



Dudgeon and Sheringham Shoal Offshore Wind Farm Extensions

Preliminary Environmental Information Report

Volume 3

Appendix 24.2 - Traffic Data

April 2021

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Glossary of Acronyms

AADT	Annual Average Daily Traffic
DEP	Dudgeon Extension Project
HDV	Heavy Duty Vehicle
SEP	Sheringham Shoal Extension Project

Glossary of Terms

The Applicant	Equinor New Energy Limited
The Dudgeon Offshore Wind Farm Extension Project (DEP)	The Dudgeon Offshore Wind Farm Extension site as well as all onshore and offshore infrastructure.
The Sheringham Shoal Offshore Wind Farm Extension Project (SEP)	The Sheringham Offshore Wind Farm Extension site as well as all onshore and offshore infrastructure.

24.2 AIR QUALITY TRAFFIC DATA

24.2.1 Introduction

1. The traffic data used in the air quality assessment were provided by Royal HaskoningDHV, the transport consultants for proposed Dudgeon Offshore Wind Farm Extension Project (hereafter DEP) and Sheringham Shoal Offshore Wind Farm Extension Project (hereafter SEP). The derivation of the traffic flows is detailed in **Chapter 26 Traffic and Transport**. The traffic data used for DEP and SEP are provided in **Table 24.2.1**.

Table 24.2.1: Air quality traffic data for DEP and SEP assessment.

Link	Road	Speed (mph)	2018 Base		2025 Without DEP and SEP		2025 With DEP and SEP	
			AADT	% HDV	AADT	% HDV	AADT	% HDV
1	A1078 Low Road / A148 Grimston Road	40	15,760	5.0%	17,776	5.0%	18,601	8.2%
2	A148 from A149 to A1065	30,60	7,676	7.6%	8,658	7.6%	9,085	9.8%
3	A148 from A1065 to A1067	30 - 60	14,399	6.0%	16,241	6.0%	16,661	7.3%
4	A148 from A1067 to B1149	30 - 60	8,449	5.3%	9,530	5.3%	9,917	6.9%
5	A148 from B1149 to Hamstead Road	30, 40	12,653	3.5%	14,272	3.5%	14,544	3.9%
6	A148 from Hemsetad Road to Bridge Road	40, 60	12,653	3.5%	14,272	3.5%	14,523	3.8%
7	Bridge Road	24.2	646	7.1%	827	7.6%	1,041	8.9%
8	The Street	24.2	646	7.1%	827	7.6%	1,032	7.7%
9	The Street	20, 60	3,210	1.5%	3,621	1.5%	3,865	2.3%
10	Holgate Hill / Holt Road	22.3	994	6.0%	1,273	6.4%	1,470	6.4%
11	A149 from Weybourne to Weybourne Road	30 - 60	4,453	5.6%	5,023	5.6%	5,259	6.0%
12	Station Road / Sandy Hill Lane / Gypsies' Lane	30.1	787	9.6%	1,008	10.3%	1,224	11.1%
13	A148 from Gypsie's Lane to B1436	30 - 60	13,389	8.4%	15,102	8.4%	15,374	8.7%

Link	Road	Speed (mph)	2018 Base		2025 Without DEP and SEP		2025 With DEP and SEP	
			AADT	% HDV	AADT	% HDV	AADT	% HDV
14	B1436 - Felbrigg	40	6,463	9.1%	7,290	9.1%	7,505	9.6%
15	A140 - Roughton	43.4	4,629	8.1%	5,929	8.7%	6,188	9.3%
16	A149 - North Walsham	30, 60	8,193	4.1%	9,241	4.1%	9,360	4.7%
17	A149 from B1145 to B1150	50	11,508	4.5%	12,980	4.5%	13,099	4.9%
18	A149 from B1150 to Kidas Way	60, 50	11,508	4.5%	12,980	4.5%	13,099	4.9%
19	A149 from Kidas Way to Honning Road	60	6,532	5.2%	7,368	5.2%	7,486	5.9%
20	A149 from B1159 to Station Road	50	8,553	5.6%	9,647	5.6%	9,766	6.2%
21	A149 from Station Road to A1064	30 - 60	10,245	4.2%	11,556	4.2%	11,674	4.7%
22	A149 from A1064 to Yarmouth Road	60	23,314	2.7%	26,297	2.7%	26,415	2.9%
23	A149 from Yarmouth Road to B1141	30	18,625	2.9%	21,008	2.9%	21,126	3.2%
24	A149 from B1141 to A47	30	32,109	3.0%	36,217	3.0%	36,725	4.2%
25	A12 from A47 to Williams Adams Way	50	33,177	3.2%	37,422	3.2%	37,856	3.7%
26	A12 from Williams Adams Way to B1385	40,50	24,136	3.4%	27,224	3.4%	27,643	4.2%

