

# Norfolk Boreas Offshore Wind Farm

# Appendix 26.2

## Air Quality Traffic Data

## Environmental Statement

## Volume 3

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*Photo: Ormonde Offshore Wind Farm*

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## Glossary of Acronyms

AADT	Annual Average Daily Traffic
HGV	Heavy Goods Vehicle

## Glossary of Terminology

The project	Norfolk Boreas Offshore Wind Farm, including the onshore and offshore infrastructure
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## 1 Air Quality Traffic Data

- The traffic data used in the air quality assessment was provided by Royal HaskoningDHV, the transport consultants for the project. The derivation of the traffic flows is detailed in Chapter 24 Traffic and Transport. The traffic data used for the project are provided in Table 1.1 and Table 1.2.

**Table 1.1 Air quality traffic data for the Norfolk Boreas Assessment**

Link	Road	Speed MPH	2017 Base		2024 Without Norfolk Boreas Scenario 2		2024 With Norfolk Boreas Scenario 2		2027 Without Norfolk Boreas Scenario 1		2027 With Norfolk Boreas Scenario 1	
			AAADT	%HGV	AAADT	%HGV	AAADT	%HGV	AAADT	%HGV	AAADT	%HGV
			1a	A47	70	17225	10%	19554	9.8%	20105	11.6%	20365
1b	A47	70	17225	10%	19554	9.8%	20339	11.5%	20365	9.8%	20537	10%
2	A47	70	23875	9%	27103	8.5%	27794	9.4%	28227	8.5%	28409	9%
3	A47	70	47728	6%	54181	6.0%	54706	6.5%	56429	6.0%	56550	6%
4	A47	70	49150	5%	55795	4.5%	56164	5.0%	58110	4.5%	58191	5%
5	A47	70	43300	5%	46007	4.5%	46648	5.7%	47167	4.5%	47457	5%
6	A47	70	20524	6%	23299	6.2%	23903	8.5%	24266	6.2%	24550	7%
7	A47	70	13220	10%	15007	10.5%	15366	12.1%	15630	10.5%	15713	11%
8	A146	40	12313	5%	13978	5.4%	14300	7.4%	14558	5.4%	14634	6%
9	A47	50	33293	3%	37794	3.1%	38442	4.7%	39362	3.1%	39688	4%
10	A47	40	26961	2%	30604	2.3%	31244	4.3%	31877	2.3%	32201	3%
13a	A148	30	14351	6%	16291	6.0%	16974	9.2%	16967	6.0%	17303	8%
13b	A148	30	10729	5%	12180	4.8%	12688	8.2%	12685	4.8%	12900	6%
14	A148	30	11222	5%	12739	4.6%	13184	7.2%	13268	4.6%	13418	6%
16	B1110/B1146 - Holt Road	49	7344	1%	8337	1.1%	8689	3.7%	8683	1.1%	8774	2%
17	B1145 - Billingford Road	45	2803	2%	3182	1.6%	3502	7.9%	3314	1.6%	3387	3%
18	A1067	30	8021	7%	9105	7.1%	9494	10.1%	9483	7.1%	9619	8%
19	A148	50	11782	9%	13375	8.6%	14053	12.7%	13930	8.6%	14265	11%

