

Appendix 1: Indicator Report

**Climate and Environment Committee, 10 January
2023**

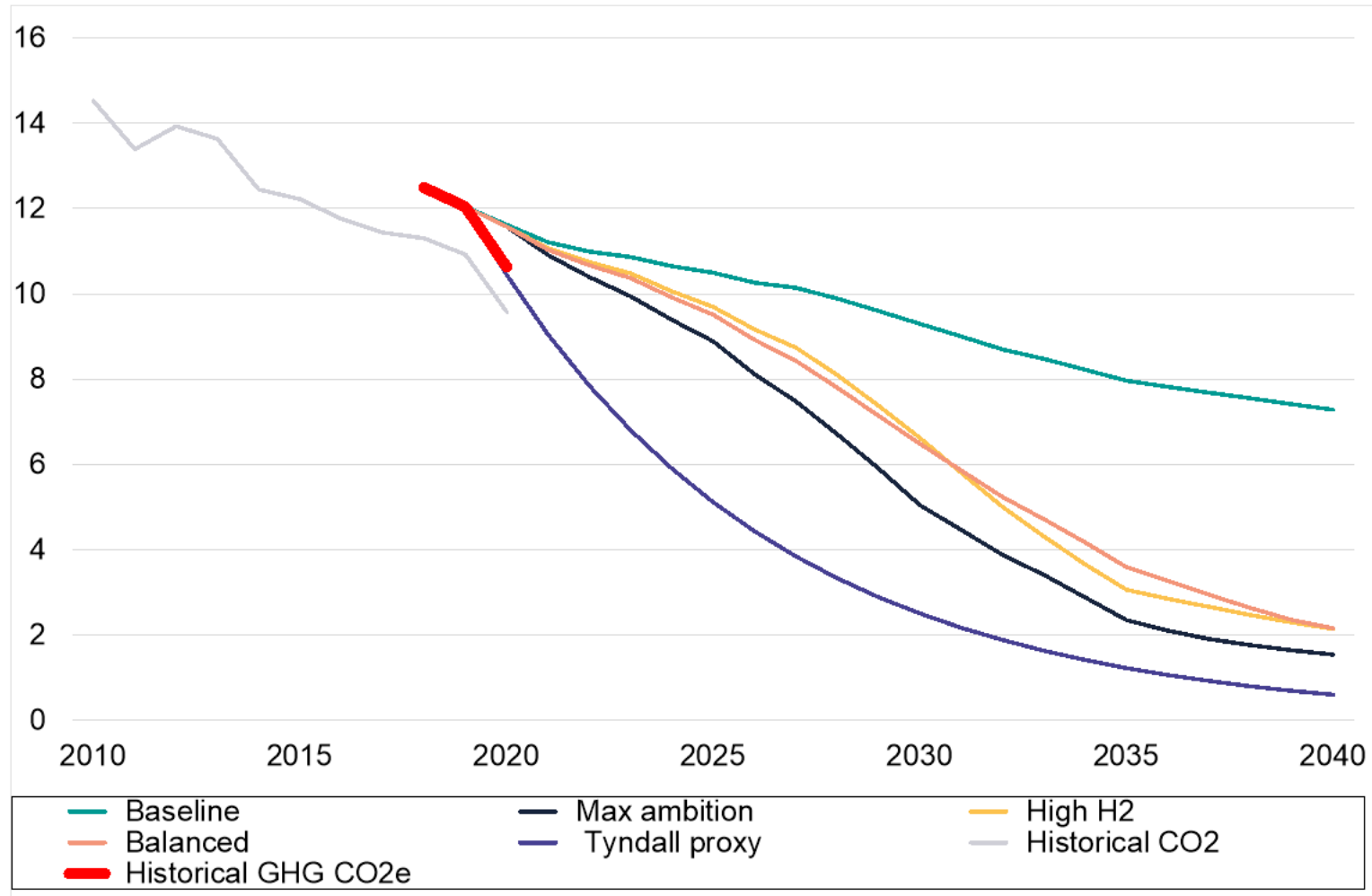
Introduction

- The following slides provide an overview of West Yorkshire's performance and progress against the headline indicators for State of the Region
- A subset of indicators has been presented, reflecting those most directly relevant to the Employment and Skills agenda.
- For some indicators there has been no change in the available data but the latest figures are contained in the pack for consistency.
- The pack also contains an update based on more timely labour market indicators, including payrolled employees, claimant count and vacancies (online job postings).

State of the Region indicators

Emissions fell sharply during 2020, reflecting the impact of the pandemic but this is unlikely to be sustainable

