

East Anglia ONE North Offshore Windfarm

Appendix 26.21

Assignment of HGV and Employee Traffic to the Highway Network (Scenario 1)

Preliminary Environmental Information Volume 3 EA1N-DEVWF-ENV-REP-IBR-000295_021

Employee Traffic Distribution (Scenario 1)

	Total employees	32
	Car-share ratio	1.5
Landfall	Total vehicles	21
(Link 11 B1353)	Percentage resident workers	0.34
(LIIK II D 1333)	Percentage in-migrant workers	0.66
	Total resident workers vehicles	7
	Total in-migrant workers vehicles	14

	Total employees	32
	Car-share ratio	1.5
Landfall	Total vehicles	21
(Link 12 Sizewell	Percentage resident workers	0.34
Gap)	Percentage in-migrant workers	0.66
	Total resident workers vehicles	7
	Total in-migrant workers vehicles	14

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

	Total employees	70
Cable Route,	Car-share ratio	1.5
Section 1	Total vehicles	47
(Link 12 Sizewell	Percentage resident workers	0.34
Gap)	Percentage in-migrant workers	0.66
Gap)	Total resident workers vehicles	16
	Total in-migrant workers vehicles	31

	Total employees	53
Cable Route,	Car-share ratio	1.5
Section 2	Total vehicles	35
(Link 12 Sizewell	Percentage resident workers	0.34
Gap)	Percentage in-migrant workers	0.66
Gap)	Total resident workers vehicles	12
	Total in-migrant workers vehicles	23

	Total employees	44
	Car-share ratio	1.5
Cable Route,	Total vehicles	29
Section 3	Percentage resident workers	0.34
(Link 9 B1069)	Percentage in-migrant workers	0.66
	Total resident workers vehicles	10
	Total in-migrant workers vehicles	19

	Resid	lents	In-mi	grant	Combined								Links							
Point of entry to study area	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%	4.5	6.7	7			7							7		7	7	7
2	8.3%	0.6	13.0%	1.8	2.4		2			2		2		2		2		2		2
3	42.4%	3.1	28.7%	4.0	7.1			7			7			7		7		7		7
4	10.9%	0.8	0.1%	0.0	0.8				1							1		1	1	1
8 or 10	1.6%	0.1	17.2%	2.4	2.5								3		3	3				
14 or 15	5.8%	0.4	9.0%	1.3	1.7											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

	Resid	lents	In-miç	grant	Combined	Links													
Point of entry to study area	Percentage split	Total worker vehicles	Percentage split	Total worker vehicles	Total worker vehicles	1 2 3 4 5 6 7 8 9 10 11 12 13									14	15			
Study area		(one-way)		(one-way)	(one-way)														
1	31.0%	2.3	31.9%	4.5	6.7	7			7							7			
2	8.3%	0.6	13.0%	1.8	2.4		2		2							2			
3	42.4%	3.1	28.7%	4.0	7.1			7			7			7		7		7	7
4	10.9%	0.8	0.1%	0.0	0.8				1							1			
8 or 10	1.6%	0.1	17.2%	2.4	2.5								3		3	3		3	
14 or 15	5.8%	0.4	9.0%	1.3	1.7											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
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

	Resid	lents	In-miç	grant	Combined	Links															
Point of entry to	Percentage split	Total worker	Percentage split	Total worker	Total worker	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	31.0%	4.9	31.9%	9.8	14.7	15			15								15				
2	8.3%	1.3	13.0%	4.0	5.3		5		5								5				
3	42.4%	6.7	28.7%	8.8	15.6			16			16			16			16		16	16	
4	10.9%	1.7	0.1%	0.0	1.8				2								2				
8 or 10	1.6%	0.3	17.2%	5.3	5.6								6		6		6		6		
14 or 15	5.8%	0.9	9.0%	2.8	3.7												4		4	4	

