London)	18709.6366	38.05890133			3.177126969	13.73660104			24.4196014		0.006998399	0.083980787	1.938556492				
Lowesmoor	Urban (not London)	5167.9992	30.35200522			2.53376138	10.95495066			19.47465227		0.025699017	0.308388206	7.118627747				
% Electric Taxi (black cab)	% Petrol LGV	% Petrol Hybrid LGV	% Petrol Plugin Hybrid LGV	% Diesel LGV	% Electric LGV	% Rigid HGV (Diesel)	% Rigid HGV Electric	% Artic HGV (Diesel)	% Artic HGV Electric	% Conventional Bus	% Hybrid Bus	% Electric Bus	% Biogas Bus	% Conventional Coach				
0	0.50259734		0.113408027	9.211425585	3.51235476	1.289395979	0.05522948			0.855670748		3.478246027						
0	0.54347417		0.122631633	9.960601495	3.79801864	3.97474938	0.17025286			2.645893094		0.545758628						
0.339478263	0.4540024		0.102442873	8.320794608	3.172753477	1.385546862	0.05934797			0.664828911		1.356250979						
0.841356666	0.42412855		0.095702021	7.773277365	2.963982883	1.121283576	0.04802862			0.555423293		3.624867809						
0.596547667	0.45439732		0.102531986	8.328032718	3.175513398	0.987793413	0.04231076			0.404218091		9.010151651						
0.208678516	0.48783072		0.110076029	8.940788181	3.409159596	1.120898446	0.04801212			0.439377732		1.123314768						
1.116615676	0.40922018		0.09233804	7.50004215	2.859797162	1.307298063	0.05599629			0.12172271		6.28697799						
0.209951967	0.41766069		0.094242589	7.654736784	2.918782868	1.394082684	0.05971359			0.550518442		2.05776311						
0.770970514	0.55684112		0.125647803	10.20558617	3.891432314	1.057638859	0.04530249			0.193498482		9.907122277						
% Hybrid Coach	% Electric Coach	% Biogas Coach	% Motorcycle	% Biomethane Car	% LPG Car	% Biomethane LGV	% LPG LGV	% Biodiesel Rigid HGV	% Biodiesel Artic HGV	% Biodiesel Bus	% Biomethane Bus	% Biodiesel Coach	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load
			0.461173195		2.21892456		0.022759845						29	24	0.074			
			0.455950246		2.14340513		0.02461093						40	24	1.77			
			0.678125489		2.2097318		0.020559249						19	24	0.211753			
			0.686970915		2.03189341		0.019206429						17	24	0.313909			
			0.625886077		1.94293423		0.020577134						13	24	0.34			
			0.878755464		2.23811129		0.022091147						13	24	0.084			
			1.241571646		1.87982472		0.018531312						10	24	0.085			
			0.951381386		2.25048593		0.018913535						13	24	0.101			
			0.657894839		1.79476439		0.025216245						13	24	0.28			

Figure G.15 EFT Output - NEVIS data (2023)

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Cars (g/km)	Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)
St Johns	5,855.18960	3,827.58352	2,027.60607	472.71291	-	0.78162	2,395.79737	-	-	-	-	-
London Road 40km	3,665.33600	2,729.17720	936.15880	339.42309	-	0.56180	1,608.77983	-	-	-	-	-
Tything	7,911.17822	5,986.92346	1,924.25476	670.79108	-	1.11340	3,640.35034	-	-	0.07774	0.33122	-
Foregate St	3,189.87947	1,937.10718	1,252.77229	191.46375	-	0.31832	1,055.21735	-	-	0.06041	0.25817	-
Butts	6,083.69400	2,205.05101	3,878.64299	216.22353	-	0.36113	1,234.65905	-	-	0.05162	0.22216	-
Bridge St	9,483.63993	7,198.84470	2,284.79523	783.51697	-	1.30859	4,473.96412	-	-	0.05680	0.24446	-
The Cross	12,850.11215	5,484.17802	7,365.93413	468.98709	-	0.78713	2,773.91880	-	-	0.21974	0.95186	-
All Saints Rd	8,284.23760	5,428.80148	2,855.43612	610.99909	-	1.02046	3,488.86891	-	-	0.04432	0.19074	-
Lowesmoor	4,391.35261	1,542.62039	2,848.73222	134.59496	-	0.22479	768.55133	-	-	0.04495	0.19348	-

Diesel Taxis (g/km)	Electric Taxi (g/km)	Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)
-	-	3.78948	-	0.00219	936.15101	-	298.36758	-	122.09414	-	1,607.14435	-	-	-
-	-	3.19798	-	0.00186	762.96139	-	572.06919	-	222.55966	-	141.52996	-	-	-
416.58199	-	4.71182	-	0.00270	1,227.00021	-	571.11193	-	176.06490	-	1,177.07793	-	-	-
322.63429	-	1.35331	-	0.00078	358.31296	-	153.95890	-	49.32549	-	1,049.48789	-	-	-
277.62355	-	1.67870	-	0.00096	466.04021	-	191.49829	-	51.26087	-	3,635.88384	-	-	-
305.49969	-	5.75270	-	0.00330	1,597.06270	-	683.57616	-	175.27910	-	1,425.93997	-	-	-
1,216.56101	-	3.38425	-	0.00194	996.79574	-	673.87376	-	42.27867	-	6,649.78171	-	-	-
238.36940	-	3.81965	-	0.00219	1,060.41034	-	659.33587	-	170.31837	-	2,025.78188	-	-	-
241.78281	-	1.40666	-	0.00081	390.51591	-	138.16965	-	16.53576	-	2,694.02681	-	-	-

Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles	Bioethanol Cars (g/km)	LPG Cars (g/km)	Bioethanol LGVs (g/km)	LPG LGVs (g/km)	Biodiesel Rigid HGVs (g/km)	Biodiesel Artic HGVs (g/km)	Biodiesel Buses (g/km)	Biomethane Buses (g/km)	Biodiesel Coaches (g/km)
-	-	-	-	-	-	-	-	2.90673	-	15.30509	-	0.13713	-	-	-	-	
-	-	-	-	-	-	-	-	2.24964	-	11.89077	-	0.11084	-	-	-	-	
-	-	-	-	-	-	-	-	6.08019	-	19.70193	-	0.18084	-	-	-	-	
-	-	-	-	-	-	-	-	1.94151	-	5.49349	-	0.05284	-	-	-	-	
-	-	-	-	-	-	-	-	2.23306	-	5.88833	-	0.06871	-	-	-	-	
-	-	-	-	-	-	-	-	9.86268	-	21.33720	-	0.23547	-	-	-	-	
-	-	-	-	-	-	-	-	10.21814	-	12.20573	-	0.14661	-	-	-	-	
-	-	-	-	-	-	-	-	8.28093	-	16.63909	-	0.15635	-	-	-	-	
-	-	-	-	-	-	-	-	1.58175	-	3.66537	-	0.05758	-	-	-	-	

Figure G.16 EFT Output - Low EV Uptake scenario including NEVIS fleet growth (2029)

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)
St Johns	2,286.68656	1,694.52179	592.16477	379.24349	-	0.72385	830.90925	-	-	-	-
London Road 40km	1,651.55647	1,231.95646	419.60001	274.51755	-	0.52335	560.00721	-	-	-	-
Tything	3,245.80329	2,573.69039	672.11290	550.91701	-	1.05281	1,293.37934	-	-	0.06639	0.33122
Foregate St	1,172.61448	827.61574	344.99874	157.29026	-	0.30067	374.92413	-	-	0.05174	0.25817
Butts	1,880.53386	942.22219	938.31167	177.93688	-	0.34035	439.14779	-	-	0.04452	0.22216
Bridge St	3,861.27870	3,053.91523	807.36347	644.97037	-	1.23365	1,591.78531	-	-	0.04899	0.24446
The Cross	4,320.50678	2,314.46735	2,006.03943	387.07680	-	0.74077	989.23409	-	-	0.19073	0.95186
All Saints Rd	3,227.25793	2,304.82781	922.43012	502.95823	-	0.96202	1,241.29969	-	-	0.03823	0.19074
Lowesmoor	1,328.91516	650.88792	678.02724	110.79500	-	0.21192	273.44178	-	-	0.03877	0.19348

Diesel Taxis (g/km)	Electric Taxi (g/km)	Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)
-	-	5.37812	-	0.07743	463.24209	-	138.96893	-	80.81408	-	372.38176	-	-	-
-	-	4.56821	-	0.06577	380.64933	-	244.94794	-	140.37150	-	34.28057	-	-	-
170.75620	-	5.84033	-	0.08409	530.18946	-	289.26550	-	121.40006	-	261.44735	-	-	-
132.24472	-	1.67660	-	0.02414	154.82463	-	79.50688	-	34.29470	-	231.19717	-	-	-
114.04493	-	2.07944	-	0.02994	201.80286	-	103.65441	-	36.34297	-	798.31429	-	-	-
125.49617	-	6.78401	-	0.09769	658.36532	-	370.00687	-	124.26952	-	313.08708	-	-	-
502.22373	-	3.99459	-	0.05752	412.89773	-	392.48455	-	30.89770	-	1,582.65718	-	-	-
97.91973	-	4.50442	-	0.06486	437.13838	-	356.88606	-	120.75245	-	444.79161	-	-	-
99.32192	-	1.65884	-	0.02389	160.98437	-	74.78862	-	11.72354	-	591.51508	-	-	-

Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)	Bioethanol Cars (g/km)	LPG Cars (g/km)	Bioethanol LGVs (g/km)	LPG LGVs (g/km)	Biodiesel Rigid HGVs (g/km)	Biodiesel Artic HGVs (g/km)	Biodiesel Buses (g/km)	Biomethane Buses (g/km)	Biodiesel Coaches (g/km)
-	-	-	-	-	-	-	-	-	1.76765	-	13.07317	-	0.10673	-	-	-	-
-	-	-	-	-	-	-	-	-	1.38101	-	10.15676	-	0.08725	-	-	-	-
-	-	-	-	-	-	-	-	-	3.67544	-	17.27540	-	0.12269	-	-	-	-
-	-	-	-	-	-	-	-	-	1.16793	-	4.81690	-	0.03585	-	-	-	-
-	-	-	-	-	-	-	-	-	1.36345	-	5.16311	-	0.04676	-	-	-	-
-	-	-	-	-	-	-	-	-	6.02190	-	18.71480	-	0.15256	-	-	-	-
-	-	-	-	-	-	-	-	-	6.29828	-	10.70561	-	0.09564	-	-	-	-
-	-	-	-	-	-	-	-	-	5.05613	-	14.59410	-	0.10130	-	-	-	-
-	-	-	-	-	-	-	-	-	0.96578	-	3.21489	-	0.03730	-	-	-	-

Figure G.17 EFT Output - Medium EV Uptake scenario including NEVIS fleet growth (2029)

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)
St Johns	2,032.41315	1,440.24838	592.16477	332.36305	-	2.73989	671.98324	-	-	-	-	-	-
London Road	1,470.55899	1,050.95898	419.60001	240.58288	-	1.98097	452.89598	-	-	-	-	-	-
Tything	2,874.09197	2,201.97907	672.11290	482.83975	-	3.98525	1,046.05136	-	-	0.06639	0.39746	169.53214	-
Foregate St	1,064.49662	719.49787	344.99874	137.85378	-	1.13813	303.22882	-	-	0.05174	0.30980	131.29673	-
Butts	1,752.84249	814.53082	938.31167	155.94907	-	1.28832	355.17123	-	-	0.04452	0.26659	113.22741	-
Bridge St	3,408.07149	2,600.70802	807.36347	565.27404	-	4.66983	1,287.40156	-	-	0.04899	0.29336	124.59655	-
The Cross	4,037.35157	2,031.31213	2,006.03943	339.24732	-	2.80407	800.07115	-	-	0.19073	1.14223	498.62356	-
All Saints Rd	2,881.84455	1,959.41443	922.43012	440.80976	-	3.64160	1,003.93636	-	-	0.03823	0.22889	97.21779	-
Lowesmoor	1,245.50806	567.48082	678.02724	97.10452	-	0.80220	221.15380	-	-	0.03877	0.23217	98.60993	-

Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin LGVs (g/km)	Diesel LGVs (g/km)	Electric Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Coaches (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)
5.03238	-	0.11321	414.89854	-	138.96893	-	80.81408	-	372.38176	-	-	-	-	-	-
4.27454	-	0.09616	340.92509	-	244.94794	-	140.37150	-	34.28057	-	-	-	-	-	-
5.46489	-	0.12294	474.86080	-	289.26550	-	121.40006	-	261.44735	-	-	-	-	-	-
1.56882	-	0.03529	138.66769	-	79.50688	-	34.29470	-	231.19717	-	-	-	-	-	-
1.94577	-	0.04378	180.74344	-	103.65441	-	36.34297	-	798.31429	-	-	-	-	-	-
6.34792	-	0.14282	589.66173	-	370.00687	-	124.26952	-	313.08708	-	-	-	-	-	-
3.73781	-	0.08410	369.80986	-	392.48455	-	30.89770	-	1,582.65718	-	-	-	-	-	-
4.21486	-	0.09483	391.52088	-	356.88606	-	120.75245	-	444.79161	-	-	-	-	-	-
1.55220	-	0.03492	144.18488	-	74.78862	-	11.72354	-	591.51508	-	-	-	-	-	-

TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)	Bioethanol Cars (g/km)	LPG Cars (g/km)	Bioethanol LGVs (g/km)	LPG LGVs (g/km)	Biodiesel Rigid HGVs (g/km)	Biodiesel Artic HGVs (g/km)	Biodiesel Buses (g/km)	Biomethane Buses (g/km)	Biodiesel Coaches (g/km)	
-	-	-	-	1.76765	-	11.25144	-	0.09899	-	-	-	-	-	-
-	-	-	-	1.38101	-	8.74143	-	0.08092	-	-	-	-	-	-
-	-	-	-	3.67544	-	14.86886	-	0.11380	-	-	-	-	-	-
-	-	-	-	1.16793	-	4.14588	-	0.03325	-	-	-	-	-	-
-	-	-	-	1.36345	-	4.44386	-	0.04337	-	-	-	-	-	-
-	-	-	-	6.02190	-	16.10783	-	0.14150	-	-	-	-	-	-
-	-	-	-	6.29828	-	9.21432	-	0.08871	-	-	-	-	-	-
-	-	-	-	5.05613	-	12.56114	-	0.09395	-	-	-	-	-	-
-	-	-	-	0.96578	-	2.76705	-	0.03460	-	-	-	-	-	-

**Figure G.18 EFT Output - Low EV Uptake scenario including DFT fleet growth (2029)**

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)
St Johns	2,357.59298	1,765.42821	592.16477	417.28653	-	0.79646	914.26021	-	-	-	-	-	-
London Road	1,693.70153	1,274.10153	419.60001	302.05522	-	0.57585	616.18319	-	-	-	-	-	-
Tything	3,303.94091	2,631.82801	672.11290	572.68991	-	1.09442	1,344.49524	-	-	0.06639	0.33122	170.75620	-
Foregate St	1,189.33220	844.33346	344.99874	163.50656	-	0.31255	389.74158	-	-	0.05174	0.25817	132.24472	-
Butts	1,899.25313	960.94146	938.31167	184.96916	-	0.35380	456.50343	-	-	0.04452	0.22216	114.04493	-
Bridge St	3,953.30291	3,145.93944	807.36347	670.26226	-	1.28203	1,654.20565	-	-	0.04899	0.24446	125.49617	-
The Cross	4,377.13863	2,371.09920	2,006.03943	402.25565	-	0.76981	1,028.02596	-	-	0.19073	0.95186	502.22373	-
All Saints Rd	3,298.61100	2,376.18088	922.43012	522.68125	-	0.99975	1,289.97607	-	-	0.03823	0.19074	97.91973	-
Lowesmoor	1,344.98011	666.95287	678.02724	115.13971	-	0.22023	284.16454	-	-	0.03877	0.19348	99.32192	-

Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Electric LGVs (g/km)	Rigid HGVs	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)
4.78305	-	0.06886	411.98594	-	138.96893	-	80.81408	-	372.38176	-	-	-	-	-	-	-
4.06276	-	0.05849	338.53179	-	244.94794	-	140.37150	-	34.28057	-	-	-	-	-	-	-
5.67178	-	0.08166	514.88845	-	289.26550	-	121.40006	-	261.44735	-	-	-	-	-	-	-
1.62822	-	0.02344	150.35646	-	79.50688	-	34.29470	-	231.19717	-	-	-	-	-	-	-
2.01943	-	0.02908	195.97893	-	103.65441	-	36.34297	-	798.31429	-	-	-	-	-	-	-
6.82000	-	0.09820	661.85772	-	370.00687	-	124.26952	-	313.08708	-	-	-	-	-	-	-
4.01578	-	0.05783	415.08801	-	392.48455	-	30.89770	-	1,582.65718	-	-	-	-	-	-	-
4.52831	-	0.06521	439.45724	-	356.88606	-	120.75245	-	444.79161	-	-	-	-	-	-	-
1.66763	-	0.02401	161.83834	-	74.78862	-	11.72354	-	591.51508	-	-	-	-	-	-	-

TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)	Bioethanol Cars (g/km)	LPG Cars (g/km)	Bioethanol LGVs (g/km)	LPG LGVs (g/km)	Biodiesel Rigid HGVs (g/km)	Biodiesel Artic HGVs (g/km)	Biodiesel Buses (g/km)	Biomethane Buses (g/km)	Biodiesel Coaches (g/km)
-	-	-	-	-	1.76765	-	14.38458	-	0.09492	-	-	-	-
-	-	-	-	-	1.38101	-	11.17561	-	0.07759	-	-	-	-
-	-	-	-	-	3.67544	-	17.95815	-	0.11915	-	-	-	-
-	-	-	-	-	1.16793	-	5.00727	-	0.03482	-	-	-	-
-	-	-	-	-	1.36345	-	5.36716	-	0.04541	-	-	-	-
-	-	-	-	-	6.02190	-	19.44868	-	0.15337	-	-	-	-
-	-	-	-	-	6.29828	-	11.12542	-	0.09615	-	-	-	-
-	-	-	-	-	5.05613	-	15.16639	-	0.10183	-	-	-	-
-	-	-	-	-	0.96578	-	3.34095	-	0.03750	-	-	-	-

**Figure G.19 EFT Output - Medium EV Uptake scenario including DFT fleet growth (2029)**

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)
St Johns	2,088.93933	1,496.77456	592.16477	366.11742	-	3.01815	740.22902	-	-	-	-	-	-
London Road	1,503.52704	1,083.92703	419.60001	265.01617	-	2.18215	498.89153	-	-	-	-	-	-
Tything	2,922.62066	2,250.50776	672.11290	502.46470	-	4.14723	1,088.56797	-	-	0.06639	0.39746	169.53214	-
Foregate St	1,078.44097	733.44223	344.99874	143.45683	-	1.18439	315.55352	-	-	0.05174	0.30980	131.29673	-
Butts	1,768.38092	830.06925	938.31167	162.28760	-	1.34069	369.60712	-	-	0.04452	0.26659	113.22741	-
Bridge St	3,486.13715	2,678.77368	807.36347	588.07240	-	4.85817	1,339.32441	-	-	0.04899	0.29336	124.59655	-
The Cross	4,085.35762	2,079.31819	2,006.03943	352.92968	-	2.91716	832.33923	-	-	0.19073	1.14223	498.62356	-
All Saints Rd	2,942.43105	2,020.00093	922.43012	458.58828	-	3.78848	1,044.42664	-	-	0.03823	0.22889	97.21779	-
Lowesmoor	1,259.10073	581.07350	678.02724	101.02089	-	0.83455	230.07327	-	-	0.03877	0.23217	98.60993	-

Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Electric LGVs (g/km)	Rigid HGVs	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Coaches (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)
4.47068	-	0.10057	368.58901	-	138.96893	-	80.81408	-	372.38176	-	-	-	-	-	-	-
3.79743	-	0.08543	302.87222	-	244.94794	-	140.37150	-	34.28057	-	-	-	-	-	-	-
5.30137	-	0.11926	460.65218	-	289.26550	-	121.40006	-	261.44735	-	-	-	-	-	-	-
1.52188	-	0.03424	134.51852	-	79.50688	-	34.29470	-	231.19717	-	-	-	-	-	-	-
1.88755	-	0.04247	175.33530	-	103.65441	-	36.34297	-	798.31429	-	-	-	-	-	-	-
6.37460	-	0.14342	592.14031	-	370.00687	-	124.26952	-	313.08708	-	-	-	-	-	-	-
3.75352	-	0.08445	371.36432	-	392.48455	-	30.89770	-	1,582.65718	-	-	-	-	-	-	-
4.23258	-	0.09523	393.16660	-	356.88606	-	120.75245	-	444.79161	-	-	-	-	-	-	-
1.55873	-	0.03507	144.79094	-	74.78862	-	11.72354	-	591.51508	-	-	-	-	-	-	-

TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)	Bioethanol Cars (g/km)	LPG Cars (g/km)	Bioethanol LGVs (g/km)	LPG LGVs (g/km)	Biodiesel Rigid HGVs (g/km)	Biodiesel Artic HGVs (g/km)	Biodiesel Buses (g/km)	Biomethane Buses (g/km)	Biodiesel Coaches (g/km)	
-	-	-	-	1.76765	-	12.39412	-	0.08794	-	-	-	-	-	-
-	-	-	-	1.38101	-	9.62919	-	0.07189	-	-	-	-	-	-
-	-	-	-	3.67544	-	15.47320	-	0.11039	-	-	-	-	-	-
-	-	-	-	1.16793	-	4.31439	-	0.03226	-	-	-	-	-	-
-	-	-	-	1.36345	-	4.62448	-	0.04207	-	-	-	-	-	-
-	-	-	-	6.02190	-	16.75748	-	0.14209	-	-	-	-	-	-
-	-	-	-	6.29828	-	9.58594	-	0.08908	-	-	-	-	-	-
-	-	-	-	5.05613	-	13.06775	-	0.09435	-	-	-	-	-	-
-	-	-	-	0.96578	-	2.87865	-	0.03475	-	-	-	-	-	-

**Figure G.20 Evaluating Impact – EV uptake from NEVIS data (2018 – 2023)**

<b>2023 EFT</b>							
<b>Source Name</b>	<b>All Vehicles (g/km)</b>	<b>All LDVs (g/km)</b>	<b>All HDVs (g/km)</b>	<b>Total Cars</b>	<b>Total LGVs</b>	<b>Total Petrol Cars</b>	<b>Total Diesel Cars</b>
St Johns	5,855.18960	3,827.58352	2,027.60607	2,884.59699	940.07980	473.49453	2,395.79737
London Road 40km	3,665.33600	2,729.17720	936.15880	1,960.65549	766.27207	339.98489	1,608.77983
Tything	7,911.17822	5,986.92346	1,924.25476	4,331.95675	1,231.89557	671.90448	3,640.35034
Foregate St	3,189.87947	1,937.10718	1,252.77229	1,252.49291	359.71989	191.78207	1,055.21735
Butts	6,083.69400	2,205.05101	3,878.64299	1,457.13203	467.78859	216.58466	1,234.65905
Bridge St	9,483.63993	7,198.84470	2,284.79523	5,280.12689	1,603.05418	784.82557	4,473.96412
The Cross	12,850.11215	5,484.17802	7,365.93413	3,255.89874	1,000.32854	469.77422	2,773.91880
All Saints Rd	8,284.23760	5,428.80148	2,855.43612	4,117.52755	1,064.38853	612.01955	3,488.86891
Lowesmoor	4,391.35261	1,542.62039	2,848.73222	907.03645	391.98095	134.81975	768.55133
							-
<b>Source Apportionment 2018 Baseline</b>							
<b>Source Name</b>	<b>All Vehicles (g/km)</b>	<b>All LDVs (g/km)</b>	<b>All HDVs (g/km)</b>	<b>Total Cars</b>	<b>Total LGVs</b>	<b>Total Petrol Cars</b>	<b>Total Diesel Cars</b>
St Johns 2016	10543.678711	5542.173340	5001.504883	4314.255426	1219.795359	598.90297	3,715.35246
London Road 2016 40km	6457.609863	3884.703369	2572.906250	2896.548213	978.495253	414.70728	2,481.84093
The Tything	12,151.10158	8,989.51148	3,161.59010	5886.386674	2231.837436	779.53622	5,106.85045
Foregate Street	4,899.47427	3,018.04167	1,881.43260	1702.926545	651.540352	222.30947	1,480.61707
The Butts	9,017.14375	3,400.78731	5,616.35644	1982.498317	846.299989	249.95512	1,732.54319
Bridge St	14,425.67511	10,737.10383	3,688.57128	7183.820913	2901.614776	905.74243	6,278.07849
The Cross	19,247.43933	8,722.23639	10,525.20294	4430.269038	1802.339715	538.69528	3,891.57376
All Saints Road	12,522.89922	8,038.95112	4,483.94810	5602.256393	1926.406226	706.33739	4,895.91900
Lowesmoor	6,538.06337	2,439.89869	4,098.16469	1234.150254	709.348776	155.60274	1,078.54751
<b>% Change 2018 - 2023</b>							
<b>Source Name</b>	<b>All Vehicles (g/km)</b>	<b>All LDVs (g/km)</b>	<b>All HDVs (g/km)</b>	<b>Total Cars</b>	<b>Total LGVs</b>	<b>Total Petrol Cars</b>	<b>Total Diesel Cars</b>
St Johns 2016	-44.47%	-30.94%	-59.46%	-33.14%	-22.93%	-20.94%	-35.52%
London Road 2016 40km	-43.24%	-29.75%	-63.61%	-32.31%	-21.69%	-18.02%	-35.18%
The Tything	-34.89%	-33.40%	-39.14%	-26.41%	-44.80%	-13.81%	-28.72%
Foregate Street	-34.89%	-35.82%	-33.41%	-26.45%	-44.79%	-13.73%	-28.73%
The Butts	-32.53%	-35.16%	-30.94%	-26.50%	-44.73%	-13.35%	-28.74%
Bridge St	-34.26%	-32.95%	-38.06%	-26.50%	-44.75%	-13.35%	-28.74%
The Cross	-33.24%	-37.12%	-30.02%	-26.51%	-44.50%	-12.79%	-28.72%
All Saints Road	-33.85%	-32.47%	-36.32%	-26.50%	-44.75%	-13.35%	-28.74%
Lowesmoor	-32.83%	-36.78%	-30.49%	-26.51%	-44.74%	-13.36%	-28.74%
<b>Absolute Difference 2018 - 2023</b>							
<b>Source Name</b>	<b>All Vehicles (g/km)</b>	<b>All LDVs (g/km)</b>	<b>All HDVs (g/km)</b>	<b>Total Cars</b>	<b>Total LGVs</b>	<b>Total Petrol Cars</b>	<b>Total Diesel Cars</b>
St Johns 2016	-4688.49	-1714.59	-2973.90	-1429.66	-279.72	-125.41	-1319.56
London Road 2016 40km	-2792.27	-1155.53	-1636.75	-935.89	-212.22	-74.72	-873.06
The Tything	-4239.92	-3002.59	-1237.34	-1554.43	-999.94	-107.63	-1466.50
Foregate Street	-1709.59	-1080.93	-628.66	-450.43	-291.82	-30.53	-425.40
The Butts	-2933.45	-1195.74	-1737.71	-525.37	-378.51	-33.37	-497.88
Bridge St	-4942.04	-3538.26	-1403.78	-1903.69	-1298.56	-120.92	-1804.11
The Cross	-6397.33	-3238.06	-3159.27	-1174.37	-802.01	-68.92	-1117.65
All Saints Road	-4238.66	-2610.15	-1628.51	-1484.73	-862.02	-94.32	-1407.05
Lowesmoor	-2146.71	-897.28	-1249.43	-327.11	-317.37	-20.78	-310.00

## Worcester City Council

2023 EFT										
Total Petrol Hybrid	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Petrol Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Taxis	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	
0.78162	472.71291	0.78162	-	2,395.79737	-	-	-	-	-	-
0.56180	339.42309	0.56180	-	1,608.77983	-	-	-	-	-	-
1.11340	670.79108	1.11340	-	3,640.35034	-	416.99095	0.07774	0.33122	416.58199	
0.31832	191.46375	0.31832	-	1,055.21735	-	322.95287	0.06041	0.25817	322.63429	
0.36113	216.22353	0.36113	-	1,234.65905	-	277.89732	0.05162	0.22216	277.62355	
1.30859	783.51697	1.30859	-	4,473.96412	-	305.80095	0.05680	0.24446	305.49969	
0.78713	468.98709	0.78713	-	2,773.91880	-	1,217.73261	0.21974	0.95186	1,216.56101	
1.02046	610.99909	1.02046	-	3,488.86891	-	238.60446	0.04432	0.19074	238.36940	
0.22479	134.59496	0.22479	-	768.55133	-	242.02123	0.04495	0.19348	241.78281	
Source Apportionment 2018 Baseline										
Total Petrol Hybrid	Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	
4.19557	594.707397	0.056318	4.139253	3707.015625	8.336833	0.000000	-	-	-	-
2.94280	414.667297	0.039987	2.902816	2476.249756	5.591173	0.000000	-	-	-	-
11.32479	777.48545	2.05077	9.27402	5,090.53681	16.31364	848.43855	-	-	-	-
3.23902	221.72319	0.58628	2.65274	1,475.88773	4.72934	656.57392	-	-	-	-
3.66659	249.29193	0.66320	3.00339	1,727.00281	5.54038	564.10768	-	-	-	-
13.28633	903.33926	2.40317	10.88316	6,258.00224	20.07625	619.04389	-	-	-	-
7.94796	537.25845	1.43683	6.51113	3,879.09080	12.48296	2,460.78590	-	-	-	-
10.36126	704.46329	1.87410	8.48716	4,880.26267	15.65633	483.62825	-	-	-	-
2.28254	155.18989	0.41285	1.86968	1,075.09849	3.44902	491.04624	-	-	-	-
% Change 2018 - 2023										
Total Petrol Hybrid	Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	
-81.37%	-20.51%	1287.87%	-	-35.37%	-	-	-	-	-	-
-80.91%	-18.15%	1304.95%	-	-35.03%	-	-	-	-	-	-
-90.17%	-13.72%	-45.71%	-	-28.49%	-	-50.85%	-	-	-	-
-90.17%	-13.65%	-45.71%	-	-28.50%	-	-50.81%	-	-	-	-
-90.15%	-13.26%	-45.55%	-	-28.51%	-	-50.74%	-	-	-	-
-90.15%	-13.26%	-45.55%	-	-28.51%	-	-50.60%	-	-	-	-
-90.10%	-12.71%	-45.22%	-	-28.49%	-	-50.51%	-	-	-	-
-90.15%	-13.27%	-45.55%	-	-28.51%	-	-50.66%	-	-	-	-
-90.15%	-13.27%	-45.55%	-	-28.51%	-	-50.71%	-	-	-	-
Absolute Difference 2018 - 2023										
Total Hybrid Petrol Cars (g/km)	Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	
-3.41	-121.99	0.73	-4.14	-1311.22	-8.34	0.00	-	-	-	-
-2.38	-75.24	0.52	-2.90	-867.47	-5.59	0.00	-	-	-	-
-10.21	-106.69	-0.94	-9.27	-1450.19	-16.31	-431.45	-	-	-	-
-2.92	-30.26	-0.27	-2.65	-420.67	-4.73	-333.62	-	-	-	-
-3.31	-33.07	-0.30	-3.00	-492.34	-5.54	-286.21	-	-	-	-
-11.98	-119.82	-1.09	-10.88	-1784.04	-20.08	-313.24	-	-	-	-
-7.16	-68.27	-0.65	-6.51	-1105.17	-12.48	-1243.05	-	-	-	-
-9.34	-93.46	-0.85	-8.49	-1391.39	-15.66	-245.02	-	-	-	-
-2.06	-20.59	-0.19	-1.87	-306.55	-3.45	-249.03	-	-	-	-

## Worcester City Council

2023 EFT											
Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Conventional Buses (g/km)		Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
3.78948	0.00219	936.15101	298.36758	122.09414	1,607.14435	1,607.14435		-	2.90673	15.30509	0.13713
3.19798	0.00186	762.96139	572.06919	222.55966	141.52996	141.52996		-	2.24964	11.89077	0.11084
4.71182	0.00270	1,227.00021	571.11193	176.06490	1,177.07793	1,177.07793		-	6.08019	19.70193	0.18084
1.35331	0.00078	358.31296	153.95890	49.32549	1,049.48789	1,049.48789		-	1.94151	5.49349	0.05284
1.67870	0.00096	466.04021	191.49829	51.26087	3,635.88384	3,635.88384		-	2.23306	5.88833	0.06871
5.75270	0.00330	1,597.06270	683.57616	175.27910	1,425.93997	1,425.93997		-	9.86268	21.33720	0.23547
3.38425	0.00194	996.79574	673.87376	42.27867	6,649.78171	6,649.78171		-	10.21814	12.20573	0.14661
3.81965	0.00219	1,060.41034	659.33587	170.31837	2,025.78188	2,025.78188		-	8.28093	16.63909	0.15635
1.40666	0.00081	390.51591	138.16965	16.53576	2,694.02681	2,694.02681		-	1.58175	3.66537	0.05758
Source Apportionment 2018 Baseline											
Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
16.469919	-	1203.325439	720.915466	446.980499	3833.609075	3815.965820	0.552810	17.090445	8.122445	-	-
14.788893	-	963.706360	1377.917847	816.505554	378.483029	376.856720	0.069751	1.556559	6.757076	-	-
2.97270	-	2,228.86474	1,059.41958	442.77205	1659.398465	1,641.95432	0.38422	17.05993	13.57481	-	-
0.85264	-	650.68771	285.92426	124.09741	1471.410929	1,455.93003	0.31050	15.17040	4.34811	-	-
1.05432	-	845.24567	347.76633	128.59356	5139.996549	5,086.46604	0.86743	52.66308	4.87792	-	-
3.61483	-	2,897.99994	1,238.07002	439.85659	2010.644667	1,989.70480	0.33932	20.60055	21.74110	-	-
2.11535	-	1,800.22437	1,172.30206	104.25076	9248.650126	9,151.18845	1.29652	96.16516	22.33060	-	-
2.39992	-	1,924.00631	1,196.18437	422.27476	2865.488965	2,835.64632	0.48358	29.35906	18.17309	-	-
0.88371	-	708.46507	251.36400	40.27513	3806.525551	3,766.88248	0.64239	39.00068	3.48374	-	-
% Change 2018 - 2023											
Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
-76.98%	-	22.20%	-58.61%	-72.68%	-58.08%	-58.08%			-64.21%	-	-
-78.36%	-	-20.83%	-58.48%	-72.74%	-62.61%	-62.61%			-66.71%	-	-
58.59%	-	-44.95%	-46.09%	-60.24%	-29.07%	-29.07%			-55.21%	-	-
58.81%	-	-44.93%	-46.15%	-60.25%	-28.67%	-28.67%			-55.35%	-	-
59.31%	-	-44.86%	-44.93%	-60.14%	-29.26%	-29.26%			-54.22%	-	-
59.23%	-	-44.89%	-44.79%	-60.15%	-29.08%	-29.08%			-54.64%	-	-
60.08%	-	-44.63%	-42.52%	-59.45%	-28.10%	-28.10%			-54.24%	-	-
59.25%	-	-44.89%	-44.88%	-59.67%	-29.30%	-29.30%			-54.43%	-	-
59.27%	-	-44.88%	-45.03%	-58.94%	-29.23%	-29.23%			-54.60%	-	-
Absolute Difference 2018 - 2023											
Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
-12.68	0.00	-267.17	-422.55	-324.89	-2226.46	-2208.82	-0.55	-17.09	-5.22	15.31	0.14
-11.59	0.00	-200.74	-805.85	-593.95	-236.95	-235.33	-0.07	-1.56	-4.51	11.89	0.11
1.74	0.08	-1001.86	-488.31	-266.71	-482.32	-464.88	-0.38	-17.06	-7.49	19.70	0.18
0.50	0.06	-292.37	-131.97	-74.77	-421.92	-406.44	-0.31	-15.17	-2.41	5.49	0.05
0.62	0.05	-379.21	-156.27	-77.33	-1504.11	-1450.58	-0.87	-52.66	-2.64	5.89	0.07
2.14	0.06	-1300.94	-554.49	-264.58	-584.70	-563.76	-0.34	-20.60	-11.88	21.34	0.24
1.27	0.22	-803.43	-498.43	-61.97	-2598.87	-2501.41	-1.30	-96.17	-12.11	12.21	0.15
1.42	0.04	-863.60	-536.85	-251.96	-839.71	-809.86	-0.48	-29.36	-9.89	16.64	0.16
0.52	0.04	-317.95	-113.19	-23.74	-1112.50	-1072.86	-0.64	-39.00	-1.90	3.67	0.06

## Figure G.21 Evaluating Impact - Low EV Uptake scenario including NEVIS fleet growth (2029)

2029 Low NEVIS EFT							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns	2286.68656	1694.52179	592.16477	1223.949768	468.8043731	379.967346	830.909250
London Road 40km	1651.55647	1231.95646	419.60001	845.2048766	385.3705668	275.0409069	560.0072113
Tything	3245.80329	2573.69039	672.11290	1862.624564	536.2365756	551.9698213	1293.37934
Foregate St	1172.61448	827.61574	344.99874	537.3319601	156.5612226	157.5909312	374.9241284
Butts	1880.53386	942.22219	938.31167	622.5881173	203.9590114	178.2772229	439.1477853
Bridge St	3861.27870	3053.91523	807.36347	2256.704126	665.3995811	646.2040205	1591.785309
The Cross	4320.50678	2314.46735	2006.03943	1387.757268	417.0454814	387.8175706	989.2340894
All Saints Rd	3227.25793	2304.82781	922.43012	1759.814037	441.8089491	503.9202494	1241.29969
Lowesmoor	1328.91516	650.88792	678.02724	387.6635818	162.7043958	111.0069159	273.4417806
Source Apportionment 2018 Baseline							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns 2016	10543.67871	5542.17334	5001.504883	4314.255426	1219.795359	598.90297	3715.352458
London Road 2016 40km	6457.60986	3884.70337	2572.906250	2899.451029	978.495253	417.61010	2481.840929
The Tything	12,151.10158	8,989.51148	3,161.59010	5895.660693	2231.837436	788.81024	5106.850452
Foregate Street	4,899.47427	3,018.04167	1,881.43260	1705.579282	651.540352	224.96221	1480.617071
The Butts	9,017.14375	3,400.78731	5,616.35644	1985.501710	846.299989	252.95852	1732.543194
Bridge St	14,425.67511	10,737.10383	3,688.57128	7194.704069	2901.614776	916.62558	6278.078486
The Cross	19,247.43933	8,722.23639	10,525.20294	4436.780170	1802.339715	545.20641	3891.573758
All Saints Road	12,522.89922	8,038.95112	4,483.94810	5610.743552	1926.406226	714.82455	4895.919004
Lowesmoor	6,538.06337	2,439.89869	4,098.16469	1236.019935	709.348776	157.47242	1078.547510
% Change 2018 - 2029							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns 2016	-78.31%	-69.42%	-88.16%	-71.63%	-61.57%	-36.56%	-77.64%
London Road 2016 40km	-74.42%	-68.29%	-83.69%	-70.85%	-60.62%	-34.14%	-77.44%
The Tything	-73.29%	-71.37%	-78.74%	-68.41%	-75.97%	-30.03%	-74.67%
Foregate Street	-76.07%	-72.58%	-81.66%	-68.50%	-75.97%	-29.95%	-74.68%
The Butts	-79.14%	-72.29%	-83.29%	-68.64%	-75.90%	-29.52%	-74.65%
Bridge St	-73.23%	-71.56%	-78.11%	-68.63%	-77.07%	-29.50%	-74.65%
The Cross	-77.55%	-73.46%	-80.94%	-68.72%	-76.86%	-28.87%	-74.58%
All Saints Road	-74.23%	-71.33%	-79.43%	-68.63%	-77.07%	-29.50%	-74.65%
Lowesmoor	-79.67%	-73.32%	-83.46%	-68.64%	-77.06%	-29.51%	-74.65%
Absolute Difference 2018 - 2029							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns 2016	-8256.99	-3847.65	-4409.34	-3090.31	-750.99	-218.94	-2884.44
London Road 2016 40km	-4806.05	-2652.75	-2153.31	-2054.25	-593.12	-142.57	-1921.83
The Tything	-8905.30	-6415.82	-2489.48	-4033.04	-1695.60	-236.84	-3813.47
Foregate Street	-3726.86	-2190.43	-1536.43	-1168.25	-494.98	-67.37	-1105.69
The Butts	-7136.61	-2458.57	-4678.04	-1362.91	-642.34	-74.68	-1293.40
Bridge St	-10564.40	-7683.19	-2881.21	-4938.00	-2236.22	-270.42	-4686.29
The Cross	-14926.93	-6407.77	-8519.16	-3049.02	-1385.29	-157.39	-2902.34
All Saints Road	-9295.64	-5734.12	-3561.52	-3850.93	-1484.60	-210.90	-3654.62
Lowesmoor	-5209.15	-1789.01	-3420.14	-848.36	-546.64	-46.47	-805.11

## Worcester City Council

2029 Low NEVIS EFT										
Total Hybrid	Petrol Cars	Petrol Plugin Hybrid Cars	Full Hybrid Petrol Cars	Diesel Cars	Full Hybrid Diesel Cars	Taxis	Petrol Taxis	Petrol Hybrid Taxis	Diesel Taxis	
Petrol Cars	(g/km)	(g/km)	(g/km)	(g/km)	(g/km)		(g/km)	(g/km)	(g/km)	
0.723852829	379.24349	0.72385	-	830.90925	-	-	0.00000	0.00000	0.00000	
0.523352982	274.51755	0.52335	-	560.00721	-	-	0.00000	0.00000	0.00000	
1.052812404	550.91701	1.05281	-	1293.37934	-	171.15381	0.06639	0.33122	170.75620	
0.300668612	157.29026	0.30067	-	374.92413	-	132.55463	0.05174	0.25817	132.24472	
0.340345185	177.93688	0.34035	-	439.14779	-	114.31161	0.04452	0.22216	114.04493	
1.2336541	644.97037	1.23365	-	1591.78531	-	125.78962	0.04899	0.24446	125.49617	
0.740766088	387.07680	0.74077	-	989.23409	-	503.36631	0.19073	0.95186	502.22373	
0.962023234	502.95823	0.96202	-	1241.29969	-	98.14870	0.03823	0.19074	97.91973	
0.211920899	110.79500	0.21192	-	273.44178	-	99.55417	0.03877	0.19348	99.32192	
Source Apportionment 2018 Baseline										
Total Hybrid	Petrol Cars	Plug-In Hybrid Petrol Cars	Full Hybrid Petrol Cars	Diesel Cars	Full Hybrid Diesel Cars	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	
Petrol Cars	(g/km)	(g/km)	(g/km)	(g/km)	(g/km)		(g/km)	(g/km)	(g/km)	
4.195571	594.707397	0.056318	4.13925	3707.01563	8.33683	0.00000	-	-	-	
2.942804	414.667297	0.039987	2.90282	2476.24976	5.59117	0.00000	-	-	-	
11.324787	777.48545	2.05077	9.27402	5,090.53681	16.31364	848.43855	-	-	-	
3.239018	221.72319	0.58628	2.65274	1,475.88773	4.72934	656.57392	-	-	-	
3.666589	249.29193	0.66320	3.00339	1,727.00281	5.54038	564.10768	-	-	-	
13.286327	903.33926	2.40317	10.88316	6,258.00224	20.07625	619.04389	-	-	-	
7.947961	537.25845	1.43683	6.51113	3,879.09080	12.48296	2,460.78590	-	-	-	
10.361257	704.46329	1.87410	8.48716	4,880.26267	15.65633	483.62825	-	-	-	
2.282535	155.18989	0.41285	1.86968	1,075.09849	3.44902	491.04624	-	-	-	
% Change 2018 - 2029										
Total Hybrid	Petrol Cars	Plug-In Hybrid Petrol Cars	Full Hybrid Petrol Cars	Diesel Cars	Full Hybrid Diesel Cars	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	
Petrol Cars	(g/km)	(g/km)	(g/km)	(g/km)	(g/km)		(g/km)	(g/km)	(g/km)	
-82.75%	-36.23%	1185.30%	-100.00%	-77.59%	-100.00%	-	-	-	-	
-82.22%	-33.80%	1208.80%	-100.00%	-77.38%	-100.00%	-	-	-	-	
-90.70%	-29.14%	-48.66%	-100.00%	-74.59%	-100.00%	-79.83%	-	-	-	
-90.72%	-29.06%	-48.72%	-100.00%	-74.60%	-100.00%	-79.81%	-	-	-	
-90.72%	-28.62%	-48.68%	-100.00%	-74.57%	-100.00%	-79.74%	-	-	-	
-90.71%	-28.60%	-48.67%	-100.00%	-74.56%	-100.00%	-79.68%	-	-	-	
-90.68%	-27.95%	-48.44%	-100.00%	-74.50%	-100.00%	-79.54%	-	-	-	
-90.72%	-28.60%	-48.67%	-100.00%	-74.56%	-100.00%	-79.71%	-	-	-	
-90.72%	-28.61%	-48.67%	-100.00%	-74.57%	-100.00%	-79.73%	-	-	-	
Absolute Difference 2018 - 2029										
Total Hybrid	Petrol Cars	Plug-In Hybrid Petrol Cars	Full Hybrid Petrol Cars	Diesel Cars	Full Hybrid Diesel Cars	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	
Petrol Cars	(g/km)	(g/km)	(g/km)	(g/km)	(g/km)		(g/km)	(g/km)	(g/km)	
-3.47	-215.46	0.67	-4.14	-2876.11	-8.34	0.00	-	-	-	
-2.42	-140.15	0.48	-2.90	-1916.24	-5.59	0.00	-	-	-	
-10.27	-226.57	-1.00	-9.27	-3797.16	-16.31	-677.28	-	-	-	
-2.94	-64.43	-0.29	-2.65	-1100.96	-4.73	-524.02	-	-	-	
-3.33	-71.36	-0.32	-3.00	-1287.86	-5.54	-449.80	-	-	-	
-12.05	-258.37	-1.17	-10.88	-4666.22	-20.08	-493.25	-	-	-	
-7.21	-150.18	-0.70	-6.51	-2889.86	-12.48	-1957.42	-	-	-	
-9.40	-201.51	-0.91	-8.49	-3638.96	-15.66	-385.48	-	-	-	
-2.07	-44.39	-0.20	-1.87	-801.66	-3.45	-391.49	-	-	-	

