

# **East Anglia ONE North Offshore Windfarm**

## **Appendix 26.12**

### **Assignment of HGV and Employee Traffic to the Highway Network**

Preliminary Environmental Information

Volume 3

EA1N-DEVWF-ENV-REP-IBR-000295\_012

**Employee Traffic Distribution**

Landfall (Link 11 B1353)	Total employees	32
	Car-share ratio	1.5
	Total vehicles	21
	Percentage resident workers	0.34
	Percentage in-migrant workers	0.66
	Total in-migrant workers vehicles	14

Point of entry to study area	Residents		In-migrant		Combined	Links														
	Percentage split	Total worker vehicles (one-way)	Percentage split	Total worker vehicles (one-way)	Total worker vehicles (one-way)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	31.0%	2.3	31.9%	4	7	7			7							7		7	7	7
2	8.3%	0.6	13.0%	2	2		2			2		2		2				2		2
3	42.4%	3.1	28.7%	4	7			7			7			7		7		7		7
4	10.9%	0.8	0.1%	0	1				1									1	1	1
8 or 10	1.6%	0.1	17.2%	2	3							3			3	3				
14 or 15	5.8%	0.4	9.0%	1	2											2		2	2	2

Total worker vehicles (one-way)	7	2	7	8	2	7	2	3	10	3	21	0	19	9	19
Total worker vehicles (two-way)	13	5	14	15	5	14	5	5	19	5	43	0	38	18	38

Landfall (Link 12 Sizewell Gap)	Total employees	32
	Car-share ratio	1.5
	Total vehicles	21
	Percentage resident workers	0.34
	Percentage in-migrant workers	0.66
	Total in-migrant workers vehicles	14

Point of entry to study area	Residents		In-migrant		Combined	Links														
	Percentage split	Total worker vehicles (one-way)	Percentage split	Total worker vehicles (one-way)	Total worker vehicles (one-way)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	31.0%	2.3	31.9%	4	7	7			7							7				
2	8.3%	0.6	13.0%	2	2		2		2							2				
3	42.4%	3.1	28.7%	4	7			7			7			7		7		7		7
4	10.9%	0.8	0.1%	0	1				1									1		
8 or 10	1.6%	0.1	17.2%	2	3							3			3	3				
14 or 15	5.8%	0.4	9.0%	1	2											2		2	2	2

Total worker vehicles (one-way)	7	2	7	10	0	7	0	3	7	3	0	21	0	11	9
Total worker vehicles (two-way)	13	5	14	20	0	14	0	5	14	5	0	43	0	23	18

Landfall (Link 11 access)	
Landfall (Link 12 access)	
Landfall (worst case)	

Total worker vehicles (two-way)	13	5	14	15	5	14	5	5	19	5	43	0	38	18	38
Total worker vehicles (two-way)	13	5	14	20	0	14	0	5	14	5	0	43	0	23	18
Total worker vehicles (two-way)	13	5	14	20	5	14	5	5	19	5	43	43	38	23	38

Cable Route Section 1 (Link 12 Sizewell Gap)	Total employees	58
	Car-share ratio	1.5
	Total vehicles	39
	Percentage resident workers	0.34
	Percentage in-migrant workers	0.66
	Total in-migrant workers vehicles	26

Point of entry to study area	Residents		In-migrant		Combined	Links														
	Percentage split	Total worker vehicles (one-way)	Percentage split	Total worker vehicles (one-way)	Total worker vehicles (one-way)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	31.0%	4.1	31.9%	8	12	12			12							12				
2	8.3%	1.1	13.0%	3	4		4		4							4				
3	42.4%	5.6	28.7%	7	13			13			13			13		13		13		13
4	10.9%	1.4	0.1%	0	1				1									1		
8 or 10	1.6%	0.2	17.2%	4	5							5			5	5		5		5
14 or 15	5.8%	0.8	9.0%	2	3											3		3	3	3

Total worker vehicles (one-way)	12	4	13	18	0	13	0	5	13	5	0	39	0	21	16
Total worker vehicles (two-way)	24	9	26	36	0	26	0	9	26	9	0	77	0	41	32

