

OPERATIONAL CARBON FOOTPRINT

2024-2025 report



The Council has committed to report annual operational carbon emissions. Using the baseline of 2019-2020. As it currently stands, there has been an overall reduction in emissions by 43.2% in Staffordshire Moorlands* and 48.1% in High Peak**

There are some sources of data we can't report on including staff mileage, due to the way this is monitored.

* This percentage reflects the percentage reduction in tCO₂e¹ without the fleet emissions. For the 2024-2025 reporting period, we are now measuring additional fleet data we haven't measured previously, so removing this data is more reflective of the true reduction in emissions.

** This percentage reflects the percentage reduction in tCO₂e without the fleet emissions and those from Parkwood Leisure who manage some Council owned facilities across High Peak. For the 2024-2025 reporting period, we are now measuring fleet and Parkwood data we haven't measured previously, so removing this data is more reflective of the true reduction in emissions.

1 tCO₂e, or tonnes of carbon dioxide equivalent, is a standardised unit used to express the climate impact of all greenhouse gases on a common scale. It allows us to include different gases in our calculations, such as methane and nitrous oxide, by converting them into an equivalent amount of CO₂ that would cause the same warming effect.

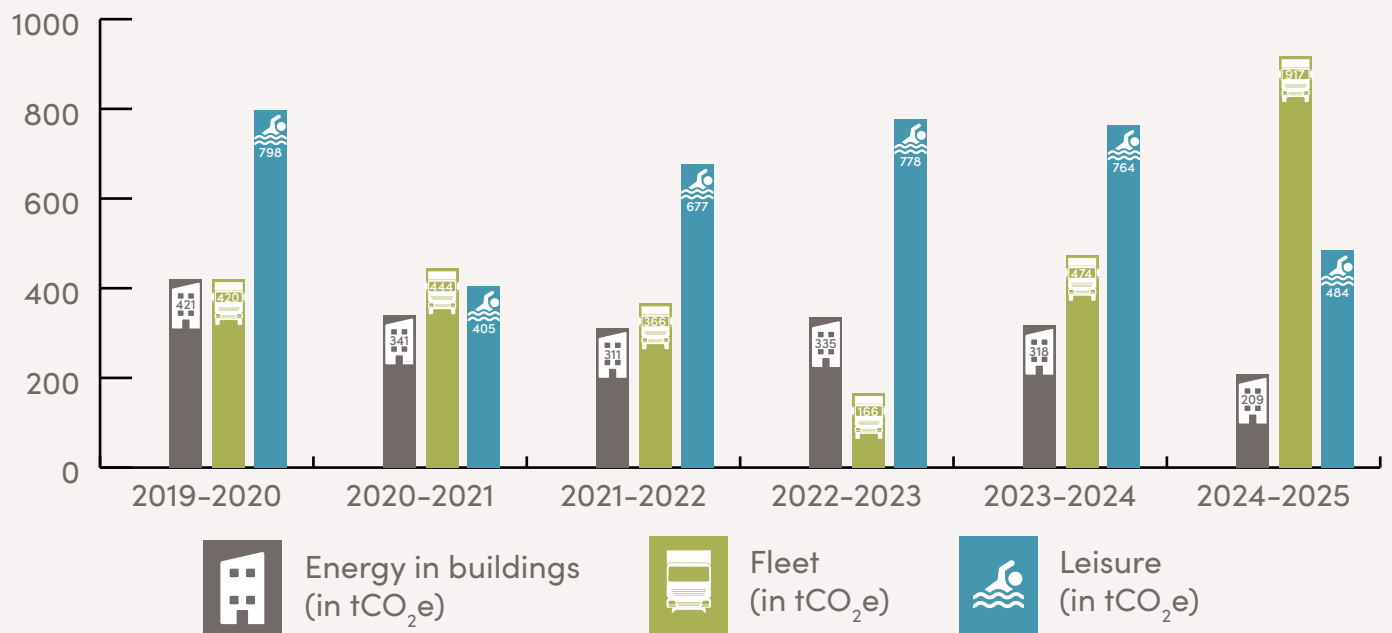
The tables below list the tonnes of Carbon Dioxide equivalent emitted through Staffordshire Moorlands Council's and High Peak Council's operations in the listed functions.

