

East Anglia ONE North Offshore Windfarm

Appendix 26.11

HGV and Employee Traffic Assigned to the Construction Programme

Preliminary Environmental Information

Volume 3

EA1N-DEVWF-ENV-REP-IBR-000295_011

Section 1 - Construction Plant Requirements

Plant	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	25	26	27	28	29	30	31	32	33	34	35	36					
D6 Dozer	1	1	1	1	2	2	1								2	2	2				2	2	2	2										2	2	2					
30T Excavator	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			2	2	2	2											2	2	2				
20T Dumper	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	2			2	2	2	2											4	4	4				
Smooth Drum vibrio road roller	1	1	1	1	1	1	1								1	1	1				1	1	1	1											1	1	1				
21T excavator	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1			1	1	1	1												2	2	2			
5T Forward Tipping Dumper	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1			1	1	1	1												2	2	2			
Loading shovel	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2				2	2	2	2												2	2	2			
Trench Roller							1	1	1	1	1	1	1	1	1	1																					1	1	1		
Tractor & fencing kit					1	1																1	1	1	1																
Tractor & trailer	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1													1	1	1		
Tractor & Fuel bowser (or self-propelled)	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1													1	1	1		
Tractor & Water bowser (for dust suppression)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1														1	1	1	
Tractor & cable drum trailer												1	1	1	1	1	1	1	1																						
Tractor & soil tiller, roller, seeder															1	1	1					1	1	1	1												1	1	1		
Cement mixer													1	1	1	1	1	1	1	1																					
Mobile crane													1	1	1	1	1	1	1	1																					
Grader	1	1	1	1	1	1	1																																		
Cable laying tracked crane																																									
Cable winch												1	1	1	1	1	1	1	1	1																					
Pre-cast concrete truck																																									
Mobile concrete pump											1	1	1	1	1	1	1	1	1																						
Telehandler	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																		
Mobile self-contained welfare unit	2	2	2	2																																		2	2	2	
Crawler Crane							1	1	1	1	1	1	1	1	1	1	1	1	1																						
Mobile generator	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1													2	2	2	
Temporary lighting	1	1	1	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2														3	3	3	
Road surface paver & roller	1	1	1	1																																					
Pump							1	2	2	2	2	2	2	2	2	2	2	2	2	1																			1	1	1
Total Plant Onsite In Section Per Month	20	20	20	20	25	25	27	25	25	26	28	31	31	31	35	35	34	24	17	12	19	19	19	19	0	0	0	0	0	0	0	0	0	0	0	0	28	28	28		
Total Deliveries / Removals	20	0	0	0	11	0	6	4	0	1	2	3	0	0	4	0	1	10	7	5	19	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	28	0	33		
Average Deliveries / Removals Per Day	1	0	0	0	1	0	1	1	0	1	1	1	0	0	1	0	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	2		
Average Total two-way HGV movements (Deliveries / Removals) Per Day	2	0	0	0	2	0	2	2	0	2	2	2	0	0	2	0	2	2	2	2	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4	0	4			

Section 3 - Construction Plant Requirements

Plant	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	25	26	27	28	29	30	31	32	33	34	35	36				
D6 Dozer	1	1	1	1	2	2	1					Q	Q	Q	Q	Q					2	2	2	2										2	2	2				
30T Excavator	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			2	2	2	2											2	2	2			
20T Dumper	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	2	2			2	2	2	2											4	4	4			
Smooth Drum vibrio road roller	1	1	1	1	2	2	1														1	1	1	1											1	1	1			
21T excavator	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1			1	1	1	1												2	2	2		
5T Forward Tipping Dumper	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1			1	1	1	1											2	2	2		
Loading shovel	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2					2	2	2	2												2	2	2		
Trench Roller							1	1	1	1	1	1	1	1	1	1																				1	1	1		
Tractor & fencing kit					1	1																																		
Tractor & trailer	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1												1	1	1		
Tractor & Fuel bowser (or self-propelled)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1												1	1	1		
Tractor & Water bowser (for dust suppression)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1												1	1	1		
Tractor & cable drum trailer												1	1	1	1	1	1	1	1	1																				
Tractor & soil tiller, roller, seeder																									1	1	1	1									1	1	1	
Cement mixer													1	1	1	1	1	1	1	1	1																			
Mobile crane													1	1	1	1	1	1	1	1	1																			
Grader	1	1	1	1	1	1	1																																	
Cable laying tracked crane																																								
Cable winch												1	1	1	1	1	1	1	1	1	1																			
Pre-cast concrete truck																																								
Mobile concrete pump												1	1	1	1	1	1	1	1	1	1																			
Telehandler	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																	
Mobile self-contained welfare unit	2	2	2	2																																	2	2	2	
Crawler Crane							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																			
Mobile generator	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1													2	2	2	
Temporary lighting	1	1	1	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2													3	3	3	
Road surface paver & roller	1	1	1	1																																				
Pump							1	2	2	2	2	2	2	2	2	2	2	2	2	2	1																	1	1	1
Total Plant Onsite In Section Per Month	20	20	20	20	26	26	27	25	25	26	28	31	31	31	31	31	24	24	17	12	19	19	19	19											28	28	28			
Total Deliveries / Removals	20				12		7	4			1	2	3							7	5	19			19										28	28	28			
Average Deliveries / Removals Per Day	1	0	0	0	1	0	1	1	0	1	1	1	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
Average Total two-way HGV movements (Deliveries / Removals) Per Day	2	0	0	0	2	0	2	2	0	2	2	2	0	0	0	0	0	2	0	2	2	2	0	0	2	0	0	0	0	0	0	0	0	0	4	0	4			