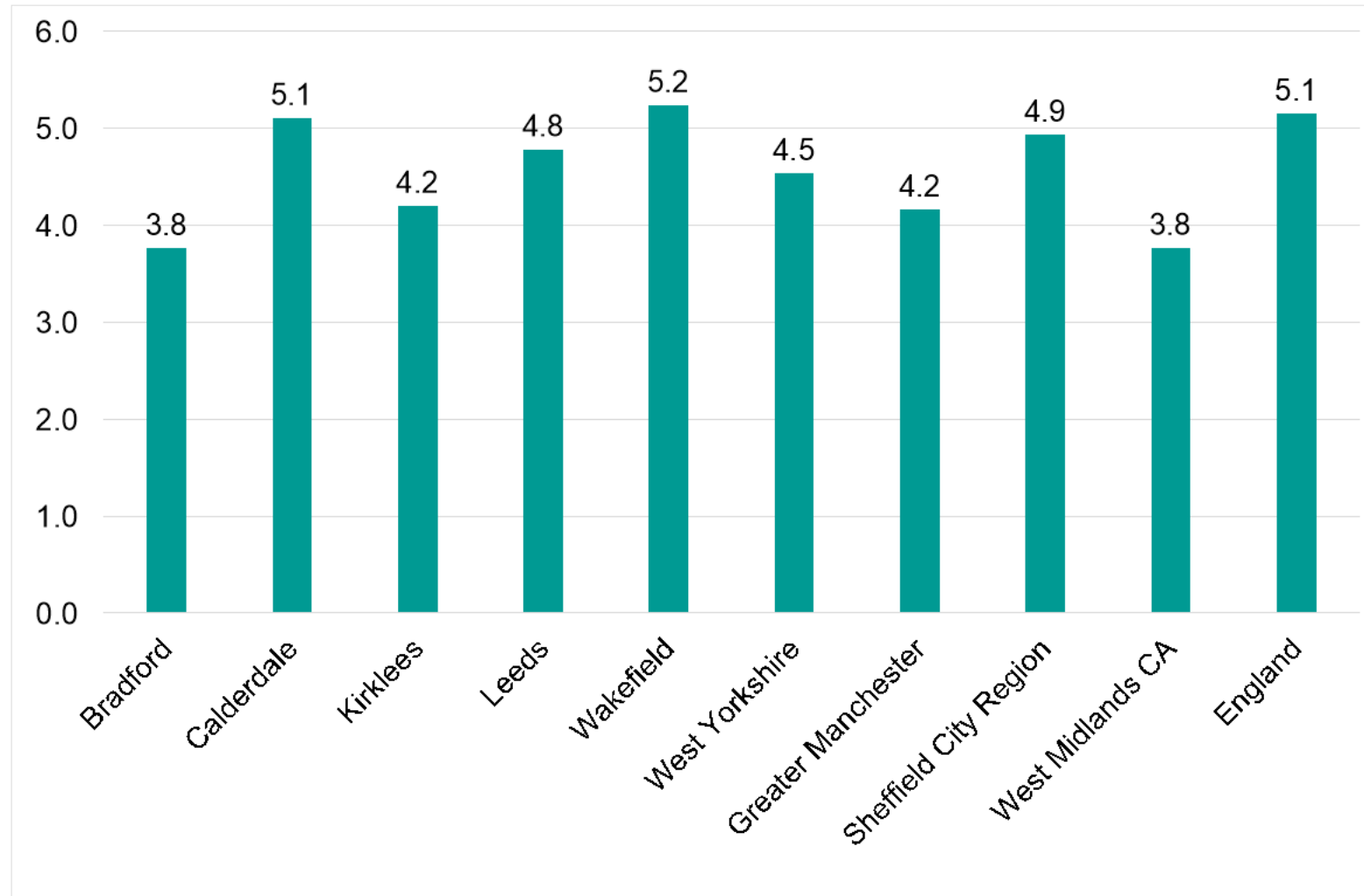
Figure 1: Trend in greenhouse gas emissions vs carbon reduction pathways (MtCO₂e)



Source: UK local authority and regional greenhouse gas emissions national statistics, 2005 to 2020, BEIS

West Yorkshire has lower emissions per capita than the national average

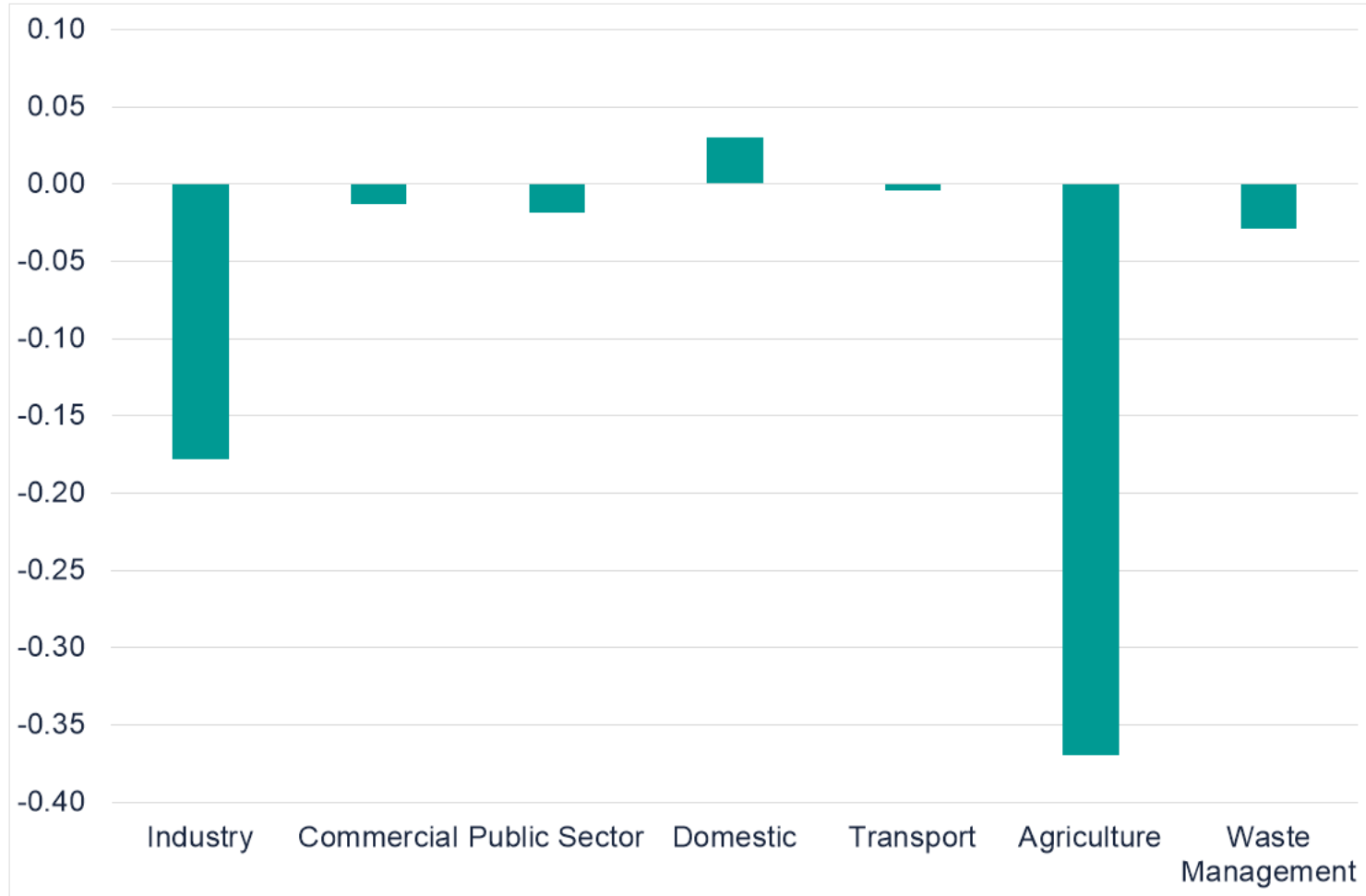
Figure 2: Per capita greenhouse gas emissions (tonnes CO2e per resident)