OPERATIONAL FOOTPRINT FOR STAFFORDSHIRE MOORLANDS

Operation footprint	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Compared to baseline	% change from baseline
Energy in building	421	341	311	335	318	209	-212	-50.4%
Fleet	420	444	366	166	474	917	+497	n/a
Leisure	798	405	677	778	764	484	-314	-39.3%
Total	1639	1190	1354	1279	1556	1610	-29	-1.77%
Total (minus fleet)	1219	746	988	1,113	1,082	693	-526	-43.2%

*all values in tCO₂e

EMISSIONS BY SECTOR 2019-2025 FOR STAFFORDSHIRE MOORLANDS

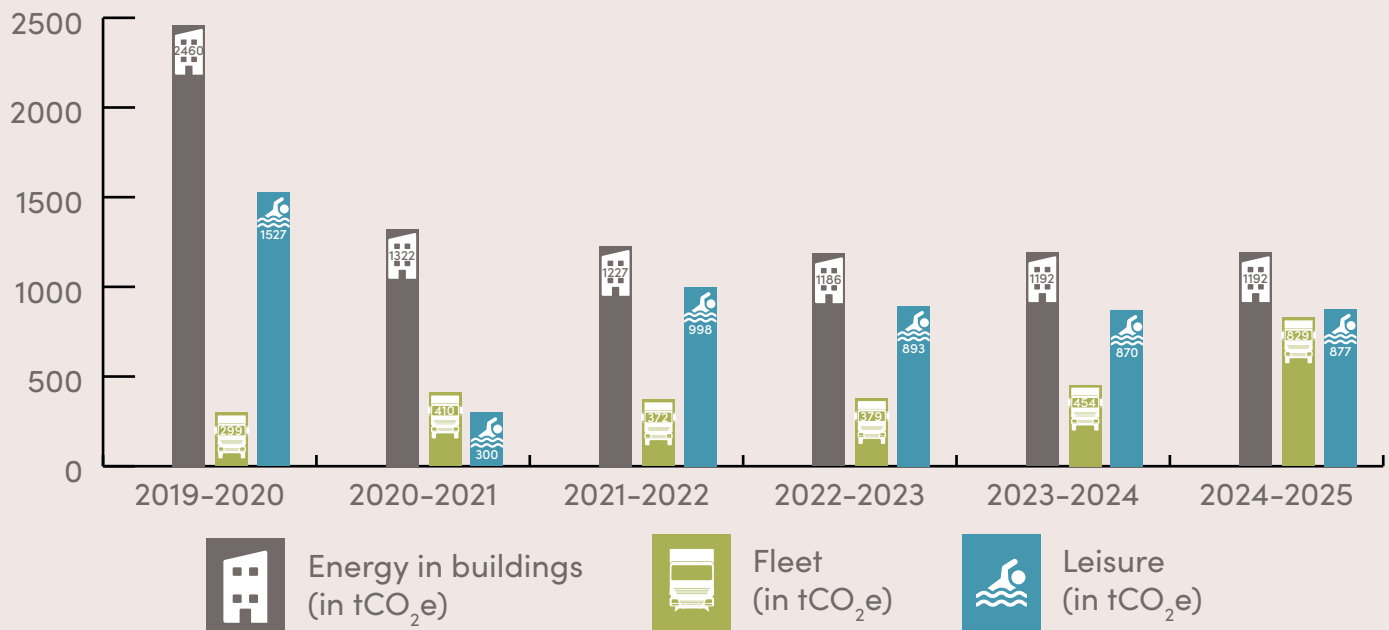


OPERATIONAL FOOTPRINT FOR HIGH PEAK

Operation footprint	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Compared to baseline	% change from baseline
Energy in buildings	2460	1322	1227	1186	1192	1192	-1268	-51.5%
Fleet	299	410	372	379	454	829	+530	n/a
Leisure	1527	300	998	893	870	877	-650	-42.6%
Parkwood	n/a	n/a	n/a	n/a	n/a	732	n/a	n/a
Total	4286	2032	2597	2458	2516	3630	-656	-15.3%
Total (discluding Parkwood)	4286	2032	2597	2458	2516	2898	-1,388	-32.4%
Total (minus Parkwood and Fleet)	3987	1,622	2,225	2,079	2,062	2069	-1918	-48.1%