## Worcester City Council

2029 Low NEVIS EFT												
Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Conventional Buses (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
5.37812	0.07743	463.24209	138.96893	80.81408	372.38176	372.38176	-	-	1.76765	13.07317	0.10673	
4.56821	0.06577	380.64933	244.94794	140.37150	34.28057	34.28057	-	-	1.38101	10.15676	0.08725	
5.84033	0.08409	530.18946	289.26550	121.40006	261.44735	261.44735	-	-	3.67544	17.27540	0.12269	
1.67660	0.02414	154.82463	79.50688	34.29470	231.19717	231.19717	-	-	1.16793	4.81690	0.03585	
2.07944	0.02994	201.80286	103.65441	36.34297	798.31429	798.31429	-	-	1.36345	5.16311	0.04676	
6.78401	0.09769	658.36532	370.00687	124.26952	313.08708	313.08708	-	-	6.02190	18.71480	0.15256	
3.99459	0.05752	412.89773	392.48455	30.89770	1582.65718	1582.65718	-	-	6.29828	10.70561	0.09564	
4.50442	0.06486	437.13838	356.88606	120.75245	444.79161	444.79161	-	-	5.05613	14.59410	0.10130	
1.65884	0.02389	160.98437	74.78862	11.72354	591.51508	591.51508	-	-	0.96578	3.21489	0.03730	
Source Apportionment 2018 Baseline												
Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
16.46992	0.000000	1203.32544	720.915466	446.980499	3833.60907	3815.965820	0.55281	17.09044	8.122445	0.000000	0.000000	
14.78889	0.000000	963.70636	1377.917847	816.505554	378.48303	376.856720	0.06975	1.55656	6.757076	0.000000	0.000000	
2.97270	-	2,228.86474	1,059.41958	442.77205	1659.39847	1,641.95432	0.38422	17.05993	13.57481	-	-	
0.85264	-	650.68771	285.92426	124.09741	1471.41093	1,455.93003	0.31050	15.17040	4.34811	-	-	
1.05432	-	845.24567	347.76633	128.59356	5139.99655	5,086.46604	0.86743	52.66308	4.87792	-	-	
3.61483	-	2,897.99994	1,238.07002	439.85659	2010.64467	1,989.70480	0.33932	20.60055	21.74110	-	-	
2.11535	-	1,800.22437	1,172.30206	104.25076	9248.65013	9,151.18845	1.29652	96.16516	22.33060	-	-	
2.39992	-	1,924.00631	1,196.18437	422.27476	2885.48897	2,835.64632	0.48358	29.35906	18.17309	-	-	
0.88371	-	708.46507	251.36400	40.27513	3806.52555	3,766.88248	0.64239	39.00068	3.48374	-	-	
% Change 2018 - 2029												
Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
-67.35%	-	-61.50%	-80.72%	-81.92%	-90.29%	-90.24%	-100.00%	-100.00%	-78.24%	-	-	
-69.11%	-	-60.50%	-82.22%	-82.81%	-90.94%	-90.90%	-100.00%	-100.00%	-79.56%	-	-	
96.47%	-	-76.21%	-72.70%	-72.58%	-84.24%	-84.08%	-100.00%	-100.00%	-72.92%	-	-	
96.64%	-	-76.21%	-72.19%	-72.36%	-84.29%	-84.12%	-100.00%	-100.00%	-73.14%	-	-	
97.23%	-	-76.12%	-70.19%	-71.74%	-84.47%	-84.31%	-100.00%	-100.00%	-72.05%	-	-	
87.67%	-	-77.28%	-70.11%	-71.75%	-84.43%	-84.26%	-100.00%	-100.00%	-72.30%	-	-	
88.84%	-	-77.06%	-66.52%	-70.36%	-82.89%	-82.71%	-100.00%	-100.00%	-71.80%	-	-	
87.69%	-	-77.28%	-70.16%	-71.40%	-84.48%	-84.31%	-100.00%	-100.00%	-72.18%	-	-	
87.71%	-	-77.28%	-70.25%	-70.89%	-84.46%	-84.30%	-100.00%	-100.00%	-72.28%	-	-	
Absolute Difference 2018 - 2029												
Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
-11.09	0.08	-740.08	-581.95	-366.17	-3461.23	-3443.58	-0.55	-17.09	-6.35	13.07	0.11	
-10.22	0.07	-583.06	-1132.97	-676.13	-344.20	-342.58	-0.07	-1.56	-5.38	10.16	0.09	
2.87	0.08	-1698.68	-770.15	-321.37	-1397.95	-1380.51	-0.38	-17.06	-9.90	17.28	0.12	
0.82	0.02	-495.86	-206.42	-89.80	-1240.21	-1224.73	-0.31	-15.17	-3.18	4.82	0.04	
1.03	0.03	-643.44	-244.11	-92.25	-4341.68	-4288.15	-0.87	-52.66	-3.51	5.16	0.05	
3.17	0.10	-2239.63	-868.06	-315.59	-1697.56	-1676.62	-0.34	-20.60	-15.72	18.71	0.15	
1.88	0.06	-1387.33	-779.82	-73.35	-7665.99	-7568.53	-1.30	-96.17	-16.03	10.71	0.10	
2.10	0.06	-1486.87	-839.30	-301.52	-2420.70	-2390.85	-0.48	-29.36	-13.12	14.59	0.10	
0.78	0.02	-547.48	-176.58	-28.55	-3215.01	-3175.37	-0.64	-39.00	-2.52	3.21	0.04	

**Figure G.22 Evaluating Impact - Medium EV Uptake scenario including NEVIS fleet growth (2029)**

2029 Medium NEVIS EFT							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns	2,032.41315	1,440.24838	592.16477	1,018.33762	420.14311	335.10294	671.98324
London Road 40km	1,470.55899	1,050.95898	419.60001	704.20125	345.37671	242.56384	452.89598
Tything	2,874.09197	2,201.97907	672.11290	1,547.74521	480.56243	486.82500	1,046.05136
Foregate St	1,064.49662	719.49787	344.99874	446.36661	140.30506	138.99191	303.22882
Butts	1,752.84249	814.53082	938.31167	516.85249	182.77636	157.23740	355.17123
Bridge St	3,408.07149	2,600.70802	807.36347	1,873.45325	596.29397	569.94387	1,287.40156
The Cross	4,037.35157	2,031.31213	2,006.03943	1,151.33686	373.72048	342.05139	800.07115
All Saints Rd	2,881.84455	1,959.41443	922.43012	1,460.94886	395.92452	444.45136	1,003.93636
Lowesmoor	1,245.50806	567.48082	678.02724	321.82757	145.80660	97.90671	221.15380
Source Apportionment 2018 Baseline							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns 2016	10543.67871	5542.17334	5001.50488	4314.25543	1219.79536	598.90297	3715.35246
London Road 2016 40km	6457.60986	3884.70337	2572.90625	2899.45103	978.49525	417.61010	2481.84093
The Tything	12,151.10158	8,989.51148	3,161.59010	5895.66069	2231.83744	788.81024	5106.85045
Foregate Street	4,899.47427	3,018.04167	1,881.43260	1705.57928	651.54035	224.96221	1480.61707
The Butts	9,017.14375	3,400.78731	5,616.35644	1985.50171	846.29999	252.95852	1732.54319
Bridge St	14,425.67511	10,737.10383	3,688.57128	7194.70407	2901.61478	916.62558	6278.07849
The Cross	19,247.43933	8,722.23639	10,525.20294	4436.78017	1802.33972	545.20641	3891.57376
All Saints Road	12,522.89922	8,038.95112	4,483.94810	5610.74355	1926.40623	714.82455	4895.91900
Lowesmoor	6,538.06337	2,439.89869	4,098.16469	1236.01993	709.34878	157.47242	1078.54751
% change 2018 - 2029							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns 2016	-80.72%	-74.01%	-88.16%	-76.40%	-65.56%	-44.05%	-81.91%
London Road 2016 40km	-77.23%	-72.95%	-83.69%	-75.71%	-64.70%	-41.92%	-81.75%
The Tything	-76.35%	-75.51%	-78.74%	-73.75%	-78.47%	-38.28%	-79.52%
Foregate Street	-78.27%	-76.16%	-81.66%	-73.83%	-78.47%	-38.22%	-79.52%
The Butts	-80.56%	-76.05%	-83.29%	-73.97%	-78.40%	-37.84%	-79.50%
Bridge St	-76.37%	-75.78%	-78.11%	-73.96%	-79.45%	-37.82%	-79.49%
The Cross	-79.02%	-76.71%	-80.94%	-74.05%	-79.26%	-37.26%	-79.44%
All Saints Road	-76.99%	-75.63%	-79.43%	-73.96%	-79.45%	-37.82%	-79.49%
Lowesmoor	-80.95%	-76.74%	-83.46%	-73.96%	-79.45%	-37.83%	-79.50%
Absolute Difference 2018 - 2029							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns 2016	-8511.27	-4101.92	-4409.34	-3295.92	-799.65	-263.80	-3043.37
London Road 2016 40km	-4987.05	-2833.74	-2153.31	-2195.25	-633.12	-175.05	-2028.94
The Tything	-9277.01	-6787.53	-2489.48	-4347.92	-1751.28	-301.99	-4060.80
Foregate Street	-3834.98	-2298.54	-1536.43	-1259.21	-511.24	-85.97	-1177.39
The Butts	-7264.30	-2586.26	-4678.04	-1468.65	-663.52	-95.72	-1377.37
Bridge St	-11017.60	-8136.40	-2881.21	-5321.25	-2305.32	-346.68	-4990.68
The Cross	-15210.09	-6690.92	-8519.16	-3285.44	-1428.62	-203.16	-3091.50
All Saints Road	-9641.05	-6079.54	-3561.52	-4149.79	-1530.48	-270.37	-3891.98
Lowesmoor	-5292.56	-1872.42	-3420.14	-914.19	-563.54	-59.57	-857.39

2029 Medium NEVIS EFT									
Total Hybrid Petrol Cars	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)
2.73989	332.36305	2.73989	-	671.98324		-	-	-	-
1.98097	240.58288	1.98097	-	452.89598		-	-	-	-
3.98525	482.83975	3.98525	-	1,046.05136	169.99600	0.06639	0.39746	169.53214	
1.13813	137.85378	1.13813	-	303.22882	131.65827	0.05174	0.30980	131.29673	
1.28832	155.94907	1.28832	-	355.17123	113.53851	0.04452	0.26659	113.22741	
4.66983	565.27404	4.66983	-	1,287.40156	124.93890	0.04899	0.29336	124.59655	
2.80407	339.24732	2.80407	-	800.07115	499.95651	0.19073	1.14223	498.62356	
3.64160	440.80976	3.64160	-	1,003.93636	97.48491	0.03823	0.22889	97.21779	
0.80220	97.10452	0.80220	-	221.15380	98.88088	0.03877	0.23217	98.60993	

  

Source Apportionment 2018 Baseline									
Total Hybrid Petrol Cars	Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)
4.19557	594.70740	0.05632	4.13925	3707.01563	8.33683	0.00000	-	-	-
2.94280	414.66730	0.03999	2.90282	2476.24976	5.59117	0.00000	-	-	-
11.32479	777.48545	2.05077	9.27402	5,090.53681	16.31364	848.43855	-	-	-
3.23902	221.72319	0.58628	2.65274	1,475.88773	4.72934	656.57392	-	-	-
3.66659	249.29193	0.66320	3.00339	1,727.00281	5.54038	564.10768	-	-	-
13.28633	903.33926	2.40317	10.88316	6,258.00224	20.07625	619.04389	-	-	-
7.94796	537.25845	1.43683	6.51113	3,879.09080	12.48296	2,460.78590	-	-	-
10.36126	704.46329	1.87410	8.48716	4,880.26267	15.65633	483.62825	-	-	-
2.28254	155.18989	0.41285	1.86968	1,075.09849	3.44902	491.04624	-	-	-

  

% change 2018 - 2029									
Total Hybrid Petrol Cars	Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)
-34.70%	-44.11%	4765.03%	-100.00%	-81.87%	-100.00%	-	-	-	-
-32.68%	-41.98%	4854.00%	-100.00%	-81.71%	-100.00%	-	-	-	-
-64.81%	-37.90%	94.33%	-100.00%	-79.45%	-100.00%	-79.96%	-	-	-
-64.86%	-37.83%	94.13%	-100.00%	-79.45%	-100.00%	-79.95%	-	-	-
-64.86%	-37.44%	94.26%	-100.00%	-79.43%	-100.00%	-79.87%	-	-	-
-64.85%	-37.42%	94.32%	-100.00%	-79.43%	-100.00%	-79.82%	-	-	-
-64.72%	-36.86%	95.16%	-100.00%	-79.37%	-100.00%	-79.68%	-	-	-
-64.85%	-37.43%	94.31%	-100.00%	-79.43%	-100.00%	-79.84%	-	-	-
-64.85%	-37.43%	94.30%	-100.00%	-79.43%	-100.00%	-79.86%	-	-	-

  

Absolute Difference 2018 - 2029									
Total Hybrid Petrol Cars	Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)
-1.46	-262.34	2.68	-4.14	-3035.03	-8.34	0.00	-	-	-
-0.96	-174.08	1.94	-2.90	-2023.35	-5.59	0.00	-	-	-
-7.34	-294.65	1.93	-9.27	-4044.49	-16.31	-678.44	-	-	-
-2.10	-83.87	0.55	-2.65	-1172.66	-4.73	-524.92	-	-	-
-2.38	-93.34	0.63	-3.00	-1371.83	-5.54	-450.57	-	-	-
-8.62	-338.07	2.27	-10.88	-4970.60	-20.08	-494.10	-	-	-
-5.14	-198.01	1.37	-6.51	-3079.02	-12.48	-1960.83	-	-	-
-6.72	-263.65	1.77	-8.49	-3876.33	-15.66	-386.14	-	-	-
-1.48	-58.09	0.39	-1.87	-853.94	-3.45	-392.17	-	-	-

## Worcester City Council

2029 Medium NEVIS EFT												
Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Conventional Buses (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
5.03238	0.11321	414.89854	138.96893	80.81408	372.38176	372.38176			1.76765	11.25144	0.09899	
4.27454	0.09616	340.92509	244.94794	140.37150	34.28057	34.28057			1.38101	8.74143	0.08092	
5.46489	0.12294	474.86080	289.26550	121.40006	261.44735	261.44735			3.67544	14.86886	0.11380	
1.56882	0.03529	138.66769	79.50688	34.29470	231.19717	231.19717			1.16793	4.14588	0.03325	
1.94577	0.04378	180.74344	103.65441	36.34297	798.31429	798.31429			1.36345	4.44386	0.04337	
6.34792	0.14282	589.66173	370.00687	124.26952	313.08708	313.08708			6.02190	16.10783	0.14150	
3.73781	0.08410	369.80986	392.48455	30.89770	1,582.65718	1,582.65718			6.29828	9.21432	0.08871	
4.21486	0.09483	391.52088	356.88606	120.75245	444.79161	444.79161			5.05613	12.56114	0.09395	
1.55220	0.03492	144.18488	74.78862	11.72354	591.51508	591.51508			0.96578	2.76705	0.03460	
Source Apportionment 2018 Baseline												
Petrol LGVs (g/km)	Plug-In Hybrid	Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
16.49992	0.00000	1203.32544	720.91547	446.98050	3833.60907	3815.96582	0.55281	17.09044	8.12245	0.00000	0.00000	
14.78889	0.00000	963.70636	1377.91785	816.50555	378.48303	376.85672	0.06975	1.55656	6.75708	0.00000	0.00000	
2.97270	-	2,228.86474	1,059.41958	442.77205	1659.39847	1,641.95432	0.38422	17.05993	13.57481	-	-	
0.85264	-	650.68771	285.92426	124.09741	1471.41093	1,455.93003	0.31050	15.17040	4.34811	-	-	
1.05432	-	845.24567	347.76633	128.59356	5139.99655	5,086.46604	0.86743	52.66308	4.87792	-	-	
3.61483	-	2,897.99994	1,238.07002	439.85659	2010.64467	1,989.70480	0.33932	20.60055	21.74110	-	-	
2.11535	-	1,800.22437	1,172.30206	104.25076	9248.65013	9,151.18845	1.29652	96.16516	22.33060	-	-	
2.39992	-	1,924.00631	1,196.18437	422.27476	2865.48897	2,835.64632	0.48358	29.35906	18.17309	-	-	
0.88371	-	708.46507	251.36400	40.27513	3806.52555	3,766.88248	0.64239	39.00068	3.48374	-	-	
% change 2018 - 2029												
Petrol LGVs (g/km)	Plug-In Hybrid	Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
-69.45%	-	-65.52%	-80.72%	-81.92%	-90.29%	-90.24%	-100.00%	-100.00%	-78.24%	-	-	
-71.10%	-	-64.62%	-82.22%	-82.81%	-90.94%	-90.90%	-100.00%	-100.00%	-79.56%	-	-	
83.84%	-	-78.69%	-72.70%	-72.58%	-84.24%	-84.08%	-100.00%	-100.00%	-72.92%	-	-	
84.00%	-	-78.69%	-72.19%	-72.36%	-84.29%	-84.12%	-100.00%	-100.00%	-73.14%	-	-	
84.55%	-	-78.62%	-70.19%	-71.74%	-84.47%	-84.31%	-100.00%	-100.00%	-72.05%	-	-	
75.61%	-	-79.65%	-70.11%	-71.75%	-84.43%	-84.26%	-100.00%	-100.00%	-72.30%	-	-	
76.70%	-	-79.46%	-66.52%	-70.36%	-82.89%	-82.71%	-100.00%	-100.00%	-71.80%	-	-	
75.63%	-	-79.65%	-70.16%	-71.40%	-84.48%	-84.31%	-100.00%	-100.00%	-72.18%	-	-	
75.65%	-	-79.65%	-70.25%	-70.89%	-84.46%	-84.30%	-100.00%	-100.00%	-72.28%	-	-	
Absolute Difference 2018 - 2029												
Petrol LGVs (g/km)	Plug-In Hybrid	Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
-11.44	0.11	-788.43	-581.95	-366.17	-3461.23	-3443.58	-0.55	-17.09	-6.35	11.25	0.10	
-10.51	0.10	-622.78	-1132.97	-676.13	-344.20	-342.58	-0.07	-1.56	-5.38	8.74	0.08	
2.49	0.12	-1754.00	-770.15	-321.37	-1397.95	-1380.51	-0.38	-17.06	-9.90	14.87	0.11	
0.72	0.04	-512.02	-206.42	-89.80	-1240.21	-1224.73	-0.31	-15.17	-3.18	4.15	0.03	
0.89	0.04	-664.50	-244.11	-92.25	-4341.68	-4288.15	-0.87	-52.66	-3.51	4.44	0.04	
2.73	0.14	-2308.34	-868.06	-315.59	-1697.56	-1676.62	-0.34	-20.60	-15.72	16.11	0.14	
1.62	0.08	-1430.41	-779.82	-73.35	-7665.99	-7568.53	-1.30	-96.17	-16.03	9.21	0.09	
1.81	0.09	-1532.49	-839.30	-301.52	-2420.70	-2390.85	-0.48	-29.36	-13.12	12.56	0.09	
0.67	0.03	-564.28	-176.58	-28.55	-3215.01	-3175.37	-0.64	-39.00	-2.52	2.77	0.03	

**Figure G.23 Evaluating Impact - Low EV Uptake scenario including DFT fleet growth (2029)**

2029 Low DFT EFT							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns	2,357.59298	1,765.42821	592.16477	1,346.72779	416.86391	418.08299	914.26021
London Road 40km	1,693.70153	1,274.10153	419.60001	929.98988	342.67214	302.63107	616.18319
Tything	3,303.94091	2,631.82801	672.11290	1,936.23771	520.67938	573.78433	1,344.49524
Foregate St	1,189.33220	844.33346	344.99874	558.56796	152.01950	163.81911	389.74158
Butts	1,899.25313	960.94146	938.31167	647.19354	198.04377	185.32295	456.50343
Bridge St	3,953.30291	3,145.93944	807.36347	2,345.19862	668.83109	671.54429	1,654.20565
The Cross	4,377.13863	2,371.09920	2,006.03943	1,442.17684	419.19993	403.02547	1,028.02596
All Saints Rd	3,298.61100	2,376.18088	922.43012	1,828.82346	444.08739	523.68100	1,289.97607
Lovesmoor	1,344.98011	666.95287	678.02724	402.86544	163.54347	115.35995	284.16454
Source Apportionment 2018 Baseline							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns 2016	10543.678711	5542.173340	5001.504883	4314.255426	1219.795359	598.90297	3715.352458
London Road 2016 40km	6457.609863	3884.703369	2572.906250	2899.451029	978.495253	417.61010	2481.840929
The Tything	12,151.10158	8,989.51148	3,161.59010	5895.660693	2231.837436	788.81024	5106.850452
Foregate Street	4,899.47427	3,018.04167	1,881.43260	1705.579282	651.540352	224.96221	1480.617071
The Butts	9,017.14375	3,400.78731	5,616.35644	1985.501710	846.299989	252.95852	1732.543194
Bridge St	14,425.67511	10,737.10383	3,688.57128	7194.704069	2901.614776	916.62558	6278.078486
The Cross	19,247.43933	8,722.23639	10,525.20294	4436.780170	1802.339715	545.20641	3891.573758
All Saints Road	12,522.89922	8,038.95112	4,483.94810	5610.743552	1926.406226	714.82455	4895.919004
Lovesmoor	6,538.06337	2,439.89869	4,098.16469	1236.019935	709.348776	157.47242	1078.547510
% change 2018 - 2029							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns 2016	-77.64%	-68.15%	-88.16%	-68.78%	-65.83%	-30.19%	-75.39%
London Road 2016 40km	-73.77%	-67.20%	-83.69%	-67.93%	-64.98%	-27.53%	-75.17%
The Tything	-72.81%	-70.72%	-78.74%	-67.16%	-76.67%	-27.26%	-73.67%
Foregate Street	-75.73%	-72.02%	-81.66%	-67.25%	-76.67%	-27.18%	-73.68%
The Butts	-78.94%	-71.74%	-83.29%	-67.40%	-76.60%	-26.74%	-73.65%
Bridge St	-72.60%	-70.70%	-78.11%	-67.40%	-76.95%	-26.74%	-73.65%
The Cross	-77.26%	-72.82%	-80.94%	-67.49%	-76.74%	-26.08%	-73.58%
All Saints Road	-73.66%	-70.44%	-79.43%	-67.40%	-76.95%	-26.74%	-73.65%
Lovesmoor	-79.43%	-72.66%	-83.46%	-67.41%	-76.94%	-26.74%	-73.65%
Absolute Difference 2018 - 2029							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns 2016	-8186.09	-3776.75	-4409.34	-2967.53	-802.93	-180.82	-2801.09
London Road 2016 40km	-4763.91	-2610.60	-2153.31	-1969.46	-635.82	-114.98	-1865.66
The Tything	-8847.16	-6357.68	-2489.48	-3959.42	-1711.16	-215.03	-3762.36
Foregate Street	-3710.14	-2173.71	-1536.43	-1147.01	-499.52	-61.14	-1090.88
The Butts	-7117.89	-2439.85	-4678.04	-1338.31	-648.26	-67.64	-1276.04
Bridge St	-10472.37	-7591.16	-2881.21	-4849.51	-2232.78	-245.08	-4623.87
The Cross	-14870.30	-6351.14	-8519.16	-2994.60	-1383.14	-142.18	-2863.55
All Saints Road	-9224.29	-5662.77	-3561.52	-3781.92	-1482.32	-191.14	-3605.94
Lovesmoor	-5193.08	-1772.95	-3420.14	-833.15	-545.81	-42.11	-794.38

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2029 Low DFT EFT									
Petrol Cars (g/km)	Total Hybrid Petrol Cars	Petrol Plugin		Diesel Cars (g/km)	Taxis	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)		
		Petrol Cars (g/km)	Hybrid Cars (g/km)				Petrol Taxis (g/km)	Hybrid Taxis (g/km)	Diesel Taxis (g/km)
417.28653	0.79646	0.79646		914.26021		-	-	-	-
302.05522	0.57585	0.57585		616.18319		-	-	-	-
572.68991	1.09442	1.09442		1,344.49524		171.15381	0.06639	0.33122	170.75620
163.50656	0.31255	0.31255		389.74158		132.55463	0.05174	0.25817	132.24472
184.96916	0.35380	0.35380		456.50343		114.31161	0.04452	0.22216	114.04493
670.26226	1.28203	1.28203		1,654.20565		125.78962	0.04899	0.24446	125.49617
402.25565	0.76981	0.76981		1,028.02596		503.36631	0.19073	0.95186	502.22373
522.68125	0.99975	0.99975		1,289.97607		98.14870	0.03823	0.19074	97.91973
115.13971	0.22023	0.22023		284.16454		99.55417	0.03877	0.19348	99.32192
Source Apportionment 2018 Baseline									
Petrol Cars (g/km)	Total Hybrid Petrol Cars	Plug-In Hybrid		Full Hybrid		Petrol Hybrid Taxis			
		Petrol Cars (g/km)	Petrol Cars (g/km)	Petrol Cars (g/km)	Diesel Cars (g/km)	Taxis (g/km)			
594.707397	4.195571	0.056318	4.139253	3707.015625	8.336833	0.000000			
414.667297	2.942804	0.039987	2.902816	2476.249756	5.591173	0.000000			
777.48545	11.324787	2.05077	9.27402	5,090.53681	16.31364	848.43855			
221.72319	3.239018	0.58628	2.65274	1,475.88773	4.72934	656.57392			
249.29193	3.666589	0.66320	3.00339	1,727.00281	5.54038	564.10768			
903.33926	13.286327	2.40317	10.88316	6,258.00224	20.07625	619.04389			
537.25845	7.947961	1.43683	6.51113	3,879.09080	12.48296	2,460.78590			
704.46329	10.361257	1.87410	8.48716	4,880.26267	15.65633	483.62825			
155.18989	2.282535	0.41285	1.86968	1,075.09849	3.44902	491.04624			
% change 2018 - 2029									
Petrol Cars (g/km)	Total Hybrid Petrol Cars	Plug-In Hybrid		Full Hybrid		Petrol Hybrid Taxis			
		Petrol Cars (g/km)	Petrol Cars (g/km)	Petrol Cars (g/km)	Diesel Cars (g/km)	Taxis (g/km)			
-29.83%	-81.02%	1314.23%	-100.00%	-75.34%	-100.00%	-			
-27.16%	-80.43%	1340.09%	-100.00%	-75.12%	-100.00%	-			
-26.34%	-90.34%	-46.63%	-100.00%	-73.59%	-100.00%	-79.83%			
-26.26%	-90.35%	-46.69%	-100.00%	-73.59%	-100.00%	-79.81%			
-25.80%	-90.35%	-46.65%	-100.00%	-73.57%	-100.00%	-79.74%			
-25.80%	-90.35%	-46.65%	-100.00%	-73.57%	-100.00%	-79.68%			
-25.13%	-90.31%	-46.42%	-100.00%	-73.50%	-100.00%	-79.54%			
-25.80%	-90.35%	-46.65%	-100.00%	-73.57%	-100.00%	-79.71%			
-25.81%	-90.35%	-46.66%	-100.00%	-73.57%	-100.00%	-79.73%			
Absolute Difference 2018 - 2029									
Petrol Cars (g/km)	Total Hybrid Petrol Cars	Plug-In Hybrid		Full Hybrid		Petrol Hybrid Taxis			
		Petrol Cars (g/km)	Petrol Cars (g/km)	Petrol Cars (g/km)	Diesel Cars (g/km)	Taxis (g/km)			
-177.42	-3.40	0.74	-4.14	-2792.76	-8.34	0.00			
-112.61	-2.37	0.54	-2.90	-1860.07	-5.59	0.00			
-204.80	-10.23	-0.96	-9.27	-3746.04	-16.31	-677.28			
-58.22	-2.93	-0.27	-2.65	-1086.15	-4.73	-524.02			
-64.32	-3.31	-0.31	-3.00	-1270.50	-5.54	-449.80			
-233.08	-12.00	-1.12	-10.88	-4603.80	-20.08	-493.25			
-135.00	-7.18	-0.67	-6.51	-2851.06	-12.48	-1957.42			
-181.78	-9.36	-0.87	-8.49	-3590.29	-15.66	-385.48			
-40.05	-2.06	-0.19	-1.87	-790.93	-3.45	-391.49			

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2029 Low DFT EFT											
Petrol LGVs	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Conventional Buses (g/km)			Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
4.78305	0.06886	411.98594	138.96893	80.81408	372.38176	372.38176			1.76765	14.38458	0.09492
4.06276	0.05849	338.53179	244.94794	140.37150	34.28057	34.28057			1.38101	11.17561	0.07759
5.67178	0.08166	514.88845	289.26550	121.40006	261.44735	261.44735			3.67544	17.95815	0.11915
1.62822	0.02344	150.35646	79.50688	34.29470	231.19717	231.19717			1.16793	5.00727	0.03482
2.01943	0.02908	195.97893	103.65441	36.34297	798.31429	798.31429			1.36345	5.36716	0.04541
6.82000	0.09820	661.85772	370.00687	124.26952	313.08708	313.08708			6.02190	19.44868	0.15337
4.01578	0.05783	415.08801	392.48455	30.89770	1,582.65718	1,582.65718			6.29828	11.12542	0.09615
4.52831	0.06521	439.45724	356.88606	120.75245	444.79161	444.79161			5.05613	15.16639	0.10183
1.66763	0.02401	161.83834	74.78862	11.72354	591.51508	591.51508			0.96578	3.34095	0.03750
Source Apportionment 2018 Baseline											
Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
16.469919	0.000000	1203.325439	720.915466	446.980499	3833.609075	3815.965820	0.552810	17.090445	8.122445	-	-
14.788893	0.000000	963.706360	1377.917847	816.505554	378.483029	376.856720	0.069751	1.556559	6.757076	-	-
2.97270	-	2,228.86474	1,059.41958	442.77205	1659.398465	1,641.95432	0.38422	17.05993	13.57481	-	-
0.85264	-	650.68771	285.92426	124.09741	1471.410929	1,455.93003	0.31050	15.17040	4.34811	-	-
1.05432	-	845.24567	347.76633	128.59356	5139.996549	5,086.46604	0.86743	52.66308	4.87792	-	-
3.61483	-	2,897.99994	1,238.07002	439.85659	2010.644667	1,989.70480	0.33932	20.60055	21.74110	-	-
2.11535	-	1,800.22437	1,172.30206	104.25076	9248.650126	9,151.18845	1.29652	96.16516	22.33060	-	-
2.39992	-	1,924.00631	1,196.18437	422.27476	2865.488965	2,835.64632	0.48358	29.35906	18.17309	-	-
0.88371	-	708.46507	251.36400	40.27513	3806.525551	3,766.88248	0.64239	39.00068	3.48374	-	-
% change 2018 - 2029											
Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
-70.96%	-	-65.76%	-80.72%	-81.92%	-90.29%	-90.24%	-100.00%	-100.00%	-78.24%	-	-
-72.53%	-	-64.87%	-82.22%	-82.81%	-90.94%	-90.90%	-100.00%	-100.00%	-79.56%	-	-
90.80%	-	-76.90%	-72.70%	-72.58%	-84.24%	-84.08%	-100.00%	-100.00%	-72.92%	-	-
90.96%	-	-76.89%	-72.19%	-72.36%	-84.29%	-84.12%	-100.00%	-100.00%	-73.14%	-	-
91.54%	-	-76.81%	-70.19%	-71.74%	-84.47%	-84.31%	-100.00%	-100.00%	-72.05%	-	-
88.67%	-	-77.16%	-70.11%	-71.75%	-84.43%	-84.26%	-100.00%	-100.00%	-72.30%	-	-
89.84%	-	-76.94%	-66.52%	-70.36%	-82.89%	-82.71%	-100.00%	-100.00%	-71.80%	-	-
88.69%	-	-77.16%	-70.16%	-71.40%	-84.48%	-84.31%	-100.00%	-100.00%	-72.18%	-	-
88.71%	-	-77.16%	-70.25%	-70.89%	-84.46%	-84.30%	-100.00%	-100.00%	-72.28%	-	-
Absolute Difference 2018 - 2029											
Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
-11.69	0.07	-791.34	-581.95	-366.17	-3461.23	-3443.58	-0.55	-17.09	-6.35	14.38	0.09
-10.73	0.06	-625.17	-1132.97	-676.13	-344.20	-342.58	-0.07	-1.56	-5.38	11.18	0.08
2.70	0.08	-1713.98	-770.15	-321.37	-1397.95	-1380.51	-0.38	-17.06	-9.90	17.96	0.12
0.78	0.02	-500.33	-206.42	-89.80	-1240.21	-1224.73	-0.31	-15.17	-3.18	5.01	0.03
0.97	0.03	-649.27	-244.11	-92.25	-4341.68	-4288.15	-0.87	-52.66	-3.51	5.37	0.05
3.21	0.10	-2236.14	-868.06	-315.59	-1697.56	-1676.62	-0.34	-20.60	-15.72	19.45	0.15
1.90	0.06	-1385.14	-779.82	-73.35	-7665.99	-7568.53	-1.30	-96.17	-16.03	11.13	0.10
2.13	0.07	-1484.55	-839.30	-301.52	-2420.70	-2390.85	-0.48	-29.36	-13.12	15.17	0.10
0.78	0.02	-546.63	-176.58	-28.55	-3215.01	-3175.37	-0.64	-39.00	-2.52	3.34	0.04

**Figure G.24 Evaluating Impact - Medium EV Uptake scenario including DFT fleet growth (2029)**

2029 Medium DFT EFT							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns	2,088.93933	1,496.77456	592.16477	1,121.75871	373.24820	369.13557	740.22902
London Road 40km	1,503.52704	1,083.92703	419.60001	775.71905	306.82697	267.19832	498.89153
Tything	2,922.62066	2,250.50776	672.11290	1,610.65311	466.18321	506.61194	1,088.56797
Foregate St	1,078.44097	733.44223	344.99874	464.50913	136.10690	144.64122	315.55352
Butts	1,768.38092	830.06925	938.31167	537.85989	177.30739	163.62829	369.60712
Bridge St	3,486.13715	2,678.77368	807.36347	1,949.01246	598.80042	592.93057	1,339.32441
The Cross	4,085.35762	2,079.31819	2,006.03943	1,197.77202	375.29137	355.84684	832.33923
All Saints Rd	2,942.43105	2,020.00093	922.43012	1,519.87114	397.58875	462.37676	1,044.42664
Lowesmoor	1,259.10073	581.07350	678.02724	334.80736	146.41948	101.85544	230.07327
Source Apportionment 2018 Baseline							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns 2016	10543.678711	5542.173340	5001.504883	4314.255426	1219.795359	598.90297	3715.352458
London Road 2016 40k	6457.609863	3884.703369	2572.906250	2899.451029	978.495253	417.61010	2481.840929
The Tything	12,151.10158	8,989.51148	3,161.59010	5895.660693	2231.837436	788.81024	5106.850452
Foregate Street	4,899.47427	3,018.04167	1,881.43260	1705.579282	651.540352	224.96221	1480.617071
The Butts	9,017.14375	3,400.78731	5,616.35644	1985.501710	846.299989	252.95852	1732.543194
Bridge St	14,425.67511	10,737.10383	3,688.57128	7194.704069	2901.614776	916.62558	6278.078486
The Cross	19,247.43933	8,722.23639	10,525.20294	4436.780170	1802.339715	545.20641	3891.573758
All Saints Road	12,522.89922	8,038.95112	4,483.94810	5610.743552	1926.406226	714.82455	4895.919004
Lowesmoor	6,538.06337	2,439.89869	4,098.16469	1236.019935	709.348776	157.47242	1078.547510
% Change 2018 - 2029							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns 2016	-80.19%	-72.99%	-88.16%	-74.00%	-69.40%	-38.36%	-80.08%
London Road 2016 40k	-76.72%	-72.10%	-83.69%	-73.25%	-68.64%	-36.02%	-79.90%
The Tything	-75.95%	-74.97%	-78.74%	-72.68%	-79.11%	-35.78%	-78.68%
Foregate Street	-77.99%	-75.70%	-81.66%	-72.77%	-79.11%	-35.70%	-78.69%
The Butts	-80.39%	-75.59%	-83.29%	-72.91%	-79.05%	-35.31%	-78.67%
Bridge St	-75.83%	-75.05%	-78.11%	-72.91%	-79.36%	-35.31%	-78.67%
The Cross	-78.77%	-76.16%	-80.94%	-73.00%	-79.18%	-34.73%	-78.61%
All Saints Road	-76.50%	-74.87%	-79.43%	-72.91%	-79.36%	-35.32%	-78.67%
Lowesmoor	-80.74%	-76.18%	-83.46%	-72.91%	-79.36%	-35.32%	-78.67%
Absolute Difference 2018 - 2029							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars
St Johns 2016	-8454.74	-4045.40	-4409.34	-3192.50	-846.55	-229.77	-2975.12
London Road 2016 40k	-4954.08	-2800.78	-2153.31	-2123.73	-671.67	-150.41	-1982.95
The Tything	-9228.48	-6739.00	-2489.48	-4285.01	-1765.65	-282.20	-4018.28
Foregate Street	-3821.03	-2284.60	-1536.43	-1241.07	-515.43	-80.32	-1165.06
The Butts	-7248.76	-2570.72	-4678.04	-1447.64	-668.99	-89.33	-1362.94
Bridge St	-10939.54	-8058.33	-2881.21	-5245.69	-2302.81	-323.70	-4938.75
The Cross	-15162.08	-6642.92	-8519.16	-3239.01	-1427.05	-189.36	-3059.23
All Saints Road	-9580.47	-6018.95	-3561.52	-4090.87	-1528.82	-252.45	-3851.49
Lowesmoor	-5278.96	-1858.83	-3420.14	-901.21	-562.93	-55.62	-848.47

<b>2029 Medium DFT EFT</b>									
Total Hybrid Petrol Cars	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Hybrid Taxis (g/km)	Diesel Taxis (g/km)
3.01815	366.11742	3.01815		740.22902		-	-	-	-
2.18215	265.01617	2.18215		498.89153		-	-	-	-
4.14723	502.46470	4.14723		1,088.56797		169.99600	0.06639	0.39746	169.53214
1.18439	143.45683	1.18439		315.55352		131.65827	0.05174	0.30980	131.29673
1.34069	162.28760	1.34069		369.60712		113.53851	0.04452	0.26659	113.22741
4.85817	588.07240	4.85817		1,339.32441		124.93890	0.04899	0.29336	124.59655
2.91716	352.92968	2.91716		832.33923		499.95651	0.19073	1.14223	498.62356
3.78848	458.58828	3.78848		1,044.42664		97.48491	0.03823	0.22889	97.21779
0.83455	101.02089	0.83455		230.07327		98.88088	0.03877	0.23217	98.60993

  

<b>Source Apportionment 2018 Baseline</b>									
Total Hybrid Petrol Cars	Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)			
4.195571	594.707397	0.056318	4.139253	3707.015625	8.336833	0.000000			
2.942804	414.667297	0.039987	2.902816	2476.249756	5.591173	0.000000			
11.324787	777.48545	2.05077	9.27402	5,090.53681	16.31364	848.43855			
3.239018	221.72319	0.58628	2.65274	1,475.88773	4.72934	656.57392			
3.666589	249.29193	0.66320	3.00339	1,727.00281	5.54038	564.10768			
13.286327	903.33926	2.40317	10.88316	6,258.00224	20.07625	619.04389			
7.947961	537.25845	1.43683	6.51113	3,879.09080	12.48296	2,460.78590			
10.361257	704.46329	1.87410	8.48716	4,880.26267	15.65633	483.62825			
2.282535	155.18989	0.41285	1.86968	1,075.09849	3.44902	491.04624			

  

<b>% Change 2018 - 2029</b>									
Total Hybrid Petrol Cars	Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)			
-28.06%	-38.44%	5259.11%	-100.00%	-80.03%	-100.00%	-			
-25.85%	-36.09%	5357.12%	-100.00%	-79.85%	-100.00%	-			
-63.38%	-35.37%	102.23%	-100.00%	-78.62%	-100.00%	-79.96%			
-63.43%	-35.30%	102.02%	-100.00%	-78.62%	-100.00%	-79.95%			
-63.44%	-34.90%	102.16%	-100.00%	-78.60%	-100.00%	-79.87%			
-63.43%	-34.90%	102.16%	-100.00%	-78.60%	-100.00%	-79.82%			
-63.30%	-34.31%	103.03%	-100.00%	-78.54%	-100.00%	-79.68%			
-63.44%	-34.90%	102.15%	-100.00%	-78.60%	-100.00%	-79.84%			
-63.44%	-34.90%	102.14%	-100.00%	-78.60%	-100.00%	-79.86%			

  

<b>Absolute Difference 2018 - 2029</b>									
Total Hybrid Petrol Cars	Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)			
-1.18	-228.59	2.96	-4.14	-2966.79	-8.34	0.00			
-0.76	-149.65	2.14	-2.90	-1977.36	-5.59	0.00			
-7.18	-275.02	2.10	-9.27	-4001.97	-16.31	-678.44			
-2.05	-78.27	0.60	-2.65	-1160.33	-4.73	-524.92			
-2.33	-87.00	0.68	-3.00	-1357.40	-5.54	-450.57			
-8.43	-315.27	2.45	-10.88	-4918.68	-20.08	-494.10			
-5.03	-184.33	1.48	-6.51	-3046.75	-12.48	-1960.83			
-6.57	-245.88	1.91	-8.49	-3835.84	-15.66	-386.14			
-1.45	-54.17	0.42	-1.87	-845.03	-3.45	-392.17			

## Worcester City Council

2029 Medium DFT EFT											
Petrol LGVs (g/km)	Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Conventional Buses (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
4.47068	0.10057	368.58901	138.96893	80.81408	372.38176	372.38176			1.76765	12.39412	0.08794
3.79743	0.08543	302.87222	244.94794	140.37150	34.28057	34.28057			1.38101	9.62919	0.07189
5.30137	0.11926	460.65218	289.26550	121.40006	261.44735	261.44735			3.67544	15.47320	0.11039
1.52188	0.03424	134.51852	79.50688	34.29470	231.19717	231.19717			1.16793	4.31439	0.03226
1.88755	0.04247	175.33530	103.65441	36.34297	798.31429	798.31429			1.36345	4.62448	0.04207
6.37460	0.14342	592.14031	370.00687	124.26952	313.08708	313.08708			6.02190	16.75748	0.14209
3.75352	0.08445	371.36432	392.48455	30.89770	1,582.65718	1,582.65718			6.29828	9.58594	0.08908
4.23258	0.09523	393.16660	356.88606	120.75245	444.79161	444.79161			5.05613	13.06775	0.09435
1.55873	0.03507	144.79094	74.78862	11.72354	591.51508	591.51508			0.96578	2.87865	0.03475

  

Source Apportionment 2018 Baseline											
Petrol LGVs (g/km)	Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
16.469919	0.000000	1203.325439	720.915466	446.980499	3833.609075	3815.965820	0.552810	17.090445	8.122445	0.000000	0.000000
14.788893	0.000000	963.706360	1377.917847	816.505554	378.483029	376.856720	0.069751	1.556559	6.757076	0.000000	0.000000
2.97270	-	2,228.86474	1,059.41958	442.77205	1659.398465	1,641.95432	0.38422	17.05993	13.57481	-	-
0.85264	-	650.68771	285.92426	124.09741	1471.410929	1,455.93003	0.31050	15.17040	4.34811	-	-
1.05432	-	845.24567	347.76633	128.59356	5139.996549	5,086.46604	0.86743	52.66308	4.87792	-	-
3.61483	-	2,897.99994	1,238.07002	439.85659	2010.644667	1,989.70480	0.33932	20.60055	21.74110	-	-
2.11535	-	1,800.22437	1,172.30206	104.25076	9248.650126	9,151.18845	1.29652	96.16516	22.33060	-	-
2.39992	-	1,924.00631	1,196.18437	422.27476	2865.488965	2,835.64632	0.48358	29.35906	18.17309	-	-
0.88371	-	708.46507	251.36400	40.27513	3806.525551	3,766.88248	0.64239	39.00068	3.48374	-	-

  

% Change 2018 - 2029											
Petrol LGVs (g/km)	Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
-72.86%	-	-69.37%	-80.72%	-81.92%	-90.29%	-90.24%	-100.00%	-100.00%	-78.24%	-	-
-74.32%	-	-68.57%	-82.22%	-82.81%	-90.94%	-90.90%	-100.00%	-100.00%	-79.56%	-	-
78.34%	-	-79.33%	-72.70%	-72.58%	-84.24%	-84.08%	-100.00%	-100.00%	-72.92%	-	-
78.49%	-	-79.33%	-72.19%	-72.36%	-84.29%	-84.12%	-100.00%	-100.00%	-73.14%	-	-
79.03%	-	-79.26%	-70.19%	-71.74%	-84.47%	-84.31%	-100.00%	-100.00%	-72.05%	-	-
76.35%	-	-79.57%	-70.11%	-71.75%	-84.43%	-84.26%	-100.00%	-100.00%	-72.30%	-	-
77.44%	-	-79.37%	-66.52%	-70.36%	-82.89%	-82.71%	-100.00%	-100.00%	-71.80%	-	-
76.36%	-	-79.57%	-70.16%	-71.40%	-84.48%	-84.31%	-100.00%	-100.00%	-72.18%	-	-
76.39%	-	-79.56%	-70.25%	-70.89%	-84.46%	-84.30%	-100.00%	-100.00%	-72.28%	-	-

  

Absolute Difference 2018 - 2029											
Petrol LGVs (g/km)	Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses	Buses/Coaches (g/km)	CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
-12.00	0.10	-834.74	-581.95	-366.17	-3461.23	-3443.58	-0.55	-17.09	-6.35	12.39	0.09
-10.99	0.09	-660.83	-1132.97	-676.13	-344.20	-342.58	-0.07	-1.56	-5.38	9.63	0.07
2.33	0.12	-1768.21	-770.15	-321.37	-1397.95	-1380.51	-0.38	-17.06	-9.90	15.47	0.11
0.67	0.03	-516.17	-206.42	-89.80	-1240.21	-1224.73	-0.31	-15.17	-3.18	4.31	0.03
0.83	0.04	-669.91	-244.11	-92.25	-4341.68	-4288.15	-0.87	-52.66	-3.51	4.62	0.04
2.76	0.14	-2305.86	-868.06	-315.59	-1697.56	-1676.62	-0.34	-20.60	-15.72	16.76	0.14
1.64	0.08	-1428.86	-779.82	-73.35	-7665.99	-7568.53	-1.30	-96.17	-16.03	9.59	0.09
1.83	0.10	-1530.84	-839.30	-301.52	-2420.70	-2390.85	-0.48	-29.36	-13.12	13.07	0.09
0.68	0.04	-563.67	-176.58	-28.55	-3215.01	-3175.37	-0.64	-39.00	-2.52	2.88	0.03

