

Offshore Wind Farm

ENVIRONMENTAL STATEMENT

Appendix 28.1 Health Baseline Statistics

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Glossary of Acronyms

COPD	Chronic Obstructive Pulmonary Disease
DfT	Department for Transport
LSOA	Lower Level Super Output Area
LTLA	Lower Tier Local Authority
MSOA	Middle Level Super Output Area
OHID	Office for Health Improvements and Disparities
ONS	Office for National Statistics
PHE	Public Health England
UTLA	Upper Tier Local Authority

Glossary of Terminology

Landfall	The location where the offshore export cables come ashore at Kirby Brook.
Onshore cable route	Onshore route within which the onshore export cables and associated infrastructure would be located.
Onshore project area	The boundary within which all onshore infrastructure required for the Project will be located (i.e. landfall; onshore cable route, accesses, construction compounds; onshore substation and cables to the National Grid substation).
Onshore substation	A compound containing electrical equipment required to transform and stabilise electricity generated by the Project so that it can be connected to the National Grid.
The Applicant	North Falls Offshore Wind Farm Limited (NFOW).
The Project Or 'North Falls'	North Falls Offshore Wind Farm, including all onshore and offshore infrastructure.

1 Introduction

- 1. This appendix presents the baseline statistics that were used in the health assessment detailed in ES Chapter 28 Human Health (Document Reference: 3.1.30) for North Falls Offshore Wind Farm (hereafter 'North Falls' or 'the Project').
- 2. Baseline health statistics were taken from the following sources:
 - Local Health Indicators: maps, data and charts for wards, lower tier local authority (LTLA) and upper tier local authority (UTLA) (Office for Health Improvement and Disparities (OHID), 2022);
 - Wider Determinants of Health (OHID, 2024a) and Public Health Outcomes Framework (OHID, 2024b);
 - Office of National Statistics (ONS) (ONS, 2011; 2020; 2021); and
 - Department for Transport (DfT) (2021).
- 3. Table 2.1, Table 2.2 and Table 2.3 provide the baseline health statistics used in the assessment presented in ES Chapter 28 Human Health (Document Reference: 3.1.30).

2 Statistics

Table 2.1 Baseline census-related statistics (Nomis, 2021) unless otherwise stated (i.e. where more recent data are available)

	Si	te-Specific (ward	ds)	Local	Regional	National	
Population Group	Near Landfall (Thorpe, Beaumont & Great Holland)	Near Onshore Cable Route (Weeley & Tendring)	Near Onshore Substation (Alresford & Elmstead)	Tendring	Essex	England	Unit
Usual resident population							
Population density	85.4	151.8	167.1	440.9	434.7	433.5	people per km ²
Age structure							
Population aged 0 to 4 years*	4.6	3.5	3.4	4.5	5.5	5.4	%
Population aged 5 to 14 years*	10.8	9.2	9.8	11.3	13.0	13.1	%
Population aged 15 to 24 years*	9.4	9.3	10.0	8.3	9.4	10.6	%
Population aged 25 to 64 years*	43.6	51.4	53.0	46.5	51.5	52.4	%
Population aged 65 years and over*	31.8	26.5	23.7	29.5	20.7	18.3	%
Heath and provision of unpaid care							
Day-to-day activities not limited	80.6	80.0	80.9	75.9	83.3	82.7	%
Day-to-day activities limited a little	11.3	11.4	10.7	13.0	9.9	10.0	%
Day-to-day activities limited a lot	8.1	8.6	8.4	11.1	6.8	7.3	%
People reporting their health is very good or good	80.0	79.9	81.3	75.0	82.9	82.2	%
Proportion reporting fair health	14.1	14.5	13.4	17.2	12.4	12.7	%

	Si	te-Specific (ward	ds)	Local	Regional	National	
Population Group	Near Landfall (Thorpe, Beaumont & Great Holland)	Near Onshore Cable Route (Weeley & Tendring)	Near Onshore Substation (Alresford & Elmstead)	Tendring	Essex	England	Unit
Proportion of people reporting bad or very bad health	5.8	5.5	5.4	7.8	4.7	5.2	%
Provides no unpaid care	89.6	88.8	89.8	88.9	91.2	91.2	%
Provides 19 hours or less unpaid care a week	5.0	5.6	5,0	4.7	4.5	4.3	%
Provides 20 to 49 hours unpaid care a week	2.3	2.4	1.9	2.3	1.6	1.8	%
Provides 50 or more hours unpaid care a week	3.1	3.3	3.3	4.1	2.6	2.6	%
Households by deprivation dimensions**							
Household is not deprived in any dimension	47.7	49.6	45.5	38.3	49.0	48.4	%
Household is deprived in one dimension	36.4	35.9	35.0	37.7	34.1	33.5	%
Household is deprived in two dimensions	13.1	12.4	15.5	18.9	13.6	14.2	%
Household is deprived in three dimensions	2.5	2.1	3.6	4.7	3.1	3.7	%
Household is deprived in four dimensions	0.3	0.0	0.4	0.4	0.2	0.2	%
Economic activity							
Unemployment (2021 to 2022) (OHID, 2022)	3.7	4	2.5	6	4.1	5	%
Long term unemployment (2021 to 2022) (OHID, 2022)	3.7	4	2.5	2.6	1.3	1.9	Crude rate per 1,000
Car or van availability							

