



Appendix 14.1

CLIMATE CHANGE AND GREENHOUSE GASES

Authorship

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Revision History

Revision	Revision Date	Authorised By	Position	Comment
1 st draft	20/2/24	G Earl	Director	1 st Draft

Appendix 14.1: Greenhouse Gas Assessment Methodology and Results

1.1 Introduction

- 1.1.1 This appendix sets out the methodology for the calculating specific elements of the Greenhouse Gas (GHG) footprint for the Development. The baseline GHG emission are assumed to be zero.
- 1.1.2 It covers the following GHG emissions sources:
- Operation: energy consumption; and
 - Operation: transport.
- 1.1.3 The GHG footprint has been calculated for the lifetime of the Development, which includes a 18 month construction period and then a 60-year operation period from 2026 onwards.
- 1.1.4 Results are presented separately for the Eastern Development, the Western Development and considered together for the Development as a whole.

1.2 Operation: Energy Consumption

- 1.2.1 To estimate GHG emissions over the lifetime of the Development the opening year GHG emissions have been factored to account for decarbonisation of the grid set out within the government's Green Book¹.
- 1.2.2 The opening and lifetime GHG emissions from energy consumption are presented in Table 1.1 below.

Table 1.1: Operational energy GHG emissions over lifetime of the Development

Year	GHG Emissions (TCO ₂)		
	Eastern Development	Western Development	Combined Development
2026	1,639	2,838	4,476
2027	1,221	2,115	3,336
2028	1,059	1,833	2,891
2029	894	1,548	2,443
2030	825	1,429	2,254
2031	693	1,200	1,893
2032	546	945	1,491
2033	433	750	1,184
2034	349	603	952
2035	336	582	918
2036	328	567	895
2037	306	530	836
2038	299	517	816
2039	281	486	767
2040	268	463	731
2041	255	442	697
2042	242	419	662
2043	152	264	416
2044	142	245	387
2045	132	228	360
2046	129	223	352
2047	89	154	243
2048	87	150	236
2049	55	95	150
2050	42	72	114
2051	42	72	114
2052	42	72	114
2053	42	72	114
2054	42	72	114
2055	42	72	114

Year	GHG Emissions (TCO ₂)		
	Eastern Development	Western Development	Combined Development
2056	42	72	114
2057	42	72	114
2058	42	72	114
2059	42	72	114
2060	42	72	114
2061	42	72	114
2062	42	72	114
2063	42	72	114
2064	42	72	114
2065	42	72	114
2066	42	72	114
2067	42	72	114
2068	42	72	114
2069	42	72	114
2070	42	72	114
2071	42	72	114
2072	42	72	114
2073	42	72	114
2074	42	72	114
2075	42	72	114
2076	42	72	114
2077	42	72	114
2078	42	72	114
2079	42	72	114
2080	42	72	114
2081	42	72	114
2082	42	72	114
2083	42	72	114
2084	42	72	114
2085	42	72	114
Total Lifetime (60 years)	12,261	21,229	33,490

1.3 Transport emissions calculation

1.3.1 GHG emissions from operational transport were calculated using;

- Government published GHG emission factors² adjusted for future years based on government projections on improved fuel efficiency³ and government strategies to decarbonise transport through transition to electrically powered and zero emission vehicles⁴ (see Table 1.2), and
- Transport distance travelled data by mode provided by the project transport consultant (see Table 1.3).