Source: UK local authority and regional greenhouse gas emissions national statistics, 2005 to 2020, BEIS

West Yorkshire has lower emissions per capita in respect of Agriculture and Industry

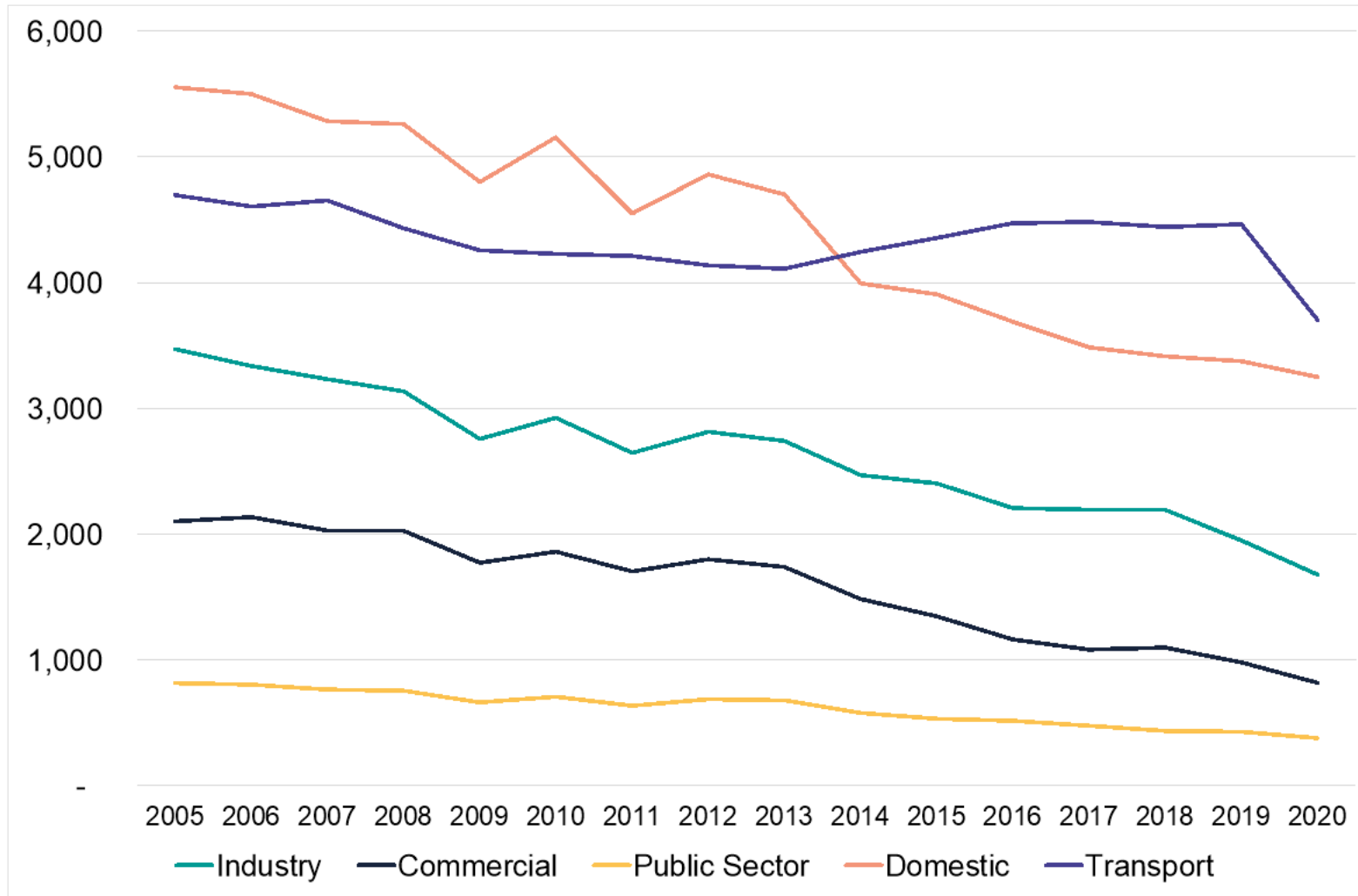
Figure 3: Per capita greenhouse gas emissions by sector (tonnes CO₂e per resident), 2020 – differences between West Yorkshire and national average



Source: UK local authority and regional greenhouse gas emissions national statistics, 2005 to 2020, BEIS

All sectors of the economy saw an emissions reduction in 2020, including a sharp fall for transport