	Si	te-Specific (ward	ds)	Local	Regional	National	
Population Group	Near Landfall Near (Thorpe, Onshore Beaumont & Cable Route Great (Weeley & Holland) Tendring)		Near Onshore Substation (Alresford & Elmstead)	Tendring	Essex	England	Unit
Households have a vehicle	90.8	89.8	91.3	79.9	84.1	76.5	%
Average distance travelled to work (Census, 2011)	22.0	28.3	21.6	19.5	18.7	14.9	km
Minimum journey time to 8 key services (medium sized centres of employment (500-4999 jobs), primary schools, secondary schools, further education, GPs, hospitals, food stores and town centres) by walking (DfT, 2021)	N/A	N/A	N/A	38	34	28	minutes
Minimum journey time to 8 key services (medium sized centres of employment (500-4999 jobs), primary schools, secondary schools, further education, GPs, hospitals, food stores and town centres) by bicycle (DfT, 2021)	N/A	N/A	N/A	25	18	16	minutes
Minimum journey time to 8 key services (medium sized centres of employment (500-4999 jobs), primary schools, secondary schools, further education, GPs, hospitals, food stores and town centres) by car (DfT, 2021)	N/A	N/A	N/A	12	11	10	minutes
Minimum journey time to 8 key services (medium sized centres of employment (500-4999 jobs), primary schools, secondary schools, further education, GPs, hospitals, food stores and town centres) by public transport or walking (DfT, 2021)	N/A	N/A	N/A	21	20	18	minutes
Travel time to nearest GP by walk (DfT, 2021)*	37	51	19	22	20	18	minutes

	Si	te-Specific (ward	is)	Local	Regional	National	
Population Group	Near Landfall (Thorpe, Beaumont & Great Holland)	Near Onshore Cable Route (Weeley & Tendring)	Near Onshore Substation (Alresford & Elmstead)	Tendring	Essex	England	Unit
Travel time to nearest GP by cycle (DfT, 2021)*	17	20	11	12	12	11	minutes
Travel time to nearest GP by car (DfT, 2021)*	11	11	8	9	9	8	minutes
Travel time to nearest GP by public transport/walk (DfT, 2021)*	16	18	12	14	14	13	minutes
Travel time to nearest hospital by walk (DfT, 2021)*	120	120	103	119	96	75	minutes
Travel time to nearest hospital by cycle (DfT, 2021)*	108	68	40	97	52	37	minutes
Travel time to nearest hospital by car (DfT, 2021)*	35	25	21	32	24	20	minutes
Travel time to nearest hospital by public transport/walk (DfT, 2021)*	64	65	53	63	48	41	minutes
Highest level of qualification							
No qualification	20.3	24.1	19.1	26.2	18.9	18.1	%
Level 1 qualification	10.7	11.7	12.0	12.9	11.7	9.7	%
Level 2 qualification	15.7	15.4	15.5	15.3	15.8	13.3	%
Apprenticeship	7.6	7.7	7.7	6.8	5.6	5.3	%
Level 3 qualification	16.9	16.6	18.4	15.6	17.4	16.9	%
Level 4 qualification and above	26.2	22.0	24.8	19.9	27.9	33.9	%
Other qualifications	2.7	2.5	2.5	3.3	2.8	2.8	%

	Site-Specific (wards)						
Population Group	Near Landfall (Thorpe, Beaumont & Great Holland)	Near Onshore Cable Route (Weeley & Tendring)	Near Onshore Substation (Alresford & Elmstead)	Tendring	Essex	England	Unit

^{*}Only lower level super output area (LSOA) statistics were available at the site-specific levels (i.e. ward statistics were not available). Near landfall (LSOA: Tendring 008G), near onshore cable route (LSOA: Tendring 003E) and near onshore substation (LSOA: Tendring 005C).