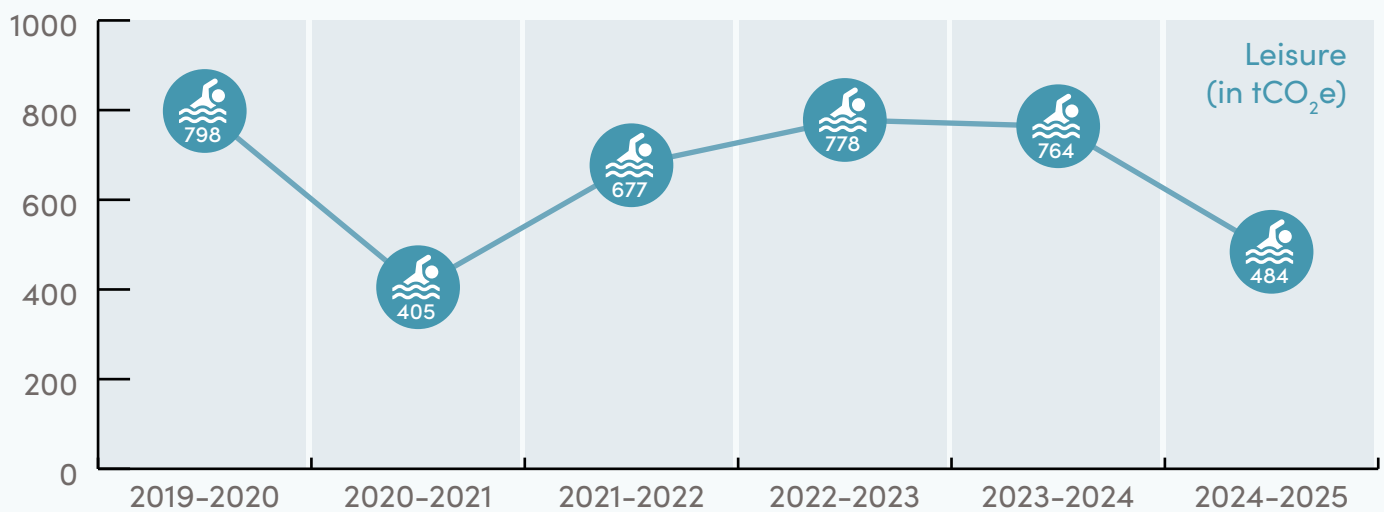
*all values in tCO₂e

EMISSIONS BY SECTOR 2019-2025 FOR HIGH PEAK



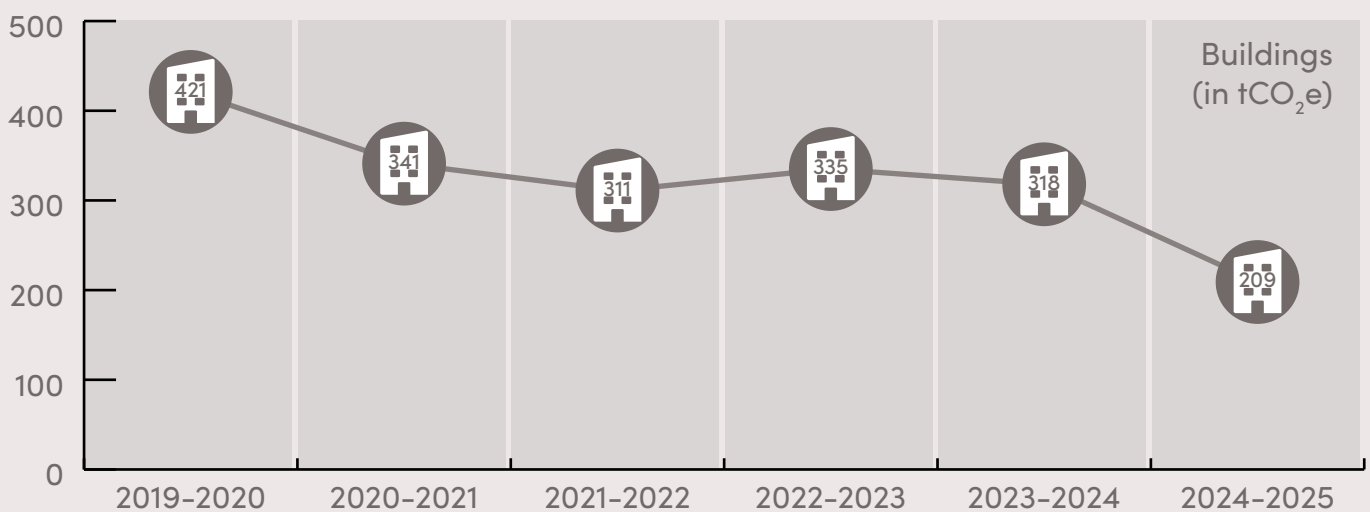
In Staffordshire Moorlands, the decrease in energy use in the Leisure section of the tables above is partly due to refurbishment of a leisure centre and work with Cadent to address a meter issue. Measures to improve energy efficiency such as upgrading the air handling unit and installing variable speed fans at My Active Biddulph is just one example that has contributed to the reduction in energy emissions. You can see in the graph below there is a steady decline in emissions following the increase in 2022-23.