## Summary of Impact of Measures Supporting Transition to Electric Vehicle Parc 2018 – 2029

**Figure G.25 Impact of Transition to EV 2018 – 2023**

NEVIS 2018 - 2023						
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Combined reduction (g/km)	Avg% of Total emission	% of Required Reduction	Compliant
St Johns 2016	-1429.6584	-279.7156	-1709.3740	-16.21%	-95.37%	N
London Road 2016 40km	-935.8927	-212.2232	-1148.1159	-17.78%	-62.38%	N
The Tything	-1554.4299	-999.9419	-2554.3718	-26.63%	-77.86%	N
Foregate Street	-450.4336	-291.8205	-742.2541	-6.11%	-50.50%	N
The Butts	-525.3663	-378.5114	-903.8777	-18.45%	-26.38%	N
Bridge St	-1903.6940	-1298.5606	-3202.2546	<b>-35.51%</b>	-79.28%	N
The Cross	-1174.3703	-802.0112	-1976.3815	-13.70%	-41.07%	N
All Saints Road	-1484.7288	-862.0177	-2346.7465	-12.19%	-107.08%	Y
Lowesmoor	-327.1138	-317.3678	-644.4816	<b>-5.15%</b>	-179.23%	Y

**Figure G.26 Impact of Transition to EV of All Modelling Scenarios 2018 - 2029**

2018 - 2029	NEVIS growth Low uptake				NEVIS growth Medium uptake				DfT growth Low Uptake				DfT growth Medium uptake				Average % of Total Emissions	
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Combined reduction (g/km)	Avg% of Total emission	Total Cars (g/km)	Total LGVs (g/km)	Combined reduction (g/km)	Avg% of Total emission	Total Cars (g/km)	Total LGVs (g/km)	Combined reduction (g/km)	Avg% of Total emission	Total Cars (g/km)	Total LGVs (g/km)	Combined reduction (g/km)	Avg% of Total emission	Avg	Median
St Johns	-3090.3057	-750.9910	-3841.2966	-36.43%	-3295.9178	-799.6522	-4095.5701	-38.84%	-2967.5276	-802.9314	-3770.4591	-35.76%	-3192.4967	-846.5472	-4039.0439	-38.31%	-37.34%	-37.37%
London Road	-2054.2462	-593.1247	-2647.3708	-41.00%	-2195.2498	-633.1158	-2828.3683	-43.80%	-1969.4612	-635.8231	-2605.2843	-40.34%	-2123.7320	-671.6683	-2795.4003	-43.29%	-42.11%	-42.14%
The Tything	-4033.0361	-1695.6009	-5728.637	-59.72%	-4347.9155	-1751.2750	-6099.1905	-63.58%	-3959.4230	-1711.1581	-5670.5810	-59.11%	-4285.0076	-1765.6542	-6050.6618	-63.07%	-61.37%	-61.40%
Foregate Street	-1168.2473	-494.9791	-1663.2265	-13.69%	-1259.2127	-511.2353	-1770.4480	-14.57%	-1147.0113	-499.5209	-1646.5322	-13.55%	-1241.0702	-515.4335	-1756.5036	-14.46%	-14.07%	-14.07%
The Butts	-1362.9136	-642.3410	-2005.2546	-40.93%	-1468.6492	-663.5236	-2132.1728	-43.52%	-1338.3082	-648.2562	-1986.5644	-40.55%	-1447.6418	-668.9926	-2116.6344	-43.20%	-42.05%	-42.06%
Bridge St	-4937.9999	-2236.2152	-7174.2151	-79.56%	-5321.2508	-2305.3208	-7626.5716	-84.58%	-4849.5054	-2232.7837	-7082.2891	-78.54%	-5245.6916	-2302.8144	-7548.5060	-83.71%	<span style="background-color: green;">-81.60%</span>	-81.64%
The Cross	-3049.0229	-1385.2942	-4434.3171	-30.74%	-3285.4433	-1428.6192	-4714.0625	-32.68%	-2994.6033	-1383.1398	-4377.7431	-30.35%	-3239.0082	-1427.0483	-4666.0565	-32.35%	-31.53%	-31.54%
All Saints Road	-3850.9295	-1484.5973	-5335.5268	-27.72%	-4149.7947	-1530.4817	-5680.2764	-29.51%	-3781.9201	-1482.3188	-5264.2389	-27.35%	-4090.8724	-1528.8175	-5619.6899	-29.20%	-28.44%	-28.46%
Lowesmoor	-848.35635	-546.6444	-1395.0007	-11.14%	-914.1924	-563.5422	-1477.7345	-11.80%	-833.1545	-545.8053	-1378.9598	-11.01%	-901.2126	-562.9293	-1464.1419	-11.69%	<span style="background-color: red;">-11.41%</span>	-11.42%

**Figure G.27 Impact of Transition to EV of All Modelling Scenarios 2023 – 2029**

2023 - 2029	NEVIS growth Low uptake				NEVIS growth Medium uptake				DfT growth Low Uptake				DfT growth Medium uptake				Average % of Total Emissions	
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Combined reduction (g/km)	Avg% of Total emission	Total Cars (g/km)	Total LGVs (g/km)	Combined reduction (g/km)	Avg% of Total emission	Total Cars (g/km)	Total LGVs (g/km)	Combined reduction (g/km)	Avg% of Total emission	Total Cars (g/km)	Total LGVs (g/km)	Combined reduction (g/km)	Avg% of Total emission	Avg	Median
St Johns 2016	-1660.6472	-471.2754	-2131.9227	-20.22%	-1866.2594	-519.9367	-2386.1961	-22.63%	-1537.8692	-523.2159	-2061.0851	-19.55%	-1762.8383	-566.8316	-2329.6699	-22.10%	-21.12%	-21.16%
London Road 2016	-1115.4506	-380.9015	-1496.3521	-23.17%	-1256.4542	-420.8954	-1677.3496	-25.97%	-1030.6656	-423.5999	-1454.2655	-22.52%	-1184.9364	-459.4451	-1644.3815	-25.46%	-24.28%	-24.32%
The Tything	-2469.3322	-695.6590	-3164.9912	-32.99%	-2784.2115	-751.3331	-3535.5447	-36.86%	-2395.7190	-711.2162	-3106.9352	-32.39%	-2721.3036	-765.7124	-3487.0160	-36.35%	-34.65%	-34.67%
Foregate Street	-715.1610	-203.1587	-918.3196	-7.56%	-806.1263	-219.4148	-1025.5411	-8.44%	-693.9250	-207.7004	-901.6253	-7.42%	-787.9838	-223.6130	-1011.5968	-8.33%	-7.94%	-7.94%
The Butts	-834.5439	-263.8296	-1098.3735	-22.42%	-940.2795	-285.0122	-1225.2918	-25.01%	-809.9385	-269.7448	-1079.6833	-22.04%	-919.2721	-290.4812	-1209.7533	-24.69%	-23.54%	-23.55%
Bridge St	-3023.4228	-937.6546	-3961.0774	-43.93%	-3406.6736	-1006.7602	-4413.4338	-48.94%	-2934.9283	-934.2231	-3869.1514	-42.91%	-3331.1144	-1004.2538	-4335.3682	-48.08%	<span style="background-color: green;">-45.97%</span>	-46.00%
The Cross	-1868.1415	-583.2831	-2451.4245	-16.99%	-2104.5619	-626.6081	-2731.1699	-18.93%	-1813.7219	-581.1286	-2394.8505	-16.60%	-2058.1267	-625.0372	-2683.1639	-18.60%	-17.78%	-17.80%
All Saints Road	-2357.7135	-622.5796	-2980.2931	-15.48%	-2656.5787	-668.4640	-3325.0427	-17.28%	-2288.7041	-620.3011	-2909.0052	-15.11%	-2597.6564	-666.7998	-3264.4562	-16.96%	-16.21%	-16.22%
Lowesmoor	-519.3729	-229.2766	-748.6494	-5.98%	-585.2089	-246.1744	-831.3832	-6.64%	-504.1710	-228.4375	-732.6085	-5.85%	-572.2291	-245.5615	-817.7906	-6.53%	<span style="background-color: red;">-6.25%</span>	-6.25%

**Table G.1 Summary of Impact of Transition to EV 2018 - 2029**

Total EV Δ 2018 -29	Average Cars and LGV combined reduction (g/km)	Average % Δ Total Road Emissions	% of Required Reduction	Impact Banding	Compliance Achieved
St Johns	-3936.59	-37.34%	-225%	Very Large	Y
London Road	-2719.11	-42.11%	-152%	Very Large	Y
The Tything	-5887.27	-61.37%	-184%	Very Large	Y
Foregate Street	-1709.18	-14.07%	-120%	Small	Y
The Butts	-2060.16	-42.05%	-62%	Very Large	N
Bridge St	-7357.90	-81.60%	-187%	Very Large	Y
The Cross	-4548.04	-31.53%	-97%	Large	N
All Saints Road	-5474.93	-28.44%	-256%	Large	Y
Lowesmoor	-1428.96	-11.41%	-407%	Small	Y

**Table G.2 Range of Average Change in Total Road Emissions from Transition to EV**

Source Name	Range Min. (2023 - 2029)	Range Max. (2018 - 2029)	Average
St Johns	-21.12%	-37.34%	-29.23%
London Road	-24.28%	-42.11%	-33.19%
The Tything	-34.65%	-61.37%	-48.01%
Foregate Street	-7.94%	-14.07%	-11.00%
The Butts	-23.54%	-42.05%	-32.79%
Bridge St	-45.97%	-81.60%	-63.78%
The Cross	-17.78%	-31.53%	-24.65%
All Saints Road	-16.21%	-28.44%	-22.33%
Lowesmoor	-6.25%	-11.41%	-8.83%
Average	<b>-21.97%</b>	<b>-38.88%</b>	<b>-30.42%</b>

## HGV Signage

**Figure G.28 Proportion of Vehicle Types for EFT (All Vehicles) including impact of local network improvements and HGV fleet growth 2023 from local traffic data (2019 - 2023)**

Area of Poor AQ	St Johns	London Road	The Tything	Foregate St	The Butts	Bridge St	The Cross	All Saints Rd	Lowesmoor
<b>HGV 2019-2023 AADT</b>	<b>16426</b>	<b>13133</b>	<b>21144</b>	<b>6461</b>	<b>7245</b>	<b>22639</b>	<b>15577</b>	<b>17599</b>	<b>4874</b>
Cars	13412	10420	17265	4814	5160	18698	10696	14581	3212
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	1888	1642	2231	632	759	2601	1486	1727	636
HGVs - Rigid	255	565	255	72	71	233	185	224	47
Arctic	162	361	117	34	28	87	16	85	8
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34

<u>Vehicle % for Eft (Option 2 fleet)</u>	AADT	% Car	% Taxi (black cab)	% LGV	% Rigid HGV	% Artic HGV	% Bus and Coach	% Motorcycle	
St Johns	16426	81.65	0.00	11.49	1.55	0.99	3.81	0.51	100.00
London Road 40	13133	79.34	0.00	12.50	4.30	2.75	0.60	0.50	100.00
Tything	21144	81.65	3.86	10.55	1.21	0.55	1.45	0.72	100.00
Foregate St	6461	74.51	9.50	9.78	1.11	0.53	3.84	0.73	100.00
Butts	7245	71.23	6.74	10.48	0.98	0.38	9.54	0.66	100.00
Bridge St	22639	82.59	2.37	11.49	1.03	0.39	1.20	0.94	100.00
The Cross	15577	68.66	12.56	9.54	1.19	0.11	6.63	1.31	100.00
All Saints Rd	17599	82.85	2.38	9.81	1.27	0.48	2.19	1.01	100.00
Lowesmoor	4874	65.90	8.72	13.05	0.96	0.17	10.50	0.70	100.00

**Figure G.29 Vehicle growth factors and fleet upgrade from transition to EV and other measures included in EFT Input (2029)**

Source Apportionment - Traffic Survey Data									
Area	St Johns	London R	The Tythe	Foregate	The Butts	Bridge St	The Cross	All Saints Rd	Lowesmoor
<b>AADT (One Way)</b>	16405	13190	21248	6473	7256	22707	15620	17665	4886
<b>Year</b>	2016	2016	2020	2020	2020	2021	2021	2021	2021
<b>No. vehicles</b>									
Cars	13412	10420	17265	4814	5160	18698	10696	14581	3212
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	1888	1642	2231	632	759	2601	1486	1727	636
HGVs	242	600	326	80	79	282	224	272	57
Arctic	154	383	150	38	31	106	20	103	10
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>Adjustment for Beryl Bikes 2029</b>									
Beryl journeys	22.176	8.448	38.016	4.224	4.224	25.344	2.112	25.344	2.112
Low adj	21.77063812	8.293576	38.31145	4.256827	4.256827	25.54851	2.129043	25.54851386	2.12904282
Med adj	21.74601703	8.284197	38.27008	4.252231	4.252231	25.52107	2.126756	25.52107094	2.12675591
<b>HGV Signage Measure Impact 2029</b>									
HGV -5% 2029 AADT	16405	13087	21126	6456	7240	22623	15567	17584	4872
Cars	13412	10420	17265	4814	5160	18698	10696	14581	3212
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	1888	1642	2231	632	759	2601	1486	1727	636
HGVs - Rigid	242	537	242	68	67	221	176	213	45
Arctic	154	343	111	32	26	83	16	81	8
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>HGV EV Transition Forecast 2029</b>									
HGV EV 12/2023%	0.95%								
HGV Diesel 12/2023%	99.05%								
HGV EV 2029%	4.11%								
HGV Diesel 2029%	95.89%								
<b>Local Taxi Fleet 2029</b>									
	Baseline 2020	Low 2029	Med 2029						
Taxi Petrol 2019-20	0.31%	0.31%	0.31%						
Taxi Hybrid 2019-20	0.63%	3.13%	3.75%						
Taxi Diesel 2019-20	99.06%	87.19%	86.56%						
Taxi EV 2019-20	0.00%	9.38%	9.38%						

**Figure G.30 Proportion of Vehicle Types for EFT (All Vehicles) including NEVIS  
Low EV Uptake scenario (example) (2029)**

2029 NEVIS Low									
Area	St Johns	London Road	The Tything	Foregate St	The Butts	Bridge St	The Cross	All Saints	Lowesmoor
<b>AADT (One Way)</b>	16955	13598	21795	6651	7471	23260	15944	18016	5020
<b>Year</b>	2016	2016	2020	2020	2020	2021	2021	2021	2021
<b>No. vehicles</b>									
Cars	13145	10221	17361	4847	5196	18823	10780	14673	3236
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	2704	2352	2804	794	954	3112	1778	2067	761
HGVs	242	537	242	68	67	221	176	213	45
Arctic	154	343	111	32	26	83	16	81	8
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>No. vehicles EV split</b>									
Petrol Cars	6499	5053	8583	2396	2569	9306	5330	7255	1600
Diesel Cars	2613	2032	3451	963	1033	3742	2143	2917	643
Plug In Hybrid Cars	415	322	548	153	164	594	340	463	102
BEV Cars	3371	2621	4452	1243	1332	4827	2765	3763	830
LPG Cars	248	193	327	91	98	355	203	276	61
Taxis Petrol	0	0	3	2	2	2	6	1	1
Taxis Hybrid	0	0	26	19	15	17	61	13	13
Taxis Diesel	0	0	712	535	425	468	1706	365	371
Taxis EV	0	0	77	58	46	50	183	39	40
Petrol LGVs	86	75	89	25	30	99	56	66	24
Diesel LGVs	1870	1626	1939	549	660	2152	1229	1429	526
Plug in Hybrid Petrol LGVs	35	30	36	10	12	40	23	26	10
Battery EV LGVs	710	617	736	209	250	817	467	543	200
LPG LGVs	4	4	5	1	2	5	3	3	1
Rigid HGVs Diesel	232	515	232	65	65	212	168	204	43
Rigid HGVs Electric	10	22	10	3	3	9	7	9	2
Arctic Diesel	148	329	107	31	25	80	15	77	8
Arctic Electric	6	14	5	1	1	3	1	3	0
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>% vehicles</b>									
Petrol Cars	38.3321403	37.16238001	39.38226938	36.03114679	34.38626	40.010557	33.429107	40.267912	31.86622
Diesel Cars	15.4109112	14.94062512	15.83310119	14.48582832	13.82452	16.085695	13.439714	16.189162	12.81138
Plug In Hybrid Cars	2.44525278	2.370632386	2.512241768	2.298469675	2.19354	2.552321	2.1324824	2.568738	2.032784
BEV Cars	19.8827577	19.27600681	20.42745628	18.68923978	17.83604	20.753347	17.33957	20.886836	16.52891
LPG Cars	1.46033959	1.415775232	1.50034636	1.372678639	1.310013	1.5242822	1.2735487	1.5340867	1.214007
Taxis Petrol	0	0	0.011714291	0.028848554	0.020413	0.0072147	0.0383578	0.007268	0.026455
Taxis Hybrid	0	0	0.117142905	0.288485542	0.204133	0.0721468	0.3835783	0.0726801	0.264548
Taxis Diesel	0	0	3.268287061	8.048746609	5.695309	2.0128949	10.701836	2.0277745	7.380876
Taxis EV	0	0	0.351428716	0.865456625	0.612399	0.2164403	1.150735	0.2180403	0.793643
Petrol LGVs	0.50597739	0.548658516	0.408185725	0.378910872	0.405135	0.4245104	0.3538241	0.3639143	0.480925
Diesel LGVs	11.0266787	11.95682104	8.895521587	8.257539727	8.82903	9.2512819	7.710828	7.9307222	10.48071
Plug in Hybrid Petrol LGVs	0.20360047	0.220774941	0.164250033	0.152470112	0.163022	0.1708189	0.1423754	0.1464356	0.19352
Battery EV LGVs	4.18691254	4.540094571	3.377696222	3.135449728	3.352449	3.5127811	2.9278592	3.0113547	3.979605
LPG LGVs	0.026206	0.028416577	0.021141093	0.019624866	0.020983	0.0219866	0.0183256	0.0188482	0.024908
Rigid HGVs Diesel	1.36976632	3.788980077	1.066042716	0.982821796	0.864071	0.9110445	1.0557452	1.1345358	0.853174
Rigid HGVs Electric	0.05867203	0.162295687	0.045662456	0.042097803	0.037011	0.0390233	0.0452214	0.0485963	0.036545
Arctic Diesel	0.87166948	2.418632283	0.490510452	0.466840353	0.339066	0.3424493	0.094263	0.429622	0.14968
Arctic Electric	0.03733675	0.103598747	0.021010332	0.019996457	0.014523	0.0146683	0.0040376	0.0184023	0.006411
Buses	3.69223346	0.580954017	1.403994284	3.728699117	9.249565	1.1650964	6.479083	2.1370375	10.19846
Motorcycles	0.48954533	0.485353989	0.701997142	0.706648623	0.642517	0.9114407	1.2795091	0.9880329	0.677242

**Figure G.31 EFT Input – Local network improvements and HGV fleet growth  
(2019 – 2023)**

Primary Inputs		Pollutants	Selected	Standard Outputs	Selected	Additional Outputs	Selected
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)		Breakdown by Vehicle	Y
Year	2023	PM <sub>10</sub>		Emissions Rates (g/km)	Y	Source Apportionment	
Traffic Format	Detailed Option 2	PM <sub>2.5</sub>		Annual Link Emissions	Y	PM by Source	
<i>All must be selected</i>		CO <sub>2</sub>					Primary NO <sub>2</sub> Fraction
							Export Outputs

  

SourcID	Road Type	Traffic Flow	% Car	% Taxi (black cab)	% LGV	% Rigid HGV	% Artic HGV
St Johns	Urban (not London)	16425.99528	81.65106449		0	11.49397627	1.551385141
London Road 40	Urban (not London)	13133.2529	79.34058746		0	12.50261465	4.304820076
Tything	Urban (not London)	21144.25428	81.65338805	3.863933857	10.55132978	1.205751964	0.554793849
Foregate St	Urban (not London)	6460.798814	74.51091017	9.503468808	9.782072128	1.110203418	0.527346623
Butts	Urban (not London)	7244.626013	71.22520874	6.736027493	10.47673129	0.977709671	0.383658225
Bridge St	Urban (not London)	22638.9258	82.59225796	2.372020672	11.48906102	1.027095524	0.386071367
The Cross	Urban (not London)	15577.19045	68.66450039	12.56324114	9.53958934	1.185704404	0.105866465
All Saints Rd	Urban (not London)	17599.20664	82.85032557	2.380789138	9.81294234	1.2743636	0.48257151
Lowesmoor	Urban (not London)	4874.24492	65.89738622	8.719299235	13.04817486	0.964239798	0.169164877

Advanced Options	Selected	Click the button to:  Run EFT  Clear Input Data				
Bespoke Base Fleets						
Bespoke Euro Fleet						
Fleet Projection Tool						

% Bus and Coach	% Motorcycle	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load
3.811032387	0.505296626	29	24	0.074			
0.601526527	0.502541149	40	24	1.77			
1.447201665	0.723600832	19	24	0.211753			
3.838534633	0.727464225	17	24	0.313909			
9.538104504	0.662560081	13	24	0.34			
1.197053263	0.936440191	13	24	0.084			
6.631491109	1.30960715	10	24	0.085			
2.187598611	1.011409228	13	24	0.101			
10.50419108	0.697543939	13	24	0.28			

Figure G.32 EFT Input – HGV Signage Forecast (2029)

Primary Inputs		Pollutants		Selected		Standard Outputs		Selected		Additional Outputs		Selected		Advanced Options		Selected		Click the button to:						
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)				Breakdown by Vehicle		Y		Bespoke Base Fleets												
Year	2029	PM <sub>10</sub>		Emissions Rates (g/km)		Y		Source Apportionment				Bespoke Euro Fleet		N										
Traffic Format	All Vehicle Types	PM <sub>2.5</sub>		Annual Link Emissions		Y		PM by Source				Fleet Projection Tool												
All must be selected		CO <sub>2</sub>						Primary NO <sub>2</sub> Fraction		Y														
								Export Outputs																
SourceID	Road Type	Traffic Flow	% Petrol Car	% Petrol Hybrid Car		% Petrol Plugin Hybrid Car		% Diesel Car		% Diesel Hybrid Car		% Electric Car		% Petrol Taxi (black cab)		% Petrol Hybrid Taxi (black cab)		% Diesel Taxi (black cab)						
St Johns	Urban (not London)	16954.50754	38.33214028			0	2.445252784	15.41091119		0	19.8827577	0		0		0		0						
London Road 40km	Urban (not London)	13598.32237	37.16238001			0	2.370632386	14.94062512		0	19.27600681	0		0		0		0						
Tything	Urban (not London)	21794.96053	39.38226938			0	2.512241768	15.83310119		0	20.42745628	0.011714291		0.117142905		3.268287061								
Foregate St	Urban (not London)	6651.113223	36.03114679			0	2.298469675	14.48582832		0	18.68923978	0.028848554		0.288485542		8.048746609								
Butts	Urban (not London)	7470.621277	34.38625624			0	2.193540152	13.82452264		0	17.83604035	0.020413296		0.204132955		5.695309456								
Bridge St	Urban (not London)	23259.87738	40.01055652			0	2.552320951	16.08569542		0	20.75334679	0.007214677		0.072146769		2.012894855								
The Cross	Urban (not London)	15943.61419	33.42910669			0	2.132482445	13.43971379		0	17.33956997	0.038357834		0.383578336		10.70183557								
All Saints Rd	Urban (not London)	18015.59394	40.26791241			0	2.568737989	16.18916182		0	20.88683646	0.007268009		0.072680091		2.02774528								
Lowesmoor	Urban (not London)	5020.364467	31.8662199			0	2.032784039	12.8113766		0	16.52890562	0.026454753		0.264547526		7.380875979								
% Electric Taxi (black cab)	% Petrol LGV	% Petrol Hybrid LGV	% Petrol Plugin Hybrid LGV	% Diesel LGV		% Electric LGV	% Rigid HGV (Diesel)	% Rigid HGV Electric		% Artic HGV (Diesel)	% Artic HGV Electric		% Conventional Bus		% Hybrid Bus		% Electric Bus		% Biogas Bus					
0	0.50597739		0	0.203600466		11.02667868	4.186912544	1.369766322		0.05867203	0.871669478		0.037336749		3.692233459		0		0					
0	0.54865852		0	0.220774941		11.95682104	4.540094571	3.788980077		0.16229569	2.418632283		0.103598747		0.580954017		0		0					
0.351428716	0.40818573		0	0.164250033		8.895521587	3.377696222	1.066042716		0.04566246	0.490510452		0.021010332		1.403994284		0		0					
0.865456625	0.37891087		0	0.152470112		8.257539727	3.135449728	0.982821796		0.0420978	0.466840353		0.019996457		3.728699117		0		0					
0.612398866	0.40513465		0	0.163022308		8.829029948	3.352448849	0.864071148		0.03701128	0.339065894		0.014523416		9.249565389		0		0					
0.216440307	0.42451038		0	0.170818916		9.251281893	3.512781077	0.911044467		0.03902332	0.342449339		0.014668341		1.165096426		0		0					
1.150735008	0.3538241		0	0.142375435		7.710828004	2.927859189	1.055745233		0.04522138	0.094262967		0.004037623		6.479083022		0		0					
0.218040272	0.36391431		0	0.146435638		7.930722175	3.011354654	1.134535806		0.04859626	0.429622015		0.018402261		2.13703751		0		0					
0.793642578	0.48092488		0	0.193519574		10.48071356	3.979605495	0.853173772		0.03654451	0.149679609		0.006411318		10.19846275		0		0					
% Conventional Coach	% Hybrid Coach	% Electric Coach	% Biogas Coach	% Motorcycle		% Biomethane Car	% LPG Car	% Biomethane LGV		% LPG LGV	% Biodiesel Rigid HGV		% Biodiesel Artic HGV		% Biodiesel Bus		% Biomethane Bus		% Biodiesel Coach		Speed(kph)			
0	0	0	0	0.489545331		0	1.46033959	0		0.026206001	0		0		0		29		24		0.074			
0	0	0	0	0.485353989		0	1.41577523	0		0.028416577	0		0		0		40		24		1.77			
0	0	0	0	0.701997142		0	1.500034636	0		0.021141093	0		0		0		0		19		24		0.211753	
0	0	0	0	0.706648623		0	1.37267864	0		0.019624866	0		0		0		0		17		24		0.313909	
0	0	0	0	0.642516843		0	1.31001324	0		0.020983069	0		0		0		0		13		24		0.34	
0	0	0	0	0.911440746		0	1.52428222	0		0.021986593	0		0		0		0		13		24		0.084	
0	0	0	0	0.1279509135		0	1.27354871	0		0.018325551	0		0		0		0		10		24		0.085	
0	0	0	0	0.988032926		0	1.5340867	0		0.018848151	0		0		0		0		13		24		0.101	
0	0	0	0	0.677241667		0	1.21400741	0		0.02490846	0		0		0		0		13		24		0.28	

Figure G.33 EFT Output – Local network improvements and HGV fleet growth 2023

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)	Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)
St Johns	5,580.55972	3,957.10182	1,623.45790	416.08416	10.01186	2.30291	2,566.96402	16.54135	-	-	-	-	-	3.60015	-	-	938.69063
London Road 40	3,680.51859	2,812.81887	867.69971	298.76183	7.20928	1.65525	1,723.71837	11.15513	-	-	-	-	-	3.03820	-	-	765.03117
Tything	7,427.62734	6,024.76021	1,402.86714	590.43351	14.22263	3.28045	3,900.43351	25.07515	-	0.06285	4.98667	245.38000	-	4.47641	-	-	1,230.32885
Foregate St	2,774.65972	1,867.89384	906.76588	168.52731	4.06311	0.93787	1,130.60687	7.26894	-	0.04884	3.88686	190.04183	-	1.28570	-	-	359.28500
Butts	4,917.03222	2,165.41833	2,751.61389	190.32098	4.60096	1.06400	1,322.86870	8.51584	-	0.04173	3.34466	163.52908	-	1.59483	-	-	467.30450
Bridge St	9,041.74411	7,335.04462	1,706.69948	689.65538	16.67224	3.85554	4,793.60445	30.85837	-	0.04592	3.68049	179.94900	-	5.46529	-	-	1,601.39526
The Cross	10,505.15356	5,160.45382	5,344.69974	412.80467	10.01062	2.31914	2,972.10016	19.18478	-	0.17764	14.33061	716.59302	-	3.21517	-	-	999.49987
All Saints Rd	7,634.72428	5,534.51712	2,100.20716	537.80432	13.00128	3.00661	3,738.12956	24.06385	-	0.03583	2.87174	140.40714	-	3.62882	-	-	1,063.28705
Lowesmoor	3,495.60195	1,490.61891	2,004.98303	118.47112	2.86401	0.66232	823.46013	5.30095	-	0.03634	2.91287	142.41774	-	1.33638	-	-	391.57531
London Road 20	5,151.30964	3,587.76484	1,563.54479	352.40262	8.48597	1.95661	2,310.87870	14.85715	-	-	-	-	-	3.27365	-	-	893.32844

  

Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)
-	317.19312	-	128.56737	-	713.30396	13.82882	-	0.52804	441.20202	8.62923	-	0.20535	-	-	-	-	2.90673
-	544.20282	-	209.71163	-	69.69852	1.33966	-	0.06664	41.84030	0.81424	-	0.02591	-	-	-	-	2.24964
-	450.91030	-	137.69099	-	484.41437	9.54024	-	0.25811	313.71068	6.24207	-	0.10038	-	-	-	-	6.08019
-	139.36052	-	44.22524	-	427.44057	8.45211	-	0.20919	281.36982	5.62708	-	0.08135	-	-	-	-	1.94151
-	173.34042	-	45.96050	-	1,465.92079	29.11958	-	0.58286	1,016.05087	20.41219	-	0.22667	-	-	-	-	2.23306
-	569.03715	-	144.52656	-	574.91250	11.42027	-	0.22859	398.48015	8.00536	-	0.08890	-	-	-	-	9.86268
-	560.96047	-	34.86092	-	2,699.37663	53.52962	-	0.87134	1,955.30449	39.45742	-	0.33886	-	-	-	-	10.21814
-	548.85853	-	140.43619	-	816.75761	16.22437	-	0.32475	566.10649	11.37293	-	0.12629	-	-	-	-	8.28093
-	115.01815	-	13.63458	-	1,086.18154	21.57630	-	0.43188	752.84811	15.12452	-	0.16795	-	-	-	-	1.58175
-	957.69735	-	404.27080	-	120.23667	2.36334	-	0.06664	77.34877	1.53530	-	0.02591	-	-	-	-	2.58172

Figure G.34 EFT Output – HGV Signage 2029

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)
St Johns	2,166.60736	1,577.59676	589.01059	352.31580	-	2.21940	793.45088	-	-	-	-	-	-
London Road 40km	1,518.96072	1,144.78517	374.17555	255.24106	-	1.60600	535.21282	-	-	-	-	-	-
Tything	2,977.70223	2,414.73858	562.96364	511.51870	-	3.22624	1,234.39376	-	-	0.06639	0.33122	170.75620	-
Foregate St	1,109.30909	782.34110	326.96799	146.23565	-	0.92259	358.30039	-	-	0.05174	0.25817	132.24472	-
Butts	1,804.05260	887.71755	916.33505	165.44093	-	1.04440	419.70116	-	-	0.04452	0.22216	114.04493	-
Bridge St	3,559.28171	2,862.86305	696.41866	599.35394	-	3.78362	1,520.47948	-	-	0.04899	0.24446	125.49617	-
The Cross	4,111.65526	2,198.21615	1,913.43912	360.11735	-	2.27456	946.01591	-	-	0.19073	0.95186	502.22373	-
All Saints Rd	2,978.39209	2,163.19370	815.19840	467.20669	-	2.94940	1,185.23987	-	-	0.03823	0.19074	97.91973	-
Lowesmoor	1,272.23954	613.30800	658.93154	103.03082	-	0.65042	261.37518	-	-	0.03877	0.19348	99.32192	-

Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)
4.23990	-	0.17009	415.65346	-	139.07499	-	77.55384	-	372.38176	-	-	-	-	-	-
3.60140	-	0.14447	341.54541	-	219.35383	-	120.54115	-	34.28057	-	-	-	-	-	-
4.60429	-	0.18472	475.72336	-	214.99321	-	86.52308	-	261.44735	-	-	-	-	-	-
1.32177	-	0.05303	138.91957	-	67.74837	-	28.02245	-	231.19717	-	-	-	-	-	-
1.63935	-	0.06577	181.07175	-	88.32465	-	29.69611	-	798.31429	-	-	-	-	-	-
5.34825	-	0.21458	590.73178	-	289.94972	-	93.38186	-	313.08708	-	-	-	-	-	-
3.14918	-	0.12636	370.48095	-	307.56398	-	23.21796	-	1,582.65718	-	-	-	-	-	-
3.55111	-	0.14248	392.23136	-	279.66782	-	90.73897	-	444.79161	-	-	-	-	-	-
1.30776	-	0.05247	144.44652	-	58.60686	-	8.80961	-	591.51508	-	-	-	-	-	-

Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles	Bioethanol Cars (g/km)	LPG Cars (g/km)	Bioethanol LGVs (g/km)	LPG LGVs (g/km)	Biodiesel Rigid HGVs (g/km)	Biodiesel Artic HGVs (g/km)	Biodiesel Buses (g/km)	Biomethane Buses (g/km)	Biodiesel Coaches (g/km)	
-	-	-	-	-	1.76765	-	7.68419	-	0.09539	-	-	-	-	-	-
-	-	-	-	-	1.38101	-	5.97501	-	0.07798	-	-	-	-	-	-
-	-	-	-	-	3.67544	-	10.14861	-	0.10966	-	-	-	-	-	-
-	-	-	-	-	1.16793	-	2.83349	-	0.03204	-	-	-	-	-	-
-	-	-	-	-	1.36345	-	3.03733	-	0.04179	-	-	-	-	-	-
-	-	-	-	-	6.02190	-	11.00353	-	0.13635	-	-	-	-	-	-
-	-	-	-	-	6.29828	-	6.30175	-	0.08548	-	-	-	-	-	-
-	-	-	-	-	5.05613	-	8.57744	-	0.09053	-	-	-	-	-	-
-	-	-	-	-	0.96578	-	1.89154	-	0.03334	-	-	-	-	-	-

**Figure G.35 Evaluating Impact – HGV Signage: Local network improvements and HGV fleet growth (2018 – 2023)**

<b>Source Apportionment Study 2022</b>			Total Petrol Cars	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Total Diesel Cars	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	LPG Cars (g/km)
<b>Source Name</b>	All Vehicles (g/km)	Total Cars								
St Johns	10543.679	4314.2554	598.90297	594.7074	4.1392527	0.05631803	3715.3525	3707.0156	8.336833	0
London Road40	6457.6099	2899.451	417.6101	414.6673	2.9028163	0.039987262	2481.8409	2476.2498	5.5911727	0
The Tything	12151.102	5895.6607	788.81024	777.48545	9.2740196	2.050767482	5106.8505	5090.5368	16.313639	0
Foregate Street	4899.4743	1705.5793	224.96221	221.72319	2.6527369	0.586280671	1480.6171	1475.8877	4.7293423	0
The Butts	9017.1437	1985.5017	252.95852	249.29193	3.0033931	0.663196343	1732.5432	1727.0028	5.5403842	0
Bridge St	14425.675	7194.7041	916.62558	903.33926	10.883156	2.403171654	6278.0785	6258.0022	20.076248	0
The Cross	19247.439	4436.7802	545.20641	537.25845	6.5111326	1.436828376	3891.5738	3879.0908	12.482956	0
All Saints Road	12522.899	5610.7436	714.82455	704.46329	8.4871588	1.87409791	4895.919	4880.2627	15.656332	0
Lowesmoor	6538.0634	1236.0199	157.47242	155.18989	1.8696804	0.412854795	1078.5475	1075.0985	3.449015	0
<b>HGV Local Road Change 2019 or SAvr-2023 Model Yr 2023</b>										
<b>Source Name</b>	All Vehicles (g/km)	Total Cars	Total Petrol Cars	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Total Diesel Cars	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	
St Johns	5580.5597	3011.9043	428.39893	416.08416	10.011861	2.302910338	2583.5054	2566.964	16.541353	
London Road 40	3680.5186	2042.4999	307.62636	298.76183	7.2092796	1.655252997	1734.8735	1723.7184	11.155133	
Tything	7427.6273	4533.4452	607.93658	590.43351	14.222628	3.280446915	3925.5087	3900.4335	25.075152	
Foregate St	2774.6597	1311.4041	173.52829	168.52731	4.0631083	0.9378706	1137.8758	1130.6069	7.2689359	
Butts	4917.0322	1527.3705	195.98594	190.32098	4.6009595	1.063996207	1331.3845	1322.8687	8.5158395	
Bridge St	9041.7441	5534.646	710.18316	689.65538	16.672237	3.855542846	4824.4628	4793.6044	30.858366	
The Cross	10505.154	3416.4194	425.13443	412.80467	10.010618	2.319142569	2991.2849	2972.1002	19.184783	
All Saints Rd	7634.7243	4316.0056	553.81221	537.80432	13.001277	3.006614089	3762.1934	3738.1296	24.063848	
Lowesmoor	3495.6019	950.75852	121.99745	118.47112	2.8640081	0.662317019	828.76107	823.46013	5.300945	
<b>% Change 2018 - 2023</b>										
<b>Source Name</b>	All Vehicles (g/km)	Total Cars	Total Petrol Cars	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Total Diesel Cars	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	
St Johns	-30.19%	-28.47%	-30.04%	141.88%	3989.12%	-30.46%	-30.75%	98.41%		
London Road 40	-29.56%	-26.34%	-27.95%	148.35%	4039.45%	-30.10%	-30.39%	99.51%		
Tything	-23.11%	-22.93%	-24.06%	53.36%	59.96%	-23.13%	-23.38%	53.71%		
Foregate St	-23.11%	-22.86%	-23.99%	53.17%	59.97%	-23.15%	-23.39%	53.70%		
Butts	-23.07%	-22.52%	-23.66%	53.19%	60.43%	-23.15%	-23.40%	53.70%		
Bridge St	-23.07%	-22.52%	-23.65%	53.19%	60.44%	-23.15%	-23.40%	53.71%		
The Cross	-23.00%	-22.02%	-23.16%	53.75%	61.41%	-23.13%	-23.38%	53.69%		
All Saints Rd	-23.08%	-22.52%	-23.66%	53.19%	60.43%	-23.16%	-23.40%	53.70%		
Lowesmoor	-23.08%	-22.53%	-23.66%	53.18%	60.42%	-23.16%	-23.41%	53.69%		
<b>Absolute Difference 2018 - 2023</b>										
<b>Source Name</b>	All Vehicles (g/km)	Total Cars	Total Petrol Cars	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Total Diesel Cars	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	
St Johns	-1302.351	-170.504	-178.6232	5.8726087	2.246592308	-1131.847	-1140.052	8.2045204		
London Road 40	-856.9512	-109.9837	-115.9055	4.3064633	1.615265734	-746.9674	-752.5314	5.5639607		
Tything	-1362.215	-180.8737	-187.0519	4.9486087	1.229679433	-1181.342	-1190.103	8.7615121		
Foregate St	-394.1752	-51.43392	-53.19589	1.4103714	0.351589928	-342.7413	-345.2809	2.5395936		
Butts	-458.1312	-56.97258	-58.97094	1.5975665	0.400799864	-401.1587	-404.1341	2.9754553		
Bridge St	-1660.058	-206.4424	-213.6839	5.7890809	1.452371192	-1453.616	-1464.398	10.782118		
The Cross	-1020.361	-120.072	-124.4538	3.4994854	0.882314193	-900.2888	-906.9906	6.7018266		
All Saints Rd	-1294.738	-161.0123	-166.659	4.5141185	1.132516179	-1133.726	-1142.133	8.4075156		
Lowesmoor	-285.2614	-35.47498	-36.71877	0.9943277	0.249462224	-249.7864	-251.6384	1.85193		

## Worcester City Council

### Source Apportionment Study 2022

Taxis (g/km)	Total LGVs	Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)	LPG LGVs (g/km)	Total HGVs	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses/ Coaches	Motorcycl es (g/km)
0	1219.7954	16.469919	0	1203.3254	0	1167.896	720.91547	446.9805	3833.60907	8.1224451
0	978.49525	14.788893	0	963.70636	0	2194.4234	1377.9178	816.50555	378.483029	6.7570763
848.43855	2231.8374	2.9726973	0	2228.8647	0	1502.1916	1059.4196	442.77205	1659.39847	13.574806
656.57392	651.54035	0.852641	0	650.68771	0	410.02167	285.92426	124.09741	1471.41093	4.34811
564.10768	846.29999	1.0543204	0	845.24567	0	476.35989	347.76633	128.59356	5139.99655	4.8779242
619.04389	2901.6148	3.6148314	0	2897.9999	0	1677.9266	1238.07	439.85659	2010.64467	21.741097
2460.7859	1802.3397	2.1153469	0	1800.2244	0	1276.5528	1172.3021	104.25076	9248.65013	22.330603
483.62825	1926.4062	2.3999167	0	1924.0063	0	1618.4591	1196.1844	422.27476	2865.48897	18.173093
491.04624	709.34878	0.8837066	0	708.46507	0	291.63913	251.364	40.275129	3806.52555	3.4837369

### HGV Local Road Change 2019 or S Ay-2023 Model Yr 2023

Taxis	Total LGVs	Total Petrol LGVs	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)		Total HGVs	Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coac hes	Motorcycl es (g/km)
0	942.29078	3.600147	0	938.69063		445.76049	317.19312	128.56737	1177.69741	2.9067315
0	768.06938	3.0382039	0	765.03117		753.91444	544.20282	209.71163	113.785267	2.2496352
250.42952	1234.8053	4.4764054	0	1230.3288		588.60129	450.9103	137.69099	814.265846	6.0801916
193.97753	360.5707	1.2856963	0	359.285		183.58576	139.36052	44.225241	723.180117	1.9415133
166.91546	468.89933	1.5948304	0	467.3045		219.30092	173.34042	45.960501	2532.31297	2.2330605
183.67541	1606.8606	5.4652882	0	1601.3953		713.56372	569.03715	144.52656	993.135765	9.8626837
731.10127	1002.715	3.2151686	0	999.49987		595.82139	560.96047	34.860922	4748.87835	10.218135
143.31471	1066.9159	3.6288169	0	1063.2871		689.29472	548.85853	140.43619	1410.91243	8.2809325
145.36695	392.91169	1.3363796	0	391.57531		128.65273	115.01815	13.634581	1876.3303	1.5817512

### % Change 2018 - 2023

Taxis	Total LGVs	Total Petrol LGVs	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)		Total HGVs	Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coac hes	Motorcycl es (g/km)
-	-22.75%	-78.14%	-	-21.99%		-61.83%	-56.00%	-71.24%	-69.28%	-64.21%
-	-21.51%	-79.46%	-	-20.62%		-65.64%	-60.51%	-74.32%	-69.94%	-66.71%
-70.48%	-44.67%	50.58%	-	-44.80%		-60.82%	-57.44%	-68.90%	-50.93%	-55.21%
-70.46%	-44.66%	50.79%	-	-44.78%		-55.23%	-51.26%	-64.36%	-50.85%	-55.35%
-70.41%	-44.59%	51.27%	-	-44.71%		-53.96%	-50.16%	-64.26%	-50.73%	-54.22%
-70.33%	-44.62%	51.19%	-	-44.74%		-57.47%	-54.04%	-67.14%	-50.61%	-54.64%
-70.29%	-44.37%	51.99%	-	-44.48%		-53.33%	-52.15%	-66.56%	-48.65%	-54.24%
-70.37%	-44.62%	51.21%	-	-44.74%		-57.41%	-54.12%	-66.74%	-50.76%	-54.43%
-70.40%	-44.61%	51.22%	-	-44.73%		-55.89%	-54.24%	-66.15%	-50.71%	-54.60%

### Absolute Difference 2018 - 2023

Taxis	Total LGVs	Total Petrol LGVs	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)		Total HGVs	Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coac hes	Motorcycl es (g/km)
0	-277.5046	-12.86977	-	-264.6348		-722.1355	-403.7223	-318.4131	-2655.91166	-5.215714
0	-210.4259	-11.75069	-	-198.6752		-1440.509	-833.715	-606.7939	-264.697762	-4.507441
-598.009	-997.0322	1.5037081	-	-998.5359		-913.5903	-608.5093	-305.0811	-845.132619	-7.494614
-462.5964	-290.9697	0.4330553	-	-291.4027		-226.4359	-146.5637	-79.87217	-748.230812	-2.406597
-397.1922	-377.4007	0.5405099	-	-377.9412		-257.059	-174.4259	-82.63306	-2607.68358	-2.644864
-435.3685	-1294.754	1.8504568	-	-1296.605		-964.3629	-669.0329	-295.33	-1017.5089	-11.87841
-1729.685	-799.6247	1.0998217	-	-800.7245		-680.7314	-611.3416	-69.38983	-4499.77178	-12.11247
-340.3135	-859.4904	1.2289002	-	-860.7193		-929.1644	-647.3258	-281.8386	-1454.57653	-9.892161
-345.6793	-316.4371	0.452673	-	-316.8898		-162.9864	-136.3459	-26.64055	-1930.19525	-1.901986