^{** &#}x27;Households by deprivation dimensions' has replaced the 2011 census statistic for 'Adults not in employment and dependent children and persons with long-term health problems or disabilities for all households'. The dimensions of deprivation used to classify households are indicators based on four selected household characteristics: 1. Education: A household is classified as deprived in the education dimension if no one has at least level 2 education and no one aged 16 to 18 years is a full-time student; 2. Employment: A household is classified as deprived in the employment dimension if any member, not a full-time student, is either unemployed or economically inactive due to long-term sickness or disability; 3. Health: A household is classified as deprived in the health dimension if any person in the household has general health that is bad or very bad or is identified as disabled. People who have assessed their day-to-day activities as limited by long-term physical or mental health conditions or illnesses are considered disabled. This definition of a disabled person meets the harmonised standard for measuring disability and is in line with the Equality Act (2010); and 4. Housing: A household is classified as deprived in the household's accommodation is either overcrowded, in a shared dwelling, or has no central heating.

Table 2.2 Site-specific, local, regional and national wider determinants of health (OHID, 2022; 2024a)

		Sit	e-Specific (Wa	rds)	Local	Regional	National	
Factor	Period	Near Landfall (Thorpe, Beaumont & Great Holland)	Near Onshore Cable Route (Weeley & Tendring)	Near Onshore Substation (Alresford & Elmstead)	Tendring	Essex	England	Unit
Health of children								
Child Poverty, Income Deprivation Affecting Children	2019 IMD	19.4	11.5	7.2	25.0	14.4	17.1	%
Reception: Prevalence of obesity (including severe obesity)	3-years data (2020 to 2023)	12.5	15.4	8.3	12.3	8.3	9.7	%
Reception: Prevalence of overweight (including obesity)	3-years data (2020 to 2023)	25.0	30.8	22.2	24.9	20.5	21.3	%
Year 6: Prevalence of obesity (including severe obesity)	3-years data (2020 to 2023)	18.8	23.1	17.9	23.7	20.2	22.5	%
Year 6: Prevalence of overweight (including obesity)	3-years data (2020 to 2023)	31.3	38.5	33.3	39.4	34.2	36.6	%
Smoking prevalence at 15 years, Regular	2014	6	4.3	8.2	6.0	6.1	5.4	%
Teenage mothers	2021/22	N/A	N/A	N/A	N/A	0.4	0.6	%
Emergency admissions in children under 5 years old	2016 to 2021	147.6	170.6	264.4	198.3	107.2	140.7	Crude rate per 1,000
Emergency hospital admissions for injuries in under 15 years old	2016 to 2021	92.1	117.9	67.3	91.5	77.1	92	Crude rate per 10,000
Health of adults								

		Sit	e-Specific (Waı	rds)	Local	Regional	National	
Factor	Period	Near Landfall (Thorpe, Beaumont & Great Holland)	Near Onshore Cable Route (Weeley & Tendring)	Near Onshore Substation (Alresford & Elmstead)	Tendring	Essex	England	Unit
Life expectancy at birth for males	2016 to 2020 (wards) & 2020-22	76.4	77.8	79.7	77.6	79.8	78.9	Years
Life expectancy at birth for females	2016 to 2020 (wards) & 2020-22	83.6	81.2	82.0	81.9	83.5	82.8	Years
Emergency hospital admissions for all causes	2016 to 2021	84.5	95.9	87.0	98.7	94	100	SAR
Emergency hospital admissions for coronary heart disease	2016 to 2021	92.1	105.8	93.0	111.7	92.7	100	SAR
Emergency hospital admissions for stroke	2016 to 2021	96.5	87.9	69.9	98.9	91.9	100	SAR
Emergency hospital admissions for Myocardial Infarction (heart attack)	2016 to 2021	74.5	65.9	92.8	97.2	85.5	100	SAR
Emergency hospital admissions for Chronic Obstructive Pulmonary Disease (COPD)	2016 to 2021	106.7	77	78.0	109.4	84.6	100	SAR
Emergency hospital admissions for hip fractures, persons aged 65 years and over	2016 to 2021	100.2	96	119.1	108.0	103.2	100	SAR
Emergency hospital admissions for intentional self harm	2016 to 2021	76.6	99.6	74.2	136.8	83	100	SAR
Limiting long-term illness or disability	2011	20	24	19.9	25.5	17.1	17.6	Standardised mortality ratio (SMR)