Table 1.2: Transport Emissions Factors by mode and year

Year	Kg CO ₂ e/km or passenger						
	Bus ^b	Motorcycle ^a	Car ^a	Passenger in a car ^d	Bicycle	Pedestrian	HGVs ^b
2026	0.115	0.103	0.146	0.073	0.000	0.000	0.803
2027	0.111	0.098	0.139	0.070	0.000	0.000	0.782
2028	0.107	0.093	0.132	0.066	0.000	0.000	0.761
2029	0.103	0.088	0.125	0.063	0.000	0.000	0.741
2030	0.099	0.083	0.118	0.059	0.000	0.000	0.720
2031	0.097	0.078	0.111	0.056	0.000	0.000	0.686
2032	0.094	0.073	0.104	0.052	0.000	0.000	0.652
2033	0.092	0.069	0.097	0.049	0.000	0.000	0.617
2034	0.089	0.065	0.092	0.046	0.000	0.000	0.583
2035	0.087	0.061	0.087	0.043	0.000	0.000	0.549
2036	0.082	0.058	0.083	0.041	0.000	0.000	0.521
2037	0.077	0.055	0.079	0.039	0.000	0.000	0.494
2038	0.071	0.053	0.075	0.038	0.000	0.000	0.466
2039	0.066	0.051	0.072	0.036	0.000	0.000	0.439
2040	0.061	0.049	0.070	0.035	0.000	0.000	0.412
2041	0.058	0.047	0.067	0.034	0.000	0.000	0.384
2042	0.055	0.046	0.065	0.033	0.000	0.000	0.357
2043	0.052	0.044	0.063	0.031	0.000	0.000	0.329
2044	0.049	0.043	0.061	0.031	0.000	0.000	0.302
2045	0.045	0.042	0.060	0.030	0.000	0.000	0.274
2046	0.043	0.042	0.059	0.030	0.000	0.000	0.269
2047	0.040	0.041	0.058	0.029	0.000	0.000	0.264
2048	0.038	0.040	0.057	0.029	0.000	0.000	0.259

Year	Kg CO ₂ e/km or passenger						
	Bus ^b	Motorcycle ^a	Car ^a	Passenger in a car ^d	Bicycle	Pedestrian	HGVs ^b
2049	0.035	0.040	0.056	0.028	0.000	0.000	0.254
2050	0.033	0.039	0.056	0.028	0.000	0.000	0.249
2051 to 2086c	0.033	0.039	0.056	0.028	0.000	0.000	0.249

Notes

- ^a Future emission factors are adjusted to future years using fuel efficiency and electrical energy data from the DfT's WebTAG datasets.
- ^b Future years emission factors adjusted consistent with DfT Transport Decarbonisation plan. To ensure worse case assessment government projected decarbonisation has been factored down by 25%.
- ^c Emissions factors after 2050 assumed to stay constant.
- ^d Equal to half car emissions

Table 1.3: Average travel distance by mode

Mode	Western	Eastern	Combined
	Annual Distance (million km/annum)		
Bus	1.32	0.74	2.06
Motorcycle	0.54	0.3	0.84
Car	19.44	10.8	30.24
Passenger in a car	3.07	1.71	4.78
Bicycle	0.85	0.47	1.32
Pedestrian	0.04	0.02	0.06
HGVs	54	30	84
Total	79.26	44.04	123.3

1.3.2 The transport GHG emissions are presented for the Eastern, Western and Combined Development in Table 1.4 a-c below. These are calculated by combining the transport emission factor data in Table 1.2 and transport distance data in Table 1.3.

Table 1.4 a: Western Development GHG Emissions for Transport

year	Emissions (Tonnes CO2e)							Total
	Bus	Motor-cycle	Car	Passenger in a car	Bicycle	Pedestrian	HGVs	
2026	151.2	55.7	2844.4	224.6	0.0	0.0	43338.0	46614
2027	146.2	52.9	2705.1	0.0	0.0	0.0	42226.8	45131
2028	141.2	50.3	2571.8	0.0	0.0	0.0	41115.5	43879
2029	136.2	47.6	2431.2	0.0	0.0	0.0	40004.3	42619
2030	131.1	45.0	2297.9	0.0	0.0	0.0	38893.1	41367
2031	127.8	42.2	2158.0	0.0	0.0	0.0	37041.0	39369
2032	124.4	39.5	2020.4	0.0	0.0	0.0	35189.0	37373
2033	121.1	37.1	1894.7	0.0	0.0	0.0	33336.9	35390
2034	117.7	34.8	1780.4	0.0	0.0	0.0	31484.9	33418
2035	114.4	33.0	1687.4	0.0	0.0	0.0	29632.8	31468
2036	107.7	31.4	1604.0	0.0	0.0	0.0	28151.2	29894
2037	101.0	29.9	1527.8	0.0	0.0	0.0	26669.5	28328
2038	94.3	28.6	1462.6	0.0	0.0	0.0	25187.9	26773
2039	87.6	27.5	1404.8	0.0	0.0	0.0	23706.3	25226
2040	80.9	26.5	1355.1	0.0	0.0	0.0	22224.6	23687
2041	76.7	25.6	1308.9	0.0	0.0	0.0	20743.0	22154
2042	72.5	24.9	1272.0	0.0	0.0	0.0	19261.3	20631
2043	68.4	23.9	1222.3	0.0	0.0	0.0	17779.7	19094
2044	64.2	23.4	1194.7	0.0	0.0	0.0	16298.1	17580
2045	60.0	22.9	1171.6	0.0	0.0	0.0	14816.4	16071
2046	56.6	22.6	1153.1	0.0	0.0	0.0	14538.6	15771
2047	53.3	22.1	1128.7	0.0	0.0	0.0	14260.8	15465
2048	49.9	21.8	1115.0	0.0	0.0	0.0	13983.0	15170
2049	46.6	21.5	1096.0	0.0	0.0	0.0	13705.2	14869
2050	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2051	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2052	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2053	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574

