



East Anglia ONE North Offshore Windfarm

Appendix 26.23

HGV and LCV Traffic Assigned to the Construction Programme (Scenario 1)

Environmental Statement Volume 3

Applicant: East Anglia ONE North Limited
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Pursuant to APFP Regulation: 5(2)(a)

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Landfall - Average Daily Personnel Requirements

Number of Additional Site Personnel Per Activity (general labourers, drillers, drilling foremen)	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 Landfall HDD construction compound	78	234			3	3	3																																					
HDD Drilling works & Ducting (assume working 24/7 7 days a week) includes Admin of HDD Compound	240	1,440						6	6	6	6	6	6	6																														
Demobilisation of HDD Kit and Welfare to Landfall Compound	26	156															6																											
Establish CCS within Landfall Laydown Area																																												
Construction of CCS	78	234			3	3	3																																					
Transition Bays at Landfall																																												
Excavation of transition bays	52	156										3	3																															
Construction of transition bay base	52	156											3	3																														
Connection of Cables in Transition Bays	78	234											3	3	3																													
Transition bay Walls and Roof	52	156												3	3																													
Backfill over transition bay	52	156													3	3																												
Landfall Compound Removal and Reinstatement	52	156																																							3	3		
Removal of CCS within Landfall Laydown Area and demobilisation of welfare	78	234																																						3	3	3		
Plant Operators																																												
Overall Plant Operators	286	4,420			19	19	19						9	12	8	18	18																									16	16	16
Landfall HDD Engineering Personnel (not HDD)																																												
1 x engineer / surveyor, 1 x Foreman	286	572			2	2	2						2	2	2	2	2																									2	2	2
Average Total Employees per day			0	0	27	27	27	6	6	6	6	20	26	22	35	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	21
Maximum Total Employee Two-way Movements Per Day (cars/small van)			0	0	54	54	54	12	12	12	12	40	52	44	70	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	48	42	

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	2	2			2	2	1								2	2	2					2	2	2	2										2	2	2			
30T Excavator	6	6			4	4	4	4	4	4	4	4	4	4	4	4	4	2				2	2	2	2										3	3	3			
20T Dumper	6	6			5	5	5	6	6	6	6	6	6	6	8	8	4	2					2	2	2	2									6	6	6			
Smooth Drum vibrio road roller	2	2			2	2	1								1	1	1						1	1	1	1									2	2	2			
21T excavator	2	2			3	3	3	3	3	3	3	3	3	3	3	3	2	1					1	1	1	1									3	3	3			
3T Forward Tipping Dumper	2	2			2	2	2	3	3	3	3	3	3	3	3	3	2	1					1	1	1	1									3	3	3			
Loading shovel	2	2			3	3	3	3	3	3	3	3	3	3	3	3	2					2	2	2	2										3	3	3			
Trench Roller							2	2	2	2	2	2	2	2	2	2																				2	2	2		
Tractor & fencing kit	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			
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		
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										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																																	
Cable laying tracked crane												1	1	1	1	1	1	1	1	1																				
Cable winch													1	1	1	1	1	1	1	1																				
Pre-cast concrete truck												1	1	1	1	1	1	1	1	1																				
Mobile concrete pump											1	1	1	1	1	1	1	1	1	1																				
Telehandler	1	1			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1																		
Mobile self-contained welfare unit	1	1																																			2	2	2	
Crawler Crane							1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1																		
Mobile generator	2	2			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	2	2			2	2	3	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																																						
Pump							1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1																1	1	1
Total Plant Onsite In Section Per Month	34	34	0	0	32	32	34	34	34	35	37	41	41	41	47	47	37	25	17	12	19	19	19	19	0	0	0	0	0	0	0	0	0	0	36	36	36			
Total Deliveries / Removals	34	0	34	0	32	0	8	6	0	1	2	4	0	0	6	0	10	12	8	5	19	0	0	0	19	0	0	0	0	0	0	0	0	0	36	0	33			
Average Deliveries / Removals Per Day	2	0	2	0	2	0	1	1	0	1	1	1	0	0	1	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	2	0	2			
Average Total two-way HGV movements (Deliveries / Removals) Per Day	4	0	4	0	4	0	2	2	0	2	2	2	0	0	2	0	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	4	0	4				