LEISURE EMISSIONS 2019-2025 IN STAFFORDSHIRE MOORLANDS



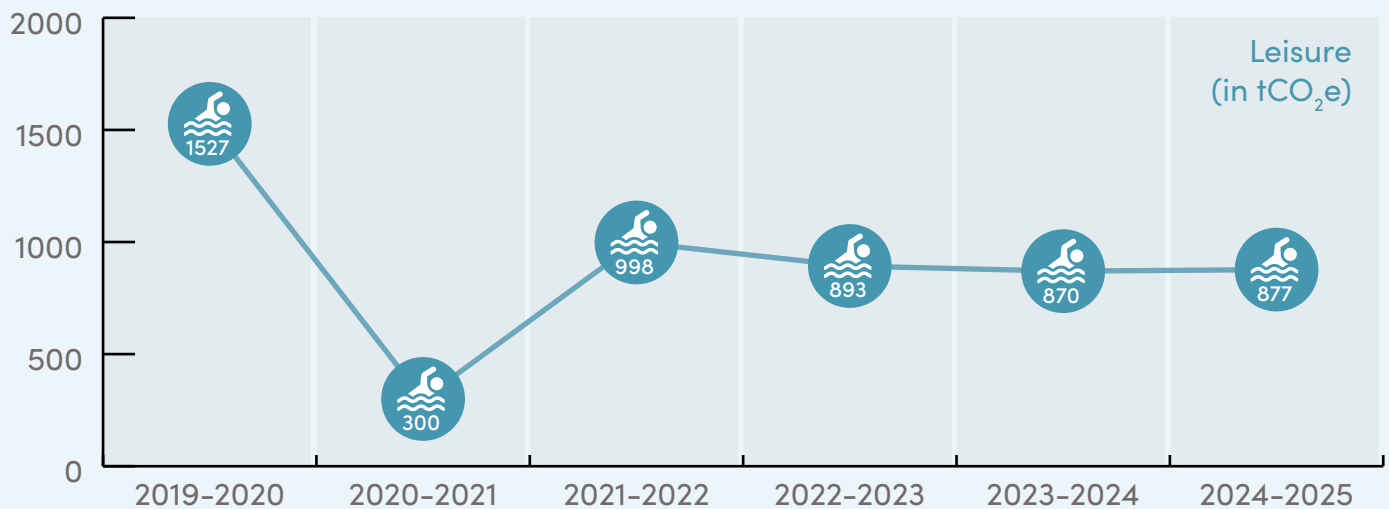
There has also been a steady decline in emissions in council buildings across Staffordshire Moorlands as shown in the graph below.