**Figure G.36 Evaluating Impact – HGV Signage (2018 – 2029)**

<b>Source Apportionment Study 2022</b>			Total Petrol Cars	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Total Diesel Cars	Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	LPG Cars (g/km)
<b>Source Name</b>	All Vehicles (g/km)	Total Cars								
St Johns	10543.679	4314.2554	598.90297	594.7074	4.1392527	0.05631803	3715.3525	3707.0156	8.336833	0
London Road40	6457.6099	2899.451	417.6101	414.6673	2.9028163	0.039987262	2481.8409	2476.2498	5.5911727	0
The Tything	12151.102	5895.6607	788.81024	777.48545	9.2740196	2.050767482	5106.8505	5090.5368	16.313639	0
Foregate Street	4899.4743	1705.5793	224.96221	221.72319	2.6527369	0.586280671	1480.6171	1475.8877	4.7293423	0
The Butts	9017.1437	1985.5017	252.95852	249.29193	3.0033931	0.663196343	1732.5432	1727.0028	5.5403842	0
Bridge St	14425.675	7194.7041	916.62558	903.33926	10.883156	2.403171654	6278.0785	6258.0022	20.076248	0
The Cross	19247.439	4436.7802	545.20641	537.25845	6.5111326	1.436828376	3891.5738	3879.0908	12.482956	0
All Saints Road	12522.899	5610.7436	714.82455	704.46329	8.4871588	1.87409791	4895.919	4880.2627	15.656332	0
Lowesmoor	6538.0634	1236.0199	157.47242	155.18989	1.8696804	0.412854795	1078.5475	1075.0985	3.449015	0
<b>HGV Local Road Change 2019-23 plus 2029 forecast with NEVIS growth (Low) Forecast</b>										
<b>Source Name</b>	All Vehicles (g/km)	Total Cars	Total Petrol Cars	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Total Diesel Cars	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	LPG Cars (g/km)
St Johns	2166.6074	1155.6703	354.5352	352.3158	0	2.21939508	793.45088	793.45088	0	7.6841918
London Road 40km	1518.9607	798.03489	256.84706	255.24106	0	1.605999758	535.21282	535.21282	0	5.9750123
Tything	2977.7022	1759.2873	514.74494	511.5187	0	3.226240061	1234.3938	1234.3938	0	10.148615
Foregate St	1109.3091	508.29213	147.15824	146.23565	0	0.922592407	358.30039	358.30039	0	2.8334945
Butts	1804.0526	589.22382	166.48533	165.44093	0	1.044400254	419.70116	419.70116	0	3.0373271
Bridge St	3559.2817	2134.6206	603.13756	599.35394	0	3.783618726	1520.4795	1520.4795	0	11.003528
The Cross	4111.6553	1314.7096	362.39192	360.11735	0	2.274564979	946.01591	946.01591	0	6.3017547
All Saints Rd	2978.3921	1663.9734	470.15609	467.20669	0	2.949395769	1185.2399	1185.2399	0	8.5774392
Lowesmoor	1272.2395	366.94796	103.68123	103.03082	0	0.650415899	261.37518	261.37518	0	1.8915409
<b>% Change 2018 - 2029</b>										
<b>Source Name</b>	All Vehicles (g/km)	Total Cars	Total Petrol Cars	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Total Diesel Cars	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	LPG Cars (g/km)
St Johns		-73.21%	-40.80%	-40.76%	-	3840.83%	-78.64%	-78.60%	-	-
London Road 40km		-72.48%	-38.50%	-38.45%	-	3916.28%	-78.43%	-78.39%	-	-
Tything		-70.16%	-34.74%	-34.21%	-	57.32%	-75.83%	-75.75%	-	-
Foregate St		-70.20%	-34.59%	-34.05%	-	57.36%	-75.80%	-75.72%	-	-
Butts		-70.32%	-34.18%	-33.64%	-	57.48%	-75.78%	-75.70%	-	-
Bridge St		-70.33%	-34.20%	-33.65%	-	57.44%	-75.78%	-75.70%	-	-
The Cross		-70.37%	-33.53%	-32.97%	-	58.30%	-75.69%	-75.61%	-	-
All Saints Rd		-70.34%	-34.23%	-33.68%	-	57.38%	-75.79%	-75.71%	-	-
Lowesmoor		-70.31%	-34.16%	-33.61%	-	57.54%	-75.77%	-75.69%	-	-
<b>Absolute Difference 2018 - 2029</b>										
<b>Source Name</b>	All Vehicles (g/km)	Total Cars	Total Petrol Cars	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Total Diesel Cars	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	LPG Cars (g/km)
St Johns		-3158.585	-244.3678	-242.3916	-	2.16307705	-2921.902	-2913.565	-	7.6841918
London Road 40km		-2101.416	-160.763	-159.4262	-	1.566012496	-1946.628	-1941.037	-	5.9750123
Tything		-4136.373	-274.0653	-265.9668	-	1.175472579	-3872.457	-3856.143	-	10.148615
Foregate St		-1197.287	-77.80397	-75.48754	-	0.336311736	-1122.317	-1117.587	-	2.8334945
Butts		-1396.278	-86.47318	-83.85099	-	0.381203911	-1312.842	-1307.302	-	3.0373271
Bridge St		-5060.083	-313.488	-303.9853	-	1.380447072	-4757.599	-4737.523	-	11.003528
The Cross		-3122.071	-182.8145	-177.1411	-	0.837736604	-2945.558	-2933.075	-	6.3017547
All Saints Rd		-3946.77	-244.6685	-237.2566	-	1.075297859	-3710.679	-3695.023	-	8.5774392
Lowesmoor		-869.072	-53.79119	-52.15907	-	0.237561105	-817.1723	-813.7233	-	1.8915409

## Worcester City Council

### Source Apportionment Study 2022

Taxis (g/km)	Total LGVs	Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)	LPG LGVs (g/km)	Total HGVs	Rigid HGVs (g/km)	Artic HGVs (g/km)	Total Buses/ Coaches	Motorcycl es (g/km)
0	1219.7954	16.469919	0	1203.3254	0	1167.896	720.91547	446.9805	3833.60907	8.1224451
0	978.49525	14.788893	0	963.70636	0	2194.4234	1377.9178	816.50555	378.483029	6.7570763
848.43855	2231.8374	2.9726973	0	2228.8647	0	1502.1916	1059.4196	442.77205	1659.39847	13.574806
656.57392	651.54035	0.852641	0	650.68771	0	410.02167	285.92426	124.09741	1471.41093	4.34811
564.10768	846.29999	1.0543204	0	845.24567	0	476.35989	347.76633	128.59356	5139.99655	4.8779242
619.04389	2901.6148	3.6148314	0	2897.9999	0	1677.9266	1238.07	439.85659	2010.64467	21.741097
2460.7859	1802.3397	2.1153469	0	1800.2244	0	1276.5528	1172.3021	104.25076	9248.65013	22.330603
483.62825	1926.4062	2.3999167	0	1924.0063	0	1618.4591	1196.1844	422.27476	2865.48897	18.173093
491.04624	709.34878	0.8837066	0	708.46507	0	291.63913	251.364	40.275129	3806.52555	3.4837369

### HGV Local Road Change 2019-23 plus 2029 forecast with NEVIS growth (Low) Forecast

Taxis	Total LGVs	Total Petrol LGVs	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	LPG LGVs (g/km)	Total HGVs	Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coac hes	Motorcycl es (g/km)
0	420.32893	4.4099893	0.1700896	415.65346	0.0953895	216.62883	139.07499	77.553844	372.381763	1.7676452
0	345.43577	3.7458779	0.1444745	341.54541	0.0779771	339.89498	219.35383	120.54115	34.2805688	1.3810144
171.15381	480.69708	4.7890087	0.1847164	475.72336	0.1096553	301.51629	214.99321	86.523082	261.447348	3.6754414
132.55463	140.34739	1.3747971	0.0530282	138.91957	0.032042	95.770822	67.748371	28.022451	231.197166	1.1679266
114.31161	182.84265	1.7051254	0.0657736	181.07175	0.0417942	118.02076	88.324649	29.696111	798.314291	1.3634498
125.78962	596.50919	5.5628321	0.2145808	590.73178	0.1363501	383.33158	289.94972	93.381855	313.087081	6.0219035
503.36631	373.88284	3.2755381	0.1263592	370.48095	0.0854797	330.78194	307.56398	23.21796	1582.65718	6.298285
98.148698	396.06742	3.6935837	0.1424764	392.23136	0.0905331	370.40679	279.66782	90.738972	444.791609	5.0561265
99.554168	145.85923	1.3602312	0.0524696	144.44652	0.0333405	67.416467	58.606858	8.809609	591.515075	0.965777

### % Change 2018 - 2029

Taxis	Total LGVs	Total Petrol LGVs	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	LPG LGVs (g/km)	Total HGVs	Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coac hes	Motorcycl es (g/km)
-	-65.54%	-73.22%	-	-65.46%	-	-81.45%	-80.71%	-82.65%	-90.29%	-78.24%
-	-64.70%	-74.67%	-	-64.56%	-	-84.51%	-84.08%	-85.24%	-90.94%	-79.56%
-79.83%	-78.46%	61.10%	-	-78.66%	-	-79.93%	-79.71%	-80.46%	-84.24%	-72.92%
-79.81%	-78.46%	61.24%	-	-78.65%	-	-76.64%	-76.31%	-77.42%	-84.29%	-73.14%
-79.74%	-78.40%	61.73%	-	-78.58%	-	-75.22%	-74.60%	-76.91%	-84.47%	-72.05%
-79.68%	-79.44%	53.89%	-	-79.62%	-	-77.15%	-76.58%	-78.77%	-84.43%	-72.30%
-79.54%	-79.26%	54.85%	-	-79.42%	-	-74.09%	-73.76%	-77.73%	-82.89%	-71.80%
-79.71%	-79.44%	53.90%	-	-79.61%	-	-77.11%	-76.62%	-78.51%	-84.48%	-72.18%
-79.73%	-79.44%	53.92%	-	-79.61%	-	-76.88%	-76.68%	-78.13%	-84.46%	-72.28%

### Absolute Difference 2018 - 2029

Taxis	Total LGVs	Total Petrol LGVs	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	LPG LGVs (g/km)	Total HGVs	Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coac hes	Motorcycl es (g/km)
0	-799.4664	-12.05993	0.1700896	-787.672	0.0953895	-951.2671	-581.8405	-369.4267	-3461.22731	-6.3548
0	-633.0595	-11.04301	0.1444745	-622.1609	0.0779771	-1854.528	-1158.564	-695.9644	-344.20246	-5.376062
-677.2847	-1751.14	1.8163114	0.1847164	-1753.141	0.1096553	-1200.675	-844.4264	-356.249	-1397.95112	-9.899364
-524.0193	-511.193	0.5221561	0.0530282	-511.7681	0.032042	-314.2509	-218.1759	-96.07496	-1240.21376	-3.180183
-449.7961	-663.4573	0.650805	0.0657736	-664.1739	0.0417942	-358.3391	-259.4417	-98.89745	-4341.68226	-3.514474
-493.2543	-2305.106	1.9480007	0.2145808	-2307.268	0.1363501	-1294.595	-948.1203	-346.4747	-1697.55759	-15.71919
-1957.42	-1428.457	1.1601912	0.1263592	-1429.743	0.0854797	-945.7709	-864.7381	-81.0328	-7665.99295	-16.03232
-385.4796	-1530.339	1.293667	0.1424764	-1531.775	0.0905331	-1248.052	-916.5166	-331.5358	-2420.69736	-13.11697
-391.4921	-563.4896	0.4765245	0.0524696	-564.0185	0.0333405	-224.2227	-192.7571	-31.46552	-3215.01048	-2.51796

## Summary of Impact of HGV Signage 2018 – 2029

**Figure G.37 Impact of local network improvements and HGV fleet growth 2018 – 2023 and Forecast 2018 - 2029**

HGV Signage	2018 - 2023					2018 - 2029 Forecast					% of Required Reduction
	Total HGV Emissions	HGV 2023	Change 2018 - 2023	% Change 2018 - 2023	% of Total Road emissions	HGV 2029	Change 2018 - 2029	% Change	% of Total Road emissions	Impact	
St Johns	1167.90	445.76	-722.14	-61.83%	-6.85%	216.63	-951.27	-81.45%	-9.02%	Small	-53.07%
London Road	2194.42	753.91	-1440.51	-65.64%	-22.31%	339.89	-1854.53	-84.51%	-28.72%	Large	-100.77%
The Tything	1502.19	588.60	-913.59	-60.82%	-7.52%	301.52	-1200.68	-79.93%	-9.88%	Small	-36.60%
Foregate Street	410.02	183.59	-226.44	-55.23%	-4.62%	95.77	-314.25	-76.64%	-6.41%	Small	-21.38%
The Butts	476.36	219.30	-257.06	-53.96%	-2.85%	118.02	-358.34	-75.22%	-3.97%	Small	-10.46%
Bridge St	1677.93	713.56	-964.36	-57.47%	-6.69%	383.33	-1294.60	-77.15%	-8.97%	Small	-32.05%
The Cross	1276.55	595.82	-680.73	-53.33%	-3.54%	330.78	-945.77	-74.09%	-4.91%	Small	-19.65%
All Saints Road	1618.46	689.29	-929.16	-57.41%	-7.42%	370.41	-1248.05	-77.11%	-9.97%	Small	-56.95%
Lowesmoor	291.64	128.65	-162.99	-55.89%	-2.49%	67.42	-224.22	-76.88%	-3.43%	Small	-62.35%

**Figure G.38 Range of Average Change in Total Road Emissions from HGV Signage**

Source Name	Range Min. (2018 - 2023)	Range Max (2018 - 2029)	Average
St Johns	-6.85%	-9.02%	-7.94%
London Road	-22.31%	-28.72%	-25.51%
The Tything	-7.52%	-9.88%	-8.70%
Foregate Street	-4.62%	-6.41%	-5.52%
The Butts	-2.85%	-3.97%	-3.41%
Bridge St	-6.69%	-8.97%	-7.83%
The Cross	-3.54%	-4.91%	-4.23%
All Saints Road	-7.42%	-9.97%	-8.69%
Lowesmoor	-2.49%	-3.43%	-2.96%
<b>Average</b>	<b>-7.14%</b>	<b>-9.48%</b>	<b>-8.31%</b>

## Bike Hire and Share Scheme

Figure G.39 Data provided by Beryl (bikes)



Smidsy Ltd.  
January 2024

**Worcester Air Quality Data Request**

Data

Beryl Ridership averages:

Average number of journeys a day for an e-bike - 2 journeys

Average number of journeys a day for a bike - 1 journey

Modal shift from cars to bikes (% number of journeys replaced) - 33%

Average Distance per bike - 2.19 km

Average Distance per e-bike - 4.99 km

Here are our calculations on the following statement:

'Based on our standard ridership metrics we predict that our service will deliver approximately 146,000 cycle trips annually (with 48,180 of these replacing a private vehicular trip)'

- 175 e-Bikes. They are ridden twice a day (on average) throughout the year, meaning = 127,750 trips p.a.
- 50 pedal bikes. They are ridden once a day (on average) throughout the year, meaning = 18,250 trips p.a.
- Total trips p.a. = 146,000
- The average vehicle replacement rate is 33% (across existing Beryl schemes)
- $146,000 \times 33\% = 48,180$  vehicle trips replaced.

**Figure G.40 Application of Beryl bike data to source apportionment data**

	St Johns	London Road	The Tything	Foregate St	The Butts	Bridge St	All Saints Rd	Lowesmoor	The Cross	Total
<b>AADT</b>	13412	10420	17265	4814	5160	18698	14581	3212	10696	
<b>Hotspot Weighting 1 - 4</b>	3	2	4	1	1	4	3	1	1	
<b>% short journeys (Destinations x route) x AQMA weighting</b>	17%	6%	29%	3%	3%	19%	19%	2%	2%	100%
<b>Replaced car journeys AADT</b>	22	8	38	4	4	25	25	2	2	132

**Figure G.41 NEVIS Growth Factors and Bike Hire Measure adjustments**

Low				Medium				
<b>Δ 2016-2029</b>	<b>Δ 2018-2029</b>	<b>2020-2029</b>	<b>2021-2029</b>	<b>Δ 2016-2029</b>	<b>Δ 2018-2029</b>	<b>2020-2029</b>	<b>2021-2029</b>	
-8.99%	-9.01%	-6.29%	-6.05%	-8.92%	-8.94%	-6.22%	-5.98%	
27.03%	15.63%	12.51%	7.67%	27.22%	15.81%	12.68%	7.83%	
7.16%	6.26%	7.06%	6.85%	6.98%	6.08%	6.88%	6.67%	
59.42%	45.95%	38.89%	31.66%	59.54%	46.06%	38.99%	31.76%	
Avg. Cars	-1.83%	-2.74%	0.78%	0.81%	-1.94%	-2.85%	0.67%	0.70%
Avg. LGVs	43.23%	30.79%	25.70%	19.67%	43.38%	30.93%	25.84%	19.80%

<b>Beryl journeys</b>	22.176	8.448	38.016	4.224	4.224	25.344	2.112	25.344	2.112
<b>Low adj.</b>	21.77063812	8.293576	38.31145	4.256827	4.256827	25.54851	2.129043	25.54851386	2.12904282
<b>Med adj.</b>	21.74601703	8.284197	38.27008	4.252231	4.252231	25.52107	2.126756	25.52107094	2.12675591

**Figure G.42 DFT Growth Factors with Bike Hire Measure Adjustments**

DFT Fleet Growth 2029 (Cars & LGVs)									
Adjusted factor Cars	8.02%	8.02%	4.76%	4.76%	4.76%	4.76%	4.76%	4.76%	4.76%
Adjusted factor LGVs	27.38%	27.38%	22.07%	22.07%	22.07%	20.30%	20.30%	20.30%	20.30%
Adjusted Cars for growth	1075.64	835.68	821.81	229.15	245.62	890.02	509.13	694.06	152.89
Adjusted LGVs for growth	516.93	449.58	492.38	139.48	167.51	528.00	301.66	350.58	129.11
Adjusted AADT for growth	17998	14475	22562	6842	7669	24125	16431	18710	5168
Cars	14488	11256	18087	5043	5406	19588	11205	15275	3365
Est Bike Hire 2024	22	8	38	4	4	25	25	2	2
Est Bike Hire growth 2029	23.95	9.13	39.83	4.43	4.43	26.55	26.55	2.21	2.21
Revised AADT	17974	14466	22522	6837	7665	24098	16404	18707	5166
Revised Cars	14464	11247	18047	5039	5401	19561	11179	15273	3363

**Figure G.43 Proportion of Vehicle Types for EFT (All Vehicles) with NEVIS Growth and Low EV Uptake 2029**

2029 NEVIS growth Low EV Uptake									
Area	St Johns	London Rd	The Tything	Foregate St	The Butts	Bridge St	The Cross	All Saints Rd	Lowesmoor
AADT (One Way)	16954	13701	21917	6669	7487	23344	15996	18097	5035
<b>No. vehicles</b>									
Cars	13145	10221	17361	4847	5196	18823	10780	14673	3236
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	2704	2352	2804	794	954	3112	1778	2067	761
HGVs	242	600	326	80	79	282	224	272	57
Arctic	154	383	150	38	31	106	20	103	10
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>No. vehicles EV split</b>									
Petrol Cars	6499	5053	8583	2396	2569	9306	5330	7255	1600
Diesel Cars	2613	2032	3451	963	1033	3742	2143	2917	643
Plug In Hybrid Cars	415	322	548	153	164	594	340	463	102
BEV Cars	3371	2621	4452	1243	1332	4827	2765	3763	830
LPG Cars	248	193	327	91	98	355	203	276	61
Taxis Petrol	0	0	3	2	2	2	6	1	1
Taxis Hybrid	0	0	26	19	15	17	61	13	13
Taxis Diesel	0	0	712	535	425	468	1706	365	371
Taxis EV	0	0	77	58	46	50	183	39	40
Petrol LGVs	86	75	89	25	30	99	56	66	24
Diesel LGVs	1870	1626	1939	549	660	2152	1229	1429	526
Plug in Hybrid Petrol LGVs	35	30	36	10	12	40	23	26	10
Battery EV LGVs	710	617	736	209	250	817	467	543	200
LPG LGVs	4	4	5	1	2	5	3	3	1
Rigid HGVs Diesel	232	575	313	77	76	270	215	261	55
Rigid HGVs Electric	10	25	13	3	3	12	9	11	2
Arctic Diesel	148	367	144	36	30	102	19	99	10
Arctic Electric	6	16	6	2	1	4	1	4	0
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>% vehicles</b>									
Petrol Cars	38.332824	36.883787	39.162659	35.936855	34.311539	39.866669	33.318780	40.087369	31.774469
Diesel Cars	15.411186	14.828621	15.744810	14.447919	13.794483	16.027847	13.395358	16.116577	12.774490
Plug In Hybrid Cars	2.445296	2.352861	2.498233	2.292455	2.188774	2.543142	2.125445	2.557221	2.026931
BEV Cars	19.883112	19.131502	20.313545	18.640331	17.797285	20.678713	17.282344	20.793189	16.481315
LPG Cars	1.460366	1.405162	1.491980	1.369086	1.307167	1.518801	1.269346	1.527209	1.210512
Taxis Petrol	0.000000	0.000000	0.011649	0.028773	0.020369	0.007189	0.038231	0.007235	0.026379
Taxis Hybrid	0.000000	0.000000	0.116490	0.287731	0.203689	0.071887	0.382312	0.072354	0.263786
Taxis Diesel	0.000000	0.000000	3.250062	8.027683	5.682934	2.005656	10.666516	2.018683	7.359625
Taxis EV	0.000000	0.000000	0.349469	0.863192	0.611068	0.215662	1.146937	0.217063	0.791357
Petrol LGVs	0.505986	0.544545	0.405910	0.377919	0.404254	0.422984	0.352656	0.362283	0.479540
Diesel LGVs	11.026875	11.867185	8.845917	8.235930	8.809845	9.218012	7.685380	7.895164	10.450537
Plug in Hybrid Petrol LGVs	0.203604	0.219120	0.163334	0.152071	0.162668	0.170205	0.141906	0.145779	0.192962
Battery EV LGVs	4.186987	4.506059	3.358861	3.127244	3.345164	3.500148	2.918196	2.997853	3.968147
LPG LGVs	0.026206	0.028204	0.021023	0.019574	0.020937	0.021908	0.018265	0.018764	0.024837
Rigid HGVs Diesel	1.368746	4.199358	1.426323	1.150383	1.011837	1.158409	1.342798	1.441298	1.085606
Rigid HGVs Electric	0.058628	0.179874	0.061095	0.049275	0.043341	0.049619	0.057517	0.061736	0.046500
Arctic Diesel	0.871020	2.680590	0.656284	0.546432	0.397050	0.435430	0.119893	0.545786	0.190457
Arctic Electric	0.037309	0.114819	0.028111	0.023406	0.017007	0.018651	0.005135	0.023378	0.008158
Buses	3.692299	0.576599	1.396165	3.718941	9.229467	1.160906	6.457700	2.127456	10.169099
Motorcycles	0.489554	0.481715	0.698083	0.704799	0.641121	0.908163	1.275286	0.983603	0.675292

**Figure G.44 Proportion of Vehicle Types for EFT (All Vehicles) with NEVIS  
Growth and Medium EV Uptake 2029**

2029 NEVIS growth Medium EV uptake										
Area	St Johns	London Rd	The Tything	Foregate St	The Butts	Bridge St	The Cross	All Saints Rd	Lowesmoor	
<b>AADT (One Way)</b>	16942	13692	21902	6664	7482	23327	15987	18083	5032	
<b>No. vehicles</b>										
Cars	13130	10210	17342	4842	5190	18803	10769	14657	3232	
Taxis	0	0	817	614	488	537	1957	419	425	
LGVs	2707	2354	2807	795	955	3116	1780	2069	762	
HGVs	242	600	326	80	79	282	224	272	57	
Arctic	154	383	150	38	31	106	20	103	10	
Buses	626	79	306	248	691	271	1033	385	512	
Motorcycles	83	66	153	47	48	212	204	178	34	
<b>% vehicles</b>										
Petrol Cars	5801	4511	7662	2139	2293	8308	4758	6476	1428	
Diesel Cars	2169	1687	2865	800	857	3106	1779	2421	534	
Plug In Hybrid Cars	500	389	661	185	198	717	410	559	123	
BEV Cars	4447	3457	5873	1640	1758	6368	3647	4964	1095	
LPG Cars	213	166	281	79	84	305	175	238	52	
Taxis Petrol	0	0	3	2	2	2	6	1	1	
Taxis Hybrid	0	0	31	23	18	20	73	16	16	
Taxis Diesel	0	0	707	531	422	465	1694	363	368	
Taxis EV	0	0	77	58	46	50	183	39	40	
Petrol LGVs	78	68	81	23	28	90	52	60	22	
Diesel LGVs	1647	1432	1708	484	581	1895	1083	1258	463	
Plug in Hybrid Petrol LGVs	44	38	45	13	15	50	29	33	12	
Battery EV LGVs	935	813	969	275	330	1076	615	714	263	
LPG LGVs	4	3	4	1	1	4	2	3	1	
Rigid HGVs Diesel	232	575	313	77	76	270	215	261	55	
Rigid HGVs Electric	10	25	13	3	3	12	9	11	2	
Arctic Diesel	148	367	144	36	30	102	19	99	10	
Arctic Electric	6	16	6	2	1	4	1	4	0	
Buses	626	79	306	248	691	271	1033	385	512	
Motorcycles	83	66	153	47	48	212	204	178	34	
<b>% vehicles</b>										
Petrol Cars	34.240688	32.944810	34.984166	32.100589	30.647408	35.613429	29.760599	35.811508	28.379011	
Diesel Cars	12.802978	12.318435	13.080973	12.002771	11.459410	13.316261	11.127823	13.390325	10.611231	
Plug In Hybrid Cars	2.953987	2.842190	3.018128	2.769358	2.643990	3.072415	2.567484	3.089504	2.448293	
BEV Cars	26.245040	25.251767	26.814906	24.604682	23.490838	27.297228	22.811111	27.449053	21.752141	
LPG Cars	1.256865	1.209297	1.284155	1.178309	1.124967	1.307254	1.092415	1.314524	1.041702	
Taxis Petrol	0.000000	0.000000	0.011657	0.028792	0.020381	0.007194	0.038254	0.007241	0.026392	
Taxis Hybrid	0.000000	0.000000	0.139888	0.345503	0.244576	0.086327	0.459051	0.086890	0.316709	
Taxis Diesel	0.000000	0.000000	3.229073	7.975357	5.645639	1.992713	10.596432	2.005708	7.310702	
Taxis EV	0.000000	0.000000	0.349719	0.863757	0.611441	0.215817	1.147628	0.217225	0.791773	
Petrol LGVs	0.462700	0.497937	0.371190	0.345573	0.369638	0.386807	0.322456	0.331306	0.438440	
Diesel LGVs	9.718719	10.458854	7.796617	7.258545	7.764005	8.124627	6.772987	6.958867	9.209157	
Plug in Hybrid Petrol LGVs	0.258627	0.278323	0.207478	0.193159	0.206610	0.216206	0.180237	0.185184	0.245067	
Battery EV LGVs	5.516030	5.936106	4.425107	4.119715	4.406598	4.611275	3.844128	3.949627	5.226819	
LPG LGVs	0.022226	0.023918	0.017830	0.016600	0.017756	0.018580	0.015489	0.015914	0.021060	
Rigid HGVs Diesel	1.369709	4.202116	1.427344	1.151137	1.012455	1.159244	1.343606	1.442373	1.086176	
Rigid HGVs Electric	0.058670	0.179992	0.061138	0.049307	0.043367	0.049655	0.057552	0.061782	0.046525	
Arctic Diesel	0.871633	2.682350	0.656753	0.546790	0.397292	0.435744	0.119965	0.546193	0.190557	
Arctic Electric	0.037335	0.114895	0.028131	0.023421	0.017017	0.018664	0.005139	0.023395	0.008162	
Buses	3.694896	0.576977	1.397164	3.721377	9.235099	1.161743	6.461590	2.129044	10.174436	
Motorcycles	0.489898	0.482032	0.698582	0.705261	0.641512	0.908817	1.276054	0.984337	0.675646	

**Figure G.45 Proportion of Vehicle Types for EFT (All Vehicles) with DFT Growth and Low EV Uptake 2029**

2029 DFT Growth Low EV Uptake									
Area	St Johns	London Rd	The Tything	Foregate St	The Butts	Bridge St	The Cross	All Saints Rd	Lowesmoor
<b>AADT (One Way)</b>	17974	14466	22522	6837	7665	24098	16404	18707	5166
<b>No. vehicles</b>									
Cars	14464	11247	18047	5039	5401	19561	11179	15273	3363
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	2405	2092	2723	771	927	3129	1788	2078	765
HGVs	242	600	326	80	79	282	224	272	57
Arctic	154	383	150	38	31	106	20	103	10
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>No. vehicles EV split</b>									
Petrol Cars	7151	5560	8923	2491	2670	9671	5527	7551	1663
Diesel Cars	2875	2235	3587	1002	1074	3888	2222	3036	668
Plug In Hybrid Cars	456	355	569	159	170	617	353	482	106
BEV Cars	3709	2884	4628	1292	1385	5016	2867	3917	862
LPG Cars	272	212	340	95	102	368	211	288	63
Taxis Petrol	0	0	3	2	2	2	6	1	1
Taxis Hybrid	0	0	26	19	15	17	61	13	13
Taxis Diesel	0	0	712	535	425	468	1706	365	371
Taxis EV	0	0	77	58	46	50	183	39	40
Petrol LGVs	76	66	86	24	29	99	57	66	24
Diesel LGVs	1663	1446	1883	533	641	2163	1236	1436	529
Plug in Hybrid Petrol LGVs	31	27	35	10	12	40	23	27	10
Battery EV LGVs	631	549	715	203	243	821	469	545	201
LPG LGVs	4	3	4	1	2	5	3	3	1
Rigid HGVs Diesel	232	575	313	77	76	270	215	261	55
Rigid HGVs Electric	10	25	13	3	3	12	9	11	2
Arctic Diesel	148	367	144	36	30	102	19	99	10
Arctic Electric	6	16	6	2	1	4	1	4	0
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>% vehicles</b>									
Petrol Cars	39.785871	38.437265	39.616498	36.435711	34.840123	40.132611	33.691163	40.363734	32.183579
Diesel Cars	15.995363	15.453175	15.927270	14.648478	14.006993	16.134766	13.545070	16.227685	12.938966
Plug In Hybrid Cars	2.537988	2.451959	2.527183	2.324277	2.222493	2.560107	2.149199	2.574851	2.053029
BEV Cars	20.636803	19.937285	20.548950	18.899086	18.071459	20.816656	17.475498	20.936539	16.693519
LPG Cars	1.515722	1.464345	1.509270	1.388091	1.327304	1.528932	1.283532	1.537737	1.226098
Taxis Petrol	0.000000	0.000000	0.011336	0.028063	0.019896	0.006964	0.037281	0.006999	0.025710
Taxis Hybrid	0.000000	0.000000	0.113360	0.280634	0.198964	0.069636	0.372808	0.069992	0.257100
Taxis Diesel	0.000000	0.000000	3.162731	7.829681	5.551096	1.942848	10.401333	1.952784	7.173097
Taxis EV	0.000000	0.000000	0.340079	0.841901	0.596892	0.208908	1.118423	0.209977	0.771301
Petrol LGVs	0.424478	0.458679	0.383603	0.357960	0.383480	0.411911	0.345713	0.352315	0.469866
Diesel LGVs	9.250574	9.995922	8.359792	7.800969	8.357117	8.976715	7.534066	7.677945	10.239702
Plug in Hybrid Petrol LGVs	0.170806	0.184568	0.154358	0.144040	0.154309	0.165749	0.139112	0.141768	0.189069
Battery EV LGVs	3.512512	3.795526	3.174276	2.962086	3.173260	3.408526	2.860741	2.915373	3.888092
LPG LGVs	0.021985	0.023756	0.019868	0.018540	0.019862	0.021334	0.017905	0.018247	0.024336
Rigid HGVs Diesel	1.291114	3.977257	1.387997	1.122009	0.988364	1.122133	1.309414	1.394248	1.058092
Rigid HGVs Electric	0.055303	0.170360	0.059453	0.048060	0.042335	0.048065	0.056087	0.059721	0.045322
Arctic Diesel	0.821618	2.538816	0.638649	0.532954	0.387839	0.421795	0.116912	0.527969	0.185630
Arctic Electric	0.035193	0.108747	0.027356	0.022828	0.016613	0.018067	0.005008	0.022615	0.007951
Buses	3.482882	0.546103	1.358649	3.627214	9.015353	1.124552	6.297154	2.058006	9.911366
Motorcycles	0.461788	0.456238	0.679325	0.687416	0.626247	0.879724	1.243581	0.951494	0.658177

**Figure G.46 Proportion of Vehicle Types for EFT (All Vehicles) with DFT Growth and Medium EV Uptake 2029**

2029 DFT Growth Medium EV Uptake									
Area	St Johns	London Rd	The Tything	Foregate St	The Butts	Bridge St	The Cross	All Saints Rd	Lowesmoor
<b>AADT (One Way)</b>	17974	14466	22522	6837	7665	24098	16404	18707	5166
<b>No. vehicles</b>									
Cars	14464	11247	18047	5039	5401	19561	11179	15273	3363
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	2405	2092	2723	771	927	3129	1788	2078	765
HGVs	242	600	326	80	79	282	224	272	57
Arctic	154	383	150	38	31	106	20	103	10
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>% vehicles</b>									
Petrol Cars	6390	4969	7973	2226	2386	8643	4939	6748	1486
Diesel Cars	2389	1858	2981	832	892	3232	1847	2523	556
Plug In Hybrid Cars	551	429	688	192	206	746	426	582	128
BEV Cars	4898	3809	6112	1706	1829	6624	3786	5172	1139
LPG Cars	235	182	293	82	88	317	181	248	55
Taxis Petrol	0	0	3	2	2	2	6	1	1
Taxis Hybrid	0	0	26	19	15	17	61	13	13
Taxis Diesel	0	0	712	535	425	468	1706	365	371
Taxis EV	0	0	77	58	46	50	183	39	40
Petrol LGVs	70	61	79	22	27	91	52	60	22
Diesel LGVs	1463	1272	1656	469	564	1903	1087	1264	465
Plug in Hybrid									
Petrol LGVs	39	34	44	12	15	51	29	34	12
Battery EV LGVs	830	722	940	266	320	1080	617	717	264
LPG LGVs	3	3	4	1	1	4	2	3	1
Rigid HGVs Diesel	232	575	313	77	76	270	215	261	55
Rigid HGVs Electric	10	25	13	3	3	12	9	11	2
Arctic Diesel	148	367	144	36	30	102	19	99	10
Arctic Electric	6	16	6	2	1	4	1	4	0
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>% vehicles</b>									
Petrol Cars	35.553854	34.348699	35.402498	32.560051	31.134185	35.863712	30.107440	36.070250	28.760217
Diesel Cars	13.293986	12.843365	13.237392	12.174569	11.641422	13.409845	11.257510	13.487072	10.753768
Plug In Hybrid Cars	3.067276	2.963305	3.054218	2.808997	2.685985	3.094008	2.597407	3.111826	2.481180
BEV Cars	27.251565	26.327829	27.135552	24.956854	23.863946	27.489067	23.076959	27.647376	22.044331
LPG Cars	1.305067	1.260829	1.299511	1.195174	1.142835	1.316441	1.105147	1.324022	1.055694
Taxis Petrol	0.000000	0.000000	0.011336	0.028063	0.019896	0.006964	0.037281	0.006999	0.025710
Taxis Hybrid	0.000000	0.000000	0.113360	0.280634	0.198964	0.069636	0.372808	0.069992	0.257100
Taxis Diesel	0.000000	0.000000	3.162731	7.829681	5.551096	1.942848	10.401333	1.952784	7.173097
Taxis EV	0.000000	0.000000	0.340079	0.841901	0.596892	0.208908	1.118423	0.209977	0.771301
Petrol LGVs	0.387469	0.418688	0.350157	0.326751	0.350045	0.375998	0.315571	0.321598	0.428899
Diesel LGVs	8.138531	8.794278	7.354833	6.863188	7.352480	7.897594	6.628371	6.754954	9.008753
Plug in Hybrid									
Petrol LGVs	0.216576	0.234027	0.195721	0.182638	0.195659	0.210165	0.176389	0.179758	0.239734
Battery EV LGVs	4.619166	4.991347	4.174365	3.895323	4.173029	4.482418	3.762048	3.833893	5.113076
LPG LGVs	0.018612	0.020112	0.016820	0.015695	0.016814	0.018061	0.015158	0.015448	0.020602
Rigid HGVs Diesel	1.291114	3.977257	1.387997	1.122009	0.988364	1.122133	1.309414	1.394248	1.058092
Rigid HGVs Electric	0.055303	0.170360	0.059453	0.048060	0.042335	0.048065	0.056087	0.059721	0.045322
Arctic Diesel	0.821618	2.538816	0.638649	0.532954	0.387839	0.421795	0.116912	0.527969	0.185630
Arctic Electric	0.035193	0.108747	0.027356	0.022828	0.016613	0.018067	0.005008	0.022615	0.007951
Buses	3.482882	0.546103	1.358649	3.627214	9.015353	1.124552	6.297154	2.058006	9.911366
Motorcycles	0.461788	0.456238	0.679325	0.687416	0.626247	0.879724	1.243581	0.951494	0.658177

**Figure G.47 EFT Input – Bike Hire and Share with Low EV Uptake scenario including NEVIS fleet growth (2029)**

Primary Inputs		Pollutants	Selected	Standard Outputs		Selected	Additional Outputs		Selected	Advanced Options		Selected	Click the button to:   Run EFT   Clear Input Data			
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)			Breakdown by Vehicle		Y	Bespoke Base Fleets						
Year	2029	PM <sub>10</sub>		Emissions Rates (g/km)		Y	Source Apportionment			Bespoke Euro Fleet						
Traffic Format	All Vehicle Types	PM <sub>2.5</sub>		Annual Link Emissions		Y	PM by Source			Fleet Projection Tool						
All must be selected		CO <sub>2</sub>					Primary NO <sub>2</sub> Fraction		Y							
							Export Outputs									
SourceID	Road Type	Traffic Flow	% Petrol Car	% Petrol Hybrid Car		% Petrol Plugin Hybrid Car	% Diesel Car		% Diesel Hybrid Car	% Electric Car		% Petrol Taxi (black cab)	% Petrol Hybrid Taxi (black cab)	% Diesel Taxi (black cab)		
St Johns	Urban (not London)	16954	38.33			0	2.45	15.41		0	19.88		0.00	0.00		
London Road 40	Urban (not London)	13701	36.88			0	2.35	14.83		0	19.13		0.00	0.00		
Tything	Urban (not London)	21917	39.16			0	2.50	15.74		0	20.31		0.01	0.12		
Foregate St	Urban (not London)	6669	35.94			0	2.29	14.45		0	18.64		0.03	0.29		
Butts	Urban (not London)	7487	34.31			0	2.19	13.79		0	17.80		0.02	0.20		
Bridge St	Urban (not London)	23344	39.87			0	2.54	16.03		0	20.68		0.01	0.07		
The Cross	Urban (not London)	15996	33.32			0	2.13	13.40		0	17.28		0.04	0.38		
All Saints Rd	Urban (not London)	18097	40.09			0	2.56	16.12		0	20.79		0.01	0.07		
Lowesmoor	Urban (not London)	5035	31.77			0	2.03	12.77		0	16.48		0.03	0.26		
% Electric Taxi (black cab)	% Petrol LGV	% Petrol Hybrid LGV	% Petrol Plugin Hybrid LGV	% Diesel LGV	% Electric LGV	% Rigid HGV (Diesel)	% Rigid HGV Electric	% Artic HGV (Diesel)	% Artic HGV Electric	% Conventional Bus	% Hybrid Bus	% Electric Bus	% Biogas Bus	% Conventional Coach	% Hybrid Coach	% Electric Coach
0.00	0.51	0	0.20	11.03	4.19	1.37	0.06	0.87	0.04	3.69	0	0	0	0	0	0
0.00	0.54	0	0.22	11.87	4.51	4.20	0.18	2.68	0.11	0.58	0	0	0	0	0	0
0.35	0.41	0	0.16	8.85	3.36	1.43	0.06	0.66	0.03	1.40	0	0	0	0	0	0
0.86	0.38	0	0.15	8.24	3.13	1.15	0.05	0.55	0.02	3.72	0	0	0	0	0	0
0.61	0.40	0	0.16	8.81	3.35	1.01	0.04	0.40	0.02	9.23	0	0	0	0	0	0
0.22	0.42	0	0.17	9.22	3.50	1.16	0.05	0.44	0.02	1.16	0	0	0	0	0	0
1.15	0.35	0	0.14	7.69	2.92	1.34	0.06	0.12	0.01	6.46	0	0	0	0	0	0
0.22	0.36	0	0.15	7.90	3.00	1.44	0.06	0.55	0.02	2.13	0	0	0	0	0	0
0.79	0.48	0	0.19	10.45	3.97	1.09	0.05	0.19	0.01	10.17	0	0	0	0	0	0
% Biogas Coach	% Motorcycle	% Biomethane Car	% LPG Car	% Biomethane LGV	% LPG LGV	% Biodiesel Rigid HGV	% Biodiesel Artic HGV	% Biodiesel Bus	% Biomethane Bus	% Biodiesel Coach	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load
0	0.49	0	1.46	0	0.03	0	0	0	0	0	29	24	0.074			
0	0.48	0	1.41	0	0.03	0	0	0	0	0	40	24	1.77			
0	0.70	0	1.49	0	0.02	0	0	0	0	0	19	24	0.211753			
0	0.70	0	1.37	0	0.02	0	0	0	0	0	17	24	0.313909			
0	0.64	0	1.31	0	0.02	0	0	0	0	0	13	24	0.34			
0	0.91	0	1.52	0	0.02	0	0	0	0	0	13	24	0.084			
0	1.28	0	1.27	0	0.02	0	0	0	0	0	10	24	0.085			
0	0.98	0	1.53	0	0.02	0	0	0	0	0	13	24	0.101			
0	0.68	0	1.21	0	0.02	0	0	0	0	0	13	24	0.28			

Figure G.48 EFT Input – Bike Hire and Share with Medium EV Uptake scenario including NEVIS fleet growth (2029)

Primary Inputs		Pollutants	Selected	Standard Outputs		Selected	Additional Outputs		Selected	Advanced Options		Selected	Click the button to:			
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)			Breakdown by Vehicle		Y	Bespoke Base Fleets						
Year	2029	PM <sub>10</sub>		Emissions Rates (g/km)		Y	Source Apportionment			Bespoke Euro Fleet						
Traffic Format	All Vehicle Types	PM <sub>2.5</sub>		Annual Link Emissions		Y	PM by Source			Fleet Projection Tool						
All must be selected		CO <sub>2</sub>					Primary NO <sub>2</sub> Fraction		Y							
							Export Outputs									
SourceID	Road Type	Traffic Flow	% Petrol Car	% Petrol Hybrid Car		% Petrol Plugin Hybrid Car	% Diesel Car		% Diesel Hybrid Car	% Electric Car		% Petrol Taxi (black cab)	% Petrol Hybrid Taxi (black cab)	% Diesel Taxi (black cab)		
St Johns	Urban (not London)	16942	34.24	0		2.95	12.80		0	26.25		0.00	0.00	0.00		
London Road 40	Urban (not London)	13692	32.94	0		2.84	12.32		0	25.25		0.00	0.00	0.00		
Tything	Urban (not London)	21902	34.98	0		3.02	13.08		0	26.81		0.01	0.14	3.23		
Foregate St	Urban (not London)	6664	32.10	0		2.77	12.00		0	24.60		0.03	0.35	7.98		
Butts	Urban (not London)	7482	30.65	0		2.64	11.46		0	23.49		0.02	0.24	5.65		
Bridge St	Urban (not London)	23327	35.61	0		3.07	13.32		0	27.30		0.01	0.09	1.99		
The Cross	Urban (not London)	15987	29.76	0		2.57	11.13		0	22.81		0.04	0.46	10.60		
All Saints Rd	Urban (not London)	18083	35.81	0		3.09	13.39		0	27.45		0.01	0.09	2.01		
Lowesmoor	Urban (not London)	5032	28.38	0		2.45	10.61		0	21.75		0.03	0.32	7.31		
% Electric Taxi (black cab)	% Petrol LGV	% Petrol Hybrid LGV	% Petrol Plugin Hybrid LGV	% Diesel LGV	% Electric LGV	% Rigid HGV (Diesel)	% Rigid HGV Electric	% Artic HGV (Diesel)	% Artic HGV Electric	% Conventional Bus	% Hybrid Bus	% Electric Bus	% Biogas Bus	% Conventional Coach	% Hybrid Coach	% Electric Coach
0.00	0.46	0	0.26	9.72	5.52	1.37	0.06	0.87	0.04	3.69	0	0	0	0	0	0
0.00	0.50	0	0.28	10.46	5.94	4.20	0.18	2.68	0.11	0.58	0	0	0	0	0	0
0.35	0.37	0	0.21	7.80	4.43	1.43	0.06	0.66	0.03	1.40	0	0	0	0	0	0
0.86	0.35	0	0.19	7.26	4.12	1.15	0.05	0.55	0.02	3.72	0	0	0	0	0	0
0.61	0.37	0	0.21	7.76	4.41	1.01	0.04	0.40	0.02	9.24	0	0	0	0	0	0
0.22	0.39	0	0.22	8.12	4.61	1.16	0.05	0.44	0.02	1.16	0	0	0	0	0	0
1.15	0.32	0	0.18	6.77	3.84	1.34	0.06	0.12	0.01	6.46	0	0	0	0	0	0
0.22	0.33	0	0.19	6.96	3.95	1.44	0.06	0.55	0.02	2.13	0	0	0	0	0	0
0.79	0.44	0	0.25	9.21	5.23	1.09	0.05	0.19	0.01	10.17	0	0	0	0	0	0
% Biogas Coach	% Motorcycle	% Biomethane Car	% LPG Car	% Biomethane LGV	% LPG LGV	% Biodiesel Rigid HGV	% Biodiesel Artic HGV	% Biodiesel Bus	% Biomethane Bus	% Biodiesel Coach	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load
0	0.49	0	1.26	0	0.02	0	0	0	0	0	29	24	0.074			
0	0.48	0	1.21	0	0.02	0	0	0	0	0	40	24	1.77			
0	0.70	0	1.28	0	0.02	0	0	0	0	0	19	24	0.211753			
0	0.71	0	1.18	0	0.02	0	0	0	0	0	17	24	0.313909			
0	0.64	0	1.12	0	0.02	0	0	0	0	0	13	24	0.34			
0	0.91	0	1.31	0	0.02	0	0	0	0	0	13	24	0.084			
0	1.28	0	1.09	0	0.02	0	0	0	0	0	10	24	0.085			
0	0.98	0	1.31	0	0.02	0	0	0	0	0	13	24	0.101			
0	0.68	0	1.04	0	0.02	0	0	0	0	0	13	24	0.28			