Section 2 - 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	2	2	2	1								2	2	2				2	2	2	2											2	2	2			
30T Excavator	3	3	3	6	4	4	4	4	4	4	4	4	4	4	4	4	4	2			2	2	2	2											3	3	3			
20T Dumper	3	3	3	6	5	5	5	6	6	6	6	6	6	6	8	8	4	2			2	2	2	2											6	6	6			
Smooth Drum vibrio road roller	1	1	1	2	2	2	1								1	1	1				1	1	1	1											2	2	2			
21T excavator	1	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	2	1			1	1	1	1											3	3	3			
5T Forward Tipping Dumper	1	1	1	2	2	2	2	3	3	3	3	3	3	3	3	3	2	1			1	1	1	1											3	3	3			
Loading shovel	1	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	2				2	2	2	2												3	3	3		
Trench Roller							2	2	2	2	2	2	2	2	2	2																					2	2	2	
Tractor & fencing kit	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		
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													1	1	1	
Cement mixer												1	1	1	1	1	1	1	1	1	1	1	1																	
Mobile crane												1	1	1	1	1	1	1	1	1	1	1	1																	
Grader	1	1	1	1	1	1	1																																	
Cable laying tracked crane												1	1	1	1	1	1	1	1	1																				
Cable winch												1	1	1	1	1	1	1	1	1	1	1																		
Pre-cast concrete truck												1	1	1	1	1	1	1	1	1	1	1																		
Mobile concrete pump											1	1	1	1	1	1	1	1	1	1																				
Telehandler	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1																		
Mobile self-contained welfare unit	1	1	1	1																																		2	2	2
Crawler Crane							1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1																		
Mobile generator	1	1	1	2	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	2	2	2	3	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	2	1																		
Total Plant Onsite in Section Per Month	21	21	21	34	32	32	34	34	34	35	37	41	41	41	47	47	37	25	17	12	19	19	19	19												36	36	36		
Total Deliveries / Removals	21	0	0	13	8	0	8	6	0	1	2	4	0	0	6	0	10	12	8	5	19	0	0	0	19	0	0	0	0	0	0	0	0	0	0	36	0	36		
Average Deliveries / Removals Per Day	1	0	0	1	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	2	0	2		
Average Total two-way HGV movements (Deliveries / Removals) Per Day	2	0	0	2	2	0	2	2	0	2	2	2	0	0	2	0	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	4	0	4			

Section 2 - 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 sites and site accesses (month 6 construction of Hundred River CC3)	130	390	3	3	3	3		3																																			
Site preparation including fencing, temporary drainage and haul road construction	78	312				4	4	4																																			
Onshore Export Cable Installation Section 2A and 2B																																											
Trench Route Clearance / Topsoil Strip	52	104					2	2																																			
Trench Excavation	260	390							3	2	2	2	2	1	1	1	1	1	1	1	1																						
Duct Installation	260	390							3	2	2	2	2	1	1	1	1	1	1	1	1																						
Trench Backfill	234	312								2	2	2	2	1	1	1	1	1	1	1	1																						
Jointing Bay Excavation	286	416									2	2	2	1	1	1	1	1	1	1	1	2	2																				
Jointing Bay Base Construction	234	312									2	1	1	1	1	1	1	1	1	1	1	2	2																				
Pulling and connection of cables	234	338												1	1	1	1	1	1	1	1	2	2	3																			
Jointing Bay Walls and Roof	234	390																	1	1	1	1	1	1	1	2	2	3	3														
Backfill over Jointing Bays	52	156																																					3	3			
Trench Route Reinstatement / Topsoil Reinstatement	78	234																																					3	3	3		
Medium Length Onshore HDD Crossing of Obstacle 2.1 and 2.2																																											
Establish Onshore HDD drilling compound	52	156							3	3																																	
HDD Drilling works & Ducting (assume working 24/7 7 days a week) Includes Admin of HDD Compound	120	120												1	1	1	1	1																									
HDD Drilling risk programme 'float'	30	120																	4																								
Demobilisation of HDD kit and welfare	26	78																			3																						
Removal of Onshore HDD compound	52	156																				3	3																				
Movement of fence line to minimum extents	104	312																																									
Haul Road Removal (includes removal of fencing) and reinstatement	78	234																																						3	3	3	
Construction consolidation site and access road Removal	182	546																																							3	3	3
Plant Operators																																											
Overall Plant Operators	702	17,316	18	18	18	29	28	28	28	27	27	28	30	33	33	33	33	39	39	29	17	9	7	16	16	16	16												28	28	28		
Section 2 Engineering Personnel																																											
Lead Engineer, 1 x Assistant Engineers, 1 x surveyors, 1 x Foreman	702	2,808	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			25	25	25	40	38	44	41	40	40	43	41	48	47	44	53	53	41	29	19	14	26	26	26	26	0	0	0	0	0	0	0	0	0	0	0	0	0	44	44	41	
Maximum Total Employee Two-way Movements Per Day (car/small van)			50	50	50	80	76	88	82	80	80	86	82	96	94	88	106	106	82	58	38	28	52	52	52	52	0	0	0	0	0	0	0	0	0	0	0	0	88	88	82		

