



WHITESTONE
solar farm

WHITESTONE SOLAR FARM

Volume 6: Environmental Statement

6.20 Appendix 13.3: Fear and Intimidation Calculations

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Revision 01

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Planning Act (2008)
Infrastructure Planning
(Applications: Prescribed
Forms and Procedure)
Regulations 2009
Regulations 5(2)(a)

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IEMA Environmental Assessment of Traffic and Movement - Fear and Intimidation								
Study Area Roads - Baseline Traffic				Existing Fear and Intimidation Level				
Ref / Location	18 Hour Average Traffic (Vehicles / Hour)	Total 18 Hour HGV Traffic	Average Vehicle Speed (mph)	18 Hour Average Traffic (Vehicles / Hour)	Total 18 Hour HGV Traffic	Average Vehicle Speed (mph)	Degree of Hazard Score	Fear and Intimidation Level
13: Hellaby Lane	354	174	44	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
16: A630 Sheffield Road (Between Holywell Ln	692	213	36	600 - 1200 10	< 1,000 0	30 - 40 mph 20	30	Moderate
19: Flash Lane	458	146	28	< 600 0	< 1,000 0	20 - 30 mph 10	10	Small
20: A631 (Between Flash Ln and B6060)	1631	822	38	1200 - 1800 20	< 1,000 0	30 - 40 mph 20	40	Moderate
24: Long Lane	92	14	40	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
26: A618 (Between A631 and Gullthwaite	835	88	48	600 - 1200 10	< 1,000 0	> 40 mph 30	40	Moderate
27: Gullthwaite Common Lane	60	8	37	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
32: Penny Hill Lane, West of M1	135	26	38	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
33: Penny Hill Lane, East of M1	94	3	46	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
35: Common Lane South	177	19	43	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
36: Long Road	229	23	50	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
41: Pocket Handkerchief Lane	130	33	42	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
47: Kiveton Lane	396	76	30	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
52: B6060 (North of Second Ln)	577	78	24	< 600 0	< 1,000 0	20 - 30 mph 10	10	Small
53: B6060 (South of Second Ln)	394	51	43	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
56: A618 (South of B6059)	736	262	40	600 - 1200 10	< 1,000 0	> 40 mph 30	40	Moderate
59: Kiveton Lane	384	55	32	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
60: Hard Lane (North)	283	24	40	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
61: Hard Lane (South)	275	25	32	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
66: A618 (North)	447	106	37	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
67: A618 (South)	299	61	48	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
68: Loverose Way	25	11	26	< 600 0	< 1,000 0	20 - 30 mph 10	10	Small
69: A630	514	212	45	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
72: Slacks Lane	2	1	19	< 600 0	< 1,000 0	< 20 mph 0	0	Small
75: Common Lane (North)	177	11	42	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
76: Hawk Hill Lane (West)	93	6	43	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
80: Lidget Lane	188	15	43	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
81: Long Lane	92	11	40	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
82: Pleasley Road	824	149	42	600 - 1200 10	< 1,000 0	> 40 mph 30	40	Moderate
84: Sandy Lane	210	7	39	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
89: Bramley Lane	115	13	44	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
90: Common Lane	422	230	49	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate

IEMA Environmental Assessment of Traffic and Movement - Fear and Intimidation								
Study Area Roads - Baseline + Peak Construction Traffic				Forecast Fear and Intimidation Level				
Ref / Location	18 Hour Average Traffic (Vehicles / Hour)	Total 18 Hour HGV Traffic	Average Vehicle Speed (mph)	18 Hour Average Traffic (Vehicles / Hour)	Total 18 Hour HGV Traffic	Average Vehicle Speed (mph)	Degree of Hazard Score	Fear and Intimidation Level
13: Hellaby Lane	360	244	44	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
16: A630 Sheffield Road (Between Holywell Ln	696	282	36	600 - 1200 10	< 1,000 0	30 - 40 mph 20	30	Moderate
19: Flash Lane	462	171	28	< 600 0	< 1,000 0	20 - 30 mph 10	10	Small
20: A631 (Between Flash Ln and B6060)	1636	896	38	1200 - 1800 20	< 1,000 0	30 - 40 mph 20	40	Moderate
24: Long Lane	93	19	40	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
26: A618 (Between A631 and Gullthwaite	847	150	48	600 - 1200 10	< 1,000 0	> 40 mph 30	40	Moderate
27: Gullthwaite Common Lane	63	23	37	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
32: Penny Hill Lane, West of M1	139	42	38	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
33: Penny Hill Lane, East of M1	95	19	46	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
35: Common Lane South	182	40	43	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
36: Long Road	241	94	50	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
41: Pocket Handkerchief Lane	144	117	42	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
47: Kiveton Lane	407	147	30	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
52: B6060 (North of Second Ln)	581	152	24	< 600 0	< 1,000 0	20 - 30 mph 10	10	Small
53: B6060 (South of Second Ln)	400	125	43	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
56: A618 (South of B6059)	742	289	40	600 - 1200 10	< 1,000 0	> 40 mph 30	40	Moderate
59: Kiveton Lane	395	127	32	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
60: Hard Lane (North)	293	95	40	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
61: Hard Lane (South)	282	69	32	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
66: A618 (North)	453	132	37	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
67: A618 (South)	304	88	48	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
68: Loverose Way	28	25	26	< 600 0	< 1,000 0	20 - 30 mph 10	10	Small
69: A630	529	281	45	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
72: Stacks Lane	6	26	19	< 600 0	< 1,000 0	< 20 mph 0	0	Small
75: Common Lane (North)	179	17	42	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
76: Hawk Hill Lane (West)	98	25	43	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
80: Lidget Lane	192	39	43	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
81: Long Lane	95	27	40	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
82: Pleasley Road	834	217	42	600 - 1200 10	< 1,000 0	> 40 mph 30	40	Moderate
84: Sandy Lane	212	21	39	< 600 0	< 1,000 0	30 - 40 mph 20	20	Small
89: Bramley Lane	119	51	44	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate
90: Common Lane	427	300	49	< 600 0	< 1,000 0	> 40 mph 30	30	Moderate