			e-Specific (Waı	rds)	Local	Regional	National		
Factor	Period	Near Landfall (Thorpe, Beaumont & Great Holland)	Near Onshore Cable Route (Weeley & Tendring)	Near Onshore Substation (Alresford & Elmstead)	Tendring	Essex	England	Unit	
Deaths from all causes, all ages	2016 to 2020	97.3	119.4	101.4	108.1	98	100	SMR	
Deaths from all cancer, all ages	2016 to 2020	107.3	93.7	86.4	108.2	99.5	100	SMR	
Deaths from circulatory disease, all ages	2016 to 2020	84	97.5	90.5	104.6	93.5	100	SMR	
Deaths from coronary heart disease, all ages	2016 to 2020	54.2	90	62.0	103.5	90.9	100	SMR	
Deaths from stroke, all ages	2016 to 2020	100.1	130	98.0	90.4	87.2	100	SMR	
Deaths from respiratory diseases, all ages	2016 to 2020	90.1	137.1	116.2	116.9	98.3	100	SMR	
Health of older adults									
Older People in poverty, Income deprivation affecting older people	2019 IMD	10.9	13.1	8.6	15.0	11.3	14.2	%	
Households in fuel poverty	2020	17.3	16.6	13.5	16.5	12.4	13.2	%	
Overcrowded houses	2011	2.5	5.1	2.4	5.1	5.9	8.7	%	
Older people living alone	2011	26.1	25.6	22.9	31.0	29.9	31.5	%	

Table 2.3 Local, regional and national wider determinants of health (OHID, 2022; 2024a; 2024b)

Indicator		Local	Regional	National	11.26		
		Tendring	Essex	England	Unit		
Natural and Build Environment: Transport							
Percentage of adults walking for travel at least three times per week		8.7	13.8	15.1	%		
Percentage of adults cycling for travel at least three times per week	2019/20	0.5	2.4	2.3	%		
Killed and seriously injured casualties on England's roads		N/A	78.3	94.5*	Crude rate, per billion vehicle miles		
Percentage of physically active children and young people	2022/23	49.7	49.7	47.0	%		
Percentage of physically active adults		63.5	67.7	67.3	%		
Natural and Build Environment: Neighbourhood design							
The rate of complaints about noise	2020/21	3.7*	6.7*	12.0*	Crude rate per 1,000		
Number of premises licensed to sell alcohol per square kilometre	2021/22	1.6	1.2**	1.3**	Crude rate per 1,000		
Density of fast food outlets		95.8	73.3	88.2	Crude rate per 100,000		
Natural and Build Environment: Natural and sustainable environments							
Access to Healthy Assets & Hazards Index	2017	26.8	20.9	21.1	%		
Air pollution: fine particulate matter (new method - concentrations of total PM _{2.5})	2021	6.9	7.4	7.4	μg/m³		
Air pollution: fine particulate matter (historic indicator)	2020	6.9	7.2	6.9	μg/m³		
Fraction of mortality attributable to particulate air pollution (new method)	2022	5.5	6.3	5.8	%		
Natural and Build Environment: Housing							
Overcrowded households		2.7	3.6	4.8	%		
Affordability of home ownership	2021	8.7	10.1	9.1	Ratio		
Winter mortality index	Aug 2021 - Jul 2022	7.9	3.4	8.1	%		

Indicator		Local Tendring	Regional Essex	National England	Unit
Emergency hospital admissions due to falls in people aged 65 and over		1,942	2,063	2,100	Directly standardised rate, per 100,000
Work and labour market					
Percentage of people in employment	2022/23	68.0	77.6	75.7	%
Gap in the employment rate between those with a physical or mental long term health condition (aged 16 to 64) and the overall employment rate	2022/23	13.8	12.0	10.4	Gap percentage points (lower the better)
The percentage of the population with a physical or mental long term health condition in employment (aged 16 to 64)	2022/23	54.2	65.6	65.3	%
Unemployment (model-based)		4.8	3.8	4.5	%
Long term claimants of Jobseeker's Allowance		3.2	1.4	2.1	Crude rate per 1,000
Economic inactivity rate		34.4	19.2	21.2	%
Employment and Support Allowance claimants		8.5	4.5	5.4	%
Job density	2020	0.65	0.85	0.85	Ratio (higher the better)
Sickness absence - the percentage of employees who had at least one day off in the previous week		1.3	1.7	1.8	%
Sickness absence - the percentage of working days lost due to sickness absence	2019 - 21	0.9	0.9	1.0	%
Vulnerability					
Homelessness - households owed a duty under the Homelessness Reduction Act	2022/23	12.1	8.8**	12.4	Crude rate per 1,000
Homelessness - households with dependent children owed a duty under the Homelessness Reduction Act	2021/22	20.1	12.2**	14.4	Crude rate per 1,000
Homelessness - households owed a duty under the Homelessness Reduction Act (main applicant 16-24 yrs)		2.6	1.9**	2.4	Crude rate per 1,000
Homelessness - households owed a duty under the Homelessness Reduction Act (main applicant 55+ yrs)		2.4	2.1**	2.8	Crude rate per 1,000
Homelessness - households in temporary accommodation	2022/23	2.0	3.0**	4.2	Crude rate per 1,000