Link	Road	Speed (mph)	2018 Base		2025 Without DEP and SEP		2025 With DEP and SEP	
			AADT	% HDV	AADT	% HDV	AADT	% HDV
27	A12 from B1385 to A1117	40,50	16,832	2.7%	18,985	2.7%	19,224	3.9%
28	A12 from A1117 to Mill Road	30 - 60	8,962	6.7%	10,109	6.7%	10,348	8.8%
29	A12 from Mill Road to B1384 / A1145 from B1384 to A146	30 - 60	10,427	3.8%	11,761	3.8%	11,982	5.6%
30	A146 from A47 to A1145	40	17,678	4.4%	19,940	4.4%	20,409	5.3%
31	A47 from A146 to A1042	70	49,391	4.5%	55,710	4.5%	56,182	4.9%
32	A47 from A1042 to Cucumber Lane	70	41,151	4.5%	46,416	4.5%	47,027	5.3%
33	A47 from Cucumber Lane to A1064	70	41,151	4.5%	46,416	4.5%	47,017	5.3%
34	A47 from A1064 to A12	70	20,586	6.2%	23,220	6.2%	23,813	7.7%
35	A1270 from A1151 to A47	70	10,519	6.4%	11,865	6.4%	12,275	7.6%
36	A1151 from A1042 to A1270	30,50	15,493	3.6%	17,475	3.6%	17,475	3.6%
37	A149 from A1151 to B1159	50	13,034	9.3%	14,702	9.3%	14,787	9.6%
38	A149 from The Street to A1151	31.1	7,468	9.5%	9,137	12.0%	9,222	12.5%
39	A149 from Honing Road to The Street	31.1	7,468	9.5%	9,137	12.0%	9,222	12.5%

Link	Road	Speed (mph)	2018 Base		2025 Without DEP and SEP		2025 With DEP and SEP	
			AADT	% HDV	AADT	% HDV	AADT	% HDV
40	A1270 from B1150 to A1151	70	21,042	6.4%	23,734	6.4%	24,158	7.0%
41	A1270 from A140 to B1150	70	21,042	6.4%	23,734	6.4%	24,139	7.0%
42	A140 from B1149 to A1042	40, 60	17,308	4.0%	19,522	4.0%	19,826	3.9%
43	A140 from Cawston Road to A1270	50, 60	13,454	4.2%	15,175	4.2%	15,509	4.8%
44	A140 from B1145 to Cawston Road	50, 60	14,683	9.0%	16,561	9.0%	16,869	9.4%
45	A140 from B1145 to Aylsham Road	60	10,852	3.4%	12,240	3.4%	12,447	3.3%
46	A140 from Thorpe Market Road to Aylsham Road	40 - 60	10,852	3.4%	12,240	3.4%	12,447	3.3%
47	A1270 from Drayton Lane to A140	70	10,519	6.4%	11,865	6.4%	12,253	7.5%
48	Brewery Lane / B1149 from Brewrey Lane to Shorthorn Road	40 - 60	6,248	4.3%	7,047	4.3%	7,274	4.1%
49	B1149 from Buxton Road to Shorthorn Road	50	6,248	4.3%	7,047	4.3%	7,278	4.1%
50	Buxton Road	44.3	679	14.5%	750	14.3%	895	13.6%
51	B1149 from B1145 to Buxton Road	50	7,661	7.4%	8,642	7.4%	8,891	7.4%

