Hill of Fare Wind Farm

Technical Appendix 11.2

Estimated Traffic Flows

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Construction Schedule

Indicitive Construction Schedule																								
Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Site Clearance / Tree Removal																								
Site Initialisation																								
Site Compound																								
Access Tracks (Existing)																								
Access Tracks (New)																								
Turbine Hardstanding / Crane Pads etc																								
Foundations																								
Substation / Control Building																								
Laying Cable																								
Turbine Delivery and Erection																								
Commissioning																								
Site Reinstatment																								

Anticipated Construction Traffic Movements

Item	Vehicle Type	MONTH 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total Movements	Months Duration
Site Clearance																											
Tree Removal	Timber HGVs	47	47	47	47																					188	4
Site Initialisation																											
Site Office Accommodation	Low loader	50	70																					70	50	120	2*
Plant (including cranes)	Low loader	10	20																					20	10	30	2*
Site Fencing	Flat bed lorry	3	2																					3	2	5	2*
Site Compound																											
Aggregate. 80% sourced from Borrow Pits	Road Borne Tipper lorry		20	20																						39	2
Geomembrane	Flat bed lorry		1																							1	1
Access Tracks Within Site (Upgrade of Existing)																											
Aggregate. 80% sourced from Borrow Pits	Road Borne Tipper lorry		39	38	38	38	39	38	38	38	38															340	9
Geomembrane	Flat bed lorry		1		1		1		1		1															5	5
Culverts/pipes for stream crossings	Flat bed lorry		1																							1	1
Access Tracks Within Site (New)																											
Aggregate. 80% sourced from Borrow Pits	Road Borne Tipper lorry					57	56	56	57	56	56	57	56	56	56											562	10
Geomembrane	Flat bed lorry					2	1	2	1	2	1	2	1	2	1											6	10
Crane Pads and Turbine Hardstanding Areas within Site																											
Aggregate. 80% sourced from Borrow Pits	Road Borne Tipper lorry						27	26	26	26	26	26	26	26	26	26	26	26								315	12
Geomembrane	Flat bed lorry						1			1			1			1										4	4
Concrete batched on site																											
Cement	Tipper lorry										68	67	67	67	67	68	67	67	67	67						672	10
6N structural fill for foundations	Tipper lorry										26	25	26	25	26	25	26	25	26	26						256	10
Reinforcing steelwork	Flat bed lorry										7	6	6	6	6	6	6	6	6	6						61	10
Formwork	Flat bed lorry										5									5						5	1*
Substation & Control Building																											
Ancillary building materials	Flat bed lorry										50	50														100	2
Transformer	Abnormal load												1													1	1
Aggregate. 80% sourced from Borrow Pits	Road Borne Tipper lorry								5	4	5	4														20	4
	Flat bed lorry								1																	1	1
Cabling																											
Cable supply	Flat bed lorry								2	2	2	1	2	2	2	1	2	2	2	1						28	12
Bedding sand. Externally Sourced	Tipper lorry								220	220	219	220	220	219	220	220	219	220	220	219						2,640	12
Turbine Components																											
Tower sections (Inbound single movement)	Abnormal load														16	16	16	16								64	4**
Nacelles (Inbound single movement)	Abnormal load														4	4	4	4								16	4**
Blades (Inbound single movement)	Abnormal load														12	12	12	12								48	4**
Non Abnormal Load components	Flat bed lorry														12	12	12	12								48	4
Fuel																											
Fuel	Tanker	5	4	5	4	5	4	5	4	5	4	5	4	5	4	5	4	4	4	4	4	4	4	4	4	104	24
Labour																											
Staff	Cars and Vans	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	4,320	24

Standard HGV Deliveries		115	205	#REF!	#REF!	#REF!	129	127	355	354	508	463	410	408	452	396	394	394	325	328	4	4	4	97	66	#REF!	
Abnormal Loads Movements**		0	0	0	0	0	0	0	0	0	0	0	1	0	32	32	32	32	0	0	0	0	0	0	0	129	
Total Deliveries		115	205	#REF!	#REF!	#REF!	129	127	355	354	508	463	411	408	484	428	426	426	325	328	4	4	4	97	66	#REF!	
Total Staff		180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	4,320	

Total Delivery Movements	230	410	#REF!	#REF!	#REF!	258	254	710	708	1016	926	822	816	968	856	852	852	650	656	8	8	8	194	132	#REF!	
Total Staff Movements	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640	
Total Delivery Daily Movements	12	21	#REF!	#REF!	#REF!	13	13	36	35	51	46	41	41	48	43	43	43	33	33	0	0	0	10	7	#REF!	
Total Staff Daily Movements	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	432	

NOTES:

One delivery requires two vehicle movements. Therefore the anticipated increase in vehicles as a result of construction is represented by "Total Delivery Movements"

Estimates are based on previous projects of a similar size and nature and current design/project information

Assumes that 80% of aggregate will be won from borrow pits on site

Assumes cement, structural fill and all sand are imported

Assumes that all concrete will be batched onsite

* Requires a second round-trip to collect from site

**Abnormal load movements are typical inbound only. Once unloaded the vehicle reduces to be moved as a regular HGV.