

Green Hill Solar Farm

Preliminary Environmental Information Report

Volume 3

Transport and Access Appendix 13.1

Prepared by: KMC Transport Planning
Date: November 2024

PINS reference: EN010170

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Appendix 13.1

Traffic Flow Tables

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Appendix 13.1 Traffic Data Tables

Table A13.1 - Links and Sensitivity Scoring

Link ID	Link Name	Sensitivity	Additional explanation
1	Broughton Road - Between North of Access A3 and junction with Old Road	Negligible	–
2	Broughton Road - Between South of Access A3 and junction with Newland Road	Negligible	–
3	Broughton Road - West of junction with Newland Road and east of Access A1	Negligible	–
4	Broughton Road - West of access A1 and Old	Medium	Passes through the village of Old which is a residential area
5	Newland Road - Between junction with Broughton Road and Green Hill A crossing point	Low	Newland Road is designated as a Quiet Lane
6	Newland Road - Between Green Hill A crossing point and Walgrave	Low	Newland Road is designated as a Quiet Lane
7	Old Road - Between junction with Broughton Road and the A43	Medium	There is a PRoW along this section of Old Road and there is a number of collisions at the junction with the A43
8	A43 - Between roundabout with Old Road and junction with A14	Low	–
9	A43 - Between roundabout with Old Road and roundabout with Kettering Road	Medium	There has been a fatality along this section of the A43 in the past five years
10	Kettering Road - East of access to Green Hill A.2 and roundabout with A43	Negligible	–
11	Kettering Road - West of access with Green Hill A.2	Negligible	-
12	A43 - Between roundabout with Kettering Road to roundabout with Sywell Road	Low	-
13	Old Road - Between Old and Scaldwell	Medium	Passes through the village of Old which is a residential area
14	Scaldwell Road - Between Scaldwell and the junction with the A508	Medium	Passes through the village of Scaldwell which is a residential area
15	A5008 - Between junction with Scaldwell Road and Maidwell	Low	–
16	A508 - From Maidwell to junction with A14	Medium	Passes through the village of Maidwell which is a residential area
17	A14 - West of junction 2 with the A508	Low	–
18	A14 - Between junction 2 (with A508) and junction 3 and 4 (with the A6 and Rothwell)	Low	–
19	A14 - Between junction 3 and 4 (with the A6 and Rothwell) and junction 7 (with Kettering)	Low	–



Link ID	Link Name	Sensitivity	Additional explanation
20	A14 - Between junction 7 (with Kettering) and junction 8 (with A43)	Low	–
21	A14 - Between junction 8 (with A43) and junction 8 (with A509)	Low	–
22	A14 - West of junction 8 (with A509)	Low	–
23	A508 - South of junction with Scaldwell Road and Brixworth	Negligible	–
24	A508 - Between junction with Harborough Road and roundabout with Spratton Road	Negligible	–
25	A508 - Between south of roundabout with Spratton Road	Low	–
26	Holcot Road - Between Brixwell and Holcot	Medium	Passes through the village of Holcot which is a residential area
27	Sywell Road - West of access to Green Hill B to A34 roundabout	Negligible	–
28	Sywell Road - East of access to Green Hill B to Holcot	Negligible	–
29	A43 - Between Sywell Road roundabout and Stratford Drive roundabout	Low	–
30	Overstone Road - Between roundabout with A43 and Sywell	High	Route passes past Overstone Primary School
31	Sywell Road - Between roundabout with A43 and Sywell	Negligible	–
32	Sywell Road - Between Sywell and west of access to Green Hill C	Low	There is a PRoW along this section of Sywell Road and passes the Sywell Aerodrome
33	Sywell Road - East of access Green Hill C to Highfield Road	Low	There is a PRoW along this section of Sywell Road
34	Highfield Road - South of junction with Sywell Road to the access to Green Hill E	Negligible	–
35	Sywell Road - Through Park Farm Industrial Estate	Low	Passes through Park Farm Industrial Estate
36	Moonshine Gap - Between junction with Highfield Road and junction to Park Farm Industrial Estate	Low	There is a PRoW along this section of Sywell Road
37	A509 - Between junction with A14 and Wellingborough	Medium	Passes through the village of Isham which is a residential area
38	A509 - Between A510 roundabout and Park Farm Industrial Estate roundabout	Medium	There is likely to be pedestrian and cyclist crossing movements over the roundabouts
39	A509 - Between Sywell Road and Rutherford Drive roundabouts	Medium	There is likely to be pedestrian and cyclist crossing movements over the roundabouts
40	A509 - Between Park Farm Industrial Estate and Prospero Drive Roundabout	Low	–
41	A509 - Between Prospero Drive and A4500 roundabouts	Low	–
42	A509 - Between A4500 and A45 roundabouts	Low	–