Figure G.49 EFT Input – Bike Hire and Share with Low EV Uptake scenario including DFT fleet growth (2029)

Primary Inputs		Pollutants	Selected	Standard Outputs		Selected	Additional Outputs		Selected	Advanced Options		Selected	Click the button to:   Run EFT   Clear Input Data			
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)			Breakdown by Vehicle		Y	Bespoke Base Fleets						
Year	2029	PM <sub>10</sub>		Emissions Rates (g/km)		Y	Source Apportionment			Bespoke Euro Fleet						
Traffic Format	All Vehicle Types	PM <sub>2.5</sub>		Annual Link Emissions		Y	PM by Source			Fleet Projection Tool						
All must be selected		CO <sub>2</sub>					Primary NO <sub>2</sub> Fraction		Y							
SourceID	Road Type	Traffic Flow	% Petrol Car	% Petrol Hybrid Car		% Petrol Plugin Hybrid Car	% Diesel Car		% Diesel Hybrid Car	% Electric Car		% Petrol Taxi (black cab)	% Petrol Hybrid Taxi (black cab)		% Diesel Taxi (black cab)	
St Johns	Urban (not London)	17974	39.7858705			0 2.537987963	15.99536349		0	20.63680288		0	0		0	
London Road 40	Urban (not London)	14466	38.43726462			0 2.451958791	15.45317499		0	19.93728535		0	0		0	
Tything	Urban (not London)	22522	39.61649802			0 2.527183491	15.92726961		0	20.54894992		0.011335952	0.113359517		3.162730524	
Foregate St	Urban (not London)	6837	36.43571139			0 2.324277332	14.64847797		0	18.89908614		0.028063373	0.280633732		7.829681117	
Butts	Urban (not London)	7665	34.84012275			0 2.222492836	14.00699345		0	18.07145945		0.019896402	0.198964024		5.55109627	
Bridge St	Urban (not London)	24098	40.13261105			0 2.560106954	16.13476577		0	20.81665608		0.006963614	0.069636142		1.942848366	
The Cross	Urban (not London)	16404	33.69116294			0 2.149199324	13.54506991		0	17.4754977		0.037280764	0.372807642		10.40133321	
All Saints Rd	Urban (not London)	18707	40.36373369			0 2.574850543	16.22768546		0	20.93653865		0.006999227	0.069992266		1.952784219	
Lowesmoor	Urban (not London)	5166	32.1835788			0 2.05302874	12.93896639		0	16.69351866		0.025710024	0.257100241		7.173096737	
% Electric Taxi (black cab)	% Petrol LGV	% Petrol Hybrid LGV	% Petrol Plugin Hybrid LGV	% Diesel LGV	% Electric LGV	% Rigid HGV (Diesel)	% Rigid HGV Electric	% Artic HGV (Diesel)	% Artic HGV Electric	% Conventional Bus	% Hybrid Bus	% Electric Bus	% Biogas Bus	% Conventional Coach	% Hybrid Coach	% Electric Coach
0	0.42447788		0 0.170805841	9.250573784	3.512512203	1.291114434	0.05530309	0.821618276	0.035192875	3.482881692	0	0	0	0	0	0
0	0.4586794		0 0.184568204	9.995921554	3.795526338	3.977256732	0.17036026	2.538815547	0.10874663	0.546102903	0	0	0	0	0	0
0.340078551	0.38360289		0 0.154358134	8.359791985	3.174275677	1.387996879	0.05945291	0.638648871	0.027355635	1.358649192	0	0	0	0	0	0
0.841901195	0.35796037		0 0.144039829	7.800968949	2.962086382	1.122009274	0.04805971	0.532954405	0.02282836	3.627213837	0	0	0	0	0	0
0.596892072	0.38348014		0 0.154308741	8.357116962	3.173259951	0.988363695	0.04233518	0.387838918	0.01661254	9.015353481	0	0	0	0	0	0
0.208908426	0.41191141		0 0.165749211	8.976714712	3.408525861	1.12213339	0.04806502	0.42179482	0.018066994	1.124552374	0	0	0	0	0	0
1.118422926	0.3457131		0 0.139111646	7.534066399	2.860741483	1.309413935	0.050608692	0.116911958	0.050007761	6.297153509	0	0	0	0	0	0
0.209976798	0.35231523		0 0.14176828	7.677945437	2.915373432	1.394247563	0.05972065	0.527968746	0.022614806	2.058006482	0	0	0	0	0	0
0.771300724	0.46986567		0 0.189069454	10.23970214	3.888091652	1.058091851	0.04532189	0.185630149	0.007951209	9.911365545	0	0	0	0	0	0
% Biogas Coach	% Motorcycle	% Biomethane Car	% LPG Car	% Biomethane LGV	% LPG LGV	% Biodiesel Rigid HGV	% Biodiesel Artic HGV	% Biodiesel Bus	% Biomethane Bus	% Biodiesel Coach	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load
0	0.461787828		0 1.51572235		0 0.02198491	0	0	0	0	0	29	24	0.074			
0	0.456237869		0 1.464344451		0 0.023756304	0	0	0	0	0	40	24	1.77			
0	0.679324596		0 1.50926977		0 0.019867879	0	0	0	0	0	19	24	0.211753			
0	0.687415525		0 1.38809134		0 0.018539378	0	0	0	0	0	17	24	0.313909			
0	0.62624742		0 1.3273042		0 0.019861521	0	0	0	0	0	13	24	0.34			
0	0.879723628		0 1.52893213		0 0.021334057	0	0	0	0	0	13	24	0.084			
0	1.243581138		0 1.28353227		0 0.017905459	0	0	0	0	0	10	24	0.085			
0	0.951493906		0 1.53773721		0 0.018247402	0	0	0	0	0	13	24	0.101			
0	0.658176618		0 1.22609784		0 0.024335672	0	0	0	0	0	13	24	0.28			

**Figure G.50 EFT Input – Bike Hire and Share with Medium EV Uptake scenario including DFT fleet growth (2029)**

Primary Inputs		Pollutants	Selected	Standard Outputs		Selected	Additional Outputs		Selected	Advanced Options		Selected	Click the button to:   Run EFT   Clear Input Data			
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)			Breakdown by Vehicle		Y	Bespoke Base Fleets						
Year	2029	PM <sub>10</sub>		Emissions Rates (g/km)		Y	Source Apportionment			Bespoke Euro Fleet						
Traffic Format	All Vehicle Types	PM <sub>2.5</sub>		Annual Link Emissions		Y	PM by Source			Fleet Projection Tool						
All must be selected		CO <sub>2</sub>					Primary NO <sub>2</sub> Fraction		Y							
							Export Outputs									
SourceID	Road Type	Traffic Flow	% Petrol Car	% Petrol Hybrid Car		% Petrol Plugin Hybrid Car	% Diesel Car		% Diesel Hybrid Car	% Electric Car		% Petrol Taxi (black cab)	% Petrol Hybrid Taxi (black cab)	% Diesel Taxi (black cab)		
St Johns	Urban (not London)	17974	35.55385422			0	3.067275685			13.29398572	0		27.25156474	0.0000000000	0	
London Road 40	Urban (not London)	14466	34.34869931			0	2.963305457			12.84336476	0		26.32782925	0.0000000000	0	
Tything	Urban (not London)	22522	35.40249786			0	3.054217982			13.23739188	0		27.13555207	0.0113359517	0.113359517	
Foregate St	Urban (not London)	6837	32.56005096			0	2.808996516			12.17456903	0		24.95685366	0.0280633732	0.280633732	
Butts	Urban (not London)	7665	31.13418481			0	2.685985251			11.64142165	0		23.86394589	0.0198964024	0.198964024	
Bridge St	Urban (not London)	24098	35.86371203			0	3.094007508			13.40984504	0		27.48906671	0.0069636142	0.069636142	
The Cross	Urban (not London)	16404	30.10743966			0	2.597406657			11.2575101	0		23.07695914	0.0372807642	0.372807642	
All Saints Rd	Urban (not London)	18707	36.0702502			0	3.111825815			13.48707198	0		27.64737551	0.0069992266	0.069992266	
Lowesmoor	Urban (not London)	5166	28.76021699			0	2.481180064			10.7537684	0		22.04433057	0.0257100241	0.257100241	
% Electric Taxi (black cab)	% Petrol LGV	% Petrol Hybrid LGV	% Petrol Plugin Hybrid LGV	% Diesel LGV	% Electric LGV	% Rigid HGV (Diesel)	% Rigid HGV Electric	% Artic HGV (Diesel)	% Artic HGV Electric	% Conventional Bus	% Hybrid Bus	% Electric Bus	% Biogas Bus	% Conventional Coach	% Hybrid Coach	% Electric Coach
0	0.38746854	0	0	0.216576301	8.138531326	4.619166428	1.291114434	0.0553031	0.821618276	0.035192875	3.482881692	0	0	0	0	0
0	0.4186881	0	0	0.234026534	8.794278345	4.991347169	3.977256732	0.1703603	2.538815547	0.108746663	0.546102903	0	0	0	0	0
0.340078551	0.35015735	0	0	0.195721138	7.354833391	4.174364897	1.387996879	0.0594529	0.638648871	0.027355635	1.358649192	0	0	0	0	0
0.841901195	0.32675055	0	0	0.18263786	6.863188344	3.895323114	1.122009274	0.0480597	0.532954405	0.02282836	3.627213837	0	0	0	0	0
0.596892072	0.3500453	0	0	0.195658551	7.352479942	4.173029156	0.988363695	0.0423352	0.387838918	0.01661254	9.01533481	0	0	0	0	0
0.208908426	0.37599771	0	0	0.210164658	7.897593771	4.482418086	1.12213339	0.0480650	0.42179482	0.018066994	1.124552374	0	0	0	0	0
1.118422926	0.3155711	0	0	0.176389084	6.628371043	3.76204843	1.309413935	0.0560869	0.116911958	0.005007761	6.297153509	0	0	0	0	0
0.209976798	0.3215976	0	0	0.179757609	6.7549539	3.833892754	1.394247563	0.0597207	0.527968746	0.022614806	2.058006482	0	0	0	0	0
0.771300724	0.42889906	0	0	0.239733974	9.008753246	5.113076167	1.058091851	0.0453219	0.185630149	0.007951209	9.911365545	0	0	0	0	0
% Biogas Coach	% Motorcycle	% Biomethane Car	% LPG Car	% Biomethane LGV	% LPG LGV	% Biodiesel Rigid HGV	% Biodiesel Artic HGV	% Biodiesel Bus	% Biomethane Bus	% Biodiesel Coach	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load
0	0.461787828	0	0.130506682	0	0.018612026	0	0	0	0	0	29	24	0.074			
0	0.456237869	0	0.126082949	0	0.020111655	0	0	0	0	0	40	24	1.77			
0	0.679324596	0	0.129951102	0	0.016819785	0	0	0	0	0	19	24	0.211753			
0	0.687415525	0	0.1195174	0	0.015695441	0	0	0	0	0	17	24	0.313909			
0	0.62624742	0	0.114283507	0	0.016814403	0	0	0	0	0	13	24	0.34			
0	0.879723628	0	0.131644069	0	0.018061025	0	0	0	0	0	13	24	0.084			
0	0.1243581138	0	0.105104658	0	0.015158437	0	0	0	0	0	10	24	0.085			
0	0.951493906	0	0.132402204	0	0.015447972	0	0	0	0	0	13	24	0.101			
0	0.658176618	0	0.10556944	0	0.020602138	0	0	0	0	0	13	24	0.28			

Figure G.51 EFT Output – Bike Hire and Share with Low EV Uptake scenario including NEVIS fleet growth (2029)

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)
St Johns	2,166.44216	1,577.59676	588.84540	352.31580	-	2.21940	793.45088	-	-	-	-	-	-
London Road 40	1,558.61953	1,144.78517	413.83436	255.24106	-	1.60600	535.21282	-	-	-	-	-	-
Tything	3,081.86507	2,414.73858	667.12648	511.51870	-	3.22624	1,234.39376	-	-	0.06639	0.33122	170.75620	-
Foregate St	1,125.93121	782.34110	343.59011	146.23565	-	0.92259	358.30039	-	-	0.05174	0.25817	132.24472	-
Butts	1,824.53646	887.71755	936.81891	165.44093	-	1.04440	419.70116	-	-	0.04452	0.22216	114.04493	-
Bridge St	3,665.12224	2,862.86305	802.25919	599.35394	-	3.78362	1,520.47948	-	-	0.04899	0.24446	125.49617	-
The Cross	4,202.98648	2,198.21615	2,004.77033	360.11735	-	2.27456	946.01591	-	-	0.19073	0.95186	502.22373	-
All Saints Rd	3,080.66400	2,163.19370	917.47031	467.20669	-	2.94940	1,185.23987	-	-	0.03823	0.19074	97.91973	-
Lowesmoor	1,290.85370	613.30800	677.54570	103.03082	-	0.65042	261.37518	-	-	0.03877	0.19348	99.32192	-

Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)
4.23990	-	0.17009	415.65346	-	138.96893	-	77.49470	-	372.38176	-	-	-	-	-
3.60140	-	0.14447	341.54541	-	244.94794	-	134.60584	-	34.28057	-	-	-	-	-
4.60429	-	0.18472	475.72336	-	289.26550	-	116.41364	-	261.44735	-	-	-	-	-
1.32177	-	0.05303	138.91957	-	79.50688	-	32.88607	-	231.19717	-	-	-	-	-
1.63935	-	0.06577	181.07175	-	103.65441	-	34.85021	-	798.31429	-	-	-	-	-
5.34825	-	0.21458	590.73178	-	370.00687	-	119.16524	-	313.08708	-	-	-	-	-
3.14918	-	0.12636	370.48095	-	392.48455	-	29.62860	-	1,582.65718	-	-	-	-	-
3.55111	-	0.14248	392.23136	-	356.88606	-	115.79264	-	444.79161	-	-	-	-	-
1.30776	-	0.05247	144.44652	-	74.78862	-	11.24200	-	591.51508	-	-	-	-	-

Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)	Bioethanol Cars (g/km)	LPG Cars (g/km)	Bioethanol LGVs (g/km)	LPG LGVs (g/km)	Biodiesel Rigid HGVs (g/km)	Biodiesel Artic HGVs (g/km)	Biodiesel Buses (g/km)	Biomethane Buses (g/km)	Biodiesel Coaches (g/km)
-	-	-	-	-	-	1.76765	-	7.68419	-	0.09539	-	-	-	-	-
-	-	-	-	-	-	1.38101	-	5.97501	-	0.07798	-	-	-	-	-
-	-	-	-	-	-	3.67544	-	10.14861	-	0.10966	-	-	-	-	-
-	-	-	-	-	-	1.16793	-	2.83349	-	0.03204	-	-	-	-	-
-	-	-	-	-	-	1.36345	-	3.03733	-	0.04179	-	-	-	-	-
-	-	-	-	-	-	6.02190	-	11.00353	-	0.13635	-	-	-	-	-
-	-	-	-	-	-	6.29828	-	6.30175	-	0.08548	-	-	-	-	-
-	-	-	-	-	-	5.05613	-	8.57744	-	0.09053	-	-	-	-	-
-	-	-	-	-	-	0.96578	-	1.89154	-	0.03334	-	-	-	-	-

**Figure G.52 EFT Output – Bike Hire and Share with Medium EV Uptake scenario including NEVIS fleet growth (2029)**

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol	Petrol Plugin		Diesel	Electric	Petrol	Petrol	Diesel	Diesel	Electric
	(g/km)	(g/km)	(g/km)	(g/km)	Hybrid Cars	Hybrid Cars	Diesel Cars	Hybrid Cars	Cars	Taxis	Hybrid Taxis	Taxis	(g/km)	Taxi (g/km)
St Johns	1,943.34490	1,354.49951	588.84540	314.48397	-	2.67921	658.70310	-	-	-	-	-	-	-
London Road 40	1,398.80199	984.96763	413.83436	227.83316	-	1.93873	444.32031	-	-	-	-	-	-	-
Tything	2,758.37995	2,091.25347	667.12648	456.61496	-	3.89485	1,024.81533	-	-	0.06639	0.39746	169.53214	-	-
Foregate St	1,031.62963	688.03952	343.59011	130.53948	-	1.11379	297.46727	-	-	0.05174	0.30980	131.29673	-	-
Butts	1,712.81662	775.99771	936.81891	147.68337	-	1.26084	348.44326	-	-	0.04452	0.26659	113.22741	-	-
Bridge St	3,270.17624	2,467.91705	802.25919	535.02545	-	4.56777	1,262.33583	-	-	0.04899	0.29336	124.59655	-	-
The Cross	3,955.47292	1,950.70259	2,004.77033	321.46606	-	2.74596	785.40342	-	-	0.19073	1.14223	498.62356	-	-
All Saints Rd	2,780.98438	1,863.51407	917.47031	417.06153	-	3.56065	984.01246	-	-	0.03823	0.22889	97.21779	-	-
Lowesmoor	1,217.28790	539.74220	677.54570	91.97255	-	0.78521	216.99948	-	-	0.03877	0.23217	98.60993	-	-

Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Electric LGVs (g/km)	Rigid HGVs (g/km)										
					Rigid Electric HGVs (g/km)		Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	
3.87446	-	0.21590	366.08562	-	138.96893	-	77.49470	-	372.38176	-	-	-	-	-	
3.29099	-	0.18339	300.81517	-	244.94794	-	134.60584	-	34.28057	-	-	-	-	-	
4.20746	-	0.23447	418.99330	-	289.26550	-	116.41364	-	261.44735	-	-	-	-	-	
1.20785	-	0.06731	122.35340	-	79.50688	-	32.88607	-	231.19717	-	-	-	-	-	
1.49806	-	0.08349	159.47893	-	103.65441	-	34.85021	-	798.31429	-	-	-	-	-	
4.88730	-	0.27238	520.28788	-	370.00687	-	119.16524	-	313.08708	-	-	-	-	-	
2.87776	-	0.16040	326.30164	-	392.48455	-	29.62860	-	1,582.65718	-	-	-	-	-	
3.24505	-	0.18085	345.45835	-	356.88606	-	115.79264	-	444.79161	-	-	-	-	-	
1.19505	-	0.06660	127.22149	-	74.78862	-	11.24200	-	591.51508	-	-	-	-	-	

Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles	Bioethanol Cars (g/km)	LPG Cars	Bioethanol LGVs (g/km)	Biodiesel Rigid HGVs (g/km)	Biodiesel Artic HGVs (g/km)	Biodiesel Buses (g/km)	Biomethane Buses (g/km)	Biodiesel Coaches (g/km)
-	-	-	-	-	-	1.76765	-	6.60876	-	0.08084	-	-	-	-
-	-	-	-	-	-	1.38101	-	5.13879	-	0.06609	-	-	-	-
-	-	-	-	-	-	3.67544	-	8.72872	-	0.09293	-	-	-	-
-	-	-	-	-	-	1.16793	-	2.43706	-	0.02716	-	-	-	-
-	-	-	-	-	-	1.36345	-	2.61237	-	0.03542	-	-	-	-
-	-	-	-	-	-	6.02190	-	9.46408	-	0.11556	-	-	-	-
-	-	-	-	-	-	6.29828	-	5.42011	-	0.07244	-	-	-	-
-	-	-	-	-	-	5.05613	-	7.37741	-	0.07673	-	-	-	-
-	-	-	-	-	-	0.96578	-	1.62690	-	0.02826	-	-	-	-

**Figure G.53 EFT Output – Bike Hire and Share with Low EV Uptake scenario including DFT fleet growth (2029)**

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)	
St Johns	2,235.88172	1,647.03633	588.84540	387.65764	-	2.44203	873.04429	-	-	-	-	-	-	
London Road 40	1,600.45884	1,186.62448	413.83436	280.84504	-	1.76710	588.90160	-	-	-	-	-	-	
Tything	3,137.52369	2,470.39720	667.12648	531.73453	-	3.35374	1,283.17848	-	0.06639	0.33122	170.75620	-	-	
Foregate St	1,141.96977	798.37966	343.59011	152.01506	-	0.95905	372.46085	-	0.05174	0.25817	132.24472	-	-	
Butts	1,842.54723	905.72832	936.81891	171.97936	-	1.08568	436.28825	-	0.04452	0.22216	114.04493	-	-	
Bridge St	3,751.99321	2,949.73402	802.25919	622.85703	-	3.93199	1,580.10363	-	0.04899	0.24446	125.49617	-	-	
The Cross	4,253.55651	2,248.78618	2,004.77033	373.42599	-	2.35862	980.97725	-	0.19073	0.95186	502.22373	-	-	
All Saints Rd	3,150.77583	2,233.30553	917.47031	486.30270	-	3.06995	1,233.68384	-	0.03823	0.19074	97.91973	-	-	
Lowesmoor	1,306.01684	628.47114	677.54570	107.07107	-	0.67592	271.62476	-	0.03877	0.19348	99.32192	-	-	
Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)
3.77077	-	0.15127	369.66283	-	138.96893	-	77.49470	-	372.38176	-	-	-	-	-
3.20292	-	0.12849	303.75459	-	244.94794	-	134.60584	-	34.28057	-	-	-	-	-
4.47141	-	0.17939	461.99421	-	289.26550	-	116.41364	-	261.44735	-	-	-	-	-
1.28362	-	0.05150	134.91042	-	79.50688	-	32.88607	-	231.19717	-	-	-	-	-
1.59204	-	0.06388	175.84611	-	103.65441	-	34.85021	-	798.31429	-	-	-	-	-
5.37662	-	0.21572	593.86540	-	370.00687	-	119.16524	-	313.08708	-	-	-	-	-
3.16588	-	0.12703	372.44622	-	392.48455	-	29.62860	-	1,582.65718	-	-	-	-	-
3.56994	-	0.14323	394.31202	-	356.88606	-	115.79264	-	444.79161	-	-	-	-	-
1.31470	-	0.05275	145.21276	-	74.78862	-	11.24200	-	591.51508	-	-	-	-	-
Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)	Bioethanol Cars (g/km)	LPG Cars (g/km)	Bioethanol LPGVs (g/km)	LPG LGVs (g/km)	Biodiesel Rigid HGVs (g/km)	Biodiesel Artic HGVs (g/km)	Biodiesel Buses (g/km)	Biomethane Coaches (g/km)
-	-	-	-	-	-	1.76765	-	8.45502	-	0.08483	-	-	-	-
-	-	-	-	-	-	1.38101	-	6.57438	-	0.06935	-	-	-	-
-	-	-	-	-	-	3.67544	-	10.54970	-	0.10649	-	-	-	-
-	-	-	-	-	-	1.16793	-	2.94548	-	0.03112	-	-	-	-
-	-	-	-	-	-	1.36345	-	3.15737	-	0.04059	-	-	-	-
-	-	-	-	-	-	6.02190	-	11.43502	-	0.13707	-	-	-	-
-	-	-	-	-	-	6.29828	-	6.53464	-	0.08593	-	-	-	-
-	-	-	-	-	-	5.05613	-	8.92802	-	0.09101	-	-	-	-
-	-	-	-	-	-	0.96578	-	1.96572	-	0.03352	-	-	-	-

**Figure G.54 EFT Output – Bike Hire and Share with Medium EV Uptake scenario including DFT fleet growth (2029)**

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)
St Johns	2,001.79706	1,412.95166	588.84540	346.42257	-	2.95131	725.60016	-	-	-	-	-	-
London Road 40	1,433.81272	1,019.97836	413.83436	250.97160	-	2.13562	489.44492	-	-	-	-	-	-
Tything	2,807.59073	2,140.46425	667.12648	475.17402	-	4.05316	1,066.46882	-	-	0.06639	0.33122	170.75620	-
Foregate St	1,046.36661	702.77649	343.59011	135.84524	-	1.15906	309.55778	-	-	0.05174	0.25817	132.24472	-
Butts	1,729.09189	792.27298	936.81891	153.68594	-	1.31209	362.60569	-	-	0.04452	0.22216	114.04493	-
Bridge St	3,346.29234	2,544.03315	802.25919	556.60384	-	4.75199	1,313.24775	-	-	0.04899	0.24446	125.49617	-
The Cross	4,002.71837	1,997.94804	2,004.77033	333.70473	-	2.85051	815.30486	-	-	0.19073	0.95186	502.22373	-
All Saints Rd	2,842.40814	1,924.93784	917.47031	434.57476	-	3.71017	1,025.33308	-	-	0.03823	0.19074	97.91973	-
Lowesmoor	1,231.05997	553.51427	677.54570	95.68194	-	0.81688	225.75140	-	-	0.03877	0.19348	99.32192	-

Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional HGVs (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)
3.44200	-	0.19181	325.22442	-	138.96893	-	77.49470	-	372.38176	-	-	-	-	-
2.92366	-	0.16292	267.23923	-	244.94794	-	134.60584	-	34.28057	-	-	-	-	-
4.08156	-	0.22746	406.45634	-	289.26550	-	116.41364	-	261.44735	-	-	-	-	-
1.17171	-	0.06530	118.69238	-	79.50688	-	32.88607	-	231.19717	-	-	-	-	-
1.45323	-	0.08099	154.70706	-	103.65441	-	34.85021	-	798.31429	-	-	-	-	-
4.90785	-	0.27352	522.47485	-	370.00687	-	119.16524	-	313.08708	-	-	-	-	-
2.88986	-	0.16107	327.67321	-	392.48455	-	29.62860	-	1,582.65718	-	-	-	-	-
3.25869	-	0.18161	346.91045	-	356.88606	-	115.79264	-	444.79161	-	-	-	-	-
1.20007	-	0.06688	127.75625	-	74.78862	-	11.24200	-	591.51508	-	-	-	-	-

Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)	Bioethanol Cars (g/km)	LPG Cars (g/km)	Bioethanol LGVs (g/km)	Biodiesel Rigid HGVs (g/km)	Biodiesel Artic HGVs (g/km)	Biodiesel Buses (g/km)	Biomethane Buses (g/km)	Biodiesel Coaches (g/km)
-	-	-	-	-	-	1.76765	-	7.27994	-	0.07182	-	-	-	-
-	-	-	-	-	-	1.38101	-	5.66067	-	0.05871	-	-	-	-
-	-	-	-	-	-	3.67544	-	9.08350	-	0.09015	-	-	-	-
-	-	-	-	-	-	1.16793	-	2.53611	-	0.02634	-	-	-	-
-	-	-	-	-	-	1.36345	-	2.71855	-	0.03436	-	-	-	-
-	-	-	-	-	-	6.02190	-	9.84578	-	0.11604	-	-	-	-
-	-	-	-	-	-	6.29828	-	5.62646	-	0.07275	-	-	-	-
-	-	-	-	-	-	5.05613	-	7.68720	-	0.07705	-	-	-	-
-	-	-	-	-	-	0.96578	-	1.69252	-	0.02838	-	-	-	-

**Figure G.55 Evaluating Impact - Bike Hire and Share with Low EV Uptake scenario including NEVIS fleet growth (2029)**

2029 NEVIS Low EFT with Bike Share																				
Source Name	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars	Petrol Cars (g/km)	Plugin Petrol Hybrid Cars	Diesel Cars (g/km)	Total Taxis (t/g/km)	Petrol Taxis (t/g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
St Johns	1155.67	420.16	354.54	793.4508841	352.315805	2.21939508	793.4508841	0	0	0	0	4.2398997	0.170089573	415.6534605	138.9689298	77.494702	372.3817633	1.76764522	7.68419	0.09539
London Road 40	798.03	345.37	256.85	535.2128152	255.241059	1.60599758	535.2128152	0	0	0	0	3.60140337	0.144474537	341.5454145	244.9479416	134.605845	34.28056883	1.38101437	5.97501	0.07798
Tything	1759.29	480.62	514.74	1234.39376	511.518697	3.226240061	1234.39376	171.15381	0.0663893	0.33122	170.7562	4.60429234	0.184716358	475.7233569	289.2654958	116.41364	261.4473479	3.67544144	10.14861	0.10966
Foregate St	508.29	140.33	147.16	358.3003943	146.235652	0.922592407	358.3003943	132.554632	0.05174435	0.25817	132.2447	1.32176884	0.053028246	138.9195694	79.50687914	32.8860688	231.1971664	1.16792663	2.83349	0.03204
Butts	589.22	182.82	166.49	419.701157	165.440932	1.044400254	419.701157	114.31161	0.04452044	0.222156	114.0449	1.63935187	0.065773552	181.071754	103.6544068	34.8502116	798.3142908	1.36344985	3.03733	0.04179
Bridge St	2134.62	596.43	603.14	1520.479482	599.353942	3.783618726	1520.479482	125.78962	0.04899073	0.244463	125.4962	5.34825131	0.214580828	590.731777	370.0068689	119.16524	313.0870808	6.0219035	11.00353	0.13635
The Cross	1314.71	373.84	362.39	946.0159126	360.117352	2.274564979	946.0159126	503.366313	0.19073152	0.951856	502.2237	3.14917883	0.126359229	370.4809457	392.4845522	29.6286019	1582.657176	6.298285	6.30175	0.08548
All Saints Rd	1663.97	396.02	470.16	1185.239866	467.20669	2.949395769	1185.239866	98.1486976	0.03822554	0.190745	97.91973	3.55110727	0.14247639	392.2313644	356.8860588	115.792638	444.7916092	5.05612653	8.57744	0.09053
Lowesmoor	366.95	145.84	103.68	261.3751811	103.030818	0.650415899	261.3751811	99.5541682	0.03877292	0.193476	99.32192	1.30776156	0.052469591	144.4465245	74.7886226	11.2420037	591.5150751	0.96577698	1.89154	0.03334
2029 NEVIS Low EFT without Bike Share scheme																				
Source Name	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars	Diesel Cars (g/km)	Total Taxis (t/g/km)	Petrol Taxis (t/g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
St Johns	1223.23	468.88	379.2435	830.9092504	374.895984	0.723852829	830.9092504	0	0	0.000000	0	5.3781169	0.077431915	463.2420938	138.968930	80.81	372.381763	1.76764522	13.07317	0.106731
London Road 40km	844.68	385.44	274.5176	560.0072113	271.098352	0.523352982	560.0072113	0	0	0.000000	0	4.5682138	0.065770874	380.6493341	244.947942	140.37	34.2805689	1.38101437	10.15676	0.087248
Tything	1861.57	536.32	550.917	1293.37934	545.187467	1.052812404	1293.37934	171.15381	0.0663893	0.33122	170.7562	5.84033214	0.084090641	530.1894603	289.265496	121.40	261.4473478	3.67544144	17.2754	0.122693
Foregate St	537.03	156.59	157.2903	374.9241284	155.693184	0.300668612	374.9241284	132.554632	0.05174435	0.258170	132.2447	1.67660271	0.024140684	154.8246276	79.506879	34.29	231.197166	1.16792663	4.816901	0.035852
Butts	622.25	203.99	177.9369	439.1477853	176.227543	0.340345185	439.1477853	114.31161	0.04452044	0.222156	114.0449	2.07944212	0.02994288	201.8028632	103.654407	36.34	798.314291	1.36344985	5.163109	0.046763
Bridge St	2255.47	665.50	644.9704	1591.785309	638.774515	1.2336451	1591.785309	125.78962	0.04899073	0.244463	125.4962	6.78400971	0.097686202	658.3653242	370.006870	124.27	313.087081	6.0219035	18.7148	0.152561
The Cross	1387.02	417.10	387.0768	989.2340894	383.542481	0.740766088	989.2340894	503.366313	0.19073152	0.951856	502.2237	3.99458787	0.057524026	412.8977269	392.484552	30.90	1582.657176	6.298285	10.70561	0.095643
All Saints Rd	1758.85	441.87	502.9582	1241.29969	498.126602	0.962023234	1241.29969	98.1486976	0.03822554	0.190745	97.91973	4.50441552	0.064861234	437.1383756	356.886059	120.75	444.791609	5.05612653	14.5941	0.101297
Lowesmoor	387.45	162.73	110.795	273.4417806	109.730653	0.211920899	273.4417806	99.5541682	0.03877292	0.193476	99.32192	1.65883513	0.023886361	160.9843699	74.788623	11.72	591.515075	0.96577698	3.214885	0.037304
Absolute Difference between with and without Bike Share																				
Source Name	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars	Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
St Johns	-67.56	-48.72	-24.71	-37.46	-22.58	1.50	-37.46	0.00	0.00	0.00	0.00	-1.14	0.09	-47.59	0.00	-3.32	0.00	0.00	-5.39	-0.01
London Road	-46.65	-40.07	-17.67	-24.79	-15.86	1.08	-24.79	0.00	0.00	0.00	0.00	-0.97	0.08	-39.10	0.00	-5.77	0.00	0.00	-4.18	-0.01
The Tything	-102.28	-55.70	-36.17	-58.99	-33.67	2.17	-58.99	0.00	0.00	0.00	0.00	-1.24	0.10	-54.47	0.00	-4.99	0.00	0.00	-7.13	-0.01
Foregate Street	-28.74	-16.26	-10.13	-16.62	-9.46	0.62	-16.62	0.00	0.00	0.00	0.00	-0.35	0.03	-15.91	0.00	-1.41	0.00	0.00	-1.98	0.00
The Butts	-33.02	-21.17	-11.45	-19.45	-10.79	0.70	-19.45	0.00	0.00	0.00	0.00	-0.44	0.04	-20.73	0.00	-1.49	0.00	0.00	-2.13	0.00
Bridge St	-120.85	-69.07	-41.83	-71.31	-39.42	2.55	-71.31	0.00	0.00	0.00	0.00	-1.44	0.12	-67.63	0.00	-5.10	0.00	0.00	-7.71	-0.02
The Cross	-72.31	-43.26	-24.68	-43.22	-23.43	1.53	-43.22	0.00	0.00	0.00	0.00	-0.85	0.07	-42.42	0.00	-1.27	0.00	0.00	-4.40	-0.01
All Saints Road	-94.88	-45.86	-32.80	-56.06	-30.92	1.99	-56.06	0.00	0.00	0.00	0.00	-0.95	0.08	-44.91	0.00	-4.96	0.00	0.00	-6.02	-0.01
Lowesmoor	-20.50	-16.89	-7.11	-12.07	-6.70	0.44	-12.07	0.00	0.00	0.00	0.00	-0.35	0.03	-16.54	0.00	-0.48	0.00	0.00	-1.32	0.00

## Worcester City Council

2023 Q3 NEVIS																					
Source Name	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Total Taxis	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
St Johns	2884.60	940.08199	473.49	2395.797374	472.712907	0.781621548	2395.797374	0	0	0	0	3.78947658	0.002186052	936.1510143	298.3675832	122.094137	1607.144354	2.90673154	15.30509	0.137128	
London Road 40km	1960.66	766.27393	339.98	1608.779829	339.423092	0.561802771	1608.779829	0	0	0	0	3.19798124	0.00185815	762.96139	572.0691854	222.55966	141.5299561	2.24963525	11.89077	0.110838	
Tything	4331.96	1,231.89827	671.90	3640.350339	670.791077	1.113403312	3640.350339	416.990946	0.07774012	0.33122	416.582	4.71181685	0.002703093	1227.000207	571.1119341	176.064895	1177.07793	6.08019165	19.70193	0.180843	
Foregate St	1252.49	359.72066	191.78	1055.217352	191.463752	0.318318893	1055.217352	322.952868	0.06041166	0.25817	322.6343	1.35331029	0.000775873	358.3129579	153.9589022	49.3254915	1049.487892	1.94151325	5.49349	0.052843	
Butts	1457.13	467.78955	216.58	1234.659048	216.223531	0.361126679	1234.659048	277.897324	0.05161701	0.222156	277.6236	1.67870152	0.000962016	466.0402123	191.498287	51.2608686	3635.883836	2.23306045	5.888327	0.068713	
Bridge St	5280.13	1,603.05747	784.83	4473.964124	783.516973	1.308594312	4473.964124	305.800948	0.05679987	0.244463	305.4997	5.75270444	0.003296711	1597.062704	683.5761637	175.279099	1425.939971	9.86268367	21.3372	0.23547	
The Cross	3255.90	1,000.33048	469.77	2773.918797	468.987086	0.787130865	2773.918797	1217.73261	0.21974056	0.951856	1216.561	3.38425233	0.001940772	996.7957355	673.8737572	42.2786704	6649.781706	10.2181355	12.20573	0.146607	
All Saints Rd	4117.53	1,064.39072	612.02	3488.86891	610.99909	1.020462812	3488.86891	238.604464	0.0443187	0.190745	238.3694	3.81965419	0.002188935	1060.410338	659.3358742	170.31837	2025.781877	8.28093251	16.63909	0.156346	
Lowesmoor	907.04	391.98176	134.82	768.5513298	134.594958	0.224794359	768.5513298	242.021235	0.04495334	0.193476	241.7828	1.40665899	0.000806116	390.5159091	138.1696501	16.5357641	2694.026808	1.58175115	3.665369	0.057577	
<b>% Emission reduction 2023 to 2029</b>																					
Source Name	Total Cars	Total LGVs	Total Petrol Cars	Total Diesel Cars	Petrol Cars (g/km)	Plugin Petrol Hybrid Cars (g/km)	Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
St Johns	-2.34%	-5.18%	-5.22%	-1.56%	-4.78%	191.34%		-1.56%	-	-	-	-	-172.25%	4238.58%	-5.08%	0.00%	-2.72%	0.00%	0.00%	-35.21%	-8.27%
London Road	-2.38%	-5.23%	-5.20%	-1.54%	-4.67%	192.71%		-1.54%	-	-	-	-	-160.99%	4235.59%	-5.13%	0.00%	-2.59%	0.00%	-35.17%	-8.36%	
The Tything	-2.36%	-4.52%	-5.38%	-1.62%	-5.02%	195.21%		-1.62%	0.00%	0.00%	0.00%	0.00%	-177.49%	3722.61%	-4.44%	0.00%	-2.83%	0.00%	-36.17%	-7.21%	
Foregate Street	-2.29%	-4.52%	-5.28%	-1.58%	-4.94%	195.38%		-1.58%	0.00%	0.00%	0.00%	0.00%	-172.78%	3723.23%	-4.44%	0.00%	-2.86%	0.00%	-36.10%	-7.21%	
The Butts	-2.27%	-4.53%	-5.29%	-1.58%	-4.99%	194.96%		-1.58%	0.00%	0.00%	0.00%	0.00%	-152.85%	3724.54%	-4.45%	0.00%	-2.91%	0.00%	0.00%	-7.23%	
Bridge St	-2.29%	-4.31%	-5.33%	-1.59%	-5.03%	194.86%		-1.59%	0.00%	0.00%	0.00%	0.00%	-159.00%	3545.80%	-4.23%	0.00%	-2.91%	0.00%	-36.14%	-6.88%	
The Cross	-2.22%	-4.32%	-5.25%	-1.56%	-4.99%	194.86%		-1.56%	0.00%	0.00%	0.00%	0.00%	-155.11%	3546.79%	-4.26%	0.00%	-3.00%	0.00%	0.00%	-36.08%	-6.93%
All Saints Road	-2.30%	-4.31%	-5.36%	-1.61%	-5.06%	194.75%		-1.61%	0.00%	0.00%	0.00%	0.00%	-182.48%	3545.80%	-4.23%	0.00%	-2.91%	0.00%	0.00%	-36.16%	-6.88%
Lowesmoor	-2.26%	-4.31%	-5.28%	-1.57%	-4.98%	195.06%		-1.57%	0.00%	0.00%	0.00%	0.00%	-119.04%	3545.80%	-4.23%	0.00%	-2.91%	0.00%	-36.10%	-6.88%	

**Figure G.56 Evaluating Impact - Bike Hire and Share with Medium EV Uptake scenario including NEVIS fleet growth (2029)**

2029 NEVIS Medium EFT with Bike Share									
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Petrol LGVs (g/km)
St Johns	982.48	370.47	317.16	658.70	2.68	314.483970	2.679208	658.703100	3.874457
London Road 40	679.23	304.54	229.77	444.32	1.94	227.833156	1.938730	444.320307	3.290994
Tything	1494.05	423.76	460.51	1024.82	3.89	456.614962	3.894850	1024.815333	4.207455
Foregate St	431.56	123.72	131.65	297.47	1.11	130.539484	1.113792	297.467267	1.207848
Butts	500.00	161.18	148.94	348.44	1.26	147.683370	1.260843	348.443256	1.498059
Bridge St	1811.39	525.84	539.59	1262.34	4.57	535.025450	4.567766	1262.335833	4.887302
The Cross	1115.04	329.57	324.21	785.40	2.75	321.466057	2.745964	785.403420	2.877761
All Saints Rd	1412.01	349.14	420.62	984.01	3.56	417.061526	3.560652	984.012459	3.245048
Lowesmoor	311.38	128.58	92.76	217.00	0.79	91.972549	0.785213	216.999480	1.195050
2029 NEVIS Medium EFT without Bike Share Scheme									
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Petrol LGVs (g/km)
St Johns	1018.34	420.26	335.10	671.98	2.74	332.363048	2.739888	671.983244	5.032375
London Road 40k	704.20	345.47	242.56	452.90	1.98	240.582878	1.980967	452.895984	4.274538
Tything	1547.75	480.69	486.82	1046.05	3.99	482.839746	3.985252	1046.051357	5.464893
Foregate St	446.37	140.34	138.99	303.23	1.14	137.853777	1.138133	303.228822	1.568824
Butts	516.85	182.82	157.24	355.17	1.29	155.949073	1.288322	355.171234	1.945768
Bridge St	1873.45	596.44	569.94	1287.40	4.67	565.274043	4.669826	1287.401556	6.347919
The Cross	1151.34	373.80	342.05	800.07	2.80	339.247323	2.804067	800.071152	3.737807
All Saints Rd	1460.95	396.02	444.45	1003.94	3.64	440.809756	3.641605	1003.936361	4.214862
Lowesmoor	321.83	145.84	97.91	221.15	0.80	97.104515	0.802197	221.153802	1.552202
Absolute Difference between with and without Bike Share									
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Petrol LGVs (g/km)
St Johns	-35.86	-49.78	-17.94	-13.28	-0.06	-17.88	-0.06	-13.28	-1.16
London Road	-24.97	-40.93	-12.79	-8.58	-0.04	-12.75	-0.04	-8.58	-0.98
The Tything	-53.69	-56.92	-26.32	-21.24	-0.09	-26.22	-0.09	-21.24	-1.26
Foregate Street	-14.81	-16.62	-7.34	-5.76	-0.02	-7.31	-0.02	-5.76	-0.36
The Butts	-16.85	-21.64	-8.29	-6.73	-0.03	-8.27	-0.03	-6.73	-0.45
Bridge St	-62.06	-70.60	-30.35	-25.07	-0.10	-30.25	-0.10	-25.07	-1.46
The Cross	-36.30	-44.23	-17.84	-14.67	-0.06	-17.78	-0.06	-14.67	-0.86
All Saints Road	-48.94	-46.88	-23.83	-19.92	-0.08	-23.75	-0.08	-19.92	-0.97
Lowesmoor	-10.44	-17.26	-5.15	-4.15	-0.02	-5.13	-0.02	-4.15	-0.36
2023 Q3 NEVIS									
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Petrol LGVs (g/km)
St Johns	2884.60	940.08	473.49	2395.80	0.78	472.712907	0.781622	2395.797374	3.789477
London Road 40k	1960.66	766.27	339.98	1608.78	0.56	339.423092	0.561803	1608.779829	3.197981
Tything	4331.96	1231.90	671.90	3640.35	1.11	670.791077	1.113403	3640.350339	4.711817
Foregate St	1252.49	359.72	191.78	1055.22	0.32	191.463752	0.318319	1055.217352	1.353310
Butts	1457.13	467.79	216.58	1234.66	0.36	216.223531	0.361127	1234.659048	1.678702
Bridge St	5280.13	1603.06	784.83	4473.96	1.31	783.516973	1.308594	4473.964124	5.752704
The Cross	3255.90	1000.33	469.77	2773.92	0.79	468.987086	0.787131	2773.918797	3.384252
All Saints Rd	4117.53	1064.39	612.02	3488.87	1.02	610.999090	1.020463	3488.868910	3.819654
Lowesmoor	907.04	391.98	134.82	768.55	0.22	134.594958	0.224794	768.551330	1.406659
% Emission Reduction 2023 to 2029									
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Petrol LGVs (g/km)
St Johns	-1.24%	-5.30%	-3.79%	-0.55%	-7.76%	-3.78%	-7.76%	-0.55%	-27.85%
London Road	-1.27%	-5.34%	-3.76%	-0.53%	-7.52%	-3.76%	-7.52%	-0.53%	-28.03%
The Tything	-1.24%	-4.62%	-3.92%	-0.58%	-8.12%	-3.91%	-8.12%	-0.58%	-24.32%
Foregate Street	-1.18%	-4.62%	-3.83%	-0.55%	-7.65%	-3.82%	-7.65%	-0.55%	-24.31%
The Butts	-1.16%	-4.63%	-3.83%	-0.54%	-7.61%	-3.82%	-7.61%	-0.54%	-24.30%
Bridge St	-1.18%	-4.40%	-3.87%	-0.56%	-7.80%	-3.86%	-7.80%	-0.56%	-23.14%
The Cross	-1.11%	-4.42%	-3.80%	-0.53%	-7.38%	-3.79%	-7.38%	-0.53%	-23.16%
All Saints Road	-1.19%	-4.40%	-3.89%	-0.57%	-7.93%	-3.89%	-7.93%	-0.57%	-23.14%
Lowesmoor	-1.15%	-4.40%	-3.82%	-0.54%	-7.56%	-3.81%	-7.56%	-0.54%	-23.14%