Link	Road	Speed (mph)	2018 Base		2025 Without DEP and SEP		2025 With DEP and SEP	
			AADT	% HDV	AADT	% HDV	AADT	% HDV
52	B1145 from B1149 to A140	60	3,871	8.2%	4,366	8.2%	4,537	10.1%
53	B1145 from Old Friendship Lane to B1149	60	3,164	9.4%	3,569	9.4%	3,786	9.4%
54	B1149 from Spink's Lane to B1145	60	4,667	5.8%	5,264	5.8%	5,660	8.2%
55	Spink's Lane	24	98	8.9%	108	8.8%	292	3.3%
56	B1149 from B1354 to Spink's Lane	60	4,667	5.8%	5,264	5.8%	5,633	7.7%
57	B1354 east of B1149	35.9	4,177	8.3%	5,526	5.9%	5,726	6.0%
58	Unnamed Road	39.5	832	14.0%	1,101	10.0%	1,353	13.1%
59	B1149 from A148 to B1354	60	4,234	7.6%	4,776	7.6%	5,080	9.1%
60	Hempstead Road / The Street	23.5	1,388	13.7%	1,836	9.8%	1,894	10.5%
61	Church Lane / Unnamed Road	23.7	23	20.8%	31	14.9%	232	9.4%
62	Unnamed Road	38.7	815	11.5%	1,078	8.2%	1,280	8.3%
63	Unnamed Road	38.7	815	11.5%	1,078	8.2%	1,289	9.0%
64	Church Street / Cherry Tree Road	24.2	191	12.8%	252	9.1%	469	11.9%
65	Northfield Lane	36.9	167	12.8%	221	9.2%	431	10.7%

Link	Road	Speed (mph)	2018 Base		2025 Without DEP and SEP		2025 With DEP and SEP	
			AADT	% HDV	AADT	% HDV	AADT	% HDV
66	Plumstead Road	24.2	191	12.8%	252	9.1%	300	17.2%
67	Shorttorn Road	27.8	3,946	11.4%	4,357	11.3%	4,545	10.8%
68	The Street / Taverham Road	27.8	3,946	11.4%	4,357	11.3%	4,545	10.8%
69	Reepham Road	38	2,206	8.2%	2,436	8.1%	2,652	8.7%
70	Station Road	60	746	8.5%	842	8.5%	842	8.5%
71	Reepham Road	38	2,206	8.2%	2,436	8.1%	2,652	8.7%
72	A1270 from Reepham Road to Brewrey Lane	70	10,519	6.4%	11,865	6.4%	12,113	6.7%
73	A1270 from Fir Covert Road to Reepham Road	70	10,519	6.4%	11,865	6.4%	12,104	6.7%
74	Fir Covert Road	35.9	4,177	8.3%	4,612	8.2%	4,800	7.9%
75	Fir Covert Road	28.3	7,467	5.3%	8,245	5.3%	8,433	5.2%
76	A1067 from Beech Avenue to A140	30	12,190	2.9%	13,750	2.9%	13,959	2.8%
77	A1067 from A1270 to Fir Covert Road	32.8	5,721	7.0%	6,318	6.9%	6,390	6.8%
78	A1270 from A1067 to Fir Covert Road	70	10,519	6.4%	11,865	6.4%	12,107	6.7%
79	A1067 from Marl Hill Road to A1270	50	10,469	6.4%	11,808	6.4%	12,086	6.9%

Link	Road	Speed (mph)	2018 Base		2025 Without DEP and SEP		2025 With DEP and SEP	
			AADT	% HDV	AADT	% HDV	AADT	% HDV
80	A1067 from A148 to Marl Hill Road	30,60	7,153	5.9%	8,068	5.9%	8,319	6.4%
81	Marl Hill Road	23.8	2,393	9.6%	2,643	9.5%	2,867	10.1%
82	Ringland Lane / Morton Lane	35.2	311	11.3%	344	11.1%	551	11.3%
83	Church Street / Church Farm Close / Woodforde Close / Honingham Road / Paddy's Lane	23.8	2,393	9.6%	2,643	9.5%	2,864	9.9%
84	The Broadway / Unnamed Road	25.5	27	7.1%	30	7.1%	235	9.9%
85	Wood Lane	23.8	2,393	9.6%	2,643	9.5%	2,884	10.3%
86	A47 from A1065 to Berrys Lane	70	14,971	9.8%	16,886	9.8%	17,509	11.8%
87	A47 from A10 to A1065	50, 60	13,317	10.6%	15,021	10.6%	15,631	12.7%
88	A149 from A148 to A47	40	23,881	7.2%	26,936	7.2%	27,385	8.6%
89	A47 from Wood Lane to Taverham Road	70	24,019	8.6%	27,092	8.6%	27,717	9.8%
90	Taverham Road	60	195	6.1%	220	6.1%	423	7.5%
91	Blind Lane	26.9	116	27.7%	128	27.4%	128	27.4%
92	Unnamed Road	36.1	628	19.8%	694	19.6%	694	19.6%