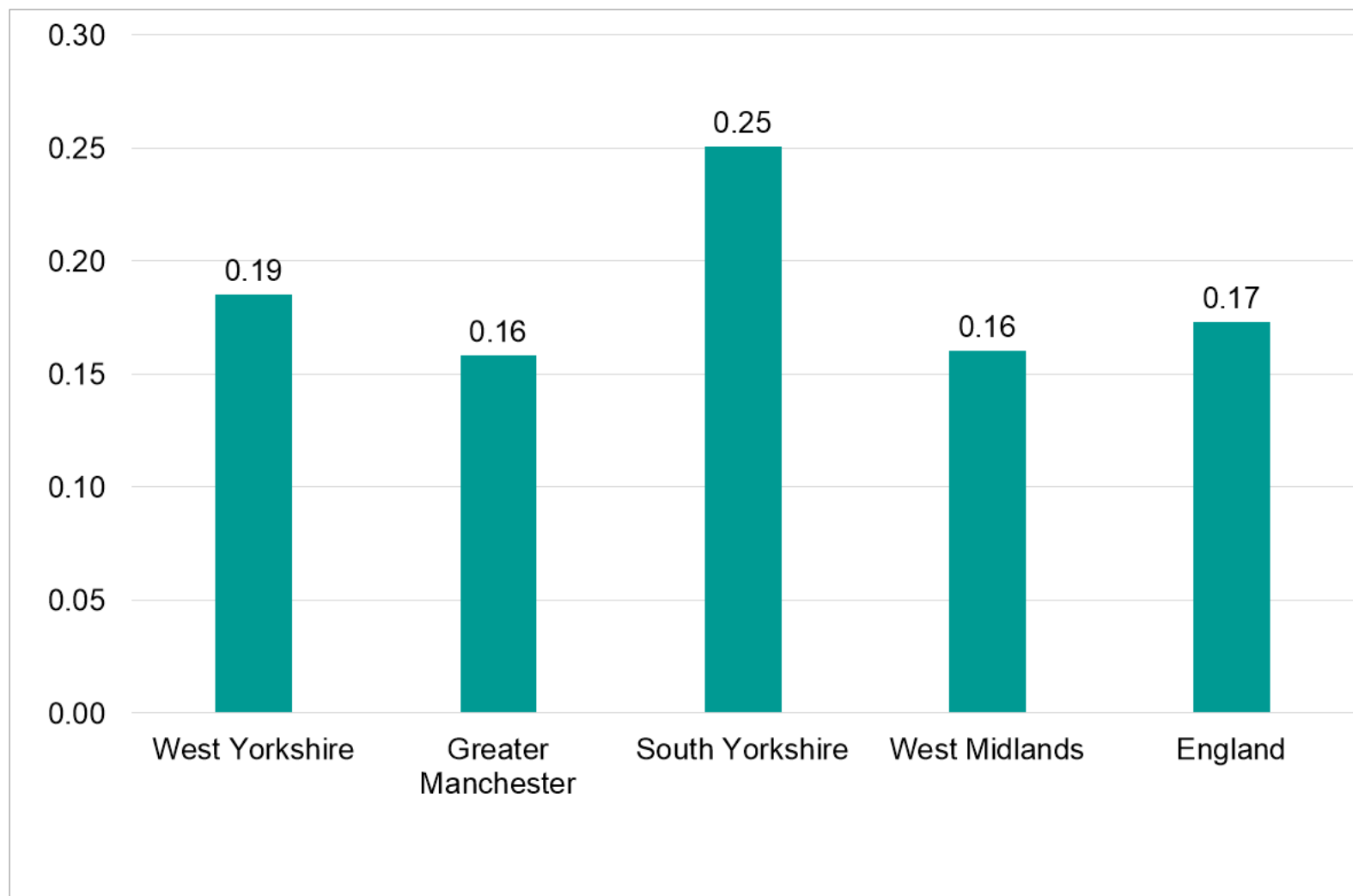
Figure 4: Trend in greenhouse gas emissions by sector, (ktCO₂e), West Yorkshire



Source: UK local authority and regional greenhouse gas emissions national statistics, 2005 to 2020, BEIS

West Yorkshire's emissions intensity is above the national average

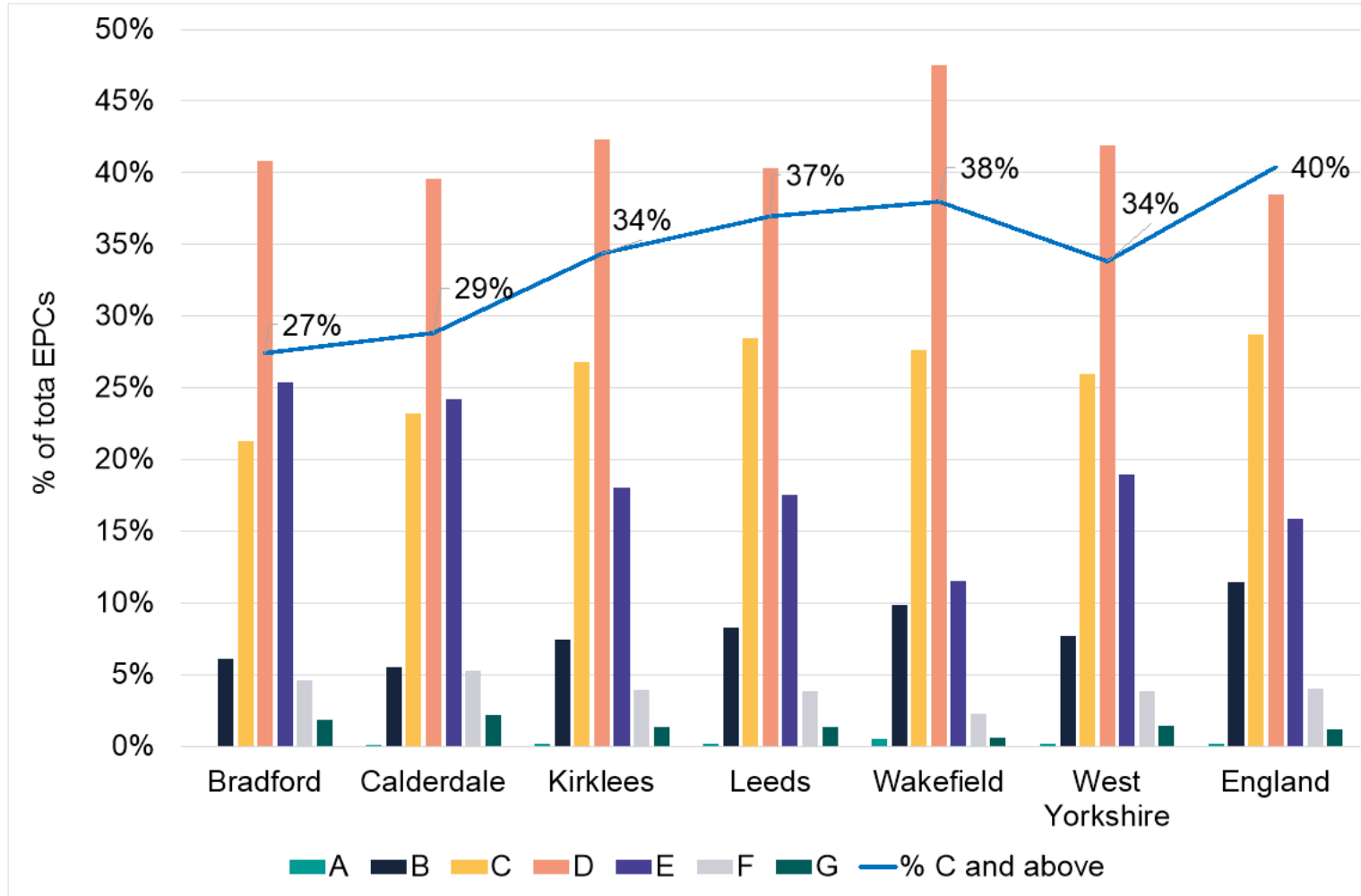
Figure 5: Greenhouse gas emissions intensity (ktCO2e per £m gross value added)