IEMA Environmental Assessment of Traffic and Movement - Fear and Intimidation - Magnitude of Change							
Ref / Location	Existing Fear and Intimidation Level	Forecast Fear and Intimidation Level	Step Change in Fear and Intimidation Level	Increase in Average Hourly Traffic (All Vehicles)	Increase in Daily HGV Traffic	Condition for Increase in Magnitude of Change	Fear and Intimidation - Magnitude of Change
13: Hellaby Lane	Moderate	Moderate	None	6	70	N/A	Negligible
16: A630 Sheffield Road (Between Holywell Ln	Moderate	Moderate	None	4	69	N/A	Negligible
19: Flash Lane	Small	Small	None	4	25	N/A	Negligible
20: A631 (Between Flash Ln and B6060)	Moderate	Moderate	None	6	74	N/A	Negligible
24: Long Lane	Small	Small	None	1	6	N/A	Negligible
26: A618 (Between A631 and Gutthwaite	Moderate	Moderate	None	11	62	N/A	Negligible
27: Gutthwaite Common Lane	Small	Small	None	3	15	N/A	Negligible
32: Penny Hill Lane, West of M1	Small	Small	None	4	15	N/A	Negligible
33: Penny Hill Lane, East of M1	Moderate	Moderate	None	1	15	N/A	Negligible
35: Common Lane South	Moderate	Moderate	None	5	21	N/A	Negligible
36: Long Road	Moderate	Moderate	None	12	72	N/A	Negligible
41: Pocket Handkerchief Lane	Moderate	Moderate	None	14	84	N/A	Negligible
47: Kiveton Lane	Small	Small	None	10	71	N/A	Negligible
52: B6060 (North of Second Ln)	Small	Small	None	4	74	N/A	Negligible
53: B6060 (South of Second Ln)	Moderate	Moderate	None	5	74	N/A	Negligible
56: A618 (South of B6059)	Moderate	Moderate	None	6	27	N/A	Negligible
59: Kiveton Lane	Small	Small	None	10	71	N/A	Negligible
60: Hard Lane (North)	Small	Small	None	11	71	N/A	Negligible
61: Hard Lane (South)	Small	Small	None	6	44	N/A	Negligible
66: A618 (North)	Small	Small	None	6	27	N/A	Negligible
67: A618 (South)	Moderate	Moderate	None	6	27	N/A	Negligible
68: Loverose Way	Small	Small	None	3	14	N/A	Negligible
69: A630	Moderate	Moderate	None	14	69	N/A	Negligible
72: Slacks Lane	Small	Small	None	4	25	N/A	Negligible
75: Common Lane (North)	Moderate	Moderate	None	2	6	N/A	Negligible
76: Hawk Hill Lane (West)	Moderate	Moderate	None	5	19	N/A	Negligible
80: Lidget Lane	Moderate	Moderate	None	3	24	N/A	Negligible
81: Long Lane	Small	Small	None	3	16	N/A	Negligible
82: Pleasley Road	Moderate	Moderate	None	10	68	N/A	Negligible
84: Sandy Lane	Small	Small	None	2	14	N/A	Negligible
89: Bramley Lane	Moderate	Moderate	None	3	38	N/A	Negligible
90: Common Lane	Moderate	Moderate	None	5	70	N/A	Negligible



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