year	Emissions (Tonnes CO2e)							Total
	Bus	Motor-cycle	Car	Passenger in a car	Bicycle	Pedestrian	HGVs	
2054	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2055	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2056	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2057	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2058	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2059	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2060	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2061	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2062	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2063	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2064	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2065	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2066	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2067	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2068	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2069	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2070	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2071	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2072	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2073	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2074	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2075	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2076	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2077	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2078	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2079	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2080	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2081	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2082	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2083	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2084	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574
2085	43.2	21.2	1082.6	0.0	0.0	0.0	13427.4	14574

year	Emissions (Tonnes CO2e)							Total
	Bus	Motor-cycle	Car	Passenger in a car	Bicycle	Pedestrian	HGVs	
total	3888	1554	79380	225	0	0	1126974	1212019

Table 1.4 b: Eastern Development GHG Emissions for Transport

year	Emissions (Tonnes CO2e)							Total
	Bus	Motor-cycle	Car	Passenger in a car	Bicycle	Pedestrian	HGVs	
2026	84.8	30.9	1580.2	125.1	0.0	0.0	24076.7	25897.7
2027	82.0	29.4	1502.8	119.0	0.0	0.0	23459.3	25192.5
2028	79.1	28.0	1428.8	113.1	0.0	0.0	22842.0	24491.0
2029	76.3	26.4	1350.7	106.9	0.0	0.0	22224.6	23785.0
2030	73.5	25.0	1276.6	101.1	0.0	0.0	21607.3	23083.5
2031	71.6	23.5	1198.9	94.9	0.0	0.0	20578.4	21967.3
2032	69.8	22.0	1122.4	88.9	0.0	0.0	19549.4	20852.4
2033	67.9	20.6	1052.6	83.3	0.0	0.0	18520.5	19745.0
2034	66.0	19.4	989.1	78.3	0.0	0.0	17491.6	18644.4
2035	64.1	18.3	937.4	74.2	0.0	0.0	16462.7	17556.8
2036	60.4	17.4	891.1	70.5	0.0	0.0	15639.5	16679.0
2037	56.6	16.6	848.8	67.2	0.0	0.0	14816.4	15805.6
2038	52.9	15.9	812.5	64.3	0.0	0.0	13993.3	14938.9
2039	49.1	15.3	780.4	61.8	0.0	0.0	13170.1	14076.7
2040	45.4	14.7	752.8	59.6	0.0	0.0	12347.0	13219.5
2041	43.0	14.2	727.2	57.6	0.0	0.0	11523.9	12365.9
2042	40.7	13.8	706.7	55.9	0.0	0.0	10700.7	11517.9
2043	38.3	13.3	679.0	53.8	0.0	0.0	9877.6	10662.0
2044	36.0	13.0	663.7	52.5	0.0	0.0	9054.5	9819.7
2045	33.6	12.7	650.9	51.5	0.0	0.0	8231.3	8980.1
2046	31.8	12.5	640.6	50.7	0.0	0.0	8077.0	8812.6
2047	29.9	12.3	627.0	49.6	0.0	0.0	7922.7	8641.5
2048	28.0	12.1	619.5	49.0	0.0	0.0	7768.3	8476.9
2049	26.1	11.9	608.9	48.2	0.0	0.0	7614.0	8309.1
2050	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2051	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2052	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2053	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2054	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2055	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2056	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7

