

Meeting the net zero carbon emissions target by 2050

THE BASELINE

I feel that the Parish Council has an obligation to take steps to meet the target set by the UK Government to reduce net carbon emissions by 2050, and in order to progress towards that we should set an interim target of 50% reduction by 2030.

The most significant carbon emissions result from energy consumed by Council buildings and employees, including gas, electricity, petrol and diesel, so a baseline needs to be established in order to be able to measure changes in carbon emissions year on year. To facilitate this process, I carried out an analysis of gas and electricity bills from 2020 up to the latest available bills to establish actual energy consumed (in kWh) for each of the premises that the Council is responsible for. The results of this analysis are shown on the attached graphs and data tables.

This data can be used to highlight high energy consumption in different areas, where further investigation may reveal energy-saving measures that can be taken. Two areas that I consider of concern are the Pumping Station at Fremington Quay, and the Tews Lane building. The Pumping Station consumed 11227 kWh of electricity, and Tews Lane 11239 kWh of gas in a 12-month period; for comparison purposes, the Beechfield Centre consumed 5947 kWh of electricity and 20064 kWh of gas over a similar 12-month period.

POSSIBLE ACTIONS

1. Limit energy consumption – introduce control measures so that appliances are only switched on when needed, and turned off at other times. For example, sealed programmers and thermostats to ensure that pre-set operating levels cannot be over-ridden.
2. Investigate more energy-efficient appliances to replace existing units.
3. Introduce renewable energy sources, particularly at the Pumping Station.
4. Continue to monitor energy bills as they are received, and report quarterly on progress towards net zero carbon.
5. As a last resort, to change energy suppliers to those that guarantee energy from renewable sources. This should be a last resort since there is still not sufficient renewable energy to meet the country's needs.

ECONOMIC CONSEQUENCES

Energy saving measures will also save significant amounts of money for the Council as well as recognition of its environmental credentials within the community. Regular monitoring and reporting should keep this issue in the forefront.

CONCLUSION

The Council has an opportunity to lead on this issue within the Parish, and should the full Council agree then a detailed Action Plan should be produced for an ongoing programme of reductions in energy consumption

TEWS LANE ELECTRICITY CONSUMPTION - kWh

	Meter	Consumption
Oct-21	14730	116
Sep-21	14614	174
Aug-21	14440	171
Jul-21	14269	228
Jun-21	14041	190
May-21	13851	252
Apr-21	13599	62
Mar-21	13537	87
Feb-21	13450	92
Jan-21	13358	97
Dec-20	13261	93
Nov-20	13168	

BEECHFIELD CENTRE ELECTRICITY CONSUMPTION - kWh

	Meter	Consumption
Oct-21	25181	559
Sep-21	24622	558
Aug-21	24064	516
Jul-21	23548	425
Jun-21	23123	434
May-21	22689	514
Apr-21	22175	460
Mar-21	21715	486
Feb-21	21229	664
Jan-21	20565	475
Dec-20	20090	371
Nov-20	19719	485
Oct-20	19234	395
Sep-20	18839	413
Aug-20	18426	346
Jul-20	18080	279
Jun-20	17801	233
May-20	17568	199
Apr-20	17369	128
Mar-20	17241	76
Feb-20	17165	446
Jan-20	16719	502
Dec-19	16217	

PUMPING STATION ELECTRICITY CONSUMPTION - kWh

	Meter	Consumption
Oct-21	94529	888
Sep-21	93641	933
Aug-21	92708	937
Jul-21	91771	895
Jun-21	90876	950
May-21	89926	1132
Apr-21	88794	681
Mar-21	88113	957
Feb-21	87156	969
Jan-21	86187	973
Dec-20	85214	936
Nov-20	84278	976
Oct-20	83302	951
Sep-20	82351	986
Aug-20	81365	995
Jul-20	80370	973
Jun-20	79397	981
May-20	78416	1001
Apr-20	77415	936
Mar-20	76479	
Feb-20		
Jan-20		
Dec-19		

SEAKING COMMUNITY CENTRE ELECTRICITY CONSUMPTION - kWh

	Meter	Consumption
Oct-21		0
Sep-21		0
Aug-21		0
Jul-21		0
Jun-21		0
May-21		0
Apr-21		0
Mar-21	5771	239
Feb-21	5532	0
Jan-21		0
Dec-20		0
Nov-20		0
Oct-20		0
Sep-20		0
Aug-20		0
Jul-20		0
Jun-20		0
May-20		0
Apr-20		0
Mar-20		
Feb-20		
Jan-20		
Dec-19		

TEWS LANE GAS CONSUMPTION - kWh

	Meter	Consumption
Oct-21		738
Sep-21		616
Aug-21		647
Jul-21		607
Jun-21		624
May-21		768
Apr-21		790
Mar-21		975
Feb-21		1396
Jan-21		1593
Dec-20		1483
Nov-20		1002
Oct-20		1012
Sep-20		614
Aug-20		703
Jul-20		625
Jun-20		614
May-20		658
Apr-20		680
Mar-20		743
Feb-20		943
Jan-20		244

BEECHFIELD CENTRE GAS CONSUMPTION - kWh

	Meter	Consumption
Oct-21		
Sep-21		695
Aug-21		548
Jul-21		562
Jun-21		874
May-21		1092
Apr-21		2711
Mar-21		2331
Feb-21		2424
Jan-21		2921
Dec-20		2273
Nov-20		2134
Oct-20		1499
Sep-20		257
Aug-20		714
Jul-20		570
Jun-20		770
May-20		1025
Apr-20		2014
Mar-20		
Feb-20		
Jan-20		

TOTAL ENERGY CONSUMPTION (kWh)

	Tews Lane	Beechfield	Pump stn	Seaking	Tews Gas	Beechfield Gas	TOTALS
Oct-21	116	559	888		738		2301
Sep-21	174	558	933		616	695	2976
Aug-21	171	516	937		647	548	2819
Jul-21	228	425	895		607	562	2717
Jun-21	190	434	950		624	874	3072
May-21	252	514	1132		768	1092	3758
Apr-21	62	460	681		790	2711	4704
Mar-21	87	486	957	239	975	2331	5075
Feb-21	92	664	969		1396	2424	5545
Jan-21	97	475	973		1593	2921	6059
Dec-20	93	371	936		1483	2273	5156
Nov-20		485	976		1002	2134	4597
Oct-20		395	951		1012	1499	3857
Sep-20		413	986		614	257	2270
Aug-20		346	995		703	714	2758
Jul-20		279	973		625	570	2447
Jun-20		233	981		614	770	2598
May-20		199	1001		658	1025	2883
Apr-20		128	936		680	2014	3758
Mar-20		76			743		819
Feb-20		446			943		1389
Jan-20		502			244		746
Dec-19							

Energy consumption Jan 20 to Oct 21

