REPORT

Boston Alternative Energy Facility – Environmental Statement

Appendix 22.1 Health Baseline Statistics

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Classification
Project Related

Appendix 22.1: Health Baseline Statistics

Table A22.1-1 Baseline Census Statistics (ONS, 2013)

Population group	Site-specific (Boston 009A)		Local (Boston District)		Regional (East Midlands)		National (England)	
	No.	%	No.	%	No.	%	No.	%
KS101EW – Usual resident populations								
All usual residents	2,617	100%	64,637	100%	4,533,222	100%	53,012,456	100%
Area (Hectares)	276.4	-	36,154	-	1,560,642	-	13,027,843	-
Density (number of persons per hectare)	9.5	-	1.8	-	2.9	-	4.1	-
QS418EW – Dwellings								
Number of dwellings	1,043	100%	28,345	100%	1,971,514	100%	22,976,066	100%
Urban	-	-	18,245	64%	1,442,768	73%	18,817,017	82%
Rural	-	-	10,100	36%	528,746	27%	4,159,049	18%
KS102EW - Age structure								
Age 0 to 15 – children and young people	531	20%	11,362	18%	838,455	18%	10,022,836	19%
Aged 16 to 64 – working age people	1,605	61%	40,533	63%	2,921,819	64%	34,329,091	65%
Aged 65 and over – older people	481	18%	12,826	20%	772,948	17%	8,660,529	16%
Population aged under 16 (mid-2018 population estimate for site-specific only, mid-2019 estimates for local, regional and national) (ONS, 2019; 2020)	657	22%	13,515	19%	900,418	19%	10,816,679	19%
Population aged 16 to 64 (mid-2018 population estimate for site-specific only, mid-2019 estimates for local, regional and national) (ONS, 2019; 2020)	1,806	60%	41,970	60%	2,991,418	62%	35,116,566	62%
Population aged over 65 (mid-2018 population estimate for site-specific only, mid-2019 estimates for local, regional and national) (ONS, 2019; 2020)	543	18%	14,688	21%	944,092	20%	10,353,716	18%

Population group	Site-specific (Boston 009A)		Local (Boston District)		Regional (East Midlands)		National (England)	
	No.	%	No.	%	No.	%	No.	%
KS301EW - Health and provision of unpaid care								
Day-to-day activities not limited	2,145	82%	51,597	80%	3,688,925	81%	43,659,870	82%
Day-to-day activities limited a little	203	8%	6,841	11%	451,055	10%	4,947,192	9%
Day-to-day activities limited a lot	269	10%	6,199	10%	393,242	9%	4,405,394	8%
Very good health	1238	47%	26,298	41%	2,053,334	45%	25,005,712	47%
Good health	920	35%	24,225	37%	1,593,206	35%	18,141,457	34%
Fair health	305	12%	10,252	16%	634,414	14%	6,954,092	13%
Bad health	112	4%	3,058	5%	196,010	4%	2,250,446	4%
Very bad health	42	2%	804	1%	56,258	1%	660,749	1%
Provides no unpaid care	2384	91%	58,007	90%	4,042,973	89%	47,582,440	90%
Provides 1 to 19 hours unpaid care a week	144	6%	3,926	6%	311,813	7%	3,452,636	7%
Provides 20 to 49 hours unpaid care a week	28	1%	937	1%	63,603	1%	721,143	1%
Provides 50 or more hours unpaid care a week	61	2%	1,767	3%	114,833	3%	1,256,237	2%
KS106EW - Adults not in employment and dependent children and persons with long-term health problems or disability for all households								
Count of household	1,007	100%	27,291	100%	1,895,604	100%	22,063,368	100%
No adults in employment in household	257	26%	9,863	36%	641,955	34%	7,348,649	33%
Dependent children in household: All ages	344	34%	7,565	28%	544,785	29%	6,425,647	29%
One person in household with a long-term health problem or disability	220	22%	7,468	27%	496,598	26%	5,659,606	26%
QS119EW - Households by deprivation dimensions								
Household is not deprived in any dimension	428	43%	9,193	34%	811,134	43%	9,385,648	43%
Household is deprived in 1 dimension	381	38%	9,922	36%	614,226	32%	7,204,181	33%