Source: UK local authority and regional greenhouse gas emissions national statistics, 2005 to 2020, BEIS

West Yorkshire dwellings with an EPC are less likely to have an energy efficiency rating of C or above compared to national average

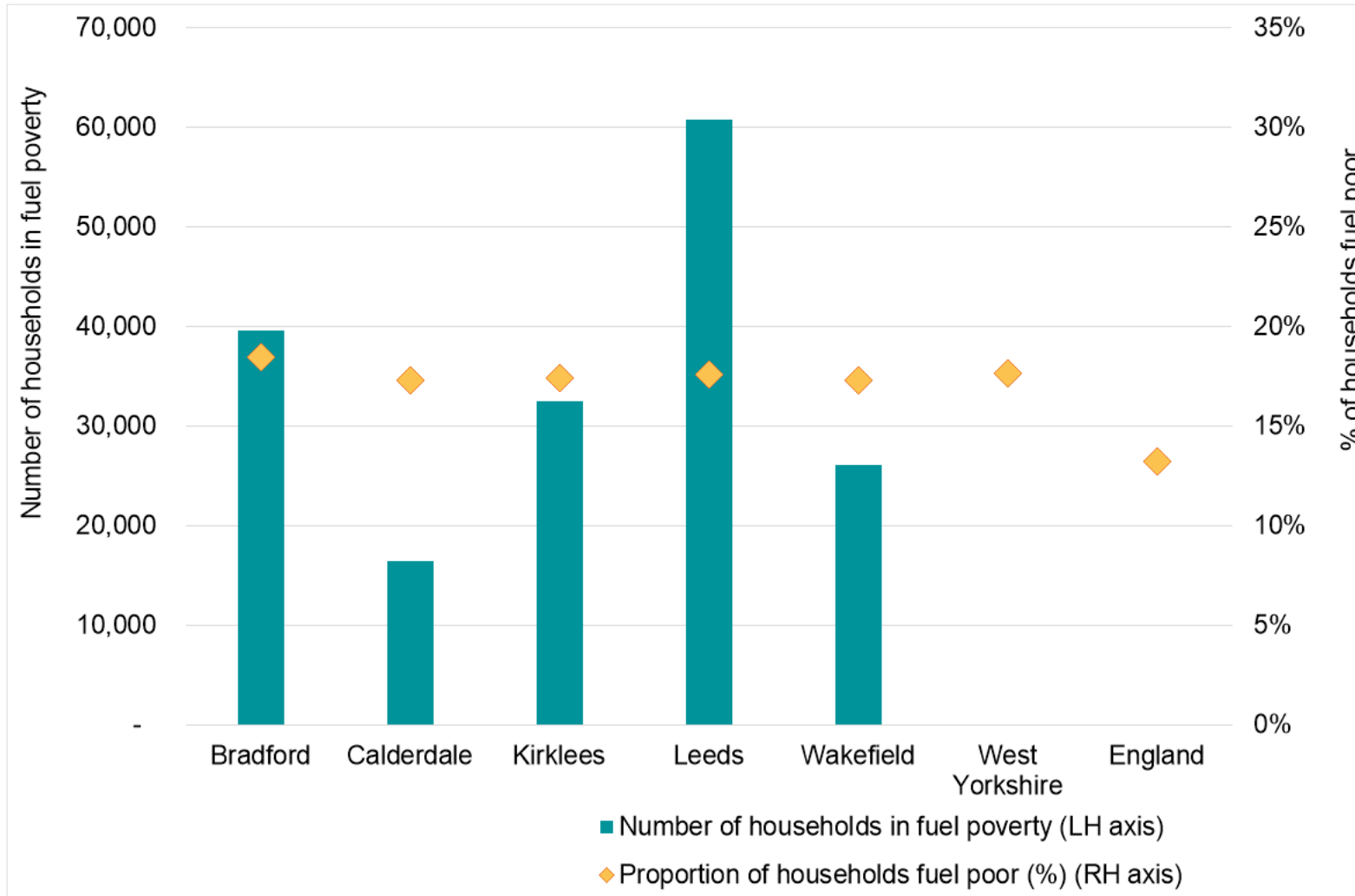
Figure 6: Profile of Energy Performance Certificates by local authority and Energy Efficiency Rating



Source: Energy Performance Certificate data, Department for Levelling Up, Housing and Communities

18% of households in West Yorkshire are in fuel poverty, a slight increase on the previous year