BUILDING EMISSIONS 2019-2025 IN STAFFORDSHIRE MOORLANDS



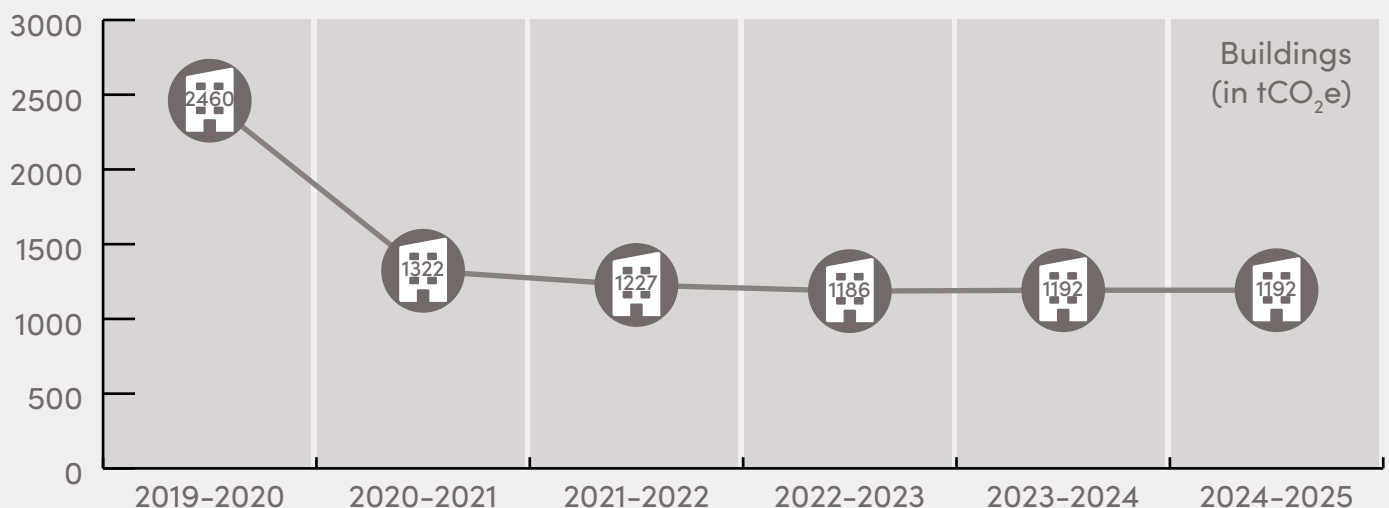
LEISURE EMISSIONS 2019-2025 IN HIGH PEAK

In the High Peak, the emissions remain stable as you can see from the graph below. The decarbonisation works that are happening across the area including the work at My Active New Mills where solar panels are being installed on the leisure centre roof to generate electricity and upgrades are being made to some plant room equipment to improve efficiency, will help to reduce emissions further in the future.



Again, the emissions remain stable across council buildings in the High Peak as shown in the graph below.

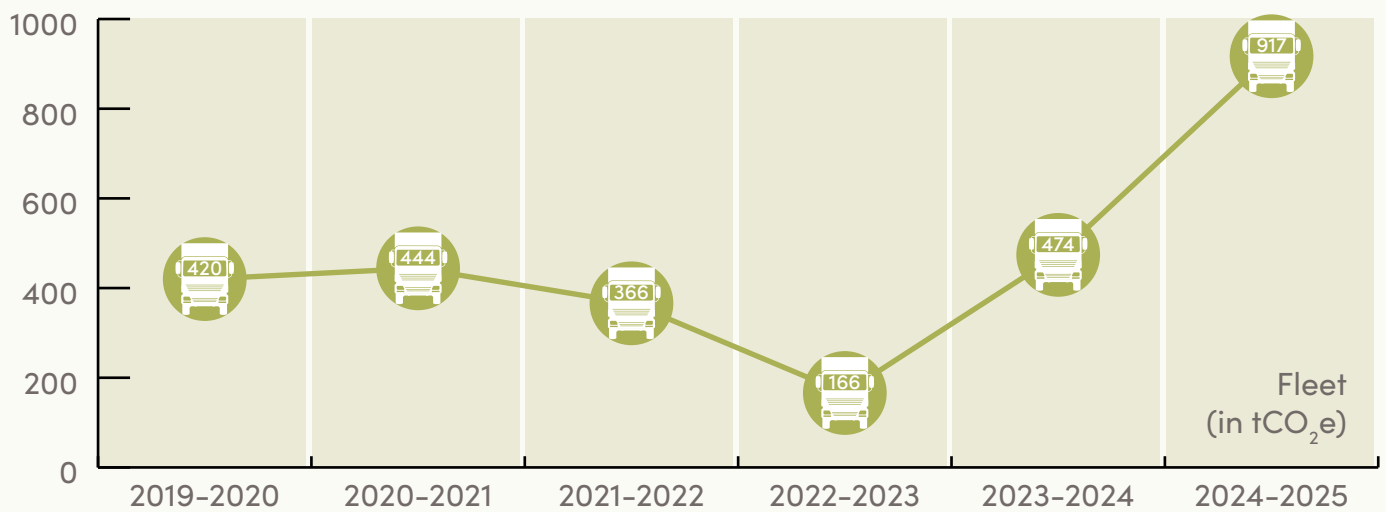
BUILDING EMISSIONS 2019-2025 IN HIGH PEAK