Link	Road	Speed MPH	2027 With Norfolk Boreas									
			2017 Base		2024 Without Norfolk Boreas Scenario 2		2024 With Norfolk Boreas Scenario 2		2027 Without Norfolk Boreas Scenario 1		2027 With Norfolk Boreas Scenario 1	
			AADT	%HGV	AADT	%HGV	AADT	%HGV	AADT	%HGV	AADT	%HGV
21	B1147 - Etling Green (Hoe Road South)	47	1391	1%	1579	1.1%	1867	12.9%	1645	1.1%	1682	3%
22	B1147 - Dereham Road	39	2137	1%	2426	0.9%	2738	9.0%	2527	0.9%	2584	2%
24	A1067	60	9531	5%	10820	5.1%	11397	8.4%	11269	5.1%	11480	6%
29	A1067	60	11973	7%	13592	6.9%	14043	8.9%	14156	6.9%	14320	8%
30	A1067	50	10469	6%	11884	6.4%	12342	8.7%	12377	6.4%	12525	7%
32	B1149 - Norwich Road	40	4043	2%	4590	1.9%	4852	6.1%	4780	1.9%	4883	4%
33	B1149 - Holt Road	47	5274	3%	5987	3.1%	6372	6.2%	6235	3.1%	6388	5%
34	B1145 - west of Cawston	43	2648	1%	3006	1.0%	3394	7.5%	3131	1.0%	3331	5%
35a	B1159 - Cost Road	44	3236	1%	3674	0.9%	4064	8.0%	3826	0.9%	3944	3%
35b	B1159 - Cost Road	44	3236	1%	3674	0.9%	4000	7.4%	3826	0.9%	3944	3%
36	B1149 - Holt Road	45	7553	2%	8574	1.9%	8900	4.2%	8930	1.9%	9044	3%
39	A140 - Hevingham	50	14400	4%	15193	4.1%	15611	4.9%	15533	4.1%	15661	4%
40a	A140 - Roughton	30	9020	3%	10240	3.1%	10540	5.7%	10664	3.1%	10757	4%
40b	A140 - Roughton	30	12159	4%	13803	4.5%	14231	5.7%	14376	4.5%	14662	6%
41	B1436 - Felbrigg	36	6372	2%	7233	2.3%	7718	7.5%	7534	2.3%	7679	4%
42	B1145 - Reepham Road	43	2265	1%	2571	0.8%	2881	7.1%	2678	0.8%	2758	2%



Link	Road	Speed MPH	2027 With Norfolk Boreas									
			2017 Base		2024 Without Norfolk Boreas Scenario 2		2024 With Norfolk Boreas Scenario 2		2027 Without Norfolk Boreas Scenario 1		2027 With Norfolk Boreas Scenario 1	
			AADT	%HGV	AADT	%HGV	AADT	%HGV	AADT	%HGV	AADT	%HGV
44a	A149	30	8166	4%	9270	4.1%	9661	6.9%	9655	4.1%	9759	5%
44b	A149	30	8166	4%	9270	4.1%	9690	6.6%	9655	4.1%	9782	5%
45	A149	30	6495	5%	7373	5.2%	7693	7.6%	7679	5.2%	7755	6%
46	B1145 - Lyngate Road	43	5530	2%	6278	1.6%	6742	4.8%	6538	1.6%	6649	3%
47c	North Walsham Road - Edingthorpe Green	42	1949	1%	2213	0.8%	2415	8.4%	2304	0.8%	2341	2%
49	B1159	32	3469	2%	3938	1.8%	4152	6.2%	4101	1.8%	4135	3%
52	A149 - Wayford Road	45	12850	1%	14587	1.4%	14884	2.7%	15193	1.4%	15282	2%
53	A149	30	32034	3%	36365	3.0%	36999	4.7%	37874	3.0%	38155	4%
54	A149	30	25645	2%	29111	2.2%	29362	3.0%	30322	2.2%	30415	2%
55	A149	60	12096	1%	13730	1.4%	13982	3.1%	14302	1.4%	14395	2%
56	A149	30	8367	4%	9498	4.0%	9769	6.4%	9892	4.0%	9990	5%
57	A149	50	8517	6%	9668	5.6%	9940	7.9%	10070	5.6%	10166	6%
58	NDR - Link a	60	33175	5%	38600	3.9%	39087	5.0%	40925	3.9%	41162	4%
59	NDR - Link b	60	22033	5%	27104	3.9%	27577	5.5%	29278	3.9%	29509	5%
60	NDR - Link c	60	16950	5%	20018	3.9%	20419	5.4%	21333	3.9%	21450	4%
64	A12	30	9712	6%	11025	5.6%	11324	8.0%	11482	5.6%	11555	6%
65	A47	30	14661	2%	16643	2.0%	17282	5.6%	17334	2.0%	17657	4%