Section 3 - Average Materials and Welfare and Operation Plant Daily HGV Movements

Activity	Total Working Days	Total HGVs	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			
Establish construction consolidation site compound at Aldeburgh Road Crossing	22	113						6																																	
Mobilisation of Welfare and Operation Plant to CCS	22	19						1																																	
Site preparation including fencing, temporary drainage, haul road construction and access construction.	44	390					9	9																																	
Onshore Export Cable Installation Sction 3A and 3B																																									
Trench Route Clearance / Topsoil Strip	44	0					0	0																																	
Trench Excavation	220	403							2	2	2	2	2	2	2	2	2	2	2	2																					
Duct Installation	220	243						2	2	2	2	2	2	2	2	2	2	2	2	2																					
Trench Backfill	198	19								1	1	1	1	1	1	1	1	1	1	1																					
Jointing Bay Excavation	242	276							2	2	2	2	2	2	2	2	2	2	2	2	2	2																			
Jointing Bay Base Constriction	198	19									1	1	1	1	1	1	1	1	1	1	1	1																			
Pulling and connection of cables	198	62										1	1	1	1	1	1	1	1	1	1	1																			
Jointing Bay Walls and Roof	198	56											1	1	1	1	1	1	1	1	1	1	1																		
Backfill over Jointing Bays	44	0																																			0	0			
Trench Route Reinstatement / Topsoil Reinstatement	66	0																																			0	0	0		
Movement of fence line to minimum extents	88	0																							0	0	0	0													
Haul Road and Access Removal (includes removal of fencing) and reinstatement	66	390																																			6	6	6		
Demobilisation of Welfare from CCS	66	19																																			1	1	1		
Construction Consolidation Site	154	113																						1	1	1	1										1	1	1		
Average Section Skip HGV Movements Per Day	506	92						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			
		Total HGVs per day	0	0	0	0	0	10	17	5	8	8	9	10	11	11	11	11	11	11	11	11	6	6	3	2	2	2	2	2	0	0	0	0	0	0	0	9	9	9	
		Total two-way HGV movements per day	0	0	0	0	0	20	34	10	16	16	18	20	22	22	22	22	22	22	22	12	12	6	4	4	4	4	4	0	0	0	0	0	0	0	0	0	18	18	18