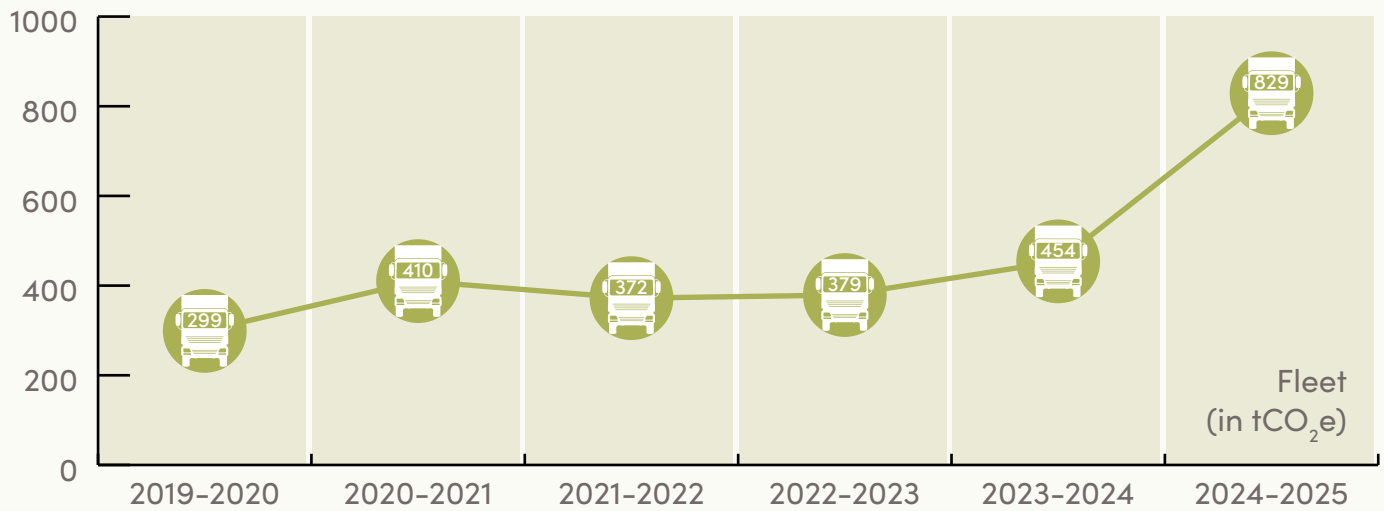
There has been an increase at both councils in their fleet emissions. This is due to several factors including: the new conversion factors, bringing some of the fleet in house, stopping the use of Hydrotreated Vegetable Oil (HVO) vehicles and only using diesel, route changes and outsourcing of vehicles.

The alliance will continually review and consider alternative fuel or an electric fleet to enable significant reductions of emissions.

STAFFORDSHIRE MOORLANDS FLEET EMISSIONS 2019-25



HIGH PEAK FLEET EMISSIONS 2019-25



The emissions footprint is calculated using the Local Government Association conversion factors. The conversion factors are regularly audited and changed. The raw data inputs are the metered kilowatt hours or litres of fuel and water. These data inputs are collected from our delivery partner Alliance Environmental Services (AES), our internal Assets team and Parkwood Leisure (for High Peak), which includes Council buildings, leisure centres and fleet vehicles.

The Councils are actively working with all boroughs and districts across the counties on climate change and energy programmes. With the revised Climate Change and Nature Delivery Plan, we have a clear work programme that will continue to address climate change and sustainability, reduce both Councils emissions and improve the environment for the planet, wildlife and our local communities.