Cable Route Section 2 (Link 12 Sizewell Gap)	Total employees	41
	Car-share ratio	1.5
	Total vehicles	27
	Percentage resident workers	0.34
	Percentage in-migrant workers	0.66
	Total in-migrant workers vehicles	18

Point of entry to study area	Residents		In-migrant		Combined	Links														
	Percentage split	Total worker vehicles (one-way)	Percentage split	Total worker vehicles (one-way)	Total worker vehicles (one-way)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	31.0%	2.9	31.9%	6	9	9			9							9				
2	8.3%	0.8	13.0%	2	3		3		3							3				
3	42.4%	3.9	28.7%	5	9			9			9			9		9		9		9
4	10.9%	1.0	0.1%	0	1				1									1		
8 or 10	1.6%	0.2	17.2%	3	3							3			3	3		3		3
14 or 15	5.8%	0.5	9.0%	2	2											2		2	2	2

Total worker vehicles (one-way)	9	3	9	13	0	9	0	3	9	3	0	27	0	15	11
Total worker vehicles (two-way)	17	6	18	26	0	18	0	7	18	7	0	55	0	29	23

Cable Route Section 3 (Link 9 B1069)	Total employees	36
	Car-share ratio	1.5
	Total vehicles	24
	Percentage resident workers	0.34
	Percentage in-migrant workers	0.66
	Total in-migrant workers vehicles	16

Point of entry to study area	Residents		In-migrant		Combined	Links														
	Percentage split	Total worker vehicles (one-way)	Percentage split	Total worker vehicles (one-way)	Total worker vehicles (one-way)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	31.0%	2.5	31.9%	5	8	8			8							8				8
2	8.3%	0.7	13.0%	2	3		3			3		3								
3	42.4%	3.5	28.7%	5	8			8			8			8						
4	10.9%	0.9	0.1%	0	1				1										1	1
8 or 10	1.6%	0.1	17.2%	3	3							3		3	3					
14 or 15	5.8%	0.5	9.0%	1	2											2		2	2	2

Total worker vehicles (one-way)	8	3	8	8	3	8	3	3	24	3	0	0	0	10	10
Total worker vehicles (two-way)	15	5	16	17	5	16	5	6	48	6	0	0	0	21	21

Cable Route Section 3A (Link 10 B1122)	Total employees	7
	Car-share ratio	1.5
	Total vehicles	5

Combined Total worker vehicles (one-way)	Links														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
5								5	5	5					

Total worker vehicles (one-way)	0	0	0	0	0	0	0	0	5	5	5	0	0	0	0	0
Total worker vehicles (two-way)	0	0	0	0	0	0	0	0	10	10	10	0	0	0	0	0

Cable Route Section 4 (Link 9 B1069)	Total employees	40
	Car-share ratio	1.5
	Total vehicles	27
	Percentage resident workers	0.34
	Percentage in-migrant workers	0.66
	Total in-migrant workers vehicles	18

Point of entry to study area	Residents		In-migrant		Combined	Links														
	Percentage split	Total worker vehicles (one-way)	Percentage split	Total worker vehicles (one-way)	Total worker vehicles (one-way)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	31.0%	2.8	31.9%	6	8	8			8					8					8	8
2	8.3%	0.8	13.0%	2	3		3			3		3		3						
3	42.4%	3.8	28.7%	5	9			9			9			9						
4	10.9%	1.0	0.1%	0	1				1					1					1	1
8 or 10	1.6%	0.1	17.2%	3	3								3	3	3					
14 or 15	5.8%	0.5	9.0%	2	2									2					2	2

Total worker vehicles (one-way)	8	3	9	9	3	9	3	3	27	3	0	0	0	10	10
Total worker vehicles (two-way)	17	6	18	19	6	18	6	6	53	6	0	0	0	21	21

Substation (Link 9 B1069)	Total employees	51
	Car-share ratio	1.5
	Total vehicles	34
	Percentage resident workers	0.34
	Percentage in-migrant workers	0.66
	Total in-migrant workers vehicles	22