Total worker vehicles (one-way	15	5	16	22	0	16	0	6	16	6	0	47	0	25	19
Total worker vehicles (two-way		11	31	44	0	31	0	11	31	11	0	93	0	50	38
	•		•												

	Resid	lents	In-mig	grant	Combined								Links							
Point of entry to study area	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%	3.7	31.9%	7.4	11.2	11			11								11			
2	8.3%	1.0	13.0%	3.0	4.0		4		4								4			
3	42.4%	5.1	28.7%	6.7	11.8			12			12			12			12		12	12
4	10.9%	1.3	0.1%	0.0	1.3				1								1			
8 or 10	1.6%	0.2	17.2%	4.0	4.2								4		4		4		4	
14 or 15	5.8%	0.7	9.0%	2.1	2.8												3		3	3

Total worker vehicles (one-way)	11	4	12	17	0	12	0	4	12	4	0	35	0	19	15
Total worker vehicles (two-way)	22	8	24	33	0	24	0	8	24	8	0	71	0	38	29

	Resid	lents	In-mig	grant	Combined								Links							
Point of entry to study area	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%	3.1	31.9%	6.2	9.3	9			9					9					9	9
2	8.3%	0.8	13.0%	2.5	3.4		3			3		3		3						
3	42.4%	4.2	28.7%	5.6	9.8			10			10			10						
4	10.9%	1.1	0.1%	0.0	1.1				1					1					1	1
8 or 10	1.6%	0.2	17.2%	3.3	3.5						-		4	4	4					
14 or 15	5.8%	0.6	9.0%	1.7	2.3									2					2	2

Total worker vehicles (one-way)	9	3	10	10	3	10	3	4	29	4	0	0	0	13	13
Total worker vehicles (two-way)	19	7	20	21	7	20	7	7	59	7	0	0	0	25	25
														•	

Cable Routes,	Total employees	9
Section 3A	Car-share ratio	1.5
(Link 10 B1122)	Total vehicles	6

	Total employees	47
	Car-share ratio	1.5
Cable Route	Total vehicles	31
Section 4	Percentage resident workers	0.34
(Link 9 B1069)	Percentage in-migrant workers	0.66
	Total resident workers vehicles	11
	Total in-migrant workers vehicles	21

	Total employees	92
	Car-share ratio	1.5
Substation	Total vehicles	61
(Link 9 B1069)	Percentage resident workers	0.34
(LIIIK 9 D 1009)	Percentage in-migrant workers	0.66
	Total resident workers vehicles	21
	Total in-migrant workers vehicles	40

	Total employees	19
	Car-share ratio	1.0
National Grid	Total vehicles	19
Substation	Percentage resident workers	0.34
(Link 5 B1121)	Percentage in-migrant workers	0.66
	Total resident workers vehicles	7
	Total in-migrant workers vehicles	13

	Combined								Links							
Point of entry study area	venicles	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
9	(one-way)								6	6	6					
Total wo	ker vehicles (one-way) ker vehicles (two-way)	0	0	0	0	0	0	0	6 12	6 12	6	0	0	0	0	0

	Resid	lents	In-miç	grant	Combined								Links							
Point of entry to study area	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%	3.3	31.9%	6.6	9.9	10			10					10					9	9
2	8.3%	0.9	13.0%	2.7	3.6		4			4		4		4						
3	42.4%	4.5	28.7%	5.9	10.4			10			10			10						
4	10.9%	1.2	0.1%	0.0	1.2				1					1					1	1
8 or 10	1.6%	0.2	17.2%	3.6	3.7								4	4	4					
14 or 15	5.8%	0.6	9.0%	1.9	2.5									2					2	2

Total worker vehicles (one-way)	10	4	10	11	4	10	4	4	31	4	0	0	0	13	13
Total worker vehicles (two-way)	20	7	21	22	7	21	7	7	63	7	0	0	0	25	25