year	Emissions (Tonnes CO2e)							Total
	Bus	Motor-cycle	Car	Passenger in a car	Bicycle	Pedestrian	HGVs	
2057	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2058	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2059	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2060	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2061	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2062	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2063	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2064	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2065	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2066	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2067	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2068	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2069	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2070	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2071	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2072	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2073	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2074	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2075	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2076	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2077	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2078	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2079	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2080	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2081	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2082	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2083	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2084	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
2085	24.2	11.8	601.4	47.6	0.0	0.0	7459.7	8144.7
total	2180	863	44100	3491	0	0	626096	676730

Table 1.4 c: Combined Development GHG Emissions for Transport

year	Emissions (Tonnes CO2e)							Total
	Bus	Motor-cycle	Car	Passenger in a car	Bicycle	Pedestrian	HGVs	
2026	236.0	86.6	4424.6	349.7	0.0	0.0	67414.7	72511.6
2027	228.2	82.4	4207.9	119.0	0.0	0.0	65686.1	70323.5
2028	220.3	78.3	4000.6	113.1	0.0	0.0	63957.5	68369.9
2029	212.5	74.0	3781.8	106.9	0.0	0.0	62228.9	66404.2
2030	204.6	70.0	3574.6	101.1	0.0	0.0	60500.4	64450.6
2031	199.4	65.7	3357.0	94.9	0.0	0.0	57619.4	61336.4
2032	194.2	61.5	3142.8	88.9	0.0	0.0	54738.4	58225.8
2033	189.0	57.7	2947.3	83.3	0.0	0.0	51857.4	55134.8
2034	183.7	54.2	2769.5	78.3	0.0	0.0	48976.5	52062.3
2035	178.5	51.4	2624.8	74.2	0.0	0.0	46095.5	49024.5
2036	168.1	48.8	2495.1	70.5	0.0	0.0	43790.7	46573.3
2037	157.6	46.5	2376.6	67.2	0.0	0.0	41486.0	44133.9
2038	147.2	44.5	2275.1	64.3	0.0	0.0	39181.2	41712.3
2039	136.7	42.8	2185.2	61.8	0.0	0.0	36876.4	39302.9
2040	126.3	41.3	2108.0	59.6	0.0	0.0	34571.6	36906.7
2041	119.7	39.9	2036.1	57.6	0.0	0.0	32266.9	34520.1
2042	113.2	38.7	1978.7	55.9	0.0	0.0	29962.1	32148.7
2043	106.7	37.2	1901.3	53.8	0.0	0.0	27657.3	29756.3
2044	100.1	36.4	1858.4	52.5	0.0	0.0	25352.5	27400.0
2045	93.6	35.7	1822.5	51.5	0.0	0.0	23047.8	25051.0
2046	88.4	35.1	1793.7	50.7	0.0	0.0	22615.6	24583.5
2047	83.2	34.4	1755.7	49.6	0.0	0.0	22183.5	24106.3
2048	77.9	33.9	1734.5	49.0	0.0	0.0	21751.3	23646.7
2049	72.7	33.4	1704.9	48.2	0.0	0.0	21319.2	23178.3
2050	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2051	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2052	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2053	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2054	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2055	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2056	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1

year	Emissions (Tonnes CO2e)							Total
	Bus	Motor-cycle	Car	Passenger in a car	Bicycle	Pedestrian	HGVs	
2057	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2058	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2059	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2060	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2061	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2062	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2063	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2064	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2065	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2066	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2067	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2068	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2069	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2070	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2071	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2072	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2073	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2074	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2075	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2076	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2077	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2078	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2079	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2080	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2081	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2082	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2083	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2084	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
2085	67.5	33.0	1684.0	47.6	0.0	0.0	20887.0	22719.1
total	6067	2417	123480	3716	0	0	1753070	1888749.7

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