Link ID	Link Name	Sensitivity	Additional explanation
43	A5400 - Between A509 roundabout and Mears Ashby Road junction	High	Route passes past Wilby Primary School
44	Mears Ashby Road - Between Wilby and Green Hill E red line	Negligible	–
45	Mears Ashby Road - Through Green Hill E red line to edge of Mears Ashby	Negligible	–
46	Sywell Road - Between Sywell and Mears Ashby	Medium	Passes through the village of Sywell which is a residential area
47	Earls Barton Road - Between Mears Ashby to north of access to Green Hill E	Medium	Passes past a collection of houses to the south of Mears Ashby
48	Earls Barton Road - South of access to Green Hill E to the junction with the A4500	Medium	Passes past a collection of houses to the south of Mears Ashby along Mears Ashby Road
49	A4500 - From junction with Mears Ashby Road to junction with Wellingborough Road	Medium	Passes to the north of Earls Barton and Earls Barton industrial estate. Further to this, the junction with Mears Ashby Road and the B573 is a busy junction at peak times.
50	A4500 - East of Earls Barton to west of Wilby	Medium	Passes through the village of Wilby which is a residential area
51	B573 - A43 to Earls Barton	Negligible	–
52	B573 - Through Earls Barton	Medium	Passes past the town of Earls Barton which is a residential area
53	A45 - East of junction 14 with A509	Low	–
54	A45 - Between junction 14 (with A509) and junction 13 (roundabout with A509)	Low	–
55	A45 - Between junction 12 (with A509) to junction 10 (with Station Road)	Low	–
56	A45 - Between junction 10 (with Station Road) and junction 9 (with A5076)	Low	–
57	A45 - Between the junction with A5076 to the A43 junction	Medium	A busy Stretch of the A45 passing through Northampton
58	A43 - West of A43 junction to the A428 junction	Medium	A busy Stretch of the A45 passing through Northampton
59	A428 - A45 junction to Little Houghton	Medium	Passes through the village of Brafield-on-the-Green
60	A428 - Between Yardly Hastings and roundabout with A509	Medium	Passes through the villages of Denton and Yardley Hastings
61	A428 - Between roundabout with A509 and west of access to Green Hill G	Negligible	–
62	A428 - East of access to Green Hill G	Negligible	–
63	A509 - Between A428 roundabout to London Road Junction	Low	There are PRoWs along this section of the A509
64	A509 - Between London Road junction to south of access with Green Hill F	Negligible	–
65	A509 - North of access to Green Hill F to Bozeat roundabout	Negligible	–



Link ID	Link Name	Sensitivity	Additional explanation
66	A509 - From Bozeat roundabout to South of Green Hill F access	Negligible	–
67	A509 - North of Green Hill F access to junction with London Road (towards Wollaston)	Negligible	–
68	A509 - Between London Road junction to Hardwater Road roundabout	Low	There are PRoWs along this section of the A509
69	A509 - Between Hardwater Road roundabout to A45	Low	–
70	Hardwater Road - Between junction with Main Road and A509 roundabout	Low	–
71	Hardwater Road - Between junction Main Road to Great Doddington	Medium	Summer Leys Local Nature Reserve is adjacent to this section of Hardwater Road
72	B573 - Between junction with A45 and Hardwater Road junction	Medium	Passes through the village of Great Doddington
73	Main Road - South of junction with Hardwater Road to Grendon	Negligible	–
74	Station Road - A45 to junction with Whiston Road	Medium	Passes past a Sportsground and Marina with the potential for pedestrians and cyclists
75	Station Road - From junction with Whiston Road to western access to Green Hill BESS	Negligible	–
76	Station Road - Between the two accesses to Green Hill BESS	Negligible	–
77	Station Road - East of access to Green Hill BESS to Grendon	Negligible	–
78	Easton Way - From Grendon to Green Hill F	High	Passes past Grendon Primary School and play area
79	Easton Way - From Green Hill F crossing to Easton Maudit	Medium	Passes through the village of Easton Maudit
80	Easton Lane - From Easton Maudit to Bozeat	Negligible	–
81	London Road - From red line of Green Hill F to roundabout with A509	Medium	Passes through the residential area of Bozeat



Table 2 - AADT Total Development Traffic (Two-Way Flows)