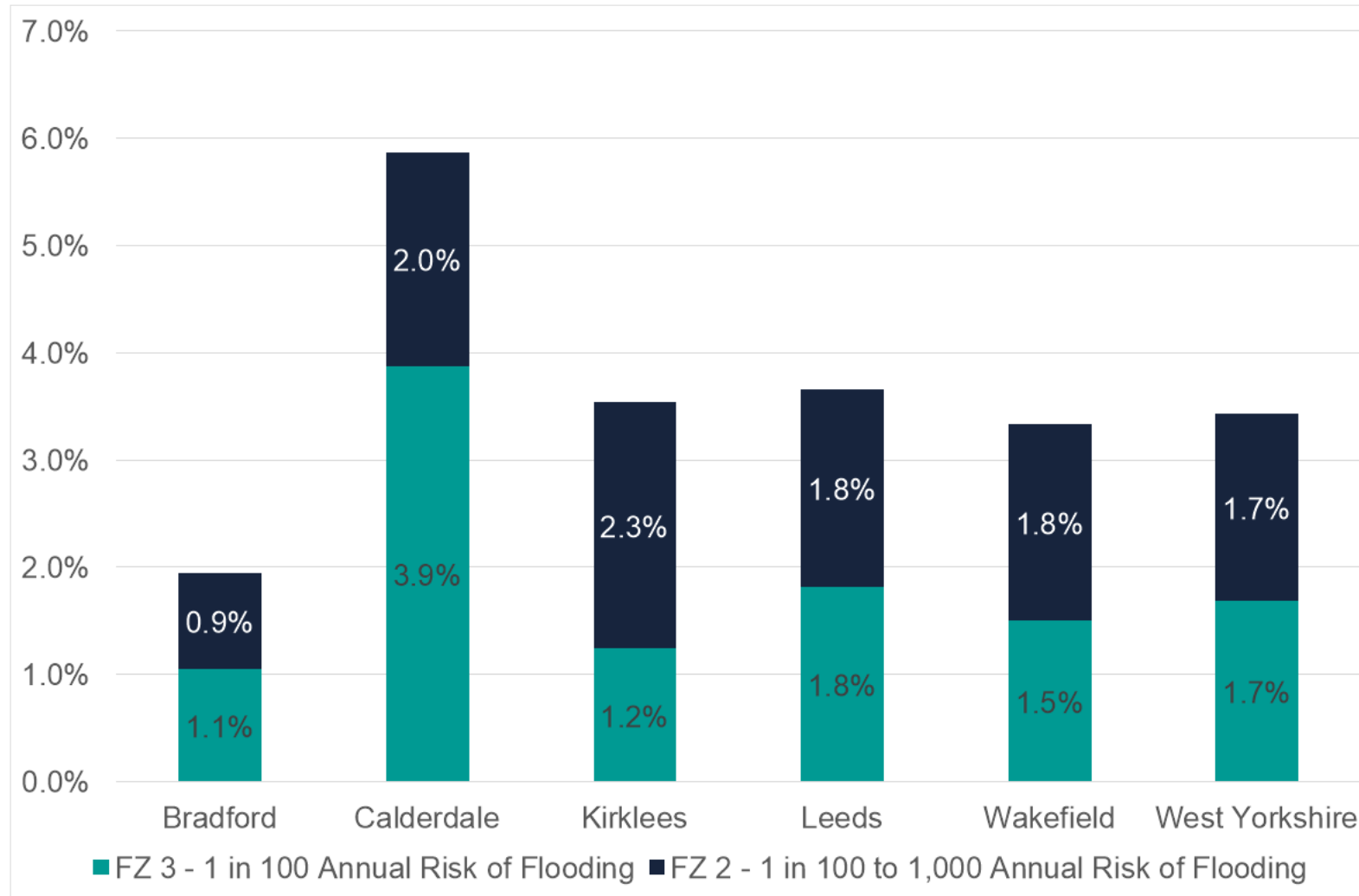
Figure 7: Number and proportion of households in fuel poverty, 2020



Source: Sub-regional fuel poverty statistics, BEIS

3% of residential properties in West Yorkshire fall within a flood zone, rising to more than 6% in Calderdale

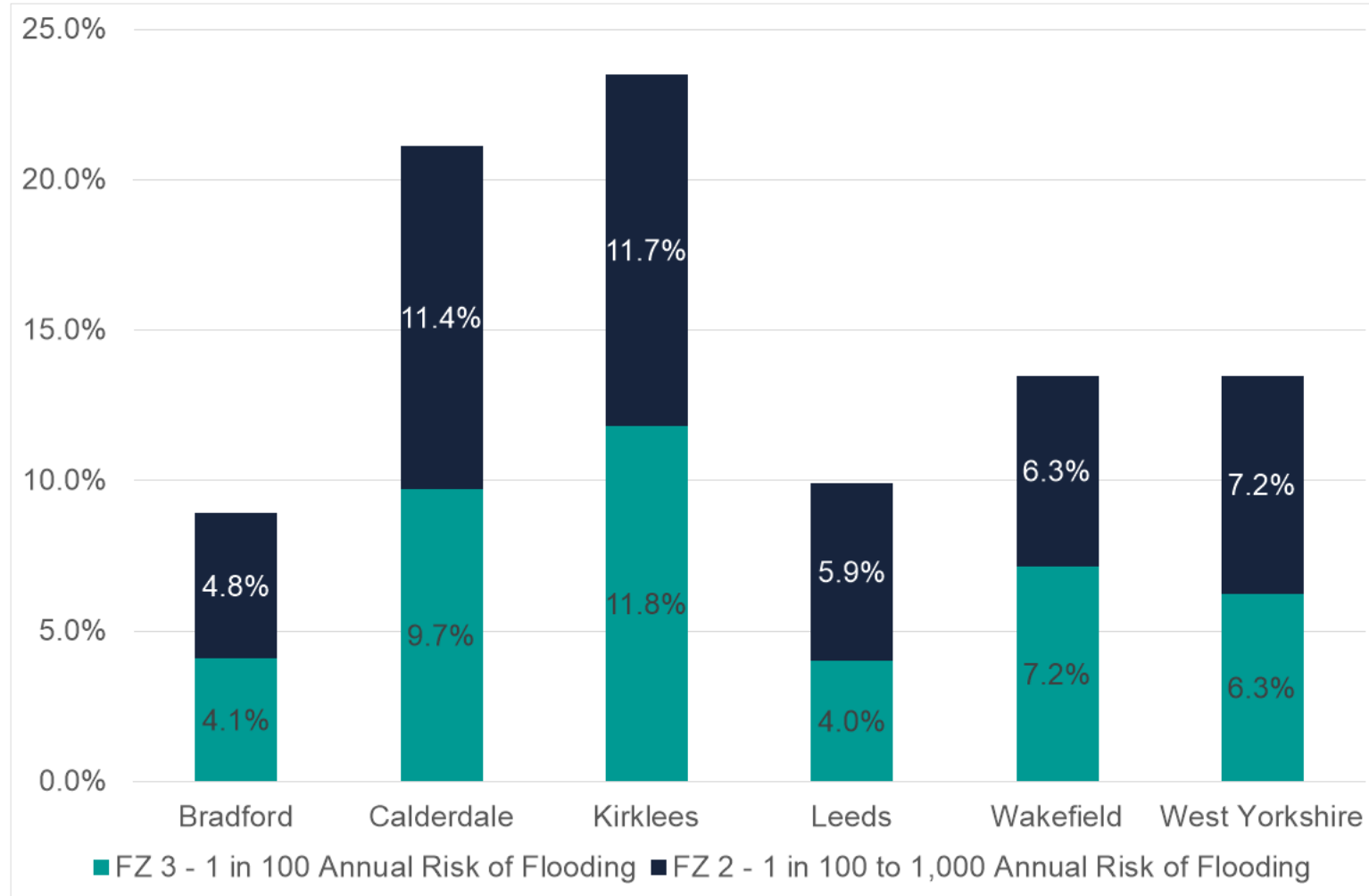
Figure 8: Proportion of residential properties in flood zones



Source: Environmental Agency, ONS Mid-Year Population Estimates

13% of commercial properties in West Yorkshire fall within a flood zone, rising to 24% in Kirklees