Table 1.2 Cumulative Data Traffic Flows

Link	Road	Speed MPH	2024 Cumulative Assessment					
			2017 Base		Scenario 2		2027 Cumulative Assessment Scenario 1	
			AADT	%HGV	AADT	%HGV	AADT	%HGV
1a	A47	70	17225	10%	20441	11.6%	20825	10.2%
1b	A47	70	17225	10%	20675	11.5%	20873	10.2%
2	A47	70	23875	9%	28163	9.4%	28778	8.7%
3	A47	70	47728	6%	55328	6.5%	57172	6.1%
4	A47	70	49150	5%	56650	5.0%	58677	4.6%
5	A47	70	43300	5%	46912	5.7%	47721	5.1%
6	A47	70	20524	6%	23903	8.5%	24550	7.3%
7	A47	70	13220	10%	15366	12.1%	15713	10.9%
8	A146	40	12313	5%	14414	7.4%	14748	5.9%
9	A47	50	33293	3%	38442	4.7%	39688	3.9%
10	A47	40	26961	2%	31244	4.3%	32201	3.2%
13a	A148	30	14351	6%	17428	9.2%	17757	7.7%
13b	A148	30	10729	5%	12983	8.2%	13195	6.3%
14	A148	30	11222	5%	13654	7.2%	13888	5.6%
16	B1110/B1146 - Holt Road	49	7344	1%	8689	3.7%	8774	1.8%
17	B1145 - Billingford Road	45	2803	2%	3502	7.9%	3387	3.5%
18	A1067	30	8021	7%	9651	10.1%	9776	8.2%
19	A148	50	11782	9%	14155	12.7%	14367	10.7%
21	B1147 - Etling Green (Hoe Road South)	47	1391	1%	1867	12.9%	1682	2.8%
22	B1147 - Dereham Road	39	2137	1%	2738	9.0%	2584	2.0%
24	A1067	60	9531	5%	11555	8.4%	11638	6.5%
29	A1067	60	11973	7%	14213	8.9%	14490	7.7%
30	A1067	50	10469	6%	12721	8.7%	12904	7.3%
32	B1149 - Norwich Road	40	4043	2%	5143	6.1%	5174	3.7%
33	B1149 - Holt Road	47	5274	3%	6766	6.2%	6782	4.5%
34	B1145 - west of Cawston	43	2648	1%	3763	7.5%	3700	4.9%
35a	B1159 - Cost Road	44	3236	1%	4064	8.0%	3944	3.3%
35b	B1159 - Cost Road	44	3236	1%	4000	7.4%	3944	3.3%
36	B1149 - Holt Road	45	7553	2%	9504	4.2%	9648	2.9%

Link	Road	Speed MPH	2024 Cumulative Assessment						2027 Cumulative Assessment	
			2017 Base		Scenario 2		Scenario 1			
			AADT	%HGV	AADT	%HGV	AADT	%HGV	AADT	%HGV
39	A140 - Hevingham	50	14400	4%	16042	4.9%	16092	4.4%		
40a	A140 - Roughton	30	9020	3%	10540	5.7%	10757	3.9%		
40b	A140 - Roughton	30	12159	4%	14701	5.7%	15132	5.8%		
41	B1436 - Felbrigg	36	6372	2%	8188	7.5%	8149	4.0%		
42	B1145 - Reepham Road	43	2265	1%	2881	7.1%	2758	2.2%		
44a	A149	30	8166	4%	9661	6.9%	9759	5.0%		
44b	A149	30	8166	4%	9690	6.6%	9782	4.9%		
45	A149	30	6495	5%	7693	7.6%	7755	6.0%		
46	B1145 - Lyngate Road	43	5530	2%	6742	4.8%	6649	2.6%		
47c	North Walsham Road - Edingthorpe Green	42	1949	1%	2415	8.4%	2341	2.1%		
49	B1159	32	3469	2%	4152	6.2%	4135	2.6%		
52	A149 - Wayford Road	45	12850	1%	14884	2.7%	15282	1.8%		
53	A149	30	32034	3%	36999	4.7%	38155	3.7%		
54	A149	30	25645	2%	29362	3.0%	30415	2.5%		
55	A149	60	12096	1%	13982	3.1%	14395	2.0%		
56	A149	30	8367	4%	9769	6.4%	9990	4.9%		
57	A149	50	8517	6%	9940	7.9%	10166	6.4%		
58	NDR - Link a	60	33175	5%	39742	5.0%	41817	4.5%		
59	NDR - Link b	60	22033	5%	28232	5.5%	30164	4.7%		
60	NDR - Link c	60	16950	5%	20799	5.4%	21830	4.4%		
64	A12	30	9712	6%	11324	8.0%	11555	6.2%		
65	A47	30	14661	2%	17282	5.6%	17657	3.8%		

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