Link ID	2024 Existing	Development Only	2024 Existing + Development
1	1,802	171	1,973
2	1,802	43	1,845
3	1,579	43	1,622
4	1,579	8	1,587
5	286	0	286
6	286	0	286
7	5,301	171	5,472
8	24,781	161	24,943
9	23,288	132	23,419
10	1,447	77	1,524
11	1,447	0	1,447
12	23,565	113	23,678
13	1,664	8	1,672
14	160	8	168
15	10,989	23	11,012
16	7,897	0	7,897
17	53,061	60	53,121
18	54,360	54	54,414
19	74,975	53	75,028
20	86,175	97	86,272
21	79,955	228	80,183
22	65,772	12	65,784
23	11,474	15	11,489
24	10,862	15	10,877
25	9,642	0	9,642
26	6,974	15	6,989
27	7,630	85	7,715
28	7,630	15	7,645
29	24,565	129	24,694
30	4,905	77	4,982
31	6,149	42	6,190
32	5,234	90	5,323
33	5,234	148	5,382
34	973	321	1,294
35	6,288	317	6,605



36	6,280	317	6,597
37	22,041	236	22,277
38	14,983	236	15,219
39	16,025	398	16,423
40	20,801	398	21,199
41	19,557	398	19,955
42	28,805	229	29,034
43	9,868	41	9,909
44	1,874	27	1,900
45	1,871	27	1,897
46	3,122	30	3,152
47	3,496	3	3,499
48	3,496	21	3,517
49	6,688	14	6,703
50	8,326	14	8,340
51	5,749	7	5,756
52	5,846	7	5,853
53	51,238	172	51,410
54	53,026	223	53,249
55	52,352	54	52,406
56	57,424	94	57,518
57	66,419	94	66,513
58	99,435	293	99,728
59	17,838	332	18,170
60	5,592	332	5,924
61	7,042	180	7,222
62	7,042	12	7,054
63	13,559	263	13,822
64	11,172	263	11,434
65	11,172	209	11,380
66	12,937	208	13,145
67	12,937	122	13,059
68	12,316	122	12,438
69	12,917	121	13,038
70	5,506	0	5,507
71	4,470	0	4,470
72	6,118	0	6,118
73	1,548	0	1,548



74	2,934	101	3,035
75	1,818	101	1,919
76	1,818	64	1,881
77	1,818	1	1,818
78	653	1	653
79	653	1	653
80	957	1	957
81	1,434	1	1,435



Table 3 - AADT HGV Traffic (Two-Way Flows)

Link ID	2024 Existing	Development Only	2024 Existing + Development
1	365	19	384
2	365	4	369
3	286	4	290
4	286	0	286
5	47	0	47
6	47	0	47
7	623	19	642
8	4,962	35	4,997
9	5,589	26	5,614
10	173	17	190
11	173	0	173
12	3,147	17	3,164
13	132	0	132
14	44	0	44
15	2,471	0	2,471
16	1,227	0	1,227
17	11,828	29	11,857
18	10,880	29	10,909
19	11,505	29	11,534
20	11,150	59	11,209
21	10,683	42	10,725
22	9,046	0	9,046
23	3,697	0	3,697
24	2,275	0	2,275
25	1,757	0	1,757
26	1,091	0	1,091
27	1,633	16	1,649
28	1,633	0	1,633
29	3,403	17	3,420
30	569	0	569
31	1,150	0	1,150
32	727	0	727
33	727	34	761
34	117	29	147
35	513	63	576



36	722	63	786
37	1,345	42	1,387
38	2,678	42	2,720
39	2,293	42	2,335
40	1,450	42	1,492
41	3,063	42	3,105
42	1,475	42	1,517
43	996	0	996
44	225	0	225
45	276	0	276
46	412	0	412
47	376	0	376
48	376	2	378
49	1,166	0	1,166
50	956	0	956
51	828	2	830
52	759	2	760
53	2,632	65	2,697
54	3,174	46	3,220
55	3,640	38	3,678
56	3,936	37	3,973
57	4,081	37	4,118
58	5,737	46	5,783
59	817	19	836
60	966	19	985
61	1,193	18	1,211
62	1,193	0	1,193
63	638	19	657
64	1,633	19	1,652
65	1,633	19	1,652
66	1,862	19	1,881
67	1,862	19	1,881
68	1,632	19	1,651
69	2,433	19	2,452
70	734	0	734
71	1,951	0	1,951
72	856	0	856
73	234	0	234



74	403	34	437
75	254	34	288
76	254	21	275
77	254	0	254
78	83	0	83
79	83	0	83
80	136	0	136
81	148	0	148



Table 4 - AAWT Total Development Traffic (Two-Way Flows)