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					4	4															2	2	2	2											2	2	2				
30T Excavator					5	5	2	4	4	4	4	4	4	4	4	4	2	2			2	2	2	2												3	3	3			
20T Dumper					5	5	2	6	6	6	6	6	6	6	6	2	2				2	2	2	2												6	6	6			
Smooth Drum vibrio road roller					2	2															1	1	1	1												2	2	2			
21T excavator					2	2	2	3	3	3	3	3	3	3	3	3	1	1			1	1	1	1												3	3	3			
3T Forward Tipping Dumper					2	2	2	3	3	3	3	3	3	3	3	3	1	1			1	1	1	1												3	3	3			
Loading shovel					3	3	2	3	3	3	3	3	3	3	3	3					2	2	2	2												3	3	3			
Trench Roller							2	2	2	2	2	2	2	2	2	2																					2	2	2		
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		
Tractor & Fuel bowser (or self-propelled)					1	1	2	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	2	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	1	1																			
Mobile crane												1	1	1	1	1	1	1	1	1	1	1	1																		
Grader					1	1																																			
Cable laying tracked crane												1	1	1	1	1	1	1	1	1	1	1																			
Cable winch												1	1	1	1	1	1	1	1	1	1	1																			
Pre-cast concrete truck												1	1	1	1	1	1	1	1	1	1	1																			
Mobile concrete pump											1	1	1	1	1	1	1	1	1	1	1	1																			
Telehandler					1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1																	
Mobile self-contained welfare unit							2																															2	2	2	
Crawler Crane							1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1																	
Mobile generator					2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1												2	2	2	
Temporary lighting					2	2	16	3	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	1
Pump							4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1																1	1	1
Total Plant Onsite In Section Per Month	0	0	0	0	34	34	45	34	34	35	37	41	41	41	41	41	25	25	17	12	19	19	19	19	19	0	0	0	0	0	0	0	0	0	0	0	36	36	36		
Total Deliveries / Removals	0	0	0	0	34	0	43	31	0	1	2	4	0	0	0	0	16	0	8	5	19	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	36	0	36		
Average Deliveries / Removals Per Day	0	0	0	0	2	0	2	2	0	1	1	1	0	0	0	1	0	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	0	0	0	0	4	0	4	4	0	2	2	2	0	0	0	2	0	2	2	2	2	2	0	0	2	0	0	0	0	0	0	0	0	0	0	4	0	4			

Section 3 - 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 and site access off Sizewell Gap Road	26	78					3																																	
Site preparation including fencing, temporary drainage, haul road construction and access construction.	52	208				4	4																																	
Onshore Export Cable Installation Sction 3A and 3B																																								
Trench Route Clearance / Topsoil Strip	52	104				2	2																																	
Trench Excavation	260	390						3	2	2	2	1	1	1	1	1	1																							
Duct Installation	260	390						3	2	2	2	1	1	1	1	1	1																							
Trench Backfill	234	312							2	2	2	1	1	1	1	1	1																							
Jointing Bay Excavation	286	416							2	2	2	1	1	1	1	1	1	2	2																					
Jointing Bay Base Construction	234	312									2	1	1	1	1	1	1	1	2	2																				
Pulling and connection of cables	234	338										1	1	1	1	1	1	1	2	2	3																			
Jointing Bay Walls and Roof	234	390												1	1	1	1	1	1	2	2	3																		
Backfill over Jointing Bays	52	156																																			3	3		
Trench Route Reinstatement / Topsoil Reinstatement	78	234																																			3	3	3	
Movement of fence line to minimum extents																																								
Movement of fence line to minimum extents	104	312																																						
Haul Road and Access Removal (includes removal of fencing) and reinstatement	78	234																																				3	3	3
Construction consolidation site Removal	182	546																																				3	3	3
Plant Operators																																								
Overall Plant Operators	598	14,404					30	30	19	27	27	28	30	33	33	33	33	33	17	17	9	7	16	16	16	16										28	28	28		
Section 3 Engineering Personnel																																								
Lead Engineer, 1 x Assistant Engineers, 1 x surveyors, 1 x Foreman	598	2,392					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			0	0	0	0	40	43	29	39	39	42	40	44	44	44	44	44	29	29	19	14	26	26	26	26	0	0	0	0	0	0	0	0	0	0	0	44	44	41
Maximum Total Employee Two-way Movements Per Day (car/small van)			0	0	0	0	80	86	58	78	78	84	80	88	88	88	88	88	58	58	38	28	52	52	52	52	0	0	0	0	0	0	0	0	0	0	88	88	82	