Link	Road	Speed (mph)	2018 Base		2025 Without DEP and SEP		2025 With DEP and SEP	
			AADT	% HDV	AADT	% HDV	AADT	% HDV
93	Unnamed Road / Dereham Road	36.1	628	19.8%	694	19.6%	909	18.4%
94	A47 from Blind Lane to Dereham Road	70	24,019	8.6%	27,092	8.6%	27,711	9.7%
95	A47 from Dereham Road to A1074	70	47,956	6.0%	54,091	6.0%	54,706	6.6%
96	A1074 from A47 to A140	40	13,701	5.8%	15,454	5.8%	15,642	5.8%
97	A47 from A1074 to B1108	70	47,956	6.0%	54,091	6.0%	54,709	6.6%
98	B1108 from Landlow Lane to B1108	60	5,888	10.8%	6,641	10.8%	6,862	11.0%
99	Bow Hill	36.2	608	9.3%	796	7.6%	956	7.6%
100	A148 from Bridge Road to Gypsie's Lane	60	12,653	3.5%	14,272	3.5%	14,513	3.8%
101	Church Road / Bow Hill	36.2	608	9.3%	796	7.6%	956	7.6%
102	Unnamed Roads	19.9	171	16.5%	219	17.7%	430	15.2%
103	Chapel Street	34.4	831	11.7%	1,088	9.6%	1,284	9.1%
104	B1108 west of Bow Hill	60	5,286	3.3%	5,962	3.3%	6,171	3.6%
105	A47 from B1108 to A11	70	47,956	6.0%	54,091	6.0%	54,705	6.6%
106	B1172 from Ketteringham Lane to A47	30	14,369	5.7%	16,208	5.7%	16,443	5.9%

Link	Road	Speed (mph)	2018 Base		2025 Without DEP and SEP		2025 With DEP and SEP	
			AADT	% HDV	AADT	% HDV	AADT	% HDV
107	B1172 from New Road to Ketteringham Lane	30	14,369	5.7%	16,208	5.7%	16,435	5.9%
108	New Road	30	3,157	2.9%	3,561	2.9%	3,586	3.5%
109	Hethersett Road	41.8	609	5.1%	798	4.2%	822	7.1%
110	Melton Road / High Green	41.8	609	5.1%	798	4.2%	1,006	5.8%
111	B1135 from Melton Road to Norwich Common	34.1	8,599	10.4%	11,265	8.6%	11,282	8.5%
112	B1172 from B1135 to New Road	44.3	8,899	7.8%	11,657	6.4%	11,868	6.5%
113	B1135 from B1172 to A11	28.9	15,286	7.7%	20,025	6.3%	20,257	6.5%
114	A11 from B1135 to A47	70	47,815	7.0%	53,932	7.0%	54,193	7.0%
115	Ketteringham Lane	34.7	494	9.4%	647	7.7%	735	6.8%
116	Ketteringham Lane	34.7	494	9.4%	647	7.7%	838	6.8%
117	Low Street	33.4	817	8.3%	1,070	6.8%	1,280	7.7%
118	Station Lane	41	1,439	12.1%	1,886	9.9%	2,129	11.0%
119	Hethersett Road	41	1,439	12.1%	1,886	9.9%	2,103	9.9%
120	Cantley Lane / Cantley Lane South	60	1,068	3.2%	1,205	3.2%	1,205	3.2%
121	A11 from A47 to A140	50	19,305	6.2%	21,775	6.2%	21,967	6.2%
122	A47 from A11 to A140	70	59,081	5.4%	66,640	5.4%	67,231	5.9%