Link ID	2024 Existing	Development Only	2024 Existing + Development
1	2,090	171	2,261
2	2,090	43	2,132
3	1,693	43	1,736
4	1,693	8	1,701
5	339	0	339
6	339	0	339
7	5,501	171	5,673
8	25,386	161	25,547
9	23,755	132	23,887
10	1,596	77	1,673
11	1,596	0	1,596
12	23,851	113	23,964
13	1,879	8	1,888
14	164	8	173
15	10,400	23	10,423
16	8,514	0	8,514
17	57,207	60	57,267
18	58,608	54	58,661
19	79,448	53	79,501
20	91,316	97	91,413
21	84,725	228	84,953
22	69,696	12	69,707
23	11,666	15	11,681
24	10,270	15	10,285
25	10,766	0	10,766
26	7,353	15	7,368
27	7,727	85	7,812
28	7,727	15	7,742
29	24,691	129	24,821
30	5,379	77	5,456
31	6,378	42	6,420
32	5,794	90	5,884
33	5,794	148	5,942
34	1,037	321	1,358
35	7,092	317	7,410



36	7,083	317	7,400
37	23,356	236	23,592
38	15,877	236	16,113
39	16,835	398	17,233
40	21,853	398	22,251
41	20,546	398	20,944
42	30,262	229	30,491
43	10,241	41	10,282
44	1,918	27	1,945
45	1,917	27	1,944
46	3,215	30	3,245
47	3,714	3	3,717
48	3,714	21	3,735
49	6,810	14	6,825
50	8,807	14	8,821
51	6,138	7	6,145
52	6,208	7	6,215
53	53,829	172	54,001
54	55,708	223	55,931
55	55,000	54	55,054
56	59,604	94	59,698
57	68,941	94	69,035
58	103,210	293	103,503
59	18,515	332	18,848
60	5,804	332	6,136
61	7,315	180	7,494
62	7,315	12	7,327
63	14,074	263	14,337
64	11,507	263	11,770
65	11,507	209	11,716
66	13,347	208	13,555
67	13,347	122	13,469
68	12,624	122	12,746
69	13,397	121	13,519
70	5,825	0	5,826
71	4,709	0	4,710
72	6,546	0	6,546
73	1,639	0	1,639



74	3,071	101	3,172
75	1,853	101	1,954
76	1,853	64	1,917
77	1,853	1	1,854
78	661	1	661
79	661	1	661
80	932	1	933
81	1,480	1	1,481



Table 5 - AAWT HGV Traffic (Two-Way Flows)

Link ID	2024 Existing	Development Only	2024 Existing + Development
1	447	19	466
2	447	4	451
3	316	4	320
4	316	0	316
5	56	0	56
6	56	0	56
7	657	19	676
8	5,430	35	5,465
9	5,919	26	5,944
10	202	17	219
11	202	0	202
12	3,395	17	3,412
13	134	0	134
14	44	0	44
15	2,025	0	2,025
16	1,464	0	1,464
17	14,114	29	14,143
18	12,983	29	13,012
19	13,001	29	13,030
20	12,600	59	12,659
21	12,072	42	12,114
22	10,222	0	10,222
23	3,793	0	3,793
24	2,047	0	2,047
25	2,130	0	2,130
26	1,227	0	1,227
27	1,850	16	1,866
28	1,850	0	1,850
29	3,655	17	3,672
30	667	0	667
31	1,194	0	1,194
32	875	0	875
33	875	34	909
34	124	29	154
35	632	63	696



36	890	63	954
37	1,520	42	1,561
38	3,027	42	3,068
39	2,623	42	2,664
40	1,577	42	1,618
41	3,331	42	3,373
42	1,604	42	1,645
43	1,047	0	1,047
44	231	0	231
45	287	0	287
46	433	0	433
47	441	0	441
48	441	2	443
49	1,224	0	1,224
50	1,105	0	1,105
51	939	2	940
52	928	2	929
53	2,862	65	2,927
54	3,451	46	3,498
55	3,958	38	3,996
56	4,490	37	4,527
57	4,656	37	4,693
58	6,545	46	6,591
59	932	19	951
60	1,102	19	1,121
61	1,353	18	1,371
62	1,353	0	1,353
63	728	19	747
64	1,850	19	1,869
65	1,850	19	1,869
66	2,110	19	2,129
67	2,110	19	2,129
68	1,864	19	1,883
69	2,719	19	2,738
70	825	0	825
71	1,890	0	1,890
72	960	0	960
73	246	0	246



74	450	34	484
75	261	34	295
76	261	21	283
77	261	0	261
78	86	0	86
79	86	0	86
80	125	0	125
81	168	0	168