Section 4 - Average Daily Personnel Requirements

Number of Additional Site Personnel Per Activity (general labourers, drillers, drilling foremen, electricians, joiners, bricklayers etc)	Total Working Days	Total Person Days	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	25	26	27	28	29	30	31	32	33	34	35	36					
Establish construction consolidation site compound and site access off Sizewell Gap Road	22	66	3	3	3	3																																					
Site preparation including fencing, temporary drainage and haul road construction	44	176					4	4																																			
Construction of access roads for National Grid Overhead Line Works	66	198							3	3	3																																
Onshore Export Cable Installation Section 4A and 4B																																											
Trench Route Clearance / Topsoil Strip	44	88					2	2																																			
Trench Excavation	220	330							3	2	2	2	1	1	1	1	1	1																									
Duct Installation	220	330							3	2	2	2	1	1	1	1	1	1																									
Trench Backfill	198	264								2	2	2	1	1	1	1	1	1																									
Jointing Bay Excavation	242	352								2	2	2	1	1	1	1	1	1	2	2																							
Jointing Bay Base Construction	198	264										2	1	1	1	1	1	1	2	2																							
Pulling and connection of cables	198	286											1	1	1	1	1	1	2	2	3																						
Jointing Bay Walls and Roof	198	330												1	1	1	1	1	2	2	3	3																					
Backfill over Jointing Bays	44	132																																					3	3			
Trench Route Reinstatement / Topsoil Reinstatement	66	198																																					3	3	3		
Movement of fence line to minimum extents	88	264																																									
Haul Road Removal (includes removal of fencing) and reinstatement	66	198																																						3	3	3	
Removal of access road for National Grid Overhead Line Works	66	198																																						3	3	3	
Construction consolidation site and access road Removal	154	462																																						3	3	3	
Plant Operators																																											
Overall Plant Operators	792	11,220	16	16	16	16	22	22	25	25	25	19	21	23	23	23	23	16	16	9	7	16	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20
Section 3 Engineering Personnel																																											
Lead Engineer, 1 x Assistant Engineers, 1 x surveyors, 1 x Foreman	792	3,168	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Average Total Employees per day			23	23	23	23	32	32	38	40	40	33	31	34	34	34	34	28	28	19	14	26	26	26	26	4	4	4	4	4	4	4	4	4	4	4	4	4	4	39	39	36	
Maximum Total Employee Two-way Movements Per Day (car/small van)			46	46	46	46	64	64	76	80	80	66	62	68	68	68	68	56	56	38	28	52	52	52	52	8	8	8	8	8	8	8	8	8	8	8	8	8	8	78	78	72	

Section 4 - Total Vehicle Movement Requirements

Activity	Week																																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36					
Materials and Welfare and Operation Plant Daily HGV Movements Total Two-way HGV Movements Per Day	18	18	18	18	34	34	28	32	32	14	16	18	18	18	18	10	10	6	4	10	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	54	54	54		
Increase to account for Miscellaneous allowances presented in Page 11 of Materials Vehicle Movements Tab where the percentage increase is presented	23	23	23	23	42	42	35	40	40	18	20	23	23	23	23	13	13	8	5	13	13	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	67	67	
Construction Plant Average Total two-way HGV Movements (deliveries / Removals) Per Day	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	
Average total two-way HGV Movements Per Day	25	25	25	25	46	46	39	44	44	22	24	27	27	27	27	17	17	10	7	15	15	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	71	71	
Maximum Total Employee Two-way Movements Per Day (car/small van)	46	46	46	46	64	64	76	80	80	66	62	68	68	68	68	56	56	38	28	52	52	52	52	8	8	8	8	8	8	8	8	8	8	8	8	8	8	78	78	72	
Employee Two-Way Movements Plus additional 10% for Miscellaneous Movements	51	51	51	51	71	71	84	88	88	73	69	75	75	75	75	62	62	42	31	58	58	58	58	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	86	86	80
Maximum Total HGV and Car/small van Two-way Movements Per Day (car/small van)	76	76	76	76	117	117	123	132	132	95	93	102	102	102	102	79	79	52	38	73	73	73	73	9	9	9	9	9	9	9	9	9	9	9	9	9	9	157	157	151	