Point of entry to study area	Residents		In-migrant		Combined	Links														
	Percentage split	Total worker vehicles (one-way)	Percentage split	Total worker vehicles (one-way)	Total worker vehicles (one-way)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	31.0%	3.6	31.9%	7	11	11			11					11					8	8
2	8.3%	1.0	13.0%	3	4		4			4		4		4						
3	42.4%	4.9	28.7%	6	11			11			11			11						
4	10.9%	1.3	0.1%	0	1				1					1					1	1
8 or 10	1.6%	0.2	17.2%	4	4								4	4	4					
14 or 15	5.8%	0.7	9.0%	2	3									3					2	2

Total worker vehicles (one-way)	11	4	11	12	4	11	4	4	34	4	0	0	0	10	10
Total worker vehicles (two-way)	21	8	23	24	8	23	8	8	68	8	0	0	0	21	21

National Grid Substation (Link 5 B1121)	Total employees	19
	Car-share ratio	1.0
	Total vehicles	19
	Percentage resident workers	0.34
	Percentage in-migrant workers	0.66
	Total in-migrant workers vehicles	13

Point of entry to study area	Residents		In-migrant		Combined	Links														
	Percentage split	Total worker vehicles (one-way)	Percentage split	Total worker vehicles (one-way)	Total worker vehicles (one-way)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	31.0%	2.0	31.9%	4	6	6	6			6										
2	8.3%	0.5	13.0%	2	2		2			2										
3	42.4%	2.8	28.7%	4	6			6	6	6										
4	10.9%	0.7	0.1%	0	1				1	1		1		1					1	1
8 or 10	1.6%	0.1	17.2%	2	2					2		2	2		2					
14 or 15	5.8%	0.4	9.0%	1	2					2		2		2					2	2

Total worker vehicles (one-way)	6	15	6	1	19	0	5	2	2	2	0	0	0	3	3
Total worker vehicles (two-way)	12	29	13	1	38	0	9	5	4	5	0	0	0	6	6

Total worker vehicles (two-way)	60	34	64	72	31	57	17	28	123	28	21	87	19	80	80
Total worker vehicles (two-way)	121	69	128	143	63	115	33	55	247	55	43	175	38	161	160

24HR AADT	103.6	58.87	109.3	122.7	53.74	98.3	28.55	47.39	211.3	47.39	36.57	149.7	32.2	137.9	137.1
18Hr AAWT	121	69	128	143	63	115	33	55	247	55	43	175	38	161	160

**HGV Traffic Distribution**

	Access	Peak deliveries (two-way movements)	Links														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Landfall	Sizewell Gap (link 12)	38	38	38	38	38								38			
	B1353 (Link 11)		38	38	38			38		38		38	38				
	Overlap	38	38	38	38	0	38	0	38	0	38	38	38	0	0	0	

	Access	Peak deliveries (two-way movements)	Links														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Cable Route Section 1	Sizewell Gap (link 12)	46	46	46	46	46								46			

	Access	Peak deliveries (two-way movements)	Links														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Cable Route Section 2	Sizewell Gap (Link 12)	41	41	41	41	41								41			

	Access	Peak deliveries (two-way movements)	Links														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Cable Route Section 3	B1069 (Link 9)	35	35	35			35			35							

	Access	Peak deliveries (two-way movements)	Links														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Cable Route Section 3B	B1122 (Link 10)	7								7	7	7					

	Access	Peak deliveries (two-way movements)	Links														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Cable Route Section 4	B1069 (Link 9)	71	71	71	71			71			71						

	Access	Peak deliveries (two-way movements)	Links														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Substaion	B1069 (Link 9)	55	55	55	55			55			55						

	Access	Peak deliveries (two-way movements)	Links														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
National Grid Substaion	B1121 (Link 9)	45	45	45	45			45			45						

	Links														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Total two-way HGV movements	331	331	331	125	0	244	0	45	213	45	38	125	0	0	0
Total two-way HGV movements (capped)	254	254	254	125	0	244	0	45	213	45	38	125	0	0	0

24HR AADT	218	218	218	107	0	210	0	39	183	39	33	107	0	0	0
18Hr AAWT	254	254	254	125	0	244	0	45	213	45	38	125	0	0	0