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Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	Total Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
0.215904	366.085624	138.968930	77.494702	372.381763	1.767645	0.000000	0.000000	0.000000	0.000000	<b>6.608758</b>	0.080843
0.183389	300.815170	244.947942	134.605845	34.280569	1.381014	0.000000	0.000000	0.000000	0.000000	<b>5.138785</b>	0.066086
0.234471	418.993304	289.265496	116.413640	261.447348	3.675441	169.995995	0.066389	0.397465	169.532141	<b>8.728722</b>	0.092934
0.067312	122.353398	79.506879	32.886069	231.197166	1.167927	131.658275	0.051744	0.309804	131.296726	<b>2.437060</b>	0.027156
0.083490	159.478931	103.654407	34.850212	798.314291	1.363450	113.538514	0.044520	0.266587	113.227407	<b>2.612375</b>	0.035421
0.272380	520.287883	370.006870	119.165240	313.087081	6.021904	124.938898	0.048991	0.293355	124.596552	<b>9.464078</b>	0.115558
0.160395	326.301639	392.484552	29.628602	1582.657176	6.298285	499.956514	0.190732	1.142227	498.623555	<b>5.420107</b>	0.072445
0.180854	345.458352	356.886059	115.792638	444.791609	5.056127	97.484913	0.038226	0.228893	97.217794	<b>7.377411</b>	0.076728
0.066603	127.221489	74.788623	11.242004	591.515075	0.965777	98.880878	0.038773	0.232171	98.609934	<b>1.626905</b>	0.028256
Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	Total Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
0.113206	414.898541	138.968930	80.814080	372.381763	1.767645	0.000000	0.000000	0.000000	0.000000	<b>11.251439</b>	0.098991
0.096158	340.925092	244.947942	140.371499	34.280569	1.381014	0.000000	0.000000	0.000000	0.000000	<b>8.741425</b>	0.080922
0.122942	474.860796	289.265496	121.400057	261.447348	3.675441	169.995995	0.066389	0.397465	169.532141	<b>14.868855</b>	0.113796
0.035294	138.667686	79.506879	34.294698	231.197166	1.167927	131.658275	0.051744	0.309804	131.296726	<b>4.145883</b>	0.033252
0.043777	180.743442	103.654407	36.342972	798.314291	1.363450	113.538514	0.044520	0.266587	113.227407	<b>4.443863</b>	0.043372
0.142819	589.661734	370.006870	124.269517	313.087081	6.021904	124.938898	0.048991	0.293355	124.596552	<b>16.107825</b>	0.141499
0.084101	369.809862	392.484552	30.897702	1582.657176	6.298285	499.956514	0.190732	1.142227	498.623555	<b>9.214317</b>	0.088708
0.094828	391.520882	356.886059	120.752455	444.791609	5.056127	97.484913	0.038226	0.228893	97.217794	<b>12.561140</b>	0.093952
0.034922	144.184876	74.788623	11.723539	591.515075	0.965777	98.880878	0.038773	0.232171	98.609934	<b>2.767052</b>	0.034600
Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	Total Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
0.10	-48.81	0.00	-3.32	0.00	0.00	0.00	0.00	0.00	0.00	<b>-4.64</b>	-0.02
0.09	-40.11	0.00	-5.77	0.00	0.00	0.00	0.00	0.00	0.00	<b>-3.60</b>	-0.01
0.11	-55.87	0.00	-4.99	0.00	0.00	0.00	0.00	0.00	0.00	<b>-6.14</b>	-0.02
0.03	-16.31	0.00	-1.41	0.00	0.00	0.00	0.00	0.00	0.00	<b>-1.71</b>	-0.01
0.04	-21.26	0.00	-1.49	0.00	0.00	0.00	0.00	0.00	0.00	<b>-1.83</b>	-0.01
0.13	-69.37	0.00	-5.10	0.00	0.00	0.00	0.00	0.00	0.00	<b>-6.64</b>	-0.03
0.08	-43.51	0.00	-1.27	0.00	0.00	0.00	0.00	0.00	0.00	<b>-3.79</b>	-0.02
0.09	-46.06	0.00	-4.96	0.00	0.00	0.00	0.00	0.00	0.00	<b>-5.18</b>	-0.02
0.03	-16.96	0.00	-0.48	0.00	0.00	0.00	0.00	0.00	0.00	<b>-1.14</b>	-0.01
Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	Total Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
0.002186	936.151014	298.367583	122.094137	1607.144354	2.906732	0.000000	0.000000	0.000000	0.000000	<b>15.305086</b>	0.137128
0.001858	762.961390	572.069185	222.559660	141.529956	2.249635	0.000000	0.000000	0.000000	0.000000	<b>11.890769</b>	0.110838
0.002703	1227.000207	571.111934	176.064895	1177.077930	6.080192	416.990946	0.077740	0.331220	416.581986	<b>19.701932</b>	0.180843
0.000776	358.312958	153.958902	49.325492	1049.487892	1.941513	322.952868	0.060412	0.258170	322.634286	<b>5.493490</b>	0.052843
0.000962	466.040212	191.498287	51.260869	3635.883836	2.233060	277.897324	0.051617	0.222156	277.623551	<b>5.888327</b>	0.068713
0.003297	1597.062704	683.576164	175.279099	1425.939971	9.862684	305.800948	0.056800	0.244463	305.499686	<b>21.337198</b>	0.235470
0.001941	996.795735	673.873757	42.278670	6649.781706	10.218135	1217.732609	0.219741	0.951856	1216.561013	<b>12.205726</b>	0.146607
0.002189	1060.410338	659.335874	170.318370	2025.781877	8.280933	238.604464	0.044319	0.190745	238.369401	<b>16.639089</b>	0.156346
0.000806	390.515909	138.169650	16.535764	2694.026808	1.581751	242.021235	0.044953	0.193476	241.782805	<b>3.665369</b>	0.057577
Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)
4697.84%	-5.21%	0.00%	-2.72%	0.00%	0.00%	-	-	-	-	<b>-30.33%</b>	-13.23%
4694.52%	-5.26%	0.00%	-2.59%	0.00%	0.00%	-	-	-	-	<b>-30.30%</b>	-13.38%
4125.97%	-4.55%	0.00%	-2.83%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	<b>-31.17%</b>	-11.54%
4126.66%	-4.55%	0.00%	-2.86%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	<b>-31.11%</b>	-11.54%
4128.11%	-4.56%	0.00%	-2.91%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	<b>-31.10%</b>	-11.57%
3930.00%	-4.34%	0.00%	-2.91%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	<b>-31.14%</b>	-11.02%
3931.11%	-4.36%	0.00%	-3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	<b>-31.09%</b>	-11.09%
3930.00%	-4.34%	0.00%	-2.91%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	<b>-31.15%</b>	-11.02%
3930.00%	-4.34%	0.00%	-2.91%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	<b>-31.11%</b>	-11.02%

**Figure G.57 Evaluating Impact - Bike Hire and Share with Low EV Uptake scenario including DFT fleet growth (2029)**

2029 DFT Low EFT with Bike Share									
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Total Taxis (g/km)
St Johns	1271.60	373.82	390.10	873.04	2.44	387.657645	2.442029	873.044288	0.000000
London Road 40	878.09	307.28	282.61	588.90	1.77	280.845044	1.767102	588.901595	0.000000
Tything	1828.82	466.93	535.09	1283.18	3.35	531.734527	3.353745	1283.178477	171.153810
Foregate St	528.38	136.33	152.97	372.46	0.96	152.015060	0.959054	372.460854	132.554632
Butts	612.51	177.61	173.07	436.29	1.09	171.979356	1.085676	436.288248	114.311610
Bridge St	2218.33	599.81	626.79	1580.10	3.93	622.857034	3.931990	1580.103631	125.789620
The Cross	1363.30	375.95	375.78	980.98	2.36	373.425992	2.358625	980.977252	503.366313
All Saints Rd	1731.98	398.26	489.37	1233.68	3.07	486.302695	3.069946	1233.683835	98.148698
Lowesmoor	381.34	146.67	107.75	271.62	0.68	107.071073	0.675921	271.624759	99.554168
2029 Low DFT EFT without Bike Share									
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Total Taxis (g/km)
St Johns	1346.73	89.62	418.08	914.26	0.80	417.286529	0.796465	914.260214	0.000000
London Road 40	929.99	73.67	302.63	616.18	0.58	302.055221	0.575852	616.183190	0.000000
Tything	1936.24	94.15	573.78	1344.50	1.09	572.689907	1.094421	1344.495238	171.153810
Foregate St	558.57	27.49	163.82	389.74	0.31	163.506562	0.312551	389.741578	132.554632
Butts	647.19	35.81	185.32	456.50	0.35	184.969156	0.353796	456.503431	114.311610
Bridge St	2345.20	112.88	671.54	1654.21	1.28	670.262263	1.282031	1654.205648	125.789620
The Cross	1442.18	70.75	403.03	1028.03	0.77	402.255651	0.769815	1028.025958	503.366313
All Saints Rd	1828.82	74.95	523.68	1289.98	1.00	522.681252	0.999748	1289.976070	98.148698
Lowesmoor	402.87	27.60	115.36	284.16	0.22	115.139715	0.220231	284.164539	99.554168
Absolute Difference between with and without Bike Share									
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Total Taxis (g/km)
St Johns	-75.13	284.20	-27.98	-41.22	1.65	-29.63	1.65	-41.22	0.000
London Road	-51.90	233.61	-20.02	-27.28	1.19	-21.21	1.19	-27.28	0.000
The Tything	-107.42	372.78	-38.70	-61.32	2.26	-40.96	2.26	-61.32	0.000
Foregate Street	-30.19	108.84	-10.84	-17.28	0.65	-11.49	0.65	-17.28	0.000
The Butts	-34.68	141.80	-12.26	-20.22	0.73	-12.99	0.73	-20.22	0.000
Bridge St	-126.87	486.93	-44.76	-74.10	2.65	-47.41	2.65	-74.10	0.000
The Cross	-78.88	305.20	-27.24	-47.05	1.59	-28.83	1.59	-47.05	0.000
All Saints Road	-96.84	323.31	-34.31	-56.29	2.07	-36.38	2.07	-56.29	0.000
Lowesmoor	-21.53	119.07	-7.61	-12.54	0.46	-8.07	0.46	-12.54	0.000
2023 (Q3) NEVIS									
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Total Taxis (g/km)
St Johns	2884.60	940.08	473.49	2395.80	0.7816215	472.712907	0.781622	2395.797374	0.000000
London Road 40	1960.66	766.27	339.98	1608.78	0.5618028	339.423092	0.561803	1608.779829	0.000000
Tything	4331.96	1231.90	671.90	3640.35	1.1134033	670.791077	1.113403	3640.350339	416.990946
Foregate St	1252.49	359.72	191.78	1055.22	0.3183189	191.463752	0.318319	1055.217352	322.952868
Butts	1457.13	467.79	216.58	1234.66	0.3611267	216.223531	0.361127	1234.659048	277.897324
Bridge St	5280.13	1603.06	784.83	4473.96	1.3085943	783.516973	1.308594	4473.964124	305.800948
The Cross	3255.90	1000.33	469.77	2773.92	0.7871309	468.987086	0.787131	2773.918797	1217.732609
All Saints Rd	4117.53	1064.39	612.02	3488.87	1.0204628	610.999090	1.020463	3488.868910	238.604464
Lowesmoor	907.04	391.98	134.82	768.55	0.2247944	134.594958	0.224794	768.551330	242.021235
% Emission Reduction 2023 to 2029									
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Total Taxis (g/km)
St Johns	-2.60%	30.23%	-5.91%	-1.72%	210.53%	-6.27%	210.53%	-1.72%	-
London Road	-2.65%	30.49%	-5.89%	-1.70%	212.04%	-6.25%	212.04%	-1.70%	-
The Tything	-2.48%	30.26%	-5.76%	-1.68%	202.92%	-6.11%	202.92%	-1.68%	0.00%
Foregate Street	-2.41%	30.26%	-5.65%	-1.64%	203.10%	-6.00%	203.10%	-1.64%	0.00%
The Butts	-2.38%	30.31%	-5.66%	-1.64%	202.67%	-6.01%	202.67%	-1.64%	0.00%
Bridge St	-2.40%	30.38%	-5.70%	-1.66%	202.50%	-6.05%	202.50%	-1.66%	0.00%
The Cross	-2.42%	30.51%	-5.80%	-1.70%	201.85%	-6.15%	201.85%	-1.70%	0.00%
All Saints Road	-2.35%	30.38%	-5.61%	-1.61%	202.87%	-5.95%	202.87%	-1.61%	0.00%
Lowesmoor	-2.37%	30.38%	-5.65%	-1.63%	202.71%	-5.99%	202.71%	-1.63%	0.00%

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2029 DFT Low EFT with Bike Share												
Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
0.000000	0.000000	0.000000	3.770769	0.151270	369.662830	138.968930	77.494702	372.381763	1.767645	<b>8.455016</b>	0.084835	
0.000000	0.000000	0.000000	3.202920	0.128489	303.754585	244.947942	134.605845	34.280569	1.381014	<b>6.574383</b>	0.069349	
0.066389	0.331220	170.756200	4.471415	0.179386	461.994210	289.265496	116.413640	261.447348	3.675441	<b>10.549700</b>	0.106491	
0.051744	0.258170	132.244717	1.283623	0.051498	134.910418	79.506879	32.886069	231.197166	1.167927	<b>2.945478</b>	0.031117	
0.044520	0.222156	114.044933	1.592041	0.063875	175.846110	103.654407	34.850212	798.314291	1.363450	<b>3.157366</b>	0.040588	
0.048991	0.244463	125.496166	5.376622	0.215719	593.865403	370.006870	119.165240	313.087081	6.021904	<b>11.435021</b>	0.137073	
0.190732	0.951856	502.223725	3.165884	0.127030	372.446218	392.484552	29.628602	1582.657176	6.298285	<b>6.534645</b>	0.085933	
0.038226	0.190745	97.919728	3.569945	0.143232	394.312015	356.886059	115.792638	444.791609	5.056127	<b>8.928022</b>	0.091013	
0.038773	0.193476	99.321919	1.314699	0.052748	145.212763	74.788623	11.242004	591.515075	0.965777	<b>1.965716</b>	0.033517	
2029 Low DFT EFT without Bike Share												
Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
0.000000	0.000000	0.000000	1.028103	0.014802	88.555308	138.968930	80.814080	372.381763	1.767645	<b>14.384580</b>	0.020403	
0.000000	0.000000	0.000000	0.873279	0.012573	72.766529	244.947942	140.371499	34.280569	1.381014	<b>11.175613</b>	0.016679	
0.066389	0.331220	170.756200	1.025446	0.014765	93.090752	289.265496	121.400057	261.447348	3.675441	<b>17.958147</b>	0.021542	
0.051744	0.258170	132.244717	0.294378	0.004239	27.184133	79.506879	34.294698	231.197166	1.167927	<b>5.007270</b>	0.006295	
0.044520	0.222156	114.044933	0.365109	0.005257	35.432579	103.654407	36.342972	798.314291	1.363450	<b>5.367161</b>	0.008211	
0.048991	0.244463	125.496166	1.150839	0.016571	111.685052	370.006870	124.269517	313.087081	6.021904	<b>19.448679</b>	0.025880	
0.190732	0.951856	502.223725	0.677642	0.009758	70.043944	392.484552	30.897702	1582.657176	6.298285	<b>11.125418</b>	0.016225	
0.038226	0.190745	97.919728	0.764129	0.011003	74.156127	356.886059	120.752455	444.791609	5.056127	<b>15.166391</b>	0.017184	
0.038773	0.193476	99.321919	0.281405	0.004052	27.309378	74.788623	11.723539	591.515075	0.965777	<b>3.340954</b>	0.006328	
Absolute Difference between with and without Bike Share												
Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
0.00	0.00	0.00	2.74	0.14	281.11	0.00	-3.32	0.00	0.00	<b>-5.93</b>	0.06	
0.00	0.00	0.00	2.33	0.12	230.99	0.00	-5.77	0.00	0.00	<b>-4.60</b>	0.05	
0.00	0.00	0.00	3.45	0.16	368.90	0.00	-4.99	0.00	0.00	<b>-7.41</b>	0.08	
0.00	0.00	0.00	0.99	0.05	107.73	0.00	-1.41	0.00	0.00	<b>-2.06</b>	0.02	
0.00	0.00	0.00	1.23	0.06	140.41	0.00	-1.49	0.00	0.00	<b>-2.21</b>	0.03	
0.00	0.00	0.00	4.23	0.20	482.18	0.00	-5.10	0.00	0.00	<b>-8.01</b>	0.11	
0.00	0.00	0.00	2.49	0.12	302.40	0.00	-1.27	0.00	0.00	<b>-4.59</b>	0.07	
0.00	0.00	0.00	2.81	0.13	320.16	0.00	-4.96	0.00	0.00	<b>-6.24</b>	0.07	
0.00	0.00	0.00	1.03	0.05	117.90	0.00	-0.48	0.00	0.00	<b>-1.38</b>	0.03	
2023 (Q3) NEVIS												
Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
0.000000	0.000000	0.000000	3.789477	0.002186	936.151014	298.367583	122.094137	1607.144354	2.906732	<b>15.305086</b>	0.137128	
0.000000	0.000000	0.000000	3.197981	0.001858	762.961390	572.069185	222.559660	141.529956	2.249635	<b>11.890769</b>	0.110838	
0.077740	0.331220	416.581986	4.711817	0.002703	1227.000207	571.111934	176.064895	1177.077930	6.080192	<b>19.701932</b>	0.180843	
0.060412	0.258170	322.634286	1.353310	0.000776	358.312958	153.958902	49.325492	1049.487892	1.941513	<b>5.493490</b>	0.052843	
0.051617	0.222156	277.623551	1.678702	0.000962	466.040212	191.498287	51.260869	3635.883836	2.233060	<b>5.888327</b>	0.068713	
0.056800	0.244463	305.499686	5.752704	0.003297	1597.062704	683.576164	175.279099	1425.939971	9.862684	<b>21.337198</b>	0.235470	
0.219741	0.951856	1216.561013	3.384252	0.001941	996.795735	673.873757	42.278670	6649.781706	10.218135	<b>12.205726</b>	0.146607	
0.044319	0.190745	238.369401	3.819654	0.002189	1060.410338	659.335874	170.318370	2025.781877	8.280933	<b>16.639089</b>	0.156346	
0.044953	0.193476	241.782805	1.406659	0.000806	390.515909	138.169650	16.535764	2694.026808	1.581751	<b>3.665369</b>	0.057577	
% Emission Reduction 2023 to 2029												
Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
-	-	-	74.08%	6242.65%	30.03%	0.00%	-2.72%	0.00%	0.00%	<b>-38.74%</b>	46.99%	
-	-	-	74.49%	6238.24%	30.28%	0.00%	-2.59%	0.00%	0.00%	<b>-38.70%</b>	47.52%	
0.00%	0.00%	0.00%	74.94%	6090.09%	30.07%	0.00%	-2.83%	0.00%	0.00%	<b>-37.60%</b>	46.97%	
0.00%	0.00%	0.00%	74.93%	6091.10%	30.06%	0.00%	-2.86%	0.00%	0.00%	<b>-37.53%</b>	46.97%	
0.00%	0.00%	0.00%	75.02%	6093.24%	30.13%	0.00%	-2.91%	0.00%	0.00%	<b>-37.53%</b>	47.12%	
0.00%	0.00%	0.00%	75.39%	6040.80%	30.19%	0.00%	-2.91%	0.00%	0.00%	<b>-37.56%</b>	47.22%	
0.00%	0.00%	0.00%	75.58%	6042.50%	30.34%	0.00%	-3.00%	0.00%	0.00%	<b>-37.61%</b>	47.55%	
0.00%	0.00%	0.00%	75.39%	6040.80%	30.19%	0.00%	-2.91%	0.00%	0.00%	<b>-37.49%</b>	47.22%	
0.00%	0.00%	0.00%	75.39%	6040.80%	30.19%	0.00%	-2.91%	0.00%	0.00%	<b>-37.52%</b>	47.22%	

## Worcester City Council Air Quality Action Plan 2025-2030 Technical Appendices

**Figure G.58 Evaluating Impact - Bike Hire and Share with Medium EV Uptake scenario including DFT fleet growth (2029)**

2029 DFT Medium EFT with Bike Share										
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)	Total Taxis (g/km)	
St Johns	1,082.25	328.93	349.37	725.60	2.95	346.422567	2.951305	725.600160	-	
London Road 40	748.21	270.38	253.11	489.44	2.14	250.971605	2.135625	489.444920	-	
Tything	1,554.78	410.86	479.23	1,066.47	4.05	475.174016	4.053156	1,066.468816	171.153810	
Foregate St	449.10	119.96	137.00	309.56	1.16	135.845244	1.159061	309.557784	132.554632	
Butts	520.32	156.28	155.00	362.61	1.31	153.685941	1.312090	362.605686	114.311610	
Bridge St	1,884.45	527.77	561.36	1,313.25	4.75	556.603837	4.751991	1,313.247750	125.789620	
The Cross	1,157.49	330.80	336.56	815.30	2.85	333.704733	2.850507	815.304860	503.366313	
All Saints Rd	1,471.31	350.43	438.28	1,025.33	3.71	434.574760	3.710171	1,025.333079	98.148698	
Lowesmoor	323.94	129.05	96.50	225.75	0.82	95.681941	0.816882	225.751398	99.554168	
2029 Medium EFT DFT without Bike Share scheme										
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Total Taxis (g/km)	
St Johns	1121.76	80.23	369.14	740.23	3.02	366.117421	3.018148	740.229018	0.000000	
London Road 40kr	775.72	65.95	267.20	498.89	2.18	265.016172	2.182152	498.891531	0.000000	
Tything	1610.65	84.28	506.61	1088.57	4.15	502.464703	4.147232	1088.567975	169.995995	
Foregate St	464.51	24.61	144.64	315.55	1.18	143.456825	1.184392	315.553517	131.658275	
Butts	537.86	32.06	163.63	369.61	1.34	162.287602	1.340686	369.607122	113.538514	
Bridge St	1949.01	101.04	592.93	1339.32	4.86	588.072401	4.858167	1339.324411	124.938898	
The Cross	1197.77	63.33	355.85	832.34	2.92	352.929681	2.917159	832.339233	499.956514	
All Saints Rd	1519.87	67.09	462.38	1044.43	3.79	458.588281	3.788476	1044.426636	97.484913	
Lowesmoor	334.81	24.71	101.86	230.07	0.83	101.020887	0.834551	230.073270	98.880878	
Absolute Difference between with and without Bike Share										
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Total Taxis (g/km)	
St Johns	-39.50	248.70	-19.76	-14.63	-0.07	-19.69	-0.07	-14.63	0.000000	
London Road	-27.51	204.43	-14.09	-9.45	-0.05	-14.04	-0.05	-9.45	0.000000	
The Tything	-55.87	326.57	-27.38	-22.10	-0.09	-27.29	-0.09	-22.10	1.157815	
Foregate Street	-15.41	95.35	-7.64	-6.00	-0.03	-7.61	-0.03	-6.00	0.896357	
The Butts	-17.54	124.22	-8.63	-7.00	-0.03	-8.60	-0.03	-7.00	0.773095	
Bridge St	-64.56	426.73	-31.57	-26.08	-0.11	-31.47	-0.11	-26.08	0.850722	
The Cross	-40.29	267.47	-19.29	-17.03	-0.07	-19.22	-0.07	-17.03	3.409799	
All Saints Road	-48.57	283.34	-24.09	-19.09	-0.08	-24.01	-0.08	-19.09	0.663785	
Lowesmoor	-10.86	104.34	-5.36	-4.32	-0.02	-5.34	-0.02	-4.32	0.673290	
2023 Q3 NEVIS										
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Total Taxis (g/km)	
St Johns	2884.60	940.08	473.49	2395.80	0.78	472.712907	0.781622	2395.797374	0.000000	
London Road 40kr	1960.66	766.27	339.98	1608.78	0.56	339.423092	0.561803	1608.779829	0.000000	
Tything	4331.96	1231.90	671.90	3640.35	1.11	670.791077	1.113403	3640.350339	416.990946	
Foregate St	1252.49	359.72	191.78	1055.22	0.32	191.463752	0.318319	1055.217352	322.952868	
Butts	1457.13	467.79	216.58	1234.66	0.36	216.223531	0.361127	1234.659048	277.897324	
Bridge St	5280.13	1603.06	784.83	4473.96	1.31	783.516973	1.308594	4473.964124	305.800948	
The Cross	3255.90	1000.33	469.77	2773.92	0.79	468.987086	0.787131	2773.918797	1217.732609	
All Saints Rd	4117.53	1064.39	612.02	3488.87	1.02	610.999090	1.020463	3488.868910	238.604464	
Lowesmoor	907.04	391.98	134.82	768.55	0.22	134.594958	0.224794	768.551330	242.021235	
% Emission Reduction 2023 to 2029										
Source Name	Total Cars (g/km)	Total LGVs (g/km)	Total Petrol Cars (g/km)	Total Diesel Cars (g/km)	Total Petrol Hybrid (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Diesel Cars (g/km)	Total Taxis (g/km)	
St Johns	-1.37%	26.46%	-4.17%	-0.61%	-8.55%	-4.17%	-8.55%	-0.61%	-	
London Road	-1.40%	26.68%	-4.14%	-0.59%	-8.28%	-4.14%	-8.28%	-0.59%	-	
The Tything	-1.29%	26.51%	-4.08%	-0.61%	-8.45%	-4.07%	-8.45%	-0.61%	0.28%	
Foregate Street	-1.23%	26.51%	-3.98%	-0.57%	-7.96%	-3.98%	-7.96%	-0.57%	0.28%	
The Butts	-1.20%	26.55%	-3.98%	-0.57%	-7.92%	-3.98%	-7.92%	-0.57%	0.28%	
Bridge St	-1.22%	26.62%	-4.02%	-0.58%	-8.11%	-4.02%	-8.11%	-0.58%	0.28%	
The Cross	-1.24%	26.74%	-4.11%	-0.61%	-8.47%	-4.10%	-8.47%	-0.61%	0.28%	
All Saints Road	-1.18%	26.62%	-3.94%	-0.55%	-7.67%	-3.93%	-7.67%	-0.55%	0.28%	
Lowesmoor	-1.20%	26.62%	-3.97%	-0.56%	-7.86%	-3.97%	-7.86%	-0.56%	0.28%	

## Worcester City Council

2029 DFT Medium EFT with Bike Share												
Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
-	-	-	3.442004	0.191805	325.224423	138.968930	77.494702	372.381763	1.767645	<b>7.279935</b>	0.071820	
-	-	-	2.923664	0.162920	267.239229	244.947942	134.605845	34.280569	1.381014	<b>5.660674</b>	0.058710	
0.066389	0.331220	170.756200	4.081561	0.227455	406.456339	289.265496	116.413640	261.447348	3.675441	<b>9.083500</b>	0.090153	
0.051744	0.258170	132.244717	1.171707	0.065298	118.692384	79.506879	32.886069	231.197166	1.167927	<b>2.536114</b>	0.026343	
0.044520	0.222156	114.044933	1.453234	0.080992	154.707060	103.654407	34.850212	798.314291	1.363450	<b>2.718554</b>	0.034361	
0.048991	0.244463	125.496166	4.907845	0.273525	522.474854	370.006870	119.165240	313.087081	6.021904	<b>9.845779</b>	0.116044	
0.190732	0.951856	502.223725	2.889857	0.161069	327.673211	392.484552	29.628602	1,582.657176	6.298285	<b>5.626458</b>	0.072749	
0.038226	0.190745	97.919728	3.258689	0.181614	346.910447	356.886059	115.792638	444.791609	5.056127	<b>7.687203</b>	0.077050	
0.038773	0.193476	99.321919	1.200073	0.066883	127.756250	74.788623	11.242004	591.515075	0.965777	<b>1.692520</b>	0.028375	
Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
0.000000	0.000000	0.000000	0.960961	0.021617	79.227250	138.968930	80.814080	372.381763	1.767645	<b>12.394121</b>	0.018903	
0.000000	0.000000	0.000000	0.816248	0.018362	65.101597	244.947942	140.371499	34.280569	1.381014	<b>9.629193</b>	0.015452	
0.066389	0.397465	169.532141	0.958477	0.021563	83.284949	289.265496	121.400057	261.447348	3.675441	<b>15.473198</b>	0.019959	
0.051744	0.309804	131.296726	0.275153	0.006190	24.320667	79.506879	34.294698	231.197166	1.167927	<b>4.314392</b>	0.005832	
0.044520	0.266587	113.227407	0.341265	0.007678	31.700255	103.654407	36.342972	798.314291	1.363450	<b>4.624483</b>	0.007607	
0.048991	0.293355	124.596552	1.075681	0.024201	99.920601	370.006870	124.269517	313.087081	6.021904	<b>16.757478</b>	0.023978	
0.190732	1.142227	498.623555	0.633387	0.014251	62.665799	392.484552	30.897702	1,582.657176	6.298285	<b>9.585944</b>	0.015032	
0.038226	0.228893	97.217794	0.714226	0.016069	66.344820	356.886059	120.752455	444.791609	5.056127	<b>13.067750</b>	0.015921	
0.038773	0.232171	98.609934	0.263027	0.005918	24.432719	74.788623	11.723539	591.515075	0.965777	<b>2.878651</b>	0.005863	
Absolute Difference between with and without Bike Share												
Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
0.00	0.00	0.00	2.48	0.17	246.00	0.00	-3.32	0.00	0.00	<b>-5.11</b>	0.05	
0.00	0.00	0.00	2.11	0.14	202.14	0.00	-5.77	0.00	0.00	<b>-3.97</b>	0.04	
0.00	-0.07	1.22	3.12	0.21	323.17	0.00	-4.99	0.00	0.00	<b>-6.39</b>	0.07	
0.00	-0.05	0.95	0.90	0.06	94.37	0.00	-1.41	0.00	0.00	<b>-1.78</b>	0.02	
0.00	-0.04	0.82	1.11	0.07	123.01	0.00	-1.49	0.00	0.00	<b>-1.91</b>	0.03	
0.00	-0.05	0.90	3.83	0.25	422.55	0.00	-5.10	0.00	0.00	<b>-6.91</b>	0.09	
0.00	-0.19	3.60	2.26	0.15	265.01	0.00	-1.27	0.00	0.00	<b>-3.96</b>	0.06	
0.00	-0.04	0.70	2.54	0.17	280.57	0.00	-4.96	0.00	0.00	<b>-5.38</b>	0.06	
0.00	-0.04	0.71	0.94	0.06	103.32	0.00	-0.48	0.00	0.00	<b>-1.19</b>	0.02	
2023 Q3 NEVIS												
Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
0.000000	0.000000	0.000000	3.789477	0.002186	936.151014	298.367583	122.094137	1607.144354	2.906732	<b>15.305086</b>	0.137128	
0.000000	0.000000	0.000000	3.197981	0.001858	762.961390	572.069185	222.559660	141.529956	2.249635	<b>11.890769</b>	0.110838	
0.077740	0.331220	416.581986	4.718117	0.002703	1227.000207	571.111934	176.064895	1177.077930	6.080192	<b>19.701932</b>	0.180843	
0.060412	0.258170	322.634286	1.353310	0.000776	358.312958	153.958902	49.325492	1049.487892	1.941513	<b>5.493490</b>	0.052843	
0.051617	0.222156	277.623551	1.678702	0.000962	466.040212	191.498287	51.260869	3635.883836	2.233060	<b>5.888327</b>	0.068713	
0.056800	0.244463	305.499686	5.752704	0.003297	1597.062704	683.576164	175.279099	1425.939971	9.862684	<b>21.337198</b>	0.235470	
0.219741	0.951856	1216.561013	3.384252	0.001941	996.795735	673.873757	42.278670	6649.781706	10.218135	<b>12.205726</b>	0.146607	
0.044319	0.190745	238.369401	3.819654	0.002189	1060.410338	659.335874	170.318370	2025.781877	8.280933	<b>16.639089</b>	0.156346	
0.044953	0.193476	241.782805	1.406659	0.000806	390.515909	138.169650	16.535764	2694.026808	1.581751	<b>3.665369</b>	0.057577	
% Emission Reduction 2023 to 2029												
Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
-	-	-	65.47%	7785.16%	26.28%	0.00%	-2.72%	0.00%	0.00%	<b>-33.41%</b>	38.59%	
-	-	-	65.90%	7779.67%	26.49%	0.00%	-2.59%	0.00%	0.00%	<b>-33.37%</b>	39.03%	
0.00%	-20.00%	0.29%	66.28%	7616.92%	26.34%	0.00%	-2.83%	0.00%	0.00%	<b>-32.43%</b>	38.82%	
0.00%	-20.00%	0.29%	66.25%	7618.19%	26.34%	0.00%	-2.86%	0.00%	0.00%	<b>-32.37%</b>	38.82%	
0.00%	-20.00%	0.29%	66.24%	7620.86%	26.39%	0.00%	-2.91%	0.00%	0.00%	<b>-32.37%</b>	38.94%	
0.00%	-20.00%	0.29%	66.62%	7562.80%	26.46%	0.00%	-2.91%	0.00%	0.00%	<b>-32.39%</b>	39.10%	
0.00%	-20.00%	0.30%	66.68%	7564.93%	26.59%	0.00%	-3.00%	0.00%	0.00%	<b>-32.44%</b>	39.37%	
0.00%	-20.00%	0.29%	66.62%	7562.80%	26.46%	0.00%	-2.91%	0.00%	0.00%	<b>-32.34%</b>	39.10%	
0.00%	-20.00%	0.29%	66.62%	7562.80%	26.46%	0.00%	-2.91%	0.00%	0.00%	<b>-32.36%</b>	39.10%	

## Summary of Impact of Bike Hire and Share Scheme 2024 - 2029

Figure G.59 Summary of Impact of Bike Hire and Share Scheme Scenarios 2024 – 2029

Bike Hire & Share Scheme	2029 NEVIS Low				2029 NEVIS Medium				2029 DfT Low				2029 DfT Medium			
	Petrol Cars Δ	% Δ	Diesel Cars Δ	% Δ	Petrol Cars Δ	% Δ	Diesel Cars Δ	% Δ	Petrol Cars Δ	% Δ	Diesel Cars Δ	% Δ	Petrol Cars Δ	% Δ	Diesel Cars Δ	% Δ
St Johns	-24.71	-5.22%	-37.46	-1.56%	-17.94	-3.79%	-13.28	-0.55%	-27.98	-5.91%	-41.22	-1.72%	-19.76	-4.17%	-14.63	-0.61%
London Road	-17.67	-5.20%	-24.79	-1.54%	-12.79	-3.76%	-8.58	-0.53%	-20.02	-5.89%	-27.28	-1.70%	-14.09	-4.14%	-9.45	-0.59%
The Tything	-36.17	-5.38%	-58.99	-1.62%	-26.32	-3.92%	-21.24	-0.58%	-38.70	-5.76%	-61.32	-1.68%	-27.38	-4.08%	-22.10	-0.61%
Foregate Street	-10.13	-5.28%	-16.62	-1.58%	-7.34	-3.83%	-5.76	-0.55%	-10.84	-5.65%	-17.28	-1.64%	-7.64	-3.98%	-6.00	-0.57%
The Butts	-11.45	-5.29%	-19.45	-1.58%	-8.29	-3.83%	-6.73	-0.54%	-12.26	-5.66%	-20.22	-1.64%	-8.63	-3.98%	-7.00	-0.57%
Bridge St	-41.83	-5.33%	-71.31	-1.59%	-30.35	-3.87%	-25.07	-0.56%	-44.76	-5.70%	-74.10	-1.66%	-31.57	-4.02%	-26.08	-0.58%
The Cross	-24.68	-5.25%	-43.22	-1.56%	-17.84	-3.80%	-14.67	-0.53%	-27.24	-5.80%	-47.05	-1.70%	-19.29	-4.11%	-17.03	-0.61%
All Saints Road	-32.80	-5.36%	-56.06	-1.61%	-23.83	-3.89%	-19.92	-0.57%	-34.31	-5.61%	-56.29	-1.61%	-24.09	-3.94%	-19.09	-0.55%
Lowesmoor	-7.11	-5.28%	-12.07	-1.57%	-5.15	-3.82%	-4.15	-0.54%	-7.61	-5.65%	-12.54	-1.63%	-5.36	-3.97%	-4.32	-0.56%

**Figure G.60 Range of Average Change in Total Road Emissions from HGV Signage**

Bike Hire & Share Scheme	Petrol Range			Diesel Range			Combined ICE Max Δ	Combined ICE Min Δ	Combined ICE Avg. Δ	Road Emissions Impact range
	Max Δ	Min Δ	Avg. Δ	Max Δ	Min Δ	Avg. Δ				
St Johns	-27.98	-17.94	-22.60	-41.22	-13.28	-26.65	-69.20	-31.22	-49.24	-0.47%
London Road	-20.02	-12.79	-16.14	-27.28	-8.58	-17.52	-47.30	-21.37	-33.67	-0.52%
The Tything	-38.70	-26.32	-32.14	-61.32	-21.24	-40.91	-100.01	-47.55	-73.05	-0.60%
Foregate Street	-10.84	-7.34	-8.99	-17.28	-5.76	-11.42	-28.13	-13.10	-20.40	-0.42%
The Butts	-12.26	-8.29	-10.16	-20.22	-6.73	-13.35	-32.47	-15.02	-23.51	-0.26%
Bridge St	-44.76	-30.35	-37.13	-74.10	-25.07	-49.14	-118.86	-55.42	-86.27	-0.60%
The Cross	-27.24	-17.84	-22.26	-47.05	-14.67	-30.49	-74.29	-32.51	-52.76	-0.27%
All Saints Road	-34.31	-23.83	-28.76	-56.29	-19.09	-37.84	-90.60	-42.92	-66.60	-0.53%
Lowesmoor	-7.61	-5.15	-6.31	-12.54	-4.15	-8.27	-20.15	-9.30	-14.58	-0.22%

**Figure G.61 Summary of Impact – Bike Hire and Share**

Total Bike Hire and Share Δ	Reduction NOx (g/km)	% Δ Road Emissions NOx	Banding	Compliant
Maximum Δ	-118.86	-0.82%		
Minimum Δ	-9.30	-0.14%		
Average Maximum Δ	-86.27	-0.60%		
Average Minimum Δ	-14.58	-0.22%		
Overall Average		-0.43%	Negligible	N

## Bus Fleet Improvements

Figure G.62 First Bus Local Fleet Data

Euro Code (Type)	Fleet 02/2017	% of Fleet	Fleet 01/2018	% of Fleet	Fleet 03/2018	% of Fleet	Fleet 02/2020	% of Fleet	Fleet 05/2023	% of Fleet	Fleet 01/2024	% of Fleet
1Pre-Euro I												
2Euro I												
3Euro II	2	3%	1	1%	1	1.39%						
4Euro III	40	54%	33	46%	27	37.50%	22	33%	6	10%	2	3%
5Euro IV	10	14%	10	14%	10	13.89%	9	14%	4	7%	1	2%
6Euro V_EGR									30	49%	23	36%
7Euro V_SCR	9	12%	15	21%	21	29.17%	19	26%		0%		0%
8 Euro VI	13	18%	13	18%	13	18.06%	18	27%	21	34%	38	59%
9Euro II SCRRF												
10Euro III SCRRF												
11Euro IV SCRRF												
12Euro V EGR + SCRRF												
Total	74	100%	72	100%	72	100%	66	100%	61	100%	64	100%

Figure G.63 First Bus Fleet operating within Hotspots 01/2024

Euro Code (Type)	St Johns	London Road	The Tything	Foregate St	The Butts	Bridge St	All Saints Rd	Lowes-moor	The Cross
4Euro III		20%	0%	0%	4%	4%	0%	0%	3%
5Euro IV		10%	0%	0%	2%	2%	0%	0%	2%
6Euro V_EGR	38%	10%	0%	0%	46%	34%	78%	45%	36%
7Euro V_SCR									
8 Euro VI	62%	60%	100%	100%	48%	60%	22%	55%	59%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%

Figure G.64 Fleet Changes 2018 - 2024

For Forecast	2018	2020	Change/ No. of Years	2023	Change/ No. of Years	2024	Change/ No. of Years	Average Change / Year
4Euro III	27	22	-2.5	6	-5.33	2	-4	-3.9
5Euro IV	10	9	-0.5	4	-1.67	1	-3	-1.7
7Euro V	21	19	-1	30	3.67	23	-7	-1.4
8 Euro VI	13	18	2.5	21	1.00	38	17	6.8
<b>Total</b>	<b>71</b>	<b>68</b>	<b>-1.5</b>	<b>61</b>	<b>-2.33</b>	<b>64</b>	<b>3</b>	<b>-0.3</b>
<b>Proportion</b>								
4Euro III	38%	33%	-2.3%	10%	-7.8%	3%	-7%	-5.6%
5Euro IV	14%	14%	-0.2%	7%	-2.4%	2%	-5%	-2.5%
7Euro V	30%	26%	-1.9%	49%	7.8%	36%	-13%	-2.4%
8 Euro VI	18%	27%	4.5%	34%	2.4%	59%	25%	10.6%
<b>Total</b>	<b>100%</b>	<b>100%</b>		<b>100%</b>		<b>100%</b>		

Figure G.65 Fleet Forecast 2024 - 2029 Calculations

Forecast using avg. change 2018-24	Average Change / Year	2024	2025	2026	2027	2028	2029
4Euro III	-3.9	2	0				
5Euro IV	-1.7	1	0				
7Euro V	-1.6	23	21	20	18	17	15
8 Euro VI	7.9	38	43	44	46	47	49
<b>Total</b>	<b>0.0</b>	<b>64</b>	<b>64</b>	<b>64</b>	<b>64</b>	<b>64</b>	<b>64</b>
<b>Proportions</b>							
4Euro III	-5%	3%	0%				
5Euro IV	-3%	2%	0%				
7Euro V	-3%	36%	33%	30%	27%	24%	22%
8 Euro VI	12%	59%	67%	70%	73%	76%	78%
<b>Total</b>		<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

**Figure G.66 Proportion of Vehicle Types for EFT (All Vehicles) Bus Fleet 2029**

2029 (Low EV Uptake DFT Growth (example scenario))									
Area	St Johns	London Rd	The Tything	Foregate St	The Butts	Bridge St	The Cross	All Saints Rd	Lowesmoor
<b>Location ID</b>	StJ1	R12	Tyn	Fos	But2	BrS2	Bkc	DDASH	Lwm1
<b>AADT (One Way)</b>	17998	14475	22562	6842	7669	24125	16431	18710	5168
<b>No. vehicles</b>									
Cars	14488	11256	18087	5043	5406	19588	11205	15275	3365
Taxis	0	0	817	614	488	537	1957	419	425
LGVs	2405	2092	2723	771	927	3129	1788	2078	765
HGVs	242	600	326	80	79	282	224	272	57
Arctic	154	383	150	38	31	106	20	103	10
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>No. vehicles EV split</b>									
Petrol Cars	7163	5565	8942	2493	2673	9684	5540	7552	1664
Diesel Cars	2880	2237	3595	1002	1074	3894	2227	3036	669
Plug In Hybrid Cars	457	355	570	159	170	618	353	482	106
BEV Cars	3715	2886	4638	1293	1386	5023	2874	3917	863
LPG Cars	273	212	341	95	102	369	211	288	63
Taxis Petrol	0	0	3	2	2	2	6	1	1
Taxis Hybrid	0	0	26	19	15	17	61	13	13
Taxis Diesel	0	0	712	535	425	468	1706	365	371
Taxis EV	0	0	77	58	46	50	183	39	40
Petrol LGVs	76	66	86	24	29	99	57	66	24
Diesel LGVs	1663	1446	1883	533	641	2163	1236	1436	529
Plug in Hybrid									
Petrol LGVs	31	27	35	10	12	40	23	27	10
Battery EV LGVs	631	549	715	203	243	821	469	545	201
LPG LGVs	4	3	4	1	2	5	3	3	1
Rigid HGVs Diesel	232	575	313	77	76	270	215	261	55
Rigid HGVs Electric	10	25	13	3	3	12	9	11	2
Arctic Diesel	148	367	144	36	30	102	19	99	10
Arctic Electric	6	16	6	2	1	4	1	4	0
Buses	626	79	306	248	691	271	1033	385	512
Motorcycles	83	66	153	47	48	212	204	178	34
<b>% vehicles for EFT</b>									
Petrol Cars	39.798721	38.444201	39.633839	36.444123	34.848547	40.142855	33.716613	40.364807	32.190967
Diesel Cars	16.000530	15.455964	15.934241	14.651860	14.010380	16.138884	13.555302	16.228117	12.941937
Plug In Hybrid Cars	2.538808	2.452401	2.528290	2.324814	2.223030	2.560760	2.150823	2.574919	2.053500
BEV Cars	20.643468	19.940883	20.557945	18.903449	18.075829	20.821970	17.488698	20.937095	16.697351
LPG Cars	1.516212	1.464609	1.509930	1.388412	1.327625	1.529322	1.284502	1.537778	1.226379
Taxis Petrol	0.000000	0.000000	0.011316	0.028045	0.019885	0.006956	0.037221	0.006998	0.025699
Taxis Hybrid	0.000000	0.000000	0.113159	0.280452	0.198849	0.069560	0.372205	0.069984	0.256990
Taxis Diesel	0.000000	0.000000	3.157148	7.824617	5.547893	1.940710	10.384526	1.952553	7.170026
Taxis EV	0.000000	0.000000	0.339478	0.841357	0.596548	0.208679	1.116616	0.209952	0.770971
Petrol LGVs	0.423913	0.458390	0.382926	0.357729	0.383259	0.411458	0.345154	0.352274	0.469665
Diesel LGVs	9.238261	9.989620	8.345036	7.795923	8.352295	8.966836	7.521892	7.677037	10.235318
Plug in Hybrid									
Petrol LGVs	0.170579	0.184452	0.154086	0.143947	0.154220	0.165567	0.138887	0.141752	0.188989
Battery EV LGVs	3.507837	3.793134	3.168673	2.960171	3.171429	3.404775	2.856119	2.915029	3.886427
LPG LGVs	0.021956	0.023741	0.019833	0.018528	0.019850	0.021311	0.017877	0.018245	0.024325
Rigid HGVs Diesel	1.289396	3.974749	1.385547	1.121284	0.987793	1.120898	1.307298	1.394083	1.057639
Rigid HGVs Electric	0.055229	0.170253	0.059348	0.048029	0.042311	0.048012	0.055996	0.059714	0.045302
Arctic Diesel	0.820525	2.537215	0.637522	0.532610	0.387615	0.421331	0.116723	0.527906	0.185551
Arctic Electric	0.035146	0.108678	0.027307	0.022814	0.016603	0.018047	0.005000	0.022612	0.007948
Buses	3.478246	0.545759	1.356251	3.624868	9.010152	1.123315	6.286978	2.057763	9.907122
Motorcycles	0.461173	0.455950	0.678125	0.686971	0.625886	0.878755	1.241572	0.951381	0.657895