	Resid	dents	In-mig	grant	Combined								Links							
Point of ontry to		Total worker		Total worker	Total worker															
Point of entry to study area	Percentage split	vehicles	Percentage split	vehicles	vehicles	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Study area		(one-way)		(one-way)	(one-way)															
1	31.0%	6.5	31.9%	13	19	19			19					19					9	9
2	8.3%	1.7	13.0%	5	7		7			7		7		7						1
3	42.4%	8.8	28.7%	12	20			20			20			20						1
4	10.9%	2.3	0.1%	0	2				2					2					2	2
8 or 10	1.6%	0.3	17.2%	7	7								7	7	7					1
14 or 15	5.8%	1.2	9.0%	4	5									5				, and the second	5	5

	Total worker vehicles (one-way)	19	7	20	22	7	20	7	7	61	7	0	0	0	16	16
Ī	Total worker vehicles (two-way)	39	14	41	43	14	41	14	15	123	15	0	0	0	33	33

	Resid	lents	In-mig	grant	Combined								Links							
Point of entry to study area	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) 1	12	29	13	1	38	0	9	5	4	5	0	0	0	7	7

Total worker vehicles (two-way)	77	40	82	92	36	75	21	35	167	35	21	103	19	100	98
Total worker vehicles (two-way)	155	81	163	185	71	150	42	70	334	70	43	207	38	200	196

24HR AADT	132.5		139.8	158.2	61.05	128.8	35.86	60.13	286.3	60.13	36.57	177.1	32.2	171.8	167.8
18Hr AAWT	155	81	163	185	71	150	42	70	334	70	43	207	38	200	196

HGV Traffic Distribution (Scenario 1)

										Links							
		Peak delivieries															
	Access	(two-way	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		movements)															
	Sizewell Gap (link 12)	45	45	45	45	45								45			
Landfall	B1353 (Link 11)	40	45	45	45			45		45		45	45				
	Landfall B1353 (Link 11) Over					45	0	45	0	45	0	45	45	45	0	0	0

										Links							
		Peak delivieries															
	Access	(two-way	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		movements)															
Cable Route Section 1	Sizewell Gap (link 12)	54	54	54	54	54	•					·		54	·		

										Links							
		Peak delivieries															
	Access	(two-way	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		movements)															
Cable Route Section 2	Sizewell Gap (Link 12)	53	53	53	53	53								53			

									Links							
	Peak delivieries															
Acce	ss (two-way	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	movements)															
Cable Route Section 3 B1069 (L	ink 9) 48	48	48	48			48			48						

										Links							
		Peak delivieries															
	Access	(two-way	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		movements)															
Cable Route Section 3B	B1122 (Link 10)	10								10	10	10					
		1		_	_		_		_	Links		_	_		_	_	
		Peak delivieries								LIIIKS							
	Access	(two-way	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	710000	movements)		_		·											
Cable Route Section 4	B1069 (Link 9)	83	83	83	83			83			83						
										Links							
		Peak delivieries					_			_							
	Access	(two-way	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Cubataian	D4000 (Link 0)	movements)	00	00	00			82			00						
Substaion	B1069 (Link 9)	82	82	82	82			82			82						
										Links							
		Peak delivieries															
	Access	(two-way	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		movements)															
National Grid Substaion	B1121 (Link 9)	45	45	45	45			45			45						
			4							Links		4.0		10	- 10	4.4	4.=
	Total two wa	N/ HCV/ movements	110	2 410	3 410	4 152	5	6 303	7	8 55	9 268	10 55	11	12 152	13	14	15
	Total two-way HGV m	ay HGV movements		322	322	152	0	303	0	55	268	55	45 45	152	0	0	0
	Total two-way HOV III	overnenta (capped)	JZZ	JZZ	JZZ	102	U	303	<u> </u>	55	200	55	40	IJZ	0	U	U
		24HR AADT	276.4	276.4	276.4	130.3	0	260.1	0	47	229.8	47	39	130.3	0	0	0
		18Hr AAWT	322	322	322	152	0	303	0	55	268	55	45	152	0	0	0