Population group	Site-specific (Boston 009A)		Local (Boston District)		Regional (East Midlands)		National (England)	
	No.	%	No.	%	No.	%	No.	%
Household is deprived in 2 dimensions	167	17%	6,459	24%	372,252	20%	4,223,982	19%
Household is deprived in 3 dimensions	27	3%	1,565	6%	90,406	5%	1,133,622	5%
Household is deprived in 4 dimensions	4	0%	152	1%	7,586	0%	115,935	1%
QS416EW – car or van availability								
No cars or vans in household	104	10%	5,667	21%	418,999	22%	5,691,251	26%
One or more cars or vans in household	903	90%	21,624	79%	1,476,605	78%	5,441,593	74%
QS702EW - Distance travelled to work								
Average distance travelled to work (km)	12.1	-	13.4	-	15.4	-	14.9	-
Work mainly at or from home	102	4%	2,831	4%	215,773	5%	2,581,832	9%
QS601EW - Economic activity								
Economically active: Total	1,404	77%	33,031	70%	2,312,030	69%	27,183,134	70%
Economically inactive: Total	418	23%	14,275	30%	1,024,502	31%	11,698,240	30%
Economically inactive: Retired	233	13%	7,842	17%	498,882	15%	5,320,691	14%
Economically inactive: Looking after home or family	61	3%	1,838	4%	133,601	4%	1,695,134	4%
Economically inactive: Long-term sick or disabled	60	3%	2,083	4%	135,264	4%	1,574,134	4%
QS501EW - Highest level of qualification								
No qualifications	562	27%	17421	33%	914014	25%	9,656,810	27%
Level 1 qualifications	323	15%	7705	14%	512492	14%	5,714,441	16%
Level 2 qualifications	347	17%	8126	15%	575351	16%	6,544,614	19%
Apprenticeship	75	4%	1745	3%	149078	4%	1,532,934	4%
Level 3 qualifications	210	10%	4954	9%	477203	13%	5,309,631	15%
Level 4 qualifications and above	363	17%	8060	15%	871702	24%	11,769,361	33%
Other qualifications	206	10%	5264	10%	194927	5%	2,461,829	7%
QS613EW - Approximated social grade								

Population group	Site-specific (Boston 009A)		Local (Boston District)		Regional (East Midlands)		National (England)	
	No.	%	No.	%	No.	%	No.	%
AB Higher and intermediate managerial / administrative / professional occupations	191	12%	4,460	11%	573,044	20%	7,737,602	23%
C1 Supervisory, clerical and junior managerial / administrative / professional occupations	432	27%	8,867	22%	833,114	29%	10,238,039	30%
C2 Skilled manual occupations	438	27%	10,497	26%	679,622	24%	7,396,569	22%
DE Semi-skilled and unskilled manual occupations; unemployed and lowest grade occupations	532	33%	16,242	41%	776,358	27%	8,362,138	25%

Table A22.1-2 Health of People from the Public Health Outcomes Framework and other PHE Sources (PHE, 2020b; 2020c; 2020d)

Factor	Period	Boston		Lincolnshire		East Midlands		England average	
		Count	Value	Count	Value	Count	Value	Count	Value
Public Health Outcomes Framework (PHE, 2020b)									
Overarching Indicators									
A01a – Healthy life expectancy at birth (Male) (years)	2016 - 18	N/A	N/A	-	62.8	-	62.8	-	63.4
A01a – Healthy life expectancy at birth (Female) (years)	2016 - 18	N/A	N/A	-	62.5	-	61.9	-	63.9
A01b – Life expectancy at birth (Male)	2016 - 18	-	77.8	-	79.2	-	79.4	-	79.6
A01b – Life expectancy at birth (Female)	2016 - 18	-	82.1	-	82.9	-	82.9	-	83.2
A02a – Inequalities in life expectancy at birth (Male) (years; lower the better)	2016 - 18	N/A	N/A	-	8.2	-	8.9	-	9.5
A02a – Inequalities in life expectancy at birth (Female) (years; lower the better)	2016 - 18	N/A	N/A	-	5.7	-	7.1	-	7.5
Wider Determinants of Health									
B02a – School readiness: percentage of children achieving a good level of development at the end of Reception	2018 - 19	N/A	N/A	5,539	69.6 %	38,343	70.3 %	458,847	71.8 %