Figure G.67 EFT Input – Local Bus Fleet 2023: St Johns

Primary Inputs		Pollutants	Selected	Standard Outputs	Selected	Additional Outputs
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)		Breakdown by Vehicle
Year	2023	PM <sub>10</sub>		Emissions Rates (g/km)	Y	Source Apportionment
Traffic Format	Detailed Option 2	PM <sub>2.5</sub>		Annual Link Emissions	Y	PM by Source
<i>All must be selected</i>		CO <sub>2</sub>				Primary NO <sub>2</sub> Fraction
						Export Outputs
SourceID	Road Type	Traffic Flow	% Car	% Taxi (black cab)	% LGV	% Rigid HGV
St Johns 2016	Urban (not London)	16405	81.75556233		0 11.50868638	1.475160012
Selected	Advanced Options	Selected	Click the button to:  Run EFT  Clear Input Data			
Y	Bespoke Base Fleets					
	Bespoke Euro Fleet	Y				
	Fleet Projection Tool					
Y						
% Artic HGV	% Bus and Coach	% Motorcycle	Speed(kph)	No of Hours	Link Length (km)	% Gradient
0.93873819	3.815909784	0.50594331	29	24	0.074	
Flow Direction						
% Load						

Figure G.68 EFT Input – Local Bus Fleet 2023: London Road

Primary Inputs		Pollutants	Selected	Standard Outputs	Selected	Additional Outputs
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)		Breakdown by Vehicle
Year	2023	PM <sub>10</sub>		Emissions Rates (g/km)	Y	Source Apportionment
Traffic Format	Detailed Option 2	PM <sub>2.5</sub>		Annual Link Emissions	Y	PM by Source
<i>All must be selected</i>		CO <sub>2</sub>				Primary NO <sub>2</sub> Fraction
						Export Outputs
SourceID	Road Type	Traffic Flow	% Car	% Taxi (black cab)	% LGV	% Rigid HGV
London Road 2016	Urban (not London)	13190	78.99924185		0 12.44882487	4.548900682
London Road20kph	Urban (not London)	13190	78.99924185		0 12.44882487	4.548900682
Selected	Advanced Options	Selected	Click the button to:  Run EFT  Clear Input Data			
Y	Bespoke Base Fleets					
	Bespoke Euro Fleet	Y				
	Fleet Projection Tool					
Y						
% Artic HGV	% Bus and Coach	% Motorcycle	Speed(kph)	No of Hours	Link Length (km)	% Gradient
2.903714936	0.59893859	0.500379075	40	24	1.77	
2.903714936	0.59893859	0.500379075	20	24	1.77	
Flow Direction						
% Load						

**Figure G.69 EFT Input – Local Bus Fleet 2023: The Tything and Foregate Street**

Primary Inputs		Pollutants	Selected	Standard Outputs		Selected	Additional Outputs			
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)			Breakdown by Vehicle			
Year	2023	PM <sub>10</sub>		Emissions Rates (g/km)		Y	Source Apportionment			
Traffic Format	Detailed Option 2	PM <sub>2.5</sub>		Annual Link Emissions		Y	PM by Source			
<i>All must be selected</i>		CO <sub>2</sub>					Primary NO <sub>2</sub> Fraction			
							Export Outputs			
SourceID		Road Type	Traffic Flow	% Car	% Taxi (black cab)		% LGV	% Rigid HGV		
TheTything	Urban (not London)		21248	81.25470633	3.845067771		10.49981175	1.534262048		
Foregate St	Urban (not London)		6473	74.37046192	9.485555384		9.763633555	1.235902982		
Selected	Advanced Options	Selected	Click the button to:							
Y	Bespoke Base Fleets		 Run EFT							
	Bespoke Euro Fleet	N								
	Fleet Projection Tool									
Y				 Clear Input Data						
% Artic HGV	% Bus and Coach	% Motorcycle	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load		
0.705948795	1.440135542	0.720067771		19	24	0.211753				
0.587053916	3.831299243	0.726093002		17	24	0.313909				

NB Default Euro Fleet option selected for The Tything and Foregate Street to incorporate a degree of conservatism

**Figure G.70 EFT Input – Local Bus Fleet 2023: The Butts**

Primary Inputs		Pollutants	Selected	Standard Outputs		Selected	Additional Outputs			
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)			Breakdown by Vehicle			
Year	2023	PM <sub>10</sub>		Emissions Rates (g/km)		Y	Source Apportionment			
Traffic Format	Detailed Option 2	PM <sub>2.5</sub>		Annual Link Emissions		Y	PM by Source			
<i>All must be selected</i>		CO <sub>2</sub>					Primary NO <sub>2</sub> Fraction			
							Export Outputs			
SourceID		Road Type	Traffic Flow	% Car	% Taxi (black cab)		% LGV	% Rigid HGV		
The Butts		Urban (not London)	7256	71.11356119	6.725468578		10.46030871	1.088754135		
Selected	Advanced Options	Selected	Click the button to:							
Y	Bespoke Base Fleets		 Run EFT							
	Bespoke Euro Fleet	Y								
	Fleet Projection Tool									
Y				 Clear Input Data						
% Artic HGV	% Bus and Coach	% Motorcycle	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load		
0.427232635	9.523153252	0.661521499	13	24	0.34					

**Figure G.71 EFT Input – Local Bus Fleet 2023: Bridge Street**

Primary Inputs		Pollutants	Selected	Standard Outputs	Selected	Additional Outputs
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)		Breakdown by Vehicle
Year	2023	PM <sub>10</sub>		Emissions Rates (g/km)	Y	Source Apportionment
Traffic Format	Detailed Option 2	PM <sub>2.5</sub>		Annual Link Emissions	Y	PM by Source
<i>All must be selected</i>		CO <sub>2</sub>				Primary NO <sub>2</sub> Fraction
						Export Outputs
SourceID		Road Type	Traffic Flow	% Car	% Taxi (black cab)	% LGV
Bridge St		Urban (not London)	22707	82.34465143	2.364909499	11.45461752
						1.241907782

Selected	Advanced Options	Selected	Click the button to:  Run EFT  Clear Input Data				
Y	Bespoke Base Fleets						
	Bespoke Euro Fleet	Y					
	Fleet Projection Tool						
Y							
% Artic HGV	% Bus and Coach	% Motorcycle	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction
0.4668164	1.19346457	0.9336328	13	24	0.084		

**Figure G.72 EFT Input – Local Bus Fleet 2023: The Cross**

Primary Inputs		Pollutants	Selected	Standard Outputs	Selected	Additional Outputs
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)		Breakdown by Vehicle
Year	2023	PM <sub>10</sub>		Emissions Rates (g/km)	Y	Source Apportionment
Traffic Format	Detailed Option 2	PM <sub>2.5</sub>		Annual Link Emissions	Y	PM by Source
<i>All must be selected</i>		CO <sub>2</sub>				Primary NO <sub>2</sub> Fraction
						Export Outputs
SourceID		Road Type	Traffic Flow	% Car	% Taxi (black cab)	% LGV
TheCross		Urban (not London)	15620	68.47631242	12.52880922	9.513444302
						1.434058899

Selected	Advanced Options	Selected	Click the button to:  Run EFT  Clear Input Data				
Y	Bespoke Base Fleets						
	Bespoke Euro Fleet	Y					
	Fleet Projection Tool						
Y							
% Artic HGV	% Bus and Coach	% Motorcycle	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction
0.128040973	6.613316261	1.306017926	10	24	0.085		

**Figure G.73 EFT Input – Local Bus Fleet 2023: All Saints Road**

Primary Inputs		Pollutants	Selected	Standard Outputs	Selected	Additional Outputs
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)		Breakdown by Vehicle
Year	2023	PM <sub>10</sub>		Emissions Rates (g/km)	Y	Source Apportionment
Traffic Format	Detailed Option 2	PM <sub>2.5</sub>		Annual Link Emissions	Y	PM by Source
<i>All must be selected</i>		CO <sub>2</sub>				Primary NO <sub>2</sub> Fraction
						Export Outputs
SourceID		Road Type	Traffic Flow	% Car	% Taxi (black cab)	% LGV
AllSaintsRd		Urban (not London)	17665	82.54174922	2.371921879	9.776393999
						1.539767903

Selected	Advanced Options	Selected	Click the button to:  Run EFT   Clear Input Data				
Y	Bespoke Base Fleets						
	Bespoke Euro Fleet	Y					
	Fleet Projection Tool						
Y							
% Artic HGV	% Bus and Coach	% Motorcycle	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction
0.583073875	2.179450892	1.00764223	13	24	0.101		% Load

**Figure G.74 EFT Input – Local Bus Fleet 2023: Lowesmoor**

Primary Inputs		Pollutants	Selected	Standard Outputs	Selected	Additional Outputs
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)		Breakdown by Vehicle
Year	2023	PM <sub>10</sub>		Emissions Rates (g/km)	Y	Source Apportionment
Traffic Format	Detailed Option 2	PM <sub>2.5</sub>		Annual Link Emissions	Y	PM by Source
<i>All must be selected</i>		CO <sub>2</sub>				Primary NO <sub>2</sub> Fraction
						Export Outputs
SourceID		Road Type	Traffic Flow	% Car	% Taxi (black cab)	% LGV
Lowesmoor		Urban (not London)	4886	65.73884568	8.698321736	13.01678264
						1.166598445

Selected	Advanced Options	Selected	Click the button to:  Run EFT   Clear Input Data				
Y	Bespoke Base Fleets						
	Bespoke Euro Fleet	Y					
	Fleet Projection Tool						
Y							
% Artic HGV	% Bus and Coach	% Motorcycle	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction
0.204666394	10.47891936	0.695865739	13	24	0.28		% Load

**Figure G.75 Bespoke Euro Fleet – Local Bus Fleet Composition 2023: St Johns**

Populate with Defaults		OK																				
<b>Default Euro Proportions 2023 - England (not London)</b>		<b>User Euro Proportions 2023 - England (not London)</b>																				
<b>Cars</b>		Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 ab/c	Euro 6 d temp	Euro 6 d												
Conventional Petrol		-	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19											
Hybrid Petrol					0.00	0.02	0.11	0.23	0.21	0.43												OK
Plugin Hybrid Petrol					0.00	0.02	0.16	0.14	0.68													OK
Conventional Diesel		-	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08											OK
Hybrid Diesel					0.00	0.00	0.01	0.10	0.23	0.65												OK
<b>LGVs</b>		Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3												
Petrol LGV		-	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50											
Diesel LGV		-	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36											OK
Petrol Taxi		-	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50											OK
Diesel Taxi		-	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36											OK
<b>Heavy Duty Vehicles</b>		Pre-Euro I	Euro I	Euro II	Euro III	Euro IV	Euro V EGR	Euro V SCR	Euro VI	Euro II SCRRF	Euro III SCRRF	Euro IV SCRRF	Euro V SCRRF to EGR									
Rigid HGVs		-	-	-	0.01	0.03	0.02	0.03	0.08	0.84	-	-	-									OK
Artic HGVs		-	-	-	0.00	0.00	0.00	0.01	0.03	0.96	-	-	-									OK
Conventional Buses		-	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-									OK
Hybrid Buses							-	0.20	0.59	0.21												OK
Conventional Coaches		-	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-									OK
Hybrid Coaches							-	0.20	0.59	0.21												OK
<b>Default Vehicle Size Classes 2023 - England (not London)</b>		<b>User Vehicle Size Class 2023 - England (not London)</b>																				
	<1400	1400-2000	>2000																			
Petrol Car	0.59	0.32	0.09																			OK
Diesel Car	0.11	0.60	0.28																			OK
N1 (I)	N1 (II)	N1 (III)																				
Petrol LGV	0.17	0.21	0.62																			OK
Diesel LGV	0.06	0.26	0.68																			OK
3.5-7.5t	7.5-12t	12-14t	14-20t	20-26t	26-28t	28-32t	>32t															
Rigid HGV	0.23	0.05	0.02	0.12	0.18	0.11	0.23	0.06														OK
14-20t	20-28t	28-34t	34-40t	40-50t																		
Artic HGV	0.01	0.02	0.01	0.10	0.86																	OK
Midi <15 t	Standard 15 - 18t	Articulated >18t																				
Buses	0.31	0.69	-																			OK
Standard <18t	Articulated >18t																					
Coaches	0.50	0.50																				OK

Figure G.76 Bespoke Euro Fleet – Local Bus Fleet Composition 2023: London Road

Populate with Defaults		OK																					
Default Euro Proportions 2023 - England (not London)												User Euro Proportions 2023 - England (not London)											
Cars	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 a/b/c	Euro 6 d-temp	Euro 6 d	Cars	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 a/b/c	Euro 6 d-temp	Euro 6 d				
Conventional Petrol	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19	Conventional Petrol	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19	OK			
Hybrid Petrol				0.00	0.02	0.11	0.23	0.21	0.43	Hybrid Petrol				0.00	0.02	0.11	0.23	0.21	0.43	OK			
Plugin Hybrid Petrol				0.00	0.02	0.16	0.14	0.14	0.68	Plugin Hybrid Petrol				0.00	0.02	0.16	0.14	0.14	0.68	OK			
Conventional Diesel	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08	Conventional Diesel	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08	OK			
Hybrid Diesel				0.00	0.00	0.01	0.10	0.23	0.65	Hybrid Diesel				0.00	0.00	0.01	0.10	0.23	0.65	OK			
LGVs	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3	LGVs	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3				
Petrol LGV	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	Petrol LGV	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	OK			
Diesel LGV	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	Diesel LGV	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	OK			
Petrol Taxi	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	Petrol Taxi	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	OK			
Diesel Taxi	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	Diesel Taxi	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	OK			
Heavy Duty Vehicles	Pre-Euro I	Euro I	Euro II	Euro III	Euro IV	Euro V_EGR	Euro V_SCR	Euro VI	Euro II SCRFF	Euro III SCRFF	Euro IV SCRFF	Euro V SCRFF to EGR	Euro VI	Euro VII	Euro VIII	Euro IX	Euro X	Euro XI	Euro XII	Euro XIII	Euro XIV	Euro XV SCRFF to EGR	
Rigid HGVs	-	-	0.01	0.03	0.02	0.03	0.08	0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	OK	
Artic HGVs	-	-	0.00	0.00	0.00	0.01	0.03	0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	OK	
Conventional Buses	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-	-	-	-	-	-	-	-	-	-	-	OK	
Hybrid Buses						-	0.20	0.59	0.21							-	0.20	0.59	0.21			OK	
Conventional Coaches	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-	-	-	-	-	-	-	-	-	-	-	OK	
Hybrid Coaches						-	0.20	0.59	0.21							-	0.20	0.59	0.21			OK	
Default Vehicle Size Classes 2023 - England (not London)												User Vehicle Size Class 2023 - England (not London)											
	<1400	1400-2000	>2000																				
Petrol Car	0.59	0.32	0.09																				OK
Diesel Car	0.11	0.60	0.28																				OK
	N1 (I)	N1 (II)	N1 (III)																				
Petrol LGV	0.17	0.21	0.62																				OK
Diesel LGV	0.06	0.26	0.68																				OK
	3.5-7.5 t	7.5-12 t	12-14 t	14-20 t	20-26 t	26-28 t	28-32 t	>32 t															
Rigid HGV	0.23	0.05	0.02	0.12	0.18	0.11	0.23	0.06															OK
	14-20 t	20-28 t	28-34 t	34-40 t	40-50 t																		
Artic HGV	0.01	0.02	0.01	0.10	0.86																		OK
	Midi <=15 t	Standard 15-18 t	Articulated >18 t																				
Buses	0.31	0.69	-																				OK
	Standard <=18 t	Articulated >18 t																					
Coaches	0.50	0.60	-																				OK

Figure G.77 Bespoke Euro Fleet – Local Bus Fleet Composition 2023: The Butts

Populate with Defaults		OK																						
Default Euro Proportions 2023 - England (not London)												User Euro Proportions 2023 - England (not London)												
Cars	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 a/b/c	Euro 6 d-temp	Euro 6 d	Cars	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 a/b/c	Euro 6 d-temp	Euro 6 d					
Conventional Petrol	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19	Conventional Petrol	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19					
Hybrid Petrol				0.00	0.02	0.11	0.23	0.21	0.43	Hybrid Petrol				0.00	0.02	0.11	0.23	0.21	0.43					
Plugin Hybrid Petrol				0.00	0.02	0.16	0.14		0.68	Plugin Hybrid Petrol				0.00	0.02	0.16	0.14	0.68						
Conventional Diesel	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08	Conventional Diesel	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08					
Hybrid Diesel				0.00	0.00	0.01	0.10	0.23	0.65	Hybrid Diesel				0.00	0.00	0.01	0.10	0.23	0.65					
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LGVs	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3	LGVs	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3					
Petrol LGV	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	Petrol LGV	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50					
Diesel LGV	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	Diesel LGV	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36					
Petrol Taxi	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	Petrol Taxi	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50					
Diesel Taxi	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	Diesel Taxi	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36					
<hr/>																								
Heavy Duty Vehicles	Pre-Euro I	Euro I	Euro II	Euro III	Euro IV	Euro V_EGR	Euro V_SCR	Euro VI	Euro II SCRFF	Euro III SCRFF	Euro IV SCRFF	Euro V SCRFF to EGR	Heavy Duty Vehicles	Pre-Euro I	Euro I	Euro II	Euro III	Euro IV_EGR	Euro V_SCR	Euro VI	Euro II SCRFF	Euro III SCRFF	Euro IV SCRFF	Euro V SCRFF to EGR
Rigid HGVs	-	-	-	0.01	0.03	0.02	0.03	0.08	0.84	-	-	-	Rigid HGVs	-	-	-	0.01	0.03	0.02	0.03	0.08	0.84		
Artic HGVs	-	-	-	0.00	0.00	0.00	0.01	0.03	0.96	-	-	-	Artic HGVs	-	-	-	0.00	0.00	0.00	0.01	0.03	0.96		
Conventional Buses	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-	Conventional Buses	-	-	-	0.04	0.02	0.46	-	-	-		
Hybrid Buses						-	0.20	0.59	0.21				Hybrid Buses				-	0.20	0.59	0.21				
Conventional Coaches	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-	Conventional Coaches	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72		
Hybrid Coaches						-	0.20	0.59	0.21				Hybrid Coaches				-	0.20	0.59	0.21				
<hr/>																								
Default Vehicle Size Classes 2023 - England (not London)												User Vehicle Size Class 2023 - England (not London)												
	<1400	1400-2000	>2000																					
Petrol Car	0.59	0.32	0.09										Petrol Car	0.59	0.32	0.09								
Diesel Car	0.11	0.60	0.28										Diesel Car	0.11	0.60	0.28								
	N1 (I)	N1 (II)	N1 (III)										N1 (I)	N1 (II)	N1 (III)									
Petrol LGV	0.17	0.21	0.62										Petrol LGV	0.17	0.21	0.62								
Diesel LGV	0.06	0.26	0.68										Diesel LGV	0.06	0.26	0.68								
	3.5-7.5 t	7.5-12 t	12-14 t	14-20 t	20-26 t	26-28 t	28-32 t	>32 t						3.5-7.5 t	7.5-12 t	12-14 t	14-20 t	20-26 t	26-28 t	28-32 t	>32 t			
Rigid HGV	0.23	0.05	0.02	0.12	0.18	0.11	0.23	0.06					Rigid HGV	0.23	0.05	0.02	0.12	0.18	0.11	0.23	0.06			
	14-20 t	20-28 t	28-34 t	34-40 t	40-50 t								Artic HGV	0.01	0.02	0.01	0.10	0.86						
Artic HGV	0.01	0.02	0.01	0.10	0.86								Midi <=15 t	Standard 15-18 t	Articulated >18 t									
	Midi <=15 t	Standard 15-18 t	Articulated >18 t										Buses	0.31	0.69	-								
Buses	0.31	0.69	-										Coaches	0.60	0.60									
	Standard <=18 t	Articulated >18 t																						
Coaches	0.60	0.60																						

Figure G.78 Bespoke Euro Fleet – Local Bus Fleet Composition 2023: Bridge Street

Populate with Defaults		OK																						
Default Euro Proportions 2023 - England (not London)												User Euro Proportions 2023 - England (not London)												
Cars	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 a/b/c	Euro 6 d-temp	Euro 6 d	Cars	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 a/b/c	Euro 6 d-temp	Euro 6 d					
Conventional Petrol	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19	Conventional Petrol	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19					
Hybrid Petrol				0.00	0.02	0.11	0.23	0.21	0.43	Hybrid Petrol				0.00	0.02	0.11	0.23	0.21	0.43					
Plugin Hybrid Petrol				0.00	0.02	0.16	0.14		0.68	Plugin Hybrid Petrol				0.00	0.02	0.16	0.14	0.68						
Conventional Diesel	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08	Conventional Diesel	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08					
Hybrid Diesel				0.00	0.00	0.01	0.10	0.23	0.65	Hybrid Diesel				0.00	0.00	0.01	0.10	0.23	0.65					
LGVs	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3	LGVs	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3					
Petrol LGV	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	Petrol LGV	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50					
Diesel LGV	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	Diesel LGV	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36					
Petrol Taxi	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	Petrol Taxi	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50					
Diesel Taxi	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	Diesel Taxi	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36					
Heavy Duty Vehicles	Pre-Euro I	Euro I	Euro II	Euro III	Euro IV	Euro V_EGR	Euro V_SCR	Euro VI	Euro II SCRFF	Euro III SCRFF	Euro IV SCRFF	Euro V SCRFF to EGR	Heavy Duty Vehicles	Pre-Euro I	Euro I	Euro II	Euro III	Euro IV_EGR	Euro V_SCR	Euro VI	Euro II SCRFF	Euro III SCRFF	Euro IV SCRFF	Euro V SCRFF to EGR
Rigid HGVs	-	-	-	0.01	0.03	0.02	0.03	0.08	0.84	-	-	-	Rigid HGVs	-	-	-	0.01	0.03	0.02	0.03	0.08	0.84		
Artic HGVs	-	-	-	0.00	0.00	0.00	0.01	0.03	0.96	-	-	-	Artic HGVs	-	-	-	0.00	0.00	0.00	0.01	0.03	0.96		
Conventional Buses	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-	Conventional Buses	-	-	-	0.04	0.02	0.34	-	0.60			
Hybrid Buses						-	0.20	0.59	0.21				Hybrid Buses				-	0.20	0.59	0.21				
Conventional Coaches	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-	Conventional Coaches	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72		
Hybrid Coaches						-	0.20	0.59	0.21				Hybrid Coaches				-	0.20	0.59	0.21				
Default Vehicle Size Classes 2023 - England (not London)												User Vehicle Size Class 2023 - England (not London)												
	<1400	1400-2000	>2000																					
Petrol Car	0.59	0.32	0.09										Petrol Car	0.59	0.32	0.09								
Diesel Car	0.11	0.60	0.28										Diesel Car	0.11	0.60	0.28								
	N1 (I)	N1 (II)	N1 (III)										N1 (I)	N1 (II)	N1 (III)									
Petrol LGV	0.17	0.21	0.62										Petrol LGV	0.17	0.21	0.62								
Diesel LGV	0.06	0.26	0.68										Diesel LGV	0.06	0.26	0.68								
	3.5-7.5 t	7.5-12 t	12-14 t	14-20 t	20-26 t	26-28 t	28-32 t	>32 t						3.5-7.5 t	7.5-12 t	12-14 t	14-20 t	20-26 t	26-28 t	28-32 t	>32 t			
Rigid HGV	0.23	0.05	0.02	0.12	0.18	0.11	0.23	0.06					Rigid HGV	0.23	0.05	0.02	0.12	0.18	0.11	0.23	0.06			
	14-20 t	20-28 t	28-34 t	34-40 t	40-50 t								Artic HGV	0.01	0.02	0.01	0.10	0.86						
Artic HGV	0.01	0.02	0.01	0.10	0.86								Midi <=15 t	Standard 15-18 t	Articulated >18 t									
	Midi <=15 t	Standard 15-18 t	Articulated >18 t										Buses	0.31	0.69	-								
Buses	0.31	0.69	-										Coaches	0.60	0.60									
	Standard <=18 t	Articulated >18 t																						
Coaches	0.60	0.60																						

Figure G.79 Bespoke Euro Fleet – Local Bus Fleet Composition 2023: The Cross

Populate with Defaults		OK																					
Default Euro Proportions 2023 - England (not London)												User Euro Proportions 2023 - England (not London)											
Cars	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 a/b/c	Euro 6 d-temp	Euro 6 d	Cars	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 a/b/c	Euro 6 d-temp	Euro 6 d				
Conventional Petrol	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19	Conventional Petrol	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19	OK			
Hybrid Petrol				0.00	0.02	0.11	0.23	0.21	0.43	Hybrid Petrol				0.00	0.02	0.11	0.23	0.21	0.43	OK			
Plugin Hybrid Petrol				0.00	0.02	0.16	0.14	0.14	0.68	Plugin Hybrid Petrol				0.00	0.02	0.16	0.14	0.14	0.68	OK			
Conventional Diesel	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08	Conventional Diesel	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08	OK			
Hybrid Diesel				0.00	0.00	0.01	0.10	0.23	0.65	Hybrid Diesel				0.00	0.00	0.01	0.10	0.23	0.65	OK			
LGVs	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3	LGVs	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3				
Petrol LGV	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	Petrol LGV	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	OK			
Diesel LGV	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	Diesel LGV	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	OK			
Petrol Taxi	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	Petrol Taxi	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	OK			
Diesel Taxi	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	Diesel Taxi	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	OK			
Heavy Duty Vehicles	Pre-Euro I	Euro I	Euro II	Euro III	Euro IV	Euro V EGR	Euro V SCR	Euro VI	Euro II SCRFF	Euro III SCRFF	Euro IV SCRFF	Euro V SCRFF to EGR	Euro VI	Euro VII	Euro VIII	Euro IX	Euro X	Euro XI	Euro XII	Euro XIII	Euro XIV	Euro XV	
Rigid HGVs	-	-	-	0.01	0.03	0.02	0.03	0.08	0.84	-	-	-	-	-	-	-	-	-	-	-	-	OK	
Artic HGVs	-	-	-	0.00	0.00	0.00	0.01	0.03	0.96	-	-	-	-	-	-	-	-	-	-	-	-	OK	
Conventional Buses	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-	-	-	-	-	-	-	-	-	-	OK	
Hybrid Buses						-	0.20	0.59	0.21					-	0.20	0.59	0.21					OK	
Conventional Coaches	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-	-	-	-	-	-	-	-	-	-	OK	
Hybrid Coaches						-	0.20	0.59	0.21					-	0.20	0.59	0.21					OK	
Default Vehicle Size Classes 2023 - England (not London)												User Vehicle Size Class 2023 - England (not London)											
	<1400	1400-2000	>2000																				
Petrol Car	0.59	0.32	0.09																				OK
Diesel Car	0.11	0.60	0.28																				OK
	N1 (I)	N1 (II)	N1 (III)																				
Petrol LGV	0.17	0.21	0.62																				OK
Diesel LGV	0.06	0.26	0.68																				OK
	3.5-7.5 t	7.5-12 t	12-14 t	14-20 t	20-26 t	26-28 t	28-32 t	>32 t															
Rigid HGV	0.23	0.05	0.02	0.12	0.18	0.11	0.23	0.06															OK
	14-20 t	20-28 t	28-34 t	34-40 t	40-50 t																		
Artic HGV	0.01	0.02	0.01	0.10	0.86																		OK
	Midi <=15 t	Standard 15-18 t	Articulated >18 t																				
Buses	0.31	0.69	-																				OK
	Standard <=18 t	Articulated >18 t																					
Coaches	0.50	0.60	-																				OK

Figure G.80 Bespoke Euro Fleet – Local Bus Fleet Composition 2023: All Saints Road

Populate with Defaults		OK																						
Default Euro Proportions 2023 - England (not London)												User Euro Proportions 2023 - England (not London)												
Cars	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 a/b/c	Euro 6 d-temp	Euro 6 d	Cars	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 a/b/c	Euro 6 d-temp	Euro 6 d					
Conventional Petrol	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19	Conventional Petrol	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19					
Hybrid Petrol				0.00	0.02	0.11	0.23	0.21	0.43	Hybrid Petrol				0.00	0.02	0.11	0.23	0.21	0.43					
Plugin Hybrid Petrol				0.00	0.02	0.16	0.14	0.68		Plugin Hybrid Petrol				0.00	0.02	0.16	0.14	0.68						
Conventional Diesel	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08	Conventional Diesel	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08					
Hybrid Diesel				0.00	0.00	0.01	0.10	0.23	0.65	Hybrid Diesel				0.00	0.00	0.01	0.10	0.23	0.65					
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LGVs	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3	LGVs	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3					
Petrol LGV	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	Petrol LGV	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50					
Diesel LGV	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	Diesel LGV	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36					
Petrol Taxi	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	Petrol Taxi	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50					
Diesel Taxi	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	Diesel Taxi	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36					
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Heavy Duty Vehicles	Pre-Euro I	Euro I	Euro II	Euro III	Euro IV	Euro V_EGR	Euro V_SCR	Euro VI	Euro II SCRPF	Euro III SCRPF	Euro IV SCRPF	Euro V SCRPF to EGR	Heavy Duty Vehicles	Pre-Euro I	Euro I	Euro II	Euro III	Euro IV_EGR	Euro V_SCR	Euro VI	Euro II SCRPF	Euro III SCRPF	Euro IV SCRPF	Euro V SCRPF to EGR
Rigid HGVs	-	-	-	0.01	0.03	0.02	0.03	0.08	0.84	-	-	-	Rigid HGVs	-	-	-	0.01	0.03	0.02	0.03	0.08	0.84		
Artic HGVs	-	-	-	0.00	0.00	0.00	0.01	0.03	0.96	-	-	-	Artic HGVs	-	-	-	0.00	0.00	0.00	0.01	0.03	0.96		
Conventional Buses	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-	Conventional Buses	-	-	-	-	-	-	0.78	-	-		
Hybrid Buses						-	0.20	0.59	0.21				Hybrid Buses				-	-	0.20	0.59	0.21			
Conventional Coaches	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-	Conventional Coaches	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72		
Hybrid Coaches						-	0.20	0.59	0.21				Hybrid Coaches				-	-	0.20	0.59	0.21			
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Default Vehicle Size Classes 2023 - England (not London)												User Vehicle Size Class 2023 - England (not London)												
	<1400	1400-2000	>2000																					
Petrol Car	0.59	0.32	0.09										Petrol Car	0.59	0.32	0.09								
Diesel Car	0.11	0.60	0.28										Diesel Car	0.11	0.60	0.28								
	N1 (I)	N1 (II)	N1 (III)										N1 (I)	N1 (II)	N1 (III)									
Petrol LGV	0.17	0.21	0.62										Petrol LGV	0.17	0.21	0.62								
Diesel LGV	0.06	0.26	0.68										Diesel LGV	0.06	0.26	0.68								
	3.5-7.5 t	7.5-12 t	12-14 t	14-20 t	20-26 t	26-28 t	28-32 t	>32 t						3.5-7.5 t	7.5-12 t	12-14 t	14-20 t	20-26 t	26-28 t	28-32 t	>32 t			
Rigid HGV	0.23	0.05	0.02	0.12	0.18	0.11	0.23	0.06					Rigid HGV	0.23	0.05	0.02	0.12	0.18	0.11	0.23	0.06			
	14-20 t	20-28 t	28-34 t	34-40 t	40-50 t								Artic HGV	0.01	0.02	0.01	0.10	0.86						
Artic HGV	0.01	0.02	0.01	0.10	0.86								Midi <=15 t	Standard 15-18 t	Articulated >18 t									
	Midi <=15 t	Standard 15-18 t	Articulated >18 t										Buses	0.31	0.69	-								
Buses	0.31	0.69	-										Coaches	0.60	0.60									
	Standard <=18 t	Articulated >18 t											Coaches	0.60	0.60									

Figure G.81 Bespoke Euro Fleet – Local Bus Fleet Composition 2023: Lowesmoor

Populate with Defaults		OK																						
Default Euro Proportions 2023 - England (not London)												User Euro Proportions 2023 - England (not London)												
Cars	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 a/b/c	Euro 6 d-temp	Euro 6 d	Cars	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 a/b/c	Euro 6 d-temp	Euro 6 d					
Conventional Petrol	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19	Conventional Petrol	-	-	-	0.02	0.10	0.23	0.31	0.16	0.19					
Hybrid Petrol				0.00	0.02	0.11	0.23	0.21	0.43	Hybrid Petrol				0.00	0.02	0.11	0.23	0.21	0.43					
Plugin Hybrid Petrol				0.00	0.02	0.16	0.14		0.68	Plugin Hybrid Petrol				0.00	0.02	0.16	0.14	0.68						
Conventional Diesel	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08	Conventional Diesel	-	-	-	0.01	0.10	0.34	0.37	0.09	0.08					
Hybrid Diesel				0.00	0.00	0.01	0.10	0.23	0.65	Hybrid Diesel				0.00	0.00	0.01	0.10	0.23	0.65					
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LGVs	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3	LGVs	Pre-Euro 1	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6.1	Euro 6.2	Euro 6.3					
Petrol LGV	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	Petrol LGV	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50					
Diesel LGV	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	Diesel LGV	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36					
Petrol Taxi	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50	Petrol Taxi	-	-	-	0.03	0.08	0.12	0.07	0.21	0.50					
Diesel Taxi	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36	Diesel Taxi	-	-	-	0.01	0.06	0.19	0.12	0.26	0.36					
<hr/>																								
Heavy Duty Vehicles	Pre-Euro I	Euro I	Euro II	Euro III	Euro IV	Euro V_EGR	Euro V_SCR	Euro VI	Euro II SCRFF	Euro III SCRFF	Euro IV SCRFF	Euro V SCRFF to EGR	Heavy Duty Vehicles	Pre-Euro I	Euro I	Euro II	Euro III	Euro IV_EGR	Euro V_SCR	Euro VI	Euro II SCRFF	Euro III SCRFF	Euro IV SCRFF	Euro V SCRFF to EGR
Rigid HGVs	-	-	-	0.01	0.03	0.02	0.03	0.08	0.84	-	-	-	Rigid HGVs	-	-	-	0.01	0.03	0.02	0.03	0.08	0.84		
Artic HGVs	-	-	-	0.00	0.00	0.00	0.01	0.03	0.96	-	-	-	Artic HGVs	-	-	-	0.00	0.00	0.00	0.01	0.03	0.96		
Conventional Buses	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-	Conventional Buses	-	-	-	-	-	-	0.45	-	-		
Hybrid Buses						-	0.20	0.59	0.21				Hybrid Buses				-	-	0.20	0.59	0.21			
Conventional Coaches	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72	-	-	-	Conventional Coaches	-	-	-	0.01	0.03	0.04	0.05	0.15	0.72		
Hybrid Coaches						-	0.20	0.59	0.21				Hybrid Coaches				-	-	0.20	0.59	0.21			
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Default Vehicle Size Classes 2023 - England (not London)												User Vehicle Size Class 2023 - England (not London)												
	<1400	1400-2000	>2000																					
Petrol Car	0.59	0.32	0.09										Petrol Car	0.59	0.32	0.09								
Diesel Car	0.11	0.60	0.28										Diesel Car	0.11	0.60	0.28								
	N1 (I)	N1 (II)	N1 (III)										N1 (I)	N1 (II)	N1 (III)									
Petrol LGV	0.17	0.21	0.62										Petrol LGV	0.17	0.21	0.62								
Diesel LGV	0.06	0.26	0.68										Diesel LGV	0.06	0.26	0.68								
	3.5-7.5 t	7.5-12 t	12-14 t	14-20 t	20-26 t	26-28 t	28-32 t	>32 t						3.5-7.5 t	7.5-12 t	12-14 t	14-20 t	20-26 t	26-28 t	28-32 t	>32 t			
Rigid HGV	0.23	0.05	0.02	0.12	0.18	0.11	0.23	0.06					Rigid HGV	0.23	0.05	0.02	0.12	0.18	0.11	0.23	0.06			
	14-20 t	20-28 t	28-34 t	34-40 t	40-50 t								Artic HGV	0.01	0.02	0.01	0.10	0.86						
Artic HGV	0.01	0.02	0.01	0.10	0.86								Midi <=15 t	Standard 15-18 t	Articulated >18 t									
	Midi <=15 t	Standard 15-18 t	Articulated >18 t										Buses	0.31	0.69	-								
Buses	0.31	0.69	-										Coaches	0.60	0.60	-								
	Standard <=18 t	Articulated >18 t																						
Coaches	0.60	0.60	-																					

Figure G.82 EFT Input – Bus Fleet Improvements 2029

Primary Inputs		Pollutants	Selected	Standard Outputs		Selected	Additional Outputs		Selected	Advanced Options		Selected	Click the button to:	
Area	England (not London)	NO <sub>x</sub>	Y	Air Quality Modelling (g/km/s)			Breakdown by Vehicle		Y	Bespoke Base Fleets			 Run EFT	
Year	2029	PM <sub>10</sub>		Emissions Rates (g/km)		Y	Source Apportionment			Bespoke Euro Fleet		Y	 Clear Input Data	
Traffic Format	All Vehicle Types	PM <sub>2.5</sub>		Annual Link Emissions		Y	PM by Source			Fleet Projection Tool				
<i>All must be selected</i>		CO <sub>2</sub>					Primary NO <sub>2</sub> Fraction		Y					
							Export Outputs							
SourceID	Road Type	Traffic Flow	% Petrol Car	% Petrol Hybrid Car		% Petrol Plugin Hybrid Car	% Diesel Car		% Diesel Hybrid Car	% Electric Car		% Petrol Taxi (black cab)	% Petrol Hybrid Taxi (black cab)	% Diesel Taxi (black cab)
St Johns	Urban (not London)	17997.5768	39.79872107			0	2.538807716		16.00052988	0		20.64346842	0	0
London Road 40km	Urban (not London)	14475.2636	38.44420149			0	2.452401302		15.45596386	0		19.94088348	0	0
Tything	Urban (not London)	22562.1957	39.63383934			0	2.528289714		15.93424144	0		20.5579448	0.011315942	0.113159421
Foregate St	Urban (not London)	6841.6288	36.44412288			0	2.324813911		14.6518597	0		18.90344915	0.028045222	0.280452222
Butts	Urban (not London)	7669.1273	34.84854729			0	2.223030248		14.01038042	0		18.07582923	0.019884922	0.198849222
Bridge St	Urban (not London)	24125.0278	40.142855			0	2.560760428		16.13888421	0		20.82196959	0.006955951	0.0695559505
The Cross	Urban (not London)	16430.7876	33.71661264			0	2.15082279		13.55530161	0		17.48869837	0.037220523	0.372205225
All Saints Rd	Urban (not London)	18709.6366	40.36480711			0	2.574919017		16.22811701	0		20.93709543	0.006998399	0.069983989
Lowesmoor	Urban (not London)	5167.9992	32.19096698			0	2.053500041		12.94193671	0		16.69735088	0.025699017	0.256990171
0	0.42391291	0	0.170578501	9.238261404		3.5078371	1.289395979		0.05522948	0.820524714		0.035146034	3.478246027	0
0	0.45839024	0	0.184451848	9.989619902		3.793133553	3.97474938		0.17025286	2.537215021		0.108678073	0.545758628	0
0.339478263	0.38292577	0	0.154085669	8.345035734		3.168672618	1.385546862		0.05934797	0.637521562		0.027307349	1.356250979	0
0.841356666	0.35772884	0	0.143946666	7.7959234		2.960170549	1.121283576		0.04802862	0.532609698		0.022813595	3.624867809	0
0.596547667	0.38325887	0	0.154219705	8.352294932		3.17142899	0.987793413		0.04231076	0.387615137		0.016602955	9.010151651	0
0.208678516	0.41145808	0	0.165566799	8.966835547		3.404774667	1.120898446		0.04801212	0.421330621		0.018047111	1.123314768	0
1.116615676	0.34515447	0	0.138886857	7.521892163		2.856118834	1.307298063		0.05599629	0.116723041		0.004999669	6.28697799	0
0.209951967	0.35227357	0	0.141751515	7.677037472		2.915028671	1.394082684		0.05971359	0.527906311		0.022612132	2.05776311	0
0.770970514	0.46966451	0	0.18898851	10.2353183		3.886427077	1.057638859		0.04530249	0.185550677		0.007947805	9.907122277	0
0	0	0	0	0.461173195		0	1.51621192		0.021955649	0		0	0	0
0	0	0	0	0.455950246		0	1.46460879		0.023741327	0		0	40	24
0	0	0	0	0.678125489		0	1.50993042		0.019832809	0		0	0	1.77
0	0	0	0	0.686970915		0	1.38841179		0.018527789	0		0	0	0
0	0	0	0	0.625886077		0	1.32762514		0.019850061	0		0	0	19
0	0	0	0	0.878755464		0	1.52932239		0.021310578	0		0	0	0
0	0	0	0	1.241571646		0	1.28450183		0.017876526	0		0	0	10
0	0	0	0	0.951381386		0	1.5377781		0.018245244	0		0	0	13
0	0	0	0	0.657894839		0	1.2263793		0.024325254	0		0	0	24
0	0	0	0									0	0	0.28

**Figure G.83 EFT Output – Local Bus Fleet Composition 2023: St. Johns**

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)	Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Diesel LGVs (g/km)	
	St Johns 2016	5,840.96504	3,957.10182	1,883.86322	416.08416	10.01186	2.30291	2,566.96402	16.54135	-	-	-	-	3.60015	-	-	938.69063
Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)
-	301.22278	-	122.09414	-	996.15286	13.82882	-	0.52804	441.20202	8.62923	-	0.20535	-	-	-	-	2.90673

**Figure G.84 EFT Output – Local Bus Fleet Composition 2023: London Road**

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)	Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Diesel LGVs (g/km)	
	London Road 2016	3,777.47832	2,812.81887	964.65944	298.76183	7.20928	1.65525	1,723.71837	11.15513	-	-	-	-	3.03820	-	-	765.03117
Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)
-	577.54353	-	222.55966	-	120.46950	1.33966	-	0.06664	41.84030	0.81424	-	0.02591	-	-	-	-	2.24964

**Figure G.85 EFT Output – Local Bus Fleet Composition 2023: The Tything and Foregate Street**

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)	Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Diesel LGVs (g/km)	
	TheTything	7,591.66807	6,024.76021	1,566.90786	590.43351	14.22263	3.28045	3,900.43351	25.07515	-	0.06285	4.98667	245.38000	-	4.47641	-	-
Foregate St	2,795.83164	1,867.89384	927.93780	168.52731	4.06311	0.93787	1,130.60687	7.26894	-	0.04884	3.88686	190.04183	-	1.28570	-	-	359.28500
Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)
-	576.57712	-	176.06490	-	484.41437	9.54024	-	0.25811	313.71068	6.24207	-	0.10038	-	-	-	-	6.08019
-	155.43219	-	49.32549	-	427.44057	8.45211	-	0.20919	281.36982	5.62708	-	0.08135	-	-	-	-	1.94151

Figure G.86 EFT Output – Local Bus Fleet Composition 2023: The Butts

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)	Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)
Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)
The Butts	6,519.26421	2,165.41833	4,353.84588	190.32098	4.60096	1.06400	1,322.86870	8.51584	-	0.04173	3.34466	163.52908	-	1.59483	-	-	467.30450

  

Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)
-	193.33081	-	51.26087	-	3,042.86203	29.11958	-	0.58286	1,016.05087	20.41219	-	0.22667	-	-	-	-	2.23306

Figure G.87 EFT Output – Local Bus Fleet Composition 2023: Bridge Street

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)	Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)
Bridge St	9,570.96878	7,335.04462	2,235.92416	689.65538	16.67224	3.85554	4,793.60445	30.85837	-	0.04592	3.68049	179.94900	-	5.46529	-	-	1,601.39526

  

Electric Rigid LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)
-	690.11756	-	175.27910	-	952.30423	11.42027	-	0.22859	398.48015	8.00536	-	0.08890	-	-	-	-	9.86268

Figure G.88 EFT Output – Local Bus Fleet Composition 2023: The Cross

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)	Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)
TheCross	12,438.98486	5,160.45382	7,278.53104	412.80467	10.01062	2.31914	2,972.10016	19.18478	-	0.17764	14.33061	716.59302	-	3.21517	-	-	999.49987

  

Electric Rigid LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)
-	680.32231	-	42.27867	-	4,506.42833	53.52962	-	0.87134	1,955.30449	39.45742	-	0.33886	-	-	-	-	10.21814

**Figure G.89 EFT Output – Local Bus Fleet Composition 2023: All Saints Road**

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)	Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)
AllSaintsRd	9,386.97804	5,534.51712	3,852.46092	537.80432	13.00128	3.00661	3,738.12956	24.06385	-	0.03583	2.87174	140.40714	-	3.62882	-	-	1,063.28705
Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)
-	665.64531	-	170.31837	-	2,422.34241	16.22437	-	0.32475	566.10649	11.37293	-	0.12629	-	-	-	-	8.28093

**Figure G.90 EFT Output – Local Bus Fleet Composition 2023: Lowesmoor**

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)	Petrol LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Diesel LGVs (g/km)
Lowesmoor	4,405.74454	1,490.61891	2,915.12563	118.47112	2.86401	0.66232	823.46013	5.30095	-	0.03634	2.91287	142.41774	-	1.33638	-	-	391.57531
Electric LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles (g/km)
-	139.49185	-	16.53576	-	1,968.94926	21.57630	-	0.43188	752.84811	15.12452	-	0.16795	-	-	-	-	1.58175