Figure 9: Proportion of commercial properties in flood zones

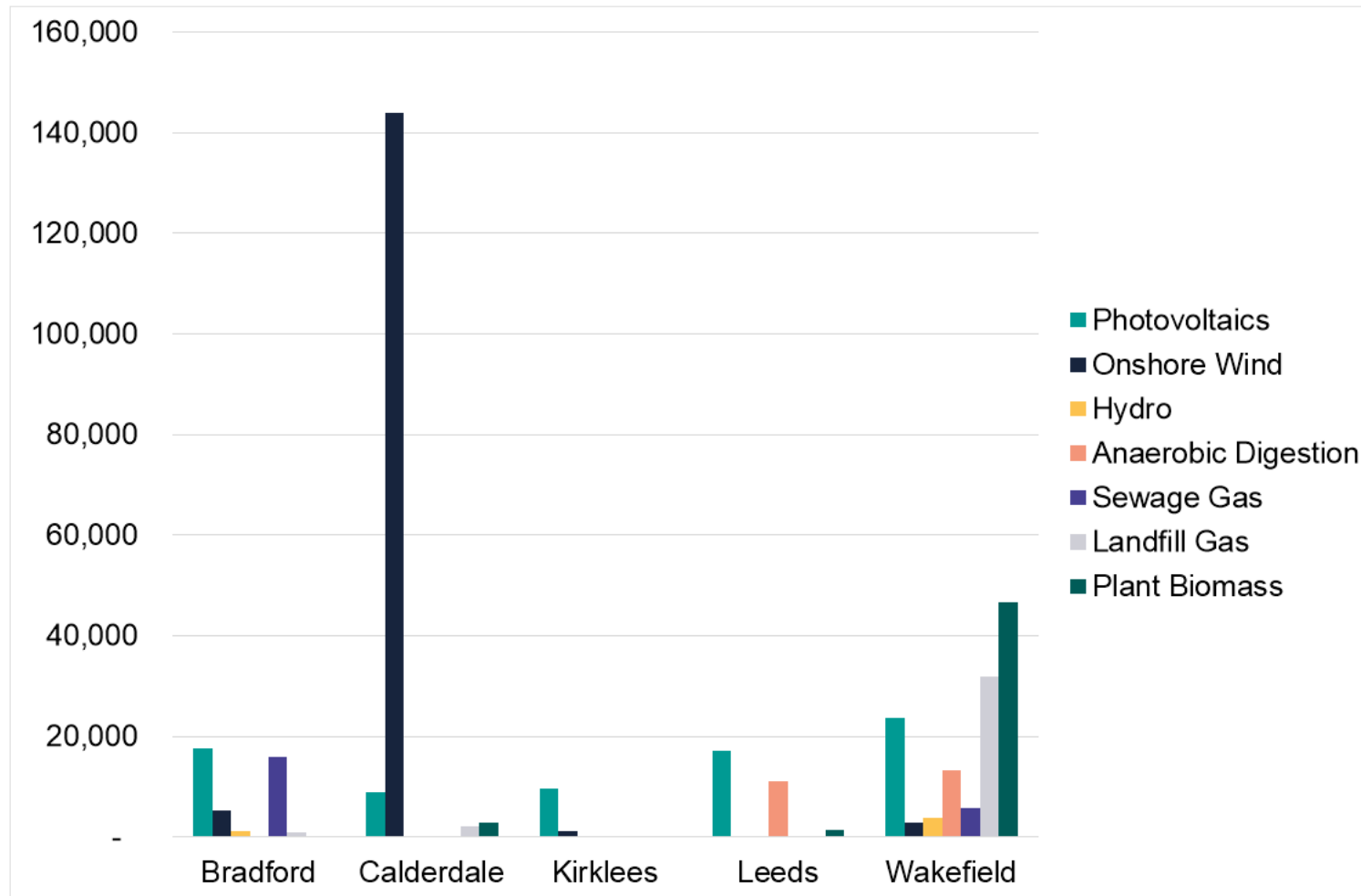


Source: Environmental Agency, ONS Mid-Year Population Estimates

Further analysis of renewable electricity generation

Onshore wind in Calderdale accounts for 39% of total renewable electricity generated in West Yorkshire, according to latest figures

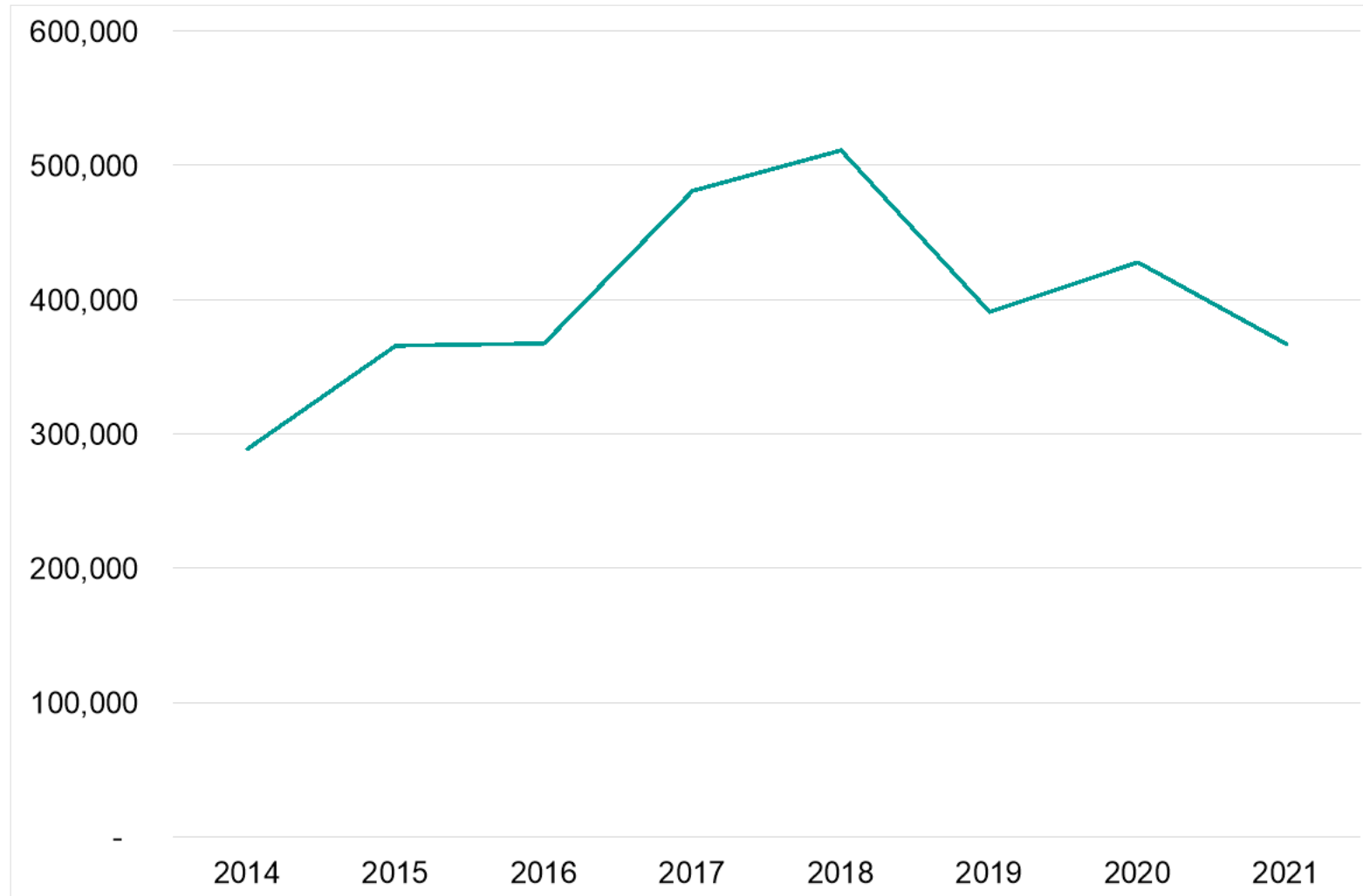
Figure 10: Renewable electricity generation (MWh) by source and local authority, 2021