Factor	Period	Boston		Lincolnshire		East Midlands		England average	
		Count	Value	Count	Value	Count	Value	Count	Value
B02b – School readiness: percentage of children achieving the expected level in the phonics screening check in Year 1	2018 - 19	N/A	N/A	9,331	80.6 %	45,040	81.1 %	531,260	81.8 %
B05 – 16-17 year olds not in education, employment or training (NEET) or whose activity is not known	2018	N/A	N/A	830	5.5%	5,120	5.4%	61,830	5.5%
B08d – Percentage of people aged 16-64 in employment	2018/19	31,800	78.2 %	336,100	76.1 %	2,210,200	75.2 %	26,264,100	75.6 %
B14a – The rate of complaints about noise (per 1,000)	2018/19	300	4.3	3,017	4.0	21,697	4.5	382,346	6.8
B14b – The percentage of the population exposed to road, rail and air transport noise of 65 dB(A) or more during the daytime	2016	N/A	N/A	17,730	2.4%	163,050	3.5%	3,012,970	5.5%

Factor	Period	Boston		Lincolnshire		East Midlands		England average	
		Count	Value	Count	Value	Count	Value	Count	Value
B14c - The percentage of the population exposed to road, rail and air transport noise of 55 dB(A) or more during the night-time	2016	N/A	N/A	24,020	3.3%	253,180	5.4%	4,645,980	8.5%
B16 – Utilisation of outdoor space for exercise/health reasons	Mar 2015 – Feb 2016	-		-	19.0 %	-	18.5 %	-	17.9 %
B17 – Fuel Poverty	2018	3,461	12.0 %	38,353	11.8 %	219,592	10.9 %	2,400,297	10.3 %
B18a – Social isolation: percentage of adult social care users who have as much social contact as they would like	2018/19	N/A	N/A	3,850	45.0 %	24,825	44.0 %	290,535	45.9 %
B18b – Social Isolation: percentage of adult carers who have as much social contact as they would like (18+ years)	2018/19	N/A	N/A	150	33.3 %	8,465	30.1 %	95,065	32.5 %
1.01ii – Children in low income families (under 16s)	2016	1,905	14.6 %	20,300	16.3 %	140,785	16.6 %	1,707,835	17.0 %

Factor	Period	Boston		Lincolnshire		East Midlands		England average	
		Count	Value	Count	Value	Count	Value	Count	Value
1.10 – Killed and seriously injured (KSI) casualties on England's roads (per 100,000)	2016 - 18	153	74.5	1,518	67.4	5,954	41.6	71,149	42.6
1.15i – Statutory homelessness – Eligible homeless people not in priority need (per 1,000)	2017/18	21	0.73	60	0.2	870	0.43	18,430	0.79
Health Improvements									
C09a – Reception: Prevalence of overweight (including obesity)	2018/19	210	27.2 %	1,946	25.2 %	11,491	22.7 %	135,020	22.6 %
C10 – Percentage of physically active children and young people	2018/19	-	47.0 %	-	50.6 %	-	47.9 %	-	46.8 %
C16 – Percentage of adults (aged 18+) classified as overweight or obese	2018/19	-	70.8 %	-	66.5 %	-	64.2 %	-	62.3 %
C17a – Percentage of physically active adults	2018/19	-	58.3 %	-	64.8 %	-	66.4 %	-	67.2 %
C18 – Smoking prevalence in adults (18+) – current smokers (APS)	2019	10,098	18.4 %	93,468	15.3 %	564,970	14.8 %	6,111,270	13.9 %

Factor	Period	Boston		Lincolnshire		East Midlands		England average	
		Count	Value	Count	Value	Count	Value	Count	Value
C27 – Percentage reporting a long term Musculoskeletal (MSK) problem	2018/19	-	17.6%	-	20.5%	-	17.8%	-	16.9%
C28a – Self-reported wellbeing – people with a low satisfaction score	2018/19	N/A	N/A	-	3.8%	-	4.1%	-	4.3%
C28c – Self-reported wellbeing – people with a low happiness score	2018/19	N/A	N/A	-	8.4%	-	7.9%	-	7.8%
C29 – Emergency hospital admissions due to falls in people aged 65 and over (per 100,000)	2018/19	265	1,847	3,185	1,852	19,730	2,171	226,567	2,198
Health Protection									
D01 – Fraction of mortality attributed to particulate air pollution	2018	-	5.1%	-	5.0%	-	4.9%	-	5.2%
Healthcare and Premature Mortality									
E03 – Mortality rate from causes considered preventable (per 100,000)	2016 - 18	437	207.8	4,564	181.4	25,919	182.9	284,588	180.8