Indicator	Period	Local Tendring	Regional Essex	National England	Unit
Children providing unpaid care (aged 0-15)		1.3	1.1**	1.1	%
Young people providing unpaid care (aged 16-24)	2011	5.3	4.4**	4.8	%
Young people providing 20+ hours/week of unpaid care (aged 16-24)	2011	1.7	1.1**	1.3	%
Unpaid carers	2011	3.5	2.2	2.4	%
Income					
Children in absolute low income families (under 16s)	2021/22	13.1	9.6	15.3	%
Children in relative low income families (under 16s)		17.7	12.9	19.9	%
Fuel poverty (low income, low energy efficiency methodology)		17.1	11.4	13.1	%
Average weekly earnings		451.4	505.0	496.0	£
Gender pay gap (by workplace location)		18.6	14.1	16.6	%
Crime					
Re-offending levels - percentage of offenders who re-offend	2020/21	23.1	22.6	24.1	%
Re-offending levels - average number of re-offences per re-offender	2020/21	3.3	3.6	3.6	Crude rate, per re- offender
Violent crime - hospital admissions for violence (including sexual violence)		31.5	32.7	41.9	Directly standardised rate, per 100,000
Violent crime - violence offences per 1,000 population		42.2	35.3	34.4	Crude rate per 1,000
Violent crime - sexual offences per 1,000 population		3.7	3.1	3.0	Crude rate per 1,000
Crime deprivation: score		0.21	-0.07	0.01	Score (lower the better)
Education					

Indicator		Local Tendring	Regional Essex	National England	Unit
Average Attainment 8 score		42.4	48.2	48.7	Score (higher the better)
Average Attainment 8 score among children eligible for Free School Meals		35.1	37.4	39.1	Score (higher the better)
Pupil absence	2021/22	9.6	7.7	7.6	%
Children with Autism known to schools	2020	-	18.9	18.0	Crude rate per 1,000
Health outcomes					
Life expectancy at birth (Female)	2020 - 22	81.9	83.5	82.8	Years
Life expectancy at birth (Male)		77.6	79.8	78.9	Years
Inequality in life expectancy at birth (Female)	2018 - 20	7.7	6.2	7.9	Slope index of inequality (years, lower the better)
Inequality in life expectancy at birth (Male)		9.3	7.9	9.7	Slope index of inequality (years, lower the better)
Percentage of adults (aged 18+) classified as overweight or obese		64.5	65.3	63.8	%
Mortality rate from causes considered preventable (2016 definition)		212.1	160.4	180.8	Directly standardised rate, per 100,000
Under 75 mortality rate from causes considered preventable (1 year range)		183.6	128.0	153.7	Directly standardised rate, per 100,000
Under 75 mortality rate from all cardiovascular/circulatory diseases (3 year range)		84.5	65.3	76.0	Directly standardised rate, per 100,000
Under 75 mortality rate from all cardiovascular/circulatory diseases (1 year range)		83.5	68.8	77.8	Directly standardised rate, per 100,000
Under 75 mortality rate from cancer (3 year range)		138	118.7	123.2	Directly standardised rate, per 100,000
Under 75 mortality rate from cancer (1 year range)		145.9	117.7	122.4	Directly standardised rate, per 100,000

Indicator	Period	Local Tendring	Regional Essex	National England	Unit
Under 75 mortality rate from liver disease (3 year range)	2020 - 22	24.6	16.9	21.1	Directly standardised rate, per 100,000
Under 75 mortality rate from liver disease (1 year range)		21.0	16.6	21.4	Directly standardised rate, per 100,000
Under 75 mortality rate from respiratory disease (3 year range)		37.6	25.0	28.9	Directly standardised rate, per 100,000
Under 75 mortality rate from respiratory disease (1 year range)		44.7	27.0	30.7	Directly standardised rate, per 100,000
Health related quality of life for older people	2016/17	0.71	0.75	0.74	Score (higher the better)

^{*}Value is modelled or synthetic estimate

^{**}Aggregated from all known lower geography values

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HARNESSING THE POWER OF NORTH SEA WIND

North Falls Offshore Wind Farm Limited

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To contact please email contact@northfallsoffshore.com

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