Figure G.91 EFT Output – Bus Fleet Improvements 2029

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Petrol Hybrid Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	Diesel Cars (g/km)	Diesel Hybrid Cars (g/km)	Electric Cars (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Electric Taxi (g/km)		
St Johns	2,815.74187	1,649.14251	1,166.59935	388.29968	-	2.44607	874.49021	-	-	-	-	-	-		
London Road 40km	1,648.54709	1,187.33715	461.20994	281.07292	-	1.76854	589.37943	-	-	-	-	-	-		
Tything	3,585.20999	2,474.43318	1,110.77682	532.90794	-	3.36115	1,286.01016	-	-	0.06639	0.33122	170.75620	-		
Petrol LGVs (g/km)	Petrol Hybrids (g/km)	Petrol Plugins (g/km)	Diesel LGVs (g/km)	LGVs (g/km)	Rigid HGVs (g/km)	Rigid Electric HGVs (g/km)	Artic HGVs (g/km)	Artic Electric HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Electric Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	
3.77077	-	0.15146	369.66283	-	138.96893	-	77.49470	-	950.13572	-	-	-	-	-	
3.20292	-	0.12867	303.75459	-	244.94794	-	134.60584	-	81.65616	-	-	-	-	-	
4.47141	-	0.17958	461.99421	-	289.26550	-	116.41364	-	705.09768	-	-	-	-	-	
1.28362	-	0.05155	134.91042	-	79.50688	-	32.88607	-	629.27536	-	-	-	-	-	
1.59204	-	0.06394	175.84611	-	103.65441	-	34.85021	-	2,182.75426	-	-	-	-	-	
5.37662	-	0.21593	593.86540	-	370.00687	-	119.16524	-	856.04400	-	-	-	-	-	
3.16588	-	0.12715	372.44622	-	392.48455	-	29.62860	-	4,077.90778	-	-	-	-	-	
3.56994	-	0.14337	394.31202	-	356.88606	-	115.79264	-	1,216.15107	-	-	-	-	-	
1.31470	-	0.05280	145.21276	-	74.78862	-	11.24200	-	1,617.32298	-	-	-	-	-	
Electric Coaches (g/km)	Biogas Coaches (g/km)	TfL Conventional Buses (g/km)	TfL Hybrid Buses (g/km)	TfL Electric Buses (g/km)	TfL Biogas Buses (g/km)	Motorcycles	Bioethanol Cars (g/km)	LPG Cars (g/km)	Bioethanol LGVs (g/km)	LPG LGVs (g/km)	Biodiesel Rigid HGVs (g/km)	Biodiesel Artic HGVs (g/km)	Biodiesel Buses (g/km)	Biomethane Buses (g/km)	Biodiesel Coaches (g/km)
-	-	-	-	-	-	1.76765	-	8.46902	-	0.08483	-	-	-	-	-
-	-	-	-	-	-	1.38101	-	6.57972	-	0.06935	-	-	-	-	-
-	-	-	-	-	-	3.67544	-	10.57298	-	0.10649	-	-	-	-	-
-	-	-	-	-	-	1.16793	-	2.94806	-	0.03112	-	-	-	-	-
-	-	-	-	-	-	1.36345	-	3.15995	-	0.04059	-	-	-	-	-
-	-	-	-	-	-	6.02190	-	11.45054	-	0.13707	-	-	-	-	-
-	-	-	-	-	-	6.29828	-	6.55017	-	0.08593	-	-	-	-	-
-	-	-	-	-	-	5.05613	-	8.92932	-	0.09101	-	-	-	-	-
-	-	-	-	-	-	0.96578	-	1.96701	-	0.03352	-	-	-	-	-

**Figure G.92 Evaluating Impact – Bus Fleet Improvements: 2018 - 2023**

2023baseyear using Jan24BusFleet Data							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Buses	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)
St Johns 2016	5,840.965037	3,957.101816	1,883.863220	1,460.546308	416.084157	10.011861	2.302910
London Road 2016	3,777.478319	2,812.818874	964.659445	164.556253	298.761826	7.209280	1.655253
The Butts	6,519.264209	2,165.418330	4,353.845879	4,109.254204	190.320984	4.600960	1.063996
Bridge St	9,570.968780	7,335.044622	2,235.924159	1,370.527497	689.655380	16.672237	3.855543
All Saints Road	9,386.978038	5,534.517121	3,852.460918	3,016.497239	537.804316	13.001277	3.006614
Lowesmoor	4,405.744542	1,490.618914	2,915.125629	2,759.098017	118.471124	2.864008	0.662317
The Cross	12,438.984860	5,160.453822	7,278.531038	6,555.930057	412.804672	10.010618	2.319143
The Tything Defaultfleet	7,591.668068	6,024.760207	1,566.907861	814.265846	590.433509	14.222628	3.280447
Foregate St Default fleet	2,795.831638	1,867.893836	927.937802	723.180117	168.527309	4.063108	0.937871
Source Apportionment Study 2022							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Buses	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)
St Johns	10543.678711	5542.173340	5001.504883	3833.056265	594.707397	4.139253	0.056318
London Road	6457.609863	3884.703369	2572.906250	378.413279	414.667297	2.902816	0.039987
The Tything	12151.101580	8989.511482	3161.590098	1659.014247	777.485454	9.274020	2.050767
Foregate Street	4899.474270	3018.041667	1881.432603	1471.100426	221.723194	2.652737	0.586281
The Butts	9017.143746	3400.787306	5616.356440	5139.129124	249.291926	3.003393	0.663196
Bridge St	14425.675107	10737.103830	3688.571278	2010.305351	903.339256	10.883156	2.403172
All Saints Road	12522.899221	8038.951125	4483.948096	2865.005386	704.463291	8.487159	1.874098
Lowesmoor	6538.063374	2439.898689	4098.164685	3805.883162	155.189889	1.869680	0.412855
The Cross	19247.439333	8722.236393	10525.202940	9247.353603	537.258451	6.511133	1.436828
% Change 2018 - 2023							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Buses	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)
St Johns	-44.60%	-28.60%	-62.33%	-61.90%	-30.04%	141.88%	3989.12%
London Road	-41.50%	-27.59%	-62.51%	-56.51%	-27.95%	148.35%	4039.45%
The Butts	-27.70%	-36.33%	-22.48%	-20.04%	-23.66%	53.19%	60.43%
Bridge St	-33.65%	-31.69%	-39.38%	-31.82%	-23.65%	53.19%	60.44%
All Saints Road	-25.04%	-31.15%	-14.08%	5.29%	-23.66%	53.19%	60.43%
Lowesmoor	-32.61%	-38.91%	-28.87%	-27.50%	-23.66%	53.18%	60.42%
The Cross	-35.37%	-40.84%	-30.85%	-29.10%	-23.16%	53.75%	61.41%
London Road	-44.53%	-28.62%	-62.05%	-55.34%	-31.00%	138.68%	3974.10%
The Tything Defaultfleet	-37.52%	-32.98%	-50.44%	-50.92%	-24.06%	53.36%	59.96%
Foregate St Default fleet	-42.94%	-38.11%	-50.68%	-50.84%	-23.99%	53.17%	59.97%
Absolute Difference 2018 - 2023							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Buses	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)
St Johns	4,702.713674	1,585.071523	3,117.641662	2,372.509957	178.623240	5.872609	2.246592
London Road	2,680.131544	1,071.884495	1,608.246805	213.857026	115.905471	4.306463	1.615266
The Butts	2,497.879537	1,235.368976	1,262.510561	1,029.874920	58.970942	1.597566	0.400800
Bridge St	4,854.706327	3,402.059208	1,452.647119	639.777854	213.683876	5.789081	1.452371
All Saints Road	3,135.921183	2,504.434004	631.487179	151.491853	166.658975	4.514118	1.132516
Lowesmoor	2,132.318832	949.279775	1,183.039057	1,046.785146	36.718765	0.994328	0.249462
The Cross	6,808.454473	3,561.782571	3,246.671902	2,691.423546	124.453779	3.499485	0.882314
The Tything Defaultfleet	4,559.433512	2,964.751275	1,594.682237	844.748400	187.051945	4.948609	1.229679
Foregate St Default fleet	2,103.642633	1,150.147831	953.494801	747.920309	53.195885	1.410371	0.351590

## Worcester City Council

2023baseyear using Jan24BusFleet Data									
Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Total Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Diesel LGVs (g/km)
2,566.964024	16.541353	-	-	-	-	3.600147	-	938.690632	
1,723.718369	11.155133	-	-	-	-	3.038204	-	765.031174	
1,322.868700	8.515839	166.915460	0.041727	3.344657	163.529076	1.594830	-	467.304500	
4,793.604448	30.858366	183.675414	0.045917	3.680493	179.949004	5.465288	-	1,601.395262	
3,738.129557	24.063848	143.314709	0.035827	2.871744	140.407137	3.628817	-	1,063.287050	
823.460129	5.300945	145.366948	0.036340	2.912867	142.417740	1.336380	-	391.575312	
2,972.100159	19.184783	731.101271	0.177639	14.330613	716.593020	3.215169	-	999.499872	
3,900.433507	25.075152	250.429518	0.062845	4.986671	245.380002	4.476405	-	1,230.328849	
1,130.606874	7.268936	193.977529	0.048837	3.886865	190.041827	1.285696	-	359.285000	
Source Apportionment Study 2022									
Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Total Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Petrol Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)
3707.015625	8.336833	0.00	0.00	0.00	0.00	16.469919	0.00	1203.325439	
2476.249756	5.591173	0.00	0.00	0.00	0.00	14.788893	0.00	963.706360	
5090.536813	16.313639	848.438546	0.00	0.00	0.00	2.972697	0.00	2228.864739	
1475.887728	4.729342	656.573924	0.00	0.00	0.00	0.852641	0.00	650.687711	
1727.002810	5.540384	564.107683	0.00	0.00	0.00	1.054320	0.00	845.245668	
6258.002238	20.076248	619.043887	0.00	0.00	0.00	3.614831	0.00	2897.999945	
4880.262672	15.656332	483.628254	0.00	0.00	0.00	2.399917	0.00	1924.006309	
1075.098495	3.449015	491.046242	0.00	0.00	0.00	0.883707	0.00	708.465069	
3879.090802	12.482956	2460.785905	0.00	0.00	0.00	2.115347	0.00	1800.224368	
% Change 2018 - 2023									
Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Total Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Petrol Hybrid Petrol LGVs (g/km)	Diesel LGVs (g/km)
-30.75%	98.41%	-	-	-	-	-78.14%	-	-	-21.99%
-30.39%	99.51%	-	-	-	-	-79.46%	-	-	-20.62%
-23.40%	53.70%	-70.41%	-	-	-	51.27%	-	-	-44.71%
-23.40%	53.71%	-70.33%	-	-	-	51.19%	-	-	-44.74%
-23.40%	53.70%	-70.37%	-	-	-	51.21%	-	-	-44.74%
-23.41%	53.69%	-70.40%	-	-	-	51.22%	-	-	-44.73%
-23.38%	53.69%	-70.29%	-	-	-	51.99%	-	-	-44.48%
-30.62%	100.02%	-	-	-	-	-76.74%	-	-	-22.50%
-23.38%	53.71%	-70.48%	-	-	-	50.58%	-	-	-44.80%
-23.39%	53.70%	-70.46%	-	-	-	50.79%	-	-	-44.78%
Absolute Difference 2018 - 2023									
Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Total Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)	Petrol Hybrid LGVs (g/km)	Diesel LGVs (g/km)
1,140.051601	8.204520	-	-	-	-	12.869772	-	-	264.634807
752.531387	5.563961	-	-	-	-	11.750689	-	-	198.675186
404.134110	2.975455	397.192223	0.041727	3.344657	163.529076	0.540510	-	-	377.941169
1,464.397789	10.782118	435.368473	0.045917	3.680493	179.949004	1.850457	-	-	1,296.604683
1,142.133115	8.407516	340.313545	0.035827	2.871744	140.407137	1.228900	-	-	860.719259
251.638366	1.851930	345.679294	0.036340	2.912867	142.417740	0.452673	-	-	316.889757
906.990643	6.701827	1,729.684633	0.177639	14.330613	716.593020	1.099822	-	-	800.724496
1,190.103305	8.761512	598.009028	0.062845	4.986671	245.380002	1.503708	-	-	998.535890
345.280854	2.539594	462.596395	0.048837	3.886865	190.041827	0.433055	-	-	291.402711

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2023baseyear using Jan24BusFleet Data											
Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Biogas Coaches (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
301.222775	122.094137	996.152857	13.828817	0.528037	441.202024	8.629226	0.205348	2.906732	-	-	
577.543532	222.559660	120.469501	1.339655	0.066637	41.840303	0.814242	0.025914	2.249635	-	-	
193.330806	51.260869	3,042.862033	29.119583	0.582865	1,016.050866	20.412189	0.226670	2.233060	-	-	
690.117562	175.279099	952.304229	11.420271	0.228591	398.480151	8.005359	0.088896	9.862684	-	-	
665.645308	170.318370	2,422.342412	16.224370	0.324751	566.106488	11.372927	0.126292	8.280933	-	-	
139.491848	16.535764	1,968.949259	21.576304	0.431877	752.848109	15.124516	0.167952	1.581751	-	-	
680.322310	42.278670	4,506.428332	53.529617	0.871345	1,955.304488	39.457419	0.338856	10.218135	-	-	
576.577120	176.064895	484.414367	9.540243	0.258114	313.710679	6.242066	0.100378	6.080192	-	-	
155.432193	49.325492	427.440570	8.452106	0.209190	281.369816	5.627083	0.081352	1.941513	-	-	
Source Apportionment Study 2022											
Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coache s (g/km)	Hybrid Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Biogas Coaches (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
720.915466	446.980499	3815.965820	17.090445	0.00	0.00	0.00	0.00	8.122445	0.00	0.00	
1377.917847	816.505554	376.856720	1.556559	0.00	0.00	0.00	0.00	6.757076	0.00	0.00	
1059.419581	442.772052	1641.954315	17.059931	0.00	0.00	0.00	0.00	13.574806	0.00	0.00	
285.924261	124.097412	1455.930028	15.170398	0.00	0.00	0.00	0.00	4.348110	0.00	0.00	
347.766332	128.593558	5086.466041	52.663084	0.00	0.00	0.00	0.00	4.877924	0.00	0.00	
1238.070021	439.856589	1989.704803	20.600549	0.00	0.00	0.00	0.00	21.741097	0.00	0.00	
1196.184375	422.274756	2835.646322	29.359064	0.00	0.00	0.00	0.00	18.173093	0.00	0.00	
251.364005	40.275129	3766.882480	39.000683	0.00	0.00	0.00	0.00	3.483737	0.00	0.00	
1172.302058	104.250755	9151.188447	96.165156	0.00	0.00	0.00	0.00	22.330603	0.00	0.00	
% Change 2018 - 2023											
Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coache s (g/km)	Hybrid Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Biogas Coaches (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
-58.22%	-72.68%	-73.90%	-19.08%	#DIV/0!	-	-	-	-64.21%	-	-	
-58.09%	-72.74%	-68.03%	-13.93%	#DIV/0!	-	-	-	-66.71%	-	-	
-44.41%	-60.14%	-40.18%	-44.71%	#DIV/0!	-	-	-	-54.22%	-	-	
-44.26%	-60.15%	-52.14%	-44.56%	#DIV/0!	-	-	-	-54.64%	-	-	
-44.35%	-59.67%	-14.58%	-44.74%	#DIV/0!	-	-	-	-54.43%	-	-	
-44.51%	-58.94%	-47.73%	-44.68%	#DIV/0!	-	-	-	-54.60%	-	-	
-41.97%	-59.45%	-50.76%	-44.34%	#DIV/0!	-	-	-	-54.24%	-	-	
-57.19%	-72.30%	-67.82%	-21.20%	#DIV/0!	-	-	-	-62.99%	-	-	
-45.58%	-60.24%	-70.50%	-44.08%	#DIV/0!	-	-	-	-55.21%	-	-	
-45.64%	-60.25%	-70.64%	-44.29%	#DIV/0!	-	-	-	-55.35%	-	-	
Absolute Difference 2018 - 2023											
Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Biogas Buses (g/km)	Conventional Coaches (g/km)	Hybrid Coaches (g/km)	Biogas Coaches (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
419.692691	324.886362	2,819.812963	3.261628	0.528037	441.202024	8.629226	0.205348	5.215714	-	-	
800.374315	593.945894	256.387219	0.216903	0.066637	41.840303	0.814242	0.025914	4.507441	-	-	
154.435525	77.332690	2,043.604008	23.543501	0.582865	1,016.050866	20.412189	0.226670	2.644864	-	-	
547.952459	264.577490	1,037.400574	9.180278	0.228591	398.480151	8.005359	0.088896	11.878413	-	-	
530.539066	251.956386	413.303911	13.134694	0.324751	566.106488	11.372927	0.126292	9.892161	-	-	
111.872157	23.739365	1,797.933221	17.424378	0.431877	752.848109	15.124516	0.167952	1.901986	-	-	
491.979749	61.972085	4,644.760115	42.635539	0.871345	1,955.304488	39.457419	0.338856	12.112467	-	-	
482.842461	266.707157	1,157.539948	7.519689	0.258114	313.710679	6.242066	0.100378	7.494614	-	-	
130.492068	74.771921	1,028.489457	6.718292	0.209190	281.369816	5.627083	0.081352	2.406597	-	-	

**Figure G.93 Evaluating Impact – Bus Fleet Improvements: 2018 – 2029**

2029 Bus Fleet dft Low								
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Buses	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	
St Johns	2815.741869	1649.142515	1166.599354	950.1357222	388.299677	-	2.44607361	
London Road 40km	1648.547088	1187.337146	461.2099414	81.65615503	281.072924	-	1.76853618	
Tything	3585.209995	2474.433175	1110.776819	705.0976831	532.907943	-	3.36114587	
Foregate St	1540.512052	798.8437446	741.6683078	629.2753599	152.148561	-	0.959896614	
Butts	3227.489075	906.2301983	2321.258876	2182.754258	172.120254	-	1.086565668	
Bridge St	4297.961228	2952.745119	1345.216109	856.0439998	623.702425	-	3.937326523	
The Cross	6752.04521	2252.024277	4500.020933	4077.907779	374.312921	-	2.364226703	
All Saints Rd	3922.386344	2233.556577	1688.829767	1216.15107	486.373144	-	3.070390311	
Lowesmoor	2332.075709	628.7221013	1703.353608	1617.322981	107.141523	-	0.676366071	
Source Apportionment Study 2022								
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Buses	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	
St Johns	10543.678711	5542.173340	5001.504883	3833.056265	594.707397	4.139253	0.056318	
London Road	6457.609863	3884.703369	2572.906250	378.413279	414.667297	2.902816	0.039987	
The Tything	12,151.10158	8,989.51148	3,161.59010	1659.014247	777.48545	9.27402	2.05077	
Foregate Street	4,899.47427	3,018.04167	1,881.43260	1471.100426	221.72319	2.65274	0.58628	
The Butts	9,017.14375	3,400.78731	5,616.35644	5139.129124	249.29193	3.00339	0.66320	
Bridge St	14,425.67511	10,737.10383	3,688.57128	2010.305351	903.33926	10.88316	2.40317	
The Cross	19,247.43933	8,722.23639	10,525.20294	9247.353603	537.25845	6.51113	1.43683	
All Saints Road	12,522.89922	8,038.95112	4,483.94810	2865.005386	704.46329	8.48716	1.87410	
Lowesmoor	6,538.06337	2,439.89869	4,098.16469	3805.883162	155.18989	1.86968	0.41285	
% Change 2018 - 2029								
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Buses	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	
St Johns	-73.29%	-70.24%	-76.68%	-75.21%	-34.71%	-	4243.32%	
London Road	-74.47%	-69.44%	-82.07%	-78.42%	-32.22%	-	4322.75%	
Tything	-70.49%	-72.47%	-64.87%	-57.50%	-31.46%	-	63.90%	
Foregate St	-68.56%	-73.53%	-60.58%	-57.22%	-31.38%	-	63.73%	
Butts	-64.21%	-73.35%	-58.67%	-57.53%	-30.96%	-	63.84%	
Bridge St	-70.21%	-72.50%	-63.53%	-57.42%	-30.96%	-	63.84%	
The Cross	-46.08%	-71.99%	0.36%	42.34%	-46.87%	-	26.15%	
All Saints Rd	-40.01%	-8.46%	-58.79%	-68.05%	213.41%	-	643.70%	
Lowesmoor	-87.88%	-92.79%	-83.82%	-82.51%	-80.06%	-	-52.93%	
Absolute Difference 2018 - 2029								
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Total Buses	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Petrol Plugin Hybrid Cars (g/km)	
St Johns	7727.936842	3893.030825	3834.905529	2882.920543	206.407721	-	-2.389756	
London Road 40km	4809.062776	2697.366223	2111.696309	296.757124	133.594373	-	-1.728549	
Tything	8565.891585	6515.078306	2050.813279	953.916563	244.577511	-	-1.310378	
Foregate St	3358.962218	2219.197923	1139.764295	841.825066	69.574632	-	-0.373616	
Butts	5789.654671	2494.557108	3295.097563	2956.374867	77.171672	-	-0.423369	
Bridge St	10127.713879	7784.358710	2343.355168	1154.261351	279.636831	-	-1.534155	
The Cross	12495.394123	6470.212116	6025.182007	5169.445824	162.945531	-	-0.927398	
All Saints Rd	8600.512877	5805.394548	2795.118329	1648.854316	218.090147	-	-1.196292	
Lowesmoor	4205.987666	1811.176588	2394.811078	2188.560181	48.048367	-	-0.263511	

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## Worcester City Council

2029 Bus Fleet dft Low							
Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)
874.4902093	-	0	0	0	0	3.7707693	0.151456839
589.3794336	-	0	0	0	0	3.2029204	0.12866549
1286.010157	-	171.1538098	0.0663893	0.331220467	170.7562	4.4714147	0.179581129
372.7879535	-	132.5546317	0.05174435	0.25817004	132.2447173	1.2836232	0.051552365
436.6456885	-	114.3116096	0.044520438	0.222155958	114.0449332	1.592041	0.063938586
1582.248272	-	125.7896196	0.048990728	0.244462602	125.4961663	5.3766219	0.215932636
983.307183	-	503.3663125	0.19073152	0.95185582	502.2237252	3.1658841	0.12714831
1233.862555	-	98.14869761	0.03822554	0.190744563	97.91972751	3.5699447	0.143373957
271.803479	-	99.55416822	0.038772922	0.193475988	99.32191931	1.3146988	0.052800137
Source Apportionment Study 2022							
Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)
3707.015625	8.336833	0.000000	-	-	-	16.469919	
2476.249756	5.591173	0.000000	-	-	-	14.788893	
5,090.53681	16.31364	848.43855	-	-	-	2.97270	
1,475.88773	4.72934	656.57392	-	-	-	0.85264	
1,727.00281	5.54038	564.10768	-	-	-	1.05432	
6,258.00224	20.07625	619.04389	-	-	-	3.61483	
3,879.09080	12.48296	2,460.78590	-	-	-	2.11535	
4,880.26267	15.65633	483.62825	-	-	-	2.39992	
1,075.09849	3.44902	491.04624	-	-	-	0.88371	
% Change 2018 - 2029							
Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)
-76.41%	-	-	-	-	-	-77.11%	-
-76.20%	-	-	-	-	-	-78.34%	-
-74.74%	-	-79.83%	-	-	-	50.42%	-
-74.74%	-	-79.81%	-	-	-	50.55%	-
-74.72%	-	-79.74%	-	-	-	51.00%	-
-74.72%	-	-79.68%	-	-	-	48.74%	-
-79.85%	-	4.08%	-	-	-	31.92%	-
14.77%	-	-80.01%	-	-	-	303.97%	-
-92.99%	-	-95.95%	-	-	-	-37.85%	-
Absolute Difference 2018 - 2029							
Diesel Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Taxis (g/km)	Petrol Taxis (g/km)	Petrol Hybrid Taxis (g/km)	Diesel Taxis (g/km)	Petrol LGVs (g/km)	Petrol Plugin Hybrid LGVs (g/km)
2832.525416	-	0.000000	-	-	-	12.699150	-0.151457
1886.870322	-	0.000000	-	-	-	11.585972	-0.128665
3804.526655	-	677.284737	-	-	-	-1.498717	-0.179581
1103.099775	-	524.019292	-	-	-	-0.430982	-0.051552
1290.357121	-	449.796074	-	-	-	-0.537721	-0.063939
4675.753966	-	493.254268	-	-	-	-1.761790	-0.215933
2895.783619	-	1957.419592	-	-	-	-1.050537	-0.127148
3646.400117	-	385.479556	-	-	-	-1.170028	-0.143374
803.295016	-	391.492074	-	-	-	-0.430992	-0.052800

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2029 Bus Fleet dft Low								
Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
369.6628299	138.9689298	77.49470196	950.1357222	-	1.767645221	8.4690189	0.084835	
303.7545852	244.9479416	134.6058448	81.65615503	-	1.381014371	6.5797179	0.069349	
461.9942099	289.2654958	116.4136403	705.0976831	-	3.67544144	10.572981	0.106491	
134.9104175	79.50687914	32.88606884	629.2753599	-	1.167926629	2.9480643	0.031117	
175.8461103	103.6544068	34.85021159	2182.754258	-	1.36344985	3.1599526	0.040588	
593.8654032	370.0068698	119.1652396	856.0439998	-	6.021903503	11.450542	0.137073	
372.446218	392.4845522	29.62860193	4077.907779	-	6.298284996	6.5501654	0.085933	
394.3120151	356.8860588	115.7926385	1216.15107	-	5.056126526	8.9293158	0.091013	
145.2127629	74.78862262	11.24200374	1617.322981	-	0.965776977	1.9670093	0.033517	
Source Apportionment Study 2022								
Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coaches (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
1203.325439	720.915466	446.980499	3815.965820	17.090445	8.122445	-	-	
963.706360	1377.917847	816.505554	376.856720	1.556559	6.757076	-	-	
2,228.86474	1,059.41958	442.77205	1,641.95432	17.05993	13.57481	-	-	
650.68771	285.92426	124.09741	1,455.93003	15.17040	4.34811	-	-	
845.24567	347.76633	128.59356	5,086.46604	52.66308	4.87792	-	-	
2,897.99994	1,238.07002	439.85659	1,989.70480	20.60055	21.74110	-	-	
1,800.22437	1,172.30206	104.25076	9,151.18845	96.16516	22.33060	-	-	
1,924.00631	1,196.18437	422.27476	2,835.64632	29.35906	18.17309	-	-	
708.46507	251.36400	40.27513	3,766.88248	39.00068	3.48374	-	-	
% Change 2018 - 2029								
Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
-69.28%	-80.72%	-82.66%	-75.10%	-	-78.24%	-	-	
-68.48%	-82.22%	-83.51%	-78.33%	-	-79.56%	-	-	
-79.27%	-72.70%	-73.71%	-57.06%	-	-72.92%	-	-	
-79.27%	-72.19%	-73.50%	-56.78%	-	-73.14%	-	-	
-79.20%	-70.19%	-72.90%	-57.09%	-	-72.05%	-	-	
-79.51%	-70.11%	-72.91%	-56.98%	-	-72.30%	-	-	
-80.64%	-67.19%	-92.98%	43.81%	-	-65.34%	-	-	
-44.34%	41.98%	187.50%	-67.71%	-	45.14%	-	-	
-91.93%	-93.62%	-89.22%	-82.33%	-	-95.68%	-	-	
Absolute Difference 2018 - 2029								
Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Conventional Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	LPG Cars (g/km)	LPG LGVs (g/km)	
833.662610	581.946536	369.485797	2865.830098	-	6.354800	-	-	
659.951775	1132.969905	681.899709	295.200565	-	5.376062	-	-	
1766.870529	770.154085	326.358412	936.856632	-	9.899364	-	-	
515.777293	206.417382	91.211344	826.654668	-	3.180183	-	-	
669.399558	244.111925	93.743347	2903.711783	-	3.514474	-	-	
2304.134542	868.063151	320.691350	1133.660803	-	15.719194	-	-	
1427.778150	779.817506	74.622153	5073.280668	-	16.032318	-	-	
1529.694294	839.298316	306.482118	1619.495252	-	13.116967	-	-	
563.252306	176.575382	29.033126	2149.559499	-	2.517960	-	-	

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## Summary of Impact – Bus Fleet Improvements

**Table G.3 Summary of Improvements 2018 - 2023 and Forecast 2018 - 2029**

Bus Fleet	SA Baseline 2018 (g/km)	2023 (g/km)	Change 2018 - 2023 (g/km)	% Change 2018 - 2023	% Change of Total Road NOx Emissions	2029 (g/km)	Change 2018 - 2029 (g/km)	% Change 2018 - 2029	% Change of Total Road NOx Emissions
St Johns	3833.06	1460.55	-2372.51	-61.90%	-22.50%	950.14	-2882.92	-75.21%	-27.34%
London Road	378.41	164.56	-213.86	-56.51%	-3.31%	81.66	-296.76	-78.42%	-4.60%
The Tything	1659.01	814.27	-844.75	-50.92%	-6.95%	705.10	-953.92	-57.50%	-7.85%
Foregate Street	1471.10	723.18	-747.92	-50.84%	-15.27%	629.28	-841.83	-57.22%	-17.18%
The Butts	5139.13	4109.25	-1029.87	-20.04%	-11.42%	2182.75	-2956.37	-57.53%	-32.79%
Bridge St	2010.31	1370.53	-639.78	-31.82%	-4.43%	856.04	-1154.26	-57.42%	-8.00%
The Cross	9247.35	6555.93	-2691.42	-29.10%	-13.98%	4077.91	-5169.45	-55.90%	-26.86%
All Saints Road	2865.01	3016.50	151.49	5.29%	1.21%	1216.15	-1648.85	-57.55%	-13.17%
Lowesmoor	3805.88	2759.10	-1046.79	-27.50%	-16.01%	1617.32	-2188.56	-57.50%	-33.47%

**Table G.4 Range of Change in Total Road NOx Emissions from Bus Fleet Improvements**

Source Name	Range Min. % Δ (2018 - 2023)	Range Max. % Δ (2018 - 2029)	Average	Impact Banding	Compliance Achieved
St Johns	-22.50%	-27.34%	-24.92%	Medium	N
London Road	-3.31%	-4.60%	-3.95%	Small	N
The Tything	-6.95%	-7.85%	-7.40%	Small	N
Foregate Street	-15.27%	-17.18%	-16.22%	Medium	N
The Butts	-11.42%	-32.79%	-22.10%	Medium	N
Bridge St	-4.43%	-8.00%	-6.22%	Small	N
The Cross	-13.98%	-26.86%	-20.42%	Medium	N
All Saints Road	1.21%	-13.17%	-5.98%	Small	N
Lowesmoor	-16.01%	-33.47%	-24.74%	Medium	N
Average	<b>-10.30%</b>	<b>-19.03%</b>	<b>-14.66%</b>	Small	N

## HGV Parking Removal

**Table G.5 Vehicle Data for EFT**

Removal of Croft Rd HGV Parking for Eft (Option 2 fleet)									
Sources	St Johns	London Road	The Tything	Foregate St	The Butts	Bridge St	All Saints Rd	Lowesmoor	The Cross
AADT (less 16 HGV/ <b>8 one way</b> )not in scope	16405	13174	21248	6473	7256	22699	17657	4886	15620
<b>Vehicle split</b>									
Cars	13412	10420	17265	4814	5160	18698	14581	3212	10696
Taxis	0	0	817	614	488	537	419	425	1957
LGVs	1888	1642	2231	632	759	2601	1727	636	1486
HGVs - Rigid	242	600	326	80	79	282	272	57	224
Arctic	154	367	150	38	31	98	95	10	20
Buses	626	79	306	248	691	271	385	512	1033
Motorcycles	83	66	153	47	48	212	178	34	204
<b>Vehicle % for Eft</b>									
Cars	81.76	79.10	81.25	74.37	71.11	82.37	82.58	65.74	68.48
Taxis	0.00	0.00	3.85	9.49	6.73	2.37	2.37	8.70	12.53
LGVs	11.51	12.46	10.50	9.76	10.46	11.46	9.78	13.02	9.51
HGVs - Rigid	1.48	4.55	1.53	1.24	1.09	1.24	1.54	1.17	1.43
Arctic	0.94	2.79	0.71	0.59	0.43	0.43	0.54	0.20	0.13
Buses	3.82	0.60	1.44	3.83	9.52	1.19	2.18	10.48	6.61
Motorcycles	0.51	0.50	0.72	0.73	0.66	0.93	1.01	0.70	1.31

Figure G.94 EFT Input – HGV Parking Removal

<b>Select Pollutants</b> <input checked="" type="checkbox"/> NOx <input type="checkbox"/> CO <sub>2</sub>  <input type="checkbox"/> PM10 <input type="checkbox"/> PM2.5		<b>Select Outputs</b> <input type="checkbox"/> Air Quality Modelling (g/km/s) <input checked="" type="checkbox"/> Emissions Rates (g/km) <input checked="" type="checkbox"/> Annual Link Emissions		<b>Additional Outputs</b> <input checked="" type="checkbox"/> Breakdown by Vehicle <input checked="" type="checkbox"/> Source Apportionment <input type="checkbox"/> PM by Source		<b>Advanced Options</b> <input checked="" type="checkbox"/> Euro Compositions <input checked="" type="checkbox"/> Primary NO <sub>2</sub> Fraction <input type="checkbox"/> Simple Entry Euro Compositions <input type="checkbox"/> Output % Contributions from Euro Classes <input type="checkbox"/> Fleet Projection Tool		<b>Click the button to:</b>  <b>Run EFT</b>  <b>Clear Input Data</b>							
<b>Please Select from the Following Options:</b> <table border="1"> <tr> <td>Area</td> <td>England (not London)</td> </tr> <tr> <td>Year</td> <td>2018</td> </tr> <tr> <td>Traffic Format</td> <td>Detailed Option 2</td> </tr> </table> <p>Select 'Basic Split' or 'Detailed Option 1 to 3' or 'Alternative Technologies' above</p>										Area	England (not London)	Year	2018	Traffic Format	Detailed Option 2
Area	England (not London)														
Year	2018														
Traffic Format	Detailed Option 2														
<b>Export Outputs</b> <input type="checkbox"/> Save Output to New Workbook File Name: <input type="text"/>															
SourceID	Road Type	Traffic Flow	% Car	% Taxi (black cab)	% LGV	% Rigid HGV	% Artic HGV	% Bus and Coach	% Motorcycle						
London Road	Urban (not London)	13174	79.09518749	0.00	12.46394413	4.554425383	2.785790193	0.599666009	0.500986792						
Bridge St	Urban (not London)	22699	82.37367285	2.365742984	11.45865457	1.242345478	0.431737081	1.193885193	0.933961849						
All Saints Rd	Urban (not London)	17657	82.58	2.37	9.78	1.54	0.54	2.18	1.01						
Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load										
40	24	1.77													
13	24	0.084													
13	24	0.101													

**Figure G.95 EFT Output - HGV Parking Removal**

Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Diesel Cars (g/km)	Taxis (g/km)	Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)
London Road	5,865.57062	4,012.79576	1,852.77486	377.12062	2,245.95340	-	1.91800	1,369.76988	1,042.09285	513.55722
Bridge St	14,996.73899	10,737.28797	4,259.45102	903.39029	6,258.35576	620.33168	3.61313	2,896.63883	1,239.97483	403.90531
All Saints Rd	13,341.74618	8,038.02831	5,303.71787	704.48550	4,880.41650	483.40923	2.39883	1,923.13498	1,195.64266	392.97431

Buses/ Coaches (g/km)	Motorcycles (g/km)	Full Hybrid Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Full Hybrid Diesel Cars (g/km)	Battery EV Cars (g/km)	FCEV Cars (g/km)	E85 Bioethanol Cars (g/km)	LPG Cars (g/km)	Full Hybrid Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Battery EV LGVs (g/km)
294.95029	5.26269	4.49950	1.01372	7.25795	-	-	-	-	-	-	-
2,594.57005	21.59383	10.88377	2.40331	20.07738	-	-	-	-	-	-	-
3,685.27177	18.16486	8.48743	1.87416	15.65683	-	-	-	-	-	-	-

FCEV LGVs (g/km)	E85 Bioethanol LGVs (g/km)	LPG LGVs (g/km)	B100 Rigid HGVs (g/km)	B100 Artic HGVs (g/km)	B100 Buses (g/km)	CNG Buses (g/km)	Biomethane Buses (g/km)	Biogas Buses (g/km)	Hybrid Buses (g/km)	FCEV Buses (g/km)	B100 Coaches (g/km)
-	-	-	-	-	-	0.09920	-	-	2.07530	-	-
-	-	-	-	-	-	0.34030	-	-	20.66053	-	-
-	-	-	-	-	-	0.48336	-	-	29.34577	-	-

**Figure G.96 Evaluating Impact - HGV Parking Removal**

2018 with HGV Parking Removed							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)
London Road	5,865.570619	4,012.795762	1,852.774857	377.120615	4.499498	1.013723	2,245.953402
Bridge St	14,996.738995	10,737.287974	4,259.451021	903.390286	10.883771	2.403307	6,258.355755
All Saints Rd	13,341.746178	8,038.028312	5,303.717865	704.485497	8.487426	1.874157	4,880.416503
<b>Baseline 2018</b>							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)
St Johns 2018	8,828.881306	5,606.830932	3,222.050374	538.657086	-	-	3,347.317179
London Road 2018	5,814.943960	4,012.795762	1,802.148198	377.120615	-	-	2,245.953402
The Tything	12,151.101580	8,989.511482	3,161.590098	777.485454	9.274020	2.050767	5,090.536813
Foregate Street	4,899.474270	3,018.041667	1,881.432603	221.723194	2.652737	0.586281	1,475.887728
The Butts	9,017.143746	3,400.787306	5,616.356440	249.291926	3.003393	0.663196	1,727.002810
Bridge St	14,425.675107	10,737.103830	3,688.571278	903.339256	10.883156	2.403172	6,258.002238
The Cross	19,247.439333	8,722.236393	#####	537.258451	6.511133	1.436828	3,879.090802
All Saints Road	12,522.899221	8,038.951125	4,483.948096	704.463291	8.487159	1.874098	4,880.262672
Lowesmoor	6,538.063374	2,439.898689	4,098.164685	155.189889	1.869680	0.412855	1,075.098495
<b>% Change with HGV Parking Removed</b>							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)
St Johns 2018	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
London Road 2018	0.87%	0.00%	2.81%	0.00%	-	-	0.00%
The Tything	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Foregate Street	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
The Butts	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bridge St	3.96%	0.00%	15.48%	0.01%	0.01%	0.01%	0.01%
The Cross	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Saints Road	6.54%	-0.01%	18.28%	0.00%	0.00%	0.00%	0.00%
Lowesmoor	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
<b>Absolute Difference</b>							
Source Name	All Vehicles (g/km)	All LDVs (g/km)	All HDVs (g/km)	Petrol Cars (g/km)	Full Hybrid Petrol Cars (g/km)	Plug-In Hybrid Petrol Cars (g/km)	Diesel Cars (g/km)
St Johns 2018	-	-	-	-	-	-	-
London Road 2018	50.63	0.00	50.63	0.00	4.50	1.01	0.00
The Tything	-	-	-	-	-	-	-
Foregate Street	-	-	-	-	-	-	-
The Butts	-	-	-	-	-	-	-
Bridge St	571.06	0.18	570.88	0.05	0.00	0.00	0.35
The Cross	-	-	-	-	-	-	-
All Saints Road	818.85	-0.92	819.77	0.02	0.00	0.00	0.15
Lowesmoor	-	-	-	-	-	-	-

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2018 with HGV Parking Removed							
Full Hybrid Diesel Cars (g/km)	Battery EV Cars (g/km)	Taxis (g/km)	Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coaches (g/km)
7.257954	-	-	1.918002	1,369.769875	1,042.092847	513.557217	294.950292
20.077382	-	620.331682	3.613134	2,896.638825	1,239.974833	403.905308	2,594.570051
15.656826	-	483.409231	2.398830	1,923.134979	1,195.642655	392.974311	3,685.271771
<b>Baseline 2018</b>							
Full Hybrid Diesel Cars (g/km)	Battery EV Cars (g/km)	Taxis (g/km)	Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coaches (g/km)
-	-	-	2.333652	1,693.315941	556.693239	300.069944	2,341.141511
-	-	-	1.918002	1,369.769875	1,042.092847	535.946632	221.934217
16.313639	-	848.438546	2.972697	2,228.864739	1,059.419581	442.772052	1,641.954315
4.729342	-	656.573924	0.852641	650.687711	285.924261	124.097412	1,455.930028
5.540384	-	564.107683	1.054320	845.245668	347.766332	128.593558	5,086.466041
20.076248	-	619.043887	3.614831	2,897.999945	1,238.070021	439.856589	1,989.704803
12.482956	-	2,460.785905	2.115347	1,800.224368	1,172.302058	104.250755	9,151.188447
15.656332	-	483.628254	2.399917	1,924.006309	1,196.184375	422.274756	2,835.646322
3.449015	-	491.046242	0.883707	708.465069	251.364005	40.275129	3,766.882480
% Change with HGV Parking Removed							
Full Hybrid Diesel Cars (g/km)	Battery EV Cars (g/km)	Taxis (g/km)	Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coaches (g/km)
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
-	-	-	0.00%	0.00%	0.00%	-4.18%	32.90%
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.01%	-	0.21%	-0.05%	-0.05%	0.15%	-8.17%	30.40%
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.00%	-	-0.05%	-0.05%	-0.05%	-0.05%	-6.94%	29.96%
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
<b>Absolute Difference</b>							
Full Hybrid Diesel Cars (g/km)	Battery EV Cars (g/km)	Taxis (g/km)	Petrol LGVs (g/km)	Diesel LGVs (g/km)	Rigid HGVs (g/km)	Artic HGVs (g/km)	Buses/Coaches (g/km)
-	-	-	-	-	-	-	-
7.26	0.00	0.00	0.00	0.00	0.00	-22.39	73.02
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0.00	0.00	1.29	0.00	-1.36	1.90	-35.95	604.87
-	-	-	-	-	-	-	-
0.00	0.00	-0.22	0.00	-0.87	-0.54	-29.30	849.63
-	-	-	-	-	-	-	-

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2018 with HGV Parking Removed									
CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	FCEV Cars (g/km)	E85 Bioethanol Cars (g/km)	LPG Cars (g/km)	Full Hybrid Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Battery EV LGVs (g/km)	
0.099203	2.075297	5.262693	-	-	-	-	-	-	-
0.340304	20.660525	21.593831	-	-	-	-	-	-	-
0.483361	29.345768	18.164863	-	-	-	-	-	-	-
<b>Baseline 2018</b>									
CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	FCEV Cars (g/km)	E85 Bioethanol Cars (g/km)	LPG Cars (g/km)	Full Hybrid Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Battery EV LGVs (g/km)	
-	-	6.598401	-	-	-	-	-	-	-
-	-	5.262693	-	-	-	-	-	-	-
0.384219	17.059931	13.574806	-	-	-	-	-	-	-
0.310504	15.170398	4.348110	-	-	-	-	-	-	-
0.867425	52.663084	4.877924	-	-	-	-	-	-	-
0.339316	20.600549	21.741097	-	-	-	-	-	-	-
1.296523	96.165156	22.330603	-	-	-	-	-	-	-
0.483580	29.359064	18.173093	-	-	-	-	-	-	-
0.642389	39.000683	3.483737	-	-	-	-	-	-	-
<b>% Change with HGV Parking Removed</b>									
CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	FCEV Cars (g/km)	E85 Bioethanol Cars (g/km)	LPG Cars (g/km)	Full Hybrid Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Battery EV LGVs (g/km)	
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
-	-	0.00%	-	-	-	-	-	-	-
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.29%	0.29%	-0.68%	-	-	-	-	-	-	-
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
-0.05%	-0.05%	-0.05%	-	-	-	-	-	-	-
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
<b>Absolute Difference</b>									
CNG Buses (g/km)	Hybrid Buses (g/km)	Motorcycles (g/km)	FCEV Cars (g/km)	E85 Bioethanol Cars (g/km)	LPG Cars (g/km)	Full Hybrid Petrol LGVs (g/km)	Plug-In Hybrid Petrol LGVs (g/km)	Battery EV LGVs (g/km)	
-	-	-	-	-	-	-	-	-	-
0.10	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
0.00	0.06	-0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	-	-	-	-	-	-	-	-	-
0.00	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	-	-	-	-	-	-	-	-	-

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2018 with HGV Parking Removed										
FCEV LGVs (g/km)	E85 Bioethanol LGVs (g/km)	LPG LGVs (g/km)	B100 Rigid HGVs (g/km)	B100 Artic HGVs (g/km)	B100 Buses (g/km)	Biomethane Buses (g/km)	Biogas Buses (g/km)	FCEV Buses (g/km)	B100 Coaches (g/km)	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Baseline 2018										
FCEV LGVs (g/km)	E85 Bioethanol LGVs (g/km)	LPG LGVs (g/km)	B100 Rigid HGVs (g/km)	B100 Artic HGVs (g/km)	B100 Buses (g/km)	Biomethane Buses (g/km)	Biogas Buses (g/km)	FCEV Buses (g/km)	B100 Coaches (g/km)	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
% Change with HGV Parking Removed										
FCEV LGVs (g/km)	E85 Bioethanol LGVs (g/km)	LPG LGVs (g/km)	B100 Rigid HGVs (g/km)	B100 Artic HGVs (g/km)	B100 Buses (g/km)	Biomethane Buses (g/km)	Biogas Buses (g/km)	FCEV Buses (g/km)	B100 Coaches (g/km)	
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
-	-	-	-	-	-	-	-	-	-	
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
-	-	-	-	-	-	-	-	-	-	
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
-	-	-	-	-	-	-	-	-	-	
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Absolute Difference										
FCEV LGVs (g/km)	E85 Bioethanol LGVs (g/km)	LPG LGVs (g/km)	B100 Rigid HGVs (g/km)	B100 Artic HGVs (g/km)	B100 Buses (g/km)	Biomethane Buses (g/km)	Biogas Buses (g/km)	FCEV Buses (g/km)	B100 Coaches (g/km)	
-	-	-	-	-	-	-	-	-	-	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-	-	-	-	-	-	-	-	-	-	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-	-	-	-	-	-	-	-	-	-	

## Summary of Impact – HGV Parking Removal

Table G.6 Range of impact from removal of city centre HGV parking

	HGV Fleet Baseline 2018	With Parking removed	Absolute Change	% Change	% of Total Road NOx	Impact Banding	
						Emissions	
St Johns 2018	1167.895966	0.00	0.00	0.00%	0.00%	Nil	
London Road 2018	1578.039480	1555.650064	-22.39	-1.42%	-0.39%	Negligible	
The Tything	1502.191633	0.00	0.00	0.00%	0.00%	Nil	
Foregate Street	410.021674	0.00	0.00	0.00%	0.00%	Nil	
The Butts	476.359890	0.00	0.00	0.00%	0.00%	Nil	
Bridge St	1677.926610	1643.880141	-34.05	-2.03%	-0.24%	Negligible	
The Cross	1276.552814	0.00	0.00	0.00%	0.00%	Nil	
All Saints Road	1618.459131	1588.616966	-29.84	-1.84%	-0.24%	Negligible	
Lowesmoor	291.639134	0.00	0.00	0.00%	0.00%	Nil	

Table G.7 Summary of impact from removal of city centre HGV parking

Total HGV Parking Removal $\Delta$	Reduction NOx (g/km)	% $\Delta$ Reduction NOx (g/km)	% $\Delta$ Road Emissions NOx	Banding	Compliance Achieved
Maximum $\Delta$	-34.05	-2.03%	-0.39%		
Minimum $\Delta$	-0.00	-0.00%	-0.00%		
Overall Average	-9.59	-0.59%	-0.10%	Negligible	N