Factor	Period	Boston		Lincolnshire		East Midlands		England average	
		Count	Value	Count	Value	Count	Value	Count	Value
E04a – Under 75 mortality rate from all cardiovascular diseases (per 100,000)	2016 - 18	186	95.8	1,828	78.2	9,547	73.5	102,334	71.7
E04b – Under 75 mortality rate from cardiovascular diseases considered preventable (per 100,000)	2016 - 18	120	62.0	1,197	51.1	6,050	46.6	64,530	45.3
E05a – Under 75 mortality rate from cancer (per 100,000)	2016 - 18	276	142.8	3,112	132.5	17,344	133.4	188,722	132.3
E05b – Under 75 mortality rate from cancer considered preventable (per 100,000)	2016 - 18	160	83.1	1,764	74.9	10,155	78.2	108,817	76.3
E14 – Excess winter deaths index	Aug 2017 – Jul 2018	105	46.1 %	866	33.3 %	4,250	30.4 %	46,445	30.1 %
E15 – Estimated dementia diagnosis rate (aged 65 and over)	2020	701	65.8 %	7,446	65.8 %	42,532	71.7 %	459,599	67.4 %
Supporting Information									
Deprivation score (IMD 2019) (the lower the better)	2019	-	23.0	-	20.3	-	20.4	-	21.7

Factor	Period	Boston		Lincolnshire		East Midlands		England average	
		Count	Value	Count	Value	Count	Value	Count	Value
Deprivation score (IMD 2015) (the lower the better)	2015	-	24.4	-	20.6	N/A	N/A	-	21.8
Percentage of population aged under 18	2019	14,882	21.2%	146,412	19.2%	1,002,649	20.7%	12,023,568	21.4%
Percentage of population aged 65+	2019	14,688	20.9%	179,805	23.6%	944,092	19.5%	10,353,716	18.4%
Percentage of population from ethnic minorities	2016	-	2.1%	17,600	2.9%	387,700	10.2%	6,012,200	13.6%
Additional Health-related Information (PHE, 2020c; 2020d)									
Average GCSE attainment (average attainment 8 score)	2018/19	29,758	41.8%	335,690	45.8%	2,161,566	45.8%	25,225,530	46.9%
Gender pay gap (by workplace location) (the lower the better)	2018	-	3.8%	-	14.1%	-	19.2%	-	18.8%
Housing affordability ratio (the lower the better)	2016	N/A	N/A	-	6.7	-	6.5	-	7.2
Overcrowded households	2011	1,152	4.2%	7,017	2.3%	61,644	3.3%	1,060,967	4.8%
Proportion of people who use services who feel safe	2015/16	N/A	N/A	-	71.7%	-	68.2%	-	69.2%

Factor	Period	Boston		Lincolnshire		East Midlands		England average	
		Count	Value	Count	Value	Count	Value	Count	Value
Access to NHS dental services - successfully obtained a dental appointment	2015/16	N/A	N/A	3,070	93.7%	N/A	N/A	217,159	73.4%
Percentage of people who said they had good experience when making a GP appointment	2015/16	N/A	N/A	7,838	72.7%	N/A	N/A	586,870	73.4%
Proportion of people who use services who have control over their daily life	2015/16	N/A	N/A	-	82.0%	-	76.4%	-	76.6%
Percentage of people aged 16+ with sports club membership	2015/16	N/A	N/A	-	19.4%	N/A	N/A	-	22.0%
Adults walking for travel at least three days per week	2017/18	-	16.4%	-	17.2%	-	18.7%	-	23.1%
Adults cycling for travel at least three days per week	2017/18	-	4.4%	-	3.0%	-	2.8%	-	3.2%
Density of fast food outlets (per 100,000)	2014	38	57.2	607	83.0	3,929	84.7	47,928	88.2
Air pollution: fine particulate matter ($\mu g.m^{-3}$)	2017	-	8.5	-	8.3	-	9.0	-	8.9

Factor	Period	Boston		Lincolnshire		East Midlands		England average	
		Count	Value	Count	Value	Count	Value	Count	Value
Access to Healthy Assets & Hazards Index** (the lower the better)	2017	14,960	21.8%	252,367	33.6%	751,203	15.7%	11,713,616	21.1%

Colour Coding:									
Average is better than the England average									
Average is similar to the England average									
Average is worse than the England average									

*value to be treated with caution due to an issue with records from 2016/17 at the Nottingham University Hospital Trust

**percentage of the population who live in LSOAs which score in the poorest performing 20% on the Access to Healthy Assets & Hazards index. The index is based on accessibility to retail outlets (fast food outlets, pubs, off-licences, tobacconists, gambling outlets); accessibility to health services (GPs, hospitals, pharmacies, dentists, leisure services); and the quality of the physical environment (green space, air pollution)