Section 4 - 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	2	2	2	2	2																2	2	2	2										2	2	2		
30T Excavator	3	4	4	4	2	2	2	4	4	4	4	4	4	4	4	4	2	2				2	2	2	2										3	3	3		
20T Dumper	3	6	6	6	2	2	2	6	6	6	6	6	6	6	6	2	2					2	2	2	2									6	6	6			
Smooth Drum vibrio road roller	1	2	2	2	1	1																1	1	1	1									2	2	2			
21T excavator	1	2	2	2	1	1	2	3	3	3	3	3	3	3	3	3	1	1				1	1	1	1									3	3	3			
5T Forward Tipping Dumper	1	2	2	2	1	1	2	3	3	3	3	3	3	3	3	3	1	1				1	1	1	1									3	3	3			
Loading shovel	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3						2	2	2	2									3	3	3			
Trench Roller							2	2	2	2	2	2	2	2	2	2																			2	2	2		
Tractor & fencing kit	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		
Tractor & Fuel bowser (or self-propelled)	1	1	1	1	1	1	2	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	2	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	1																		
Grader	1	2	2	2																																			
Cable laying tracked crane												1	1	1	1	1	1	1	1	1																			
Cable winch													1	1	1	1	1	1	1	1	1																		
Pre-cast concrete truck													1	1	1	1	1	1	1	1	1																		
Mobile concrete pump											1	1	1	1	1	1	1	1	1	1																			
Telehandler	1	1	1	1			1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1																
Mobile self-contained welfare unit	1	1	1	1	1	1	2																													2	2	2	
Crawler Crane							1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1																	
Mobile generator	1	2	2	2	1	1	4	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1											2	2	2		
Temporary lighting	1	2	2	2	1	1	16	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							4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1															1	1	1
Total Plant Onsite In Section Per Month	21	33	33	33	16	16	45	34	34	35	37	41	41	41	41	41	25	25	17	12	19	19	19	19	0	0	0	0	0	0	0	0	0	0	0	36	36	36	
Total Deliveries / Removals	21	12	0	0	17	0	35	31	0	1	2	4	0	0	0	0	16	0	8	5	19	0	0	0	19	0	0	0	0	0	0	0	0	0	36	0	36		
Average Deliveries / Removals Per Day	1	1	0	0	1	0	2	2	0	1	1	1	0	0	0	0	1	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	2		
Average Total two-way HGV movements (Deliveries / Removals) Per Day	2	2	0	0	2	0	4	4	0	2	2	2	0	0	0	0	2	0	2	2	2	0	0	0	2	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 Snape Road	104	312	3	3	3	3																																															
Construction of tarmac haul road from access to CCS	52	156	3	3																																																	
Site preparation including fencing, temporary drainage and haul road construction	78	312		4	4	4																																															
Onshore Export Cable Installation Section 4A and 4B																																																					
Trench Route Clearance / Topsoil Strip	52	104					2	2																																													
Trench Excavation	260	390							3	2	2	2	2	1	1	1	1	1	1	1																																	
Duct Installation	260	390							3	2	2	2	2	1	1	1	1	1	1	1	1	1																															
Trench Backfill	234	312									2	2	2	2	1	1	1	1	1	1	1	1																															
Jointing Bay Excavation	286	416									2	2	2	2	1	1	1	1	1	1	1	1	2	2																													
Jointing Bay Base Constriction	234	312									2	1	1	1	1	1	1	1	1	1	1	2	2																														
Pulling and connection of cables	234	338												1	1	1	1	1	1	1	1	2	2	3																													
Jointing Bay Walls and Roof	234	390												1	1	1	1	1	1	1	2	2	3	3																													
Backfill over Jointing Bays	52	156																																												3	3						
Trench Route Reinstatement / Topsoil Reinstatement	78	234																																													3	3	3				
Movement of fence line to minimum extents	104	312																																																			
Haul Road Removal (includes removal of fencing) and reinstatement	78	234																																																3	3	3	
Construction consolidation site and access road Removal	182	546																																																			
Plant Operators																																																					
Overall Plant Operators	702	16,172	16	28	28	28	13	13	19	27	27	28	30	33	33	33	33	33	33	17	17	9	7	16	16	16	16																						28	28	28		
Section 4 Engineering Personnel																																																					
Lead Engineer, 1 x Assistant Engineers, 1 x surveyors, 1 x Foreman	702	2,808	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	4	4	4	4	4	4	4	4	4		
Project Engineering Personnel Based at CSS 4.1																																																					
Head Engineer, 2 x Admin Staff, QS, Assistant QS, Overall Site Foreman, H&S Supervisor, H&S Assistant, Environmental Clerk, Assistant Environmental Clerk, Lead Surveyor, 2 X catering staff, 2 x client representative and 2 x owners engineers	936	15,912	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
Average Total Employees per day			45	59	56	56	36	36	46	56	56	59	57	61	61	61	61	61	46	46	36	31	43	43	43	43	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17		
Maximum Total Employee Two-way Movements Per Day (car/small van)			90	118	112	112	72	72	92	112	112	118	114	122	122	122	122	122	92	92	72	62	86	86	86	86	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	122	122	116