Source: Renewable electricity by local authority 2014 - 2021, BEIS

Renewable electricity generation in 2021 was 21% higher than in 2014 but 28% below its peak in 2018

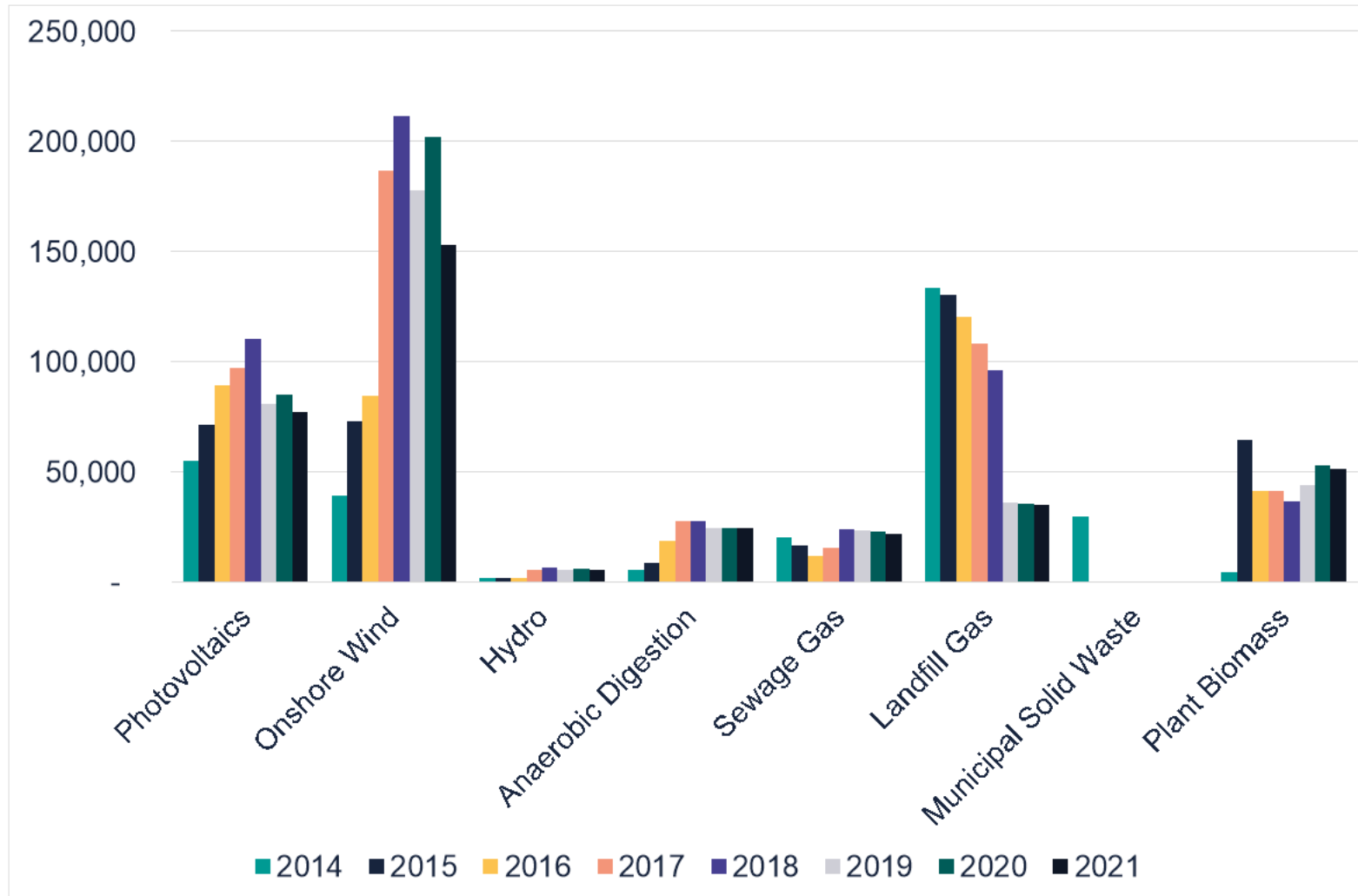
Figure 11: Trend in renewable electricity generation (MWh), West Yorkshire



Source: Renewable electricity by local authority 2014 - 2021, BEIS

Onshore wind is the largest source of renewable electricity generation in West Yorkshire but has followed an erratic trend over time

Figure 12: Renewable electricity generation (MWh) by source and local authority, 2021