Link	Road	Speed (mph)	2018 Base		2025 Without DEP and SEP		2025 With DEP and SEP	
			AADT	% HDV	AADT	% HDV	AADT	% HDV
123	B1113 south of the A47	30, 60	8,258	6.9%	9,314	6.9%	9,529	7.0%
124	B1113 from A47 to A140	60	7,911	6.5%	8,923	6.5%	9,138	6.7%
125	A140 from A146 to A47	60	21,294	4.4%	24,018	4.4%	24,341	4.5%
126	Aylsham Road	30	4,667	5.8%	5,264	5.8%	5,596	7.7%
127	A140 south of the A47	40	20,667	13.0%	23,311	13.0%	24,132	14.0%
128	Mangreen/Mangreen Lane	60	295	3.7%	333	3.7%	1,151	31.5%
129	A47 from A140 to A146	70	9,051	7.8%	10,209	7.8%	10,723	9.5%
130	Unnamed road, west of its junction with The Street	66	151	7.7%	166	7.7%	366	7.6%
131	The Street	60	1,818	2.8%	2,051	2.8%	2,261	3.7%
132	Buxton Road / Easton Way	40	904	9.2%	1,020	9.2%	1,090	11.4%
133	Porter's Lane / Hall Road	60	1,015	23.3%	1,145	23.3%	1,227	22.8%
134	Grove Lane / Unnamed road	33.1	132	10.3%	173	8.4%	185	7.9%
135	Reepham Road from its junction with Hall Road to junction with unnamed road.	33.1	132	10.3%	173	8.4%	185	7.9%

Link	Road	Speed (mph)	2018 Base		2025 Without DEP and SEP		2025 With DEP and SEP	
			AADT	% HDV	AADT	% HDV	AADT	% HDV
136	Reepham Road from its junction with Hall Road to junction with Station Road	60	1,015	23.3%	1,145	23.3%	1,196	23.4%
137	Unnamed Road, east of its junction with Grove Lane	40	904	9.2%	1,020	9.2%	1,217	8.8%
138	Broad Lane / The Street	30, 60	266	3.7%	301	3.7%	507	6.6%
139	Unnamed road	30, 60	266	3.7%	301	3.7%	334	3.3%
140	Unnamed Road	60	266	3.7%	301	3.7%	502	5.6%
141	A1082 Holway Road	50	8,292	2.0%	9,352	2.0%	9,393	2.2%
142	Clay Lane	33.1	132	10.3%	146	10.2%	352	10.6%
143	Old Fakenham Road	60	1,498	1.6%	1,689	1.6%	1,727	2.9%
144	Ringland Lane	35.2	311	11.3%	408	9.2%	604	8.2%
145	Rectory Road	29.3	326	9.6%	360	9.5%	360	9.5%
146	Breck Road / Unnamed Road	38.9	3,047	19.9%	3,991	16.3%	4,027	16.2%
147	Breck Road / Weston Green Road	29.1	60	8.1%	67	8.0%	147	16.2%
148	Weston Road	29.1	60	8.1%	67	8.0%	269	8.8%
149	Unnamed road	29.1	60	8.1%	67	8.0%	67	8.0%
150	Unnamed Road	29.3	326	9.6%	360	9.5%	401	8.5%

Link	Road	Speed (mph)	2018 Base		2025 Without DEP and SEP		2025 With DEP and SEP	
			AADT	% HDV	AADT	% HDV	AADT	% HDV
151	Hall Road	41.8	609	5.1%	672	5.1%	762	4.5%
152	Burdock Lane / Landlow Lane	60	5,286	3.3%	5,962	3.3%	6,169	3.6%
153	Rectory Road / Catbridge Lane	41	1,439	12.1%	1,589	12.0%	1,707	12.4%
154	Intwood Lane	41	1,439	12.1%	1,589	12.0%	1,795	11.8%
155	Unnamed Road	29.3	326	9.6%	360	9.5%	360	9.5%
156	Imingland Road / Spa Lane	25.8	27	3.6%	30	3.5%	229	6.6%