National Grid Works - Average Materials and Welfare and Operation Plant Daily HGV Movements

Activity	Total Working Days	Total HGVs	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							
Construction of access roads for National Grid Over Head Line Works	22	187	9																																										
Construction of tarmac access road to Sealing End Compound	22	132								6																																			
Project Substation - National Grid Connection	44	15										1	1																																
Removal of access road for National Grid Overhead Line Works	66	187																																					3	3	3				
Total HGVs per day			9	0	0	0	0	0	0	6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3		
Total two-way HGV movements per day			18	0	0	0	0	0	0	12	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	6

National Grid Works - 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						2	2	2																																2	2	2							
30T Excavator	3						2	2	2																																		2	2	2					
20T Dumper	3						2	2	2																																									
Smooth Drum vibrio road roller	1						2																																											
21T excavator	1						2	2	2																																									
ST Forward Tipping Dumper	1						2	2	2																																									
Loading shovel	1						2	2	2																																									
Trench Roller								2	2																																									
Tractor & fencing kit	1																																																	
Tractor & trailer	1						1	1	1																																									
Tractor & Fuel bowser (or self-propelled)	1						1	1	1																																									
Tractor & Water bowser (for dust suppression)	1						1	1	1																																									
Tractor & cable drum trailer																																																		
Tractor & soil tiller, roller, seeder																																																		
Cement mixer																																																		
Mobile crane																																																		
Grader	1						1																																											
Cable laying tracked crane																																																		
Cable winch																																																		
Pre-cast concrete truck																																																		
Mobile concrete pump																																																		
Telehandler	1							2	2																																									
Mobile self-contained welfare unit	1						1	2	2																																									
Crawler Crane									1	1																																								
Mobile generator	2							2	2																																									
Temporary lighting	2							2	2																																									
Road surface paver & roller							1																																											
Pump								2	2																																									
Total Plant Onsite In Section Per Month	0	0	22	0	0	0	20	28	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	22			
Total Deliveries / Removals	0	0	22	22	0	0	20	16	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	22				
Average Deliveries / Removals Per Day	0	0	1	1	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1			
Average Total two-way HGV movements (Deliveries / Removals) Per Day	0	0	2	2	0	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	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 - 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	
Construction of access roads for National Grid Overhead Line Works	26	78	3																																				
Construction of tarmac access road to Sealing End Compound	26	52								2																													
Project Substation - National Grid Connection	52	312								6	6																												
Removal of access road for National Grid Overhead Line Works	78	234																																		3	3	3	
Plant Operators																																							
Overall Plant Operators	182	3,224	17							19	20	20																									16	16	16
Engineering Personnel																																							
Lead Engineer / surveyor, 1 x Foreman	182	364	2							2	2	2																									2	2	2
Average Total Employees per day			22	0	0	0	0	0	0	23	28	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21
Maximum Total Employee Two-way Movements Per Day (car/small van)			44	0	0	0	0	0	0	46	56	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	42	42

Total Vehicle Movement Requirements (National Grid Works)

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	0	0	0	0	0	12	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	6
Increase to account for Miscellaneous allowances (nominal 25% increase)	23	0	0	0	0	0	15	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	8
Construction Plant Average Total two-way HGV Movements (deliveries / Removals) Per Day	0	0	2	2	0	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Average total two-way HGV Movements Per Day	23	0	2	2	0	0	17	5	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	8	10	
Maximum Total Employee Two-way Movements Per Day (car/small van)	44	0	0	0	0	0	46	56	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	42	42
Employee Two-Way Movements Plus additional 10% for Miscellaneous Movements	49	0	0	0	0	0	51	62	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	47	47
Maximum Total HGV and Car/small van Two-way Movements Per Day (car/small van)	72	0	2	2	0	0	68	67	65	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	55	57

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 daily deliveries	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

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