Substation - Monthly Construction Plant Requirements

Activity	Months																																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36									
D6 Dozer	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1																		1	1	1								
30T excavator	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1																			1	1	1							
20T dumper	2	2	2	3	3	3	3	2	2	1	1	1	1	1	1	1	1																				1	1	1						
Smooth Drum vibro road roller	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1																				1	1	1						
21T excavator	2	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	1																				1	1	1					
5T Forward Tipping Dumper	2	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	1																				1	1	1					
Loading shovel	2	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1																					1	1	1					
Tractor & trailer	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
Tractor & Fuel bowser (or self-propelled)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
Tractor & Water bowser (for dust supression)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
Grader	2	2	2	2	1	1	2	2	2	1	1	1	1	1	1	1	1																						1	1	1				
Mobile self-contained welfare unit	1	1	1	1																																			1	1	1				
Road surface paver & roller								1	1	1	1	1	1	1	1	1	1																							1	1	1			
Concrete batching plant								1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Dry-mix silos								2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Cement mixer																	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Mobile crane (light for general use)																1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Mobile crane (heavy)																			1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Specialist heavy-lifting gantry & associated equipment																			1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Static crane																	1	1	2	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Pre-cast concrete truck								1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1																						
Mobile concrete pump								1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1																						
Telehandler								1	1									1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Mobile generator								1	1									1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
3T Forward Tipping Dumper																	1	1	1	1	1																								
Scissor lift																		1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Mobile powered aerial platform (boom lift / 'cherry picker')																		1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Scaffolding (deliveries)																		1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Formwork (deliveries)								1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1																						
JCB Wheeled excavator																		1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Forklift																																													
Pump (4 per delivery)				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Temporary lighting (8 per delivery)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Trench Roller								1	1																																				
Crawler Crane								1	1																																				
Total Plant Onsite In Section Per Month	22	22	22	24	22	26	35	29	29	22	22	22	31	31	40	40	38	33	33	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0	0	0	14	14	14			
Total Deliveries / Removals	22	0	0	4	2	4	9	6	0	7	0	0	9	0	9	0	18	13	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	14	
Average Deliveries / Removals Per Week	6	0	0	1	1	1	3	2	0	2	0	0	3	0	3	0	5	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4		
Average Total two-way HGV movements (Deliveries / Removals) Per Week	12	0	0	2	2	2	6	4	0	4	0	0	6	0	6	0	10	8	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8	
Average Total two-way HGV movements (Deliveries / Removals) Per Day	3	0	0	1	1	1	2	1	0	1	0	0	2	0	2	0	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	

National Grid Works

Construction Vehicle movements (quarterly)																				
Activities	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Site Enabling																				
HGVs	3000	3000	1500																	
LGVs	950	450	250																	
Substation Works																				
HGVs			160	300	650	650	650	650	800	800	1800	1800	1800	1800	500	500	20	20	40	44
LGVs			720	1120	1900	2180	2180	2180	1850	1850	1850	1850	800	800	800	400	200	200	200	200
Overhead Line Works																				
HGVs						268	268	268	268	402	402			134	264	264			402	402
LGVs						360	360	360	360	360	360			180	360	360				
TOTALS																				
Total two-way HGV movements per quarter	3000	3000	1660	300	650	918	918	918	1068	1202	2202	1800	1800	1934	764	764	20	20	442	446
Total two-way daily HGV movements (assuming 66 working days per quarter)	45	45	25	5	10	14	14	14	16	18	33	27	27	29	12	12	0	0	7	7
Total dail delivereries	23	23	13	2	5	7	7	7	8	9	17	14	14	15	6	6	0	0	3	3
Total two-way LGV movements per quarter	950	450	970	1120	1900	2540	2540	2540	2210	2210	2210	1850	800	980	1160	760	200	200	200	200
Total two-way daily LGV movements (assuming 66 workidn days per quarter)	14	7	15	17	29	38	38	38	33	33	33	28	12	15	18	12	3	3	3	3
Total daily LGV arrivals	7	3	7	8	14	19	19	19	17	17	17	14	6	7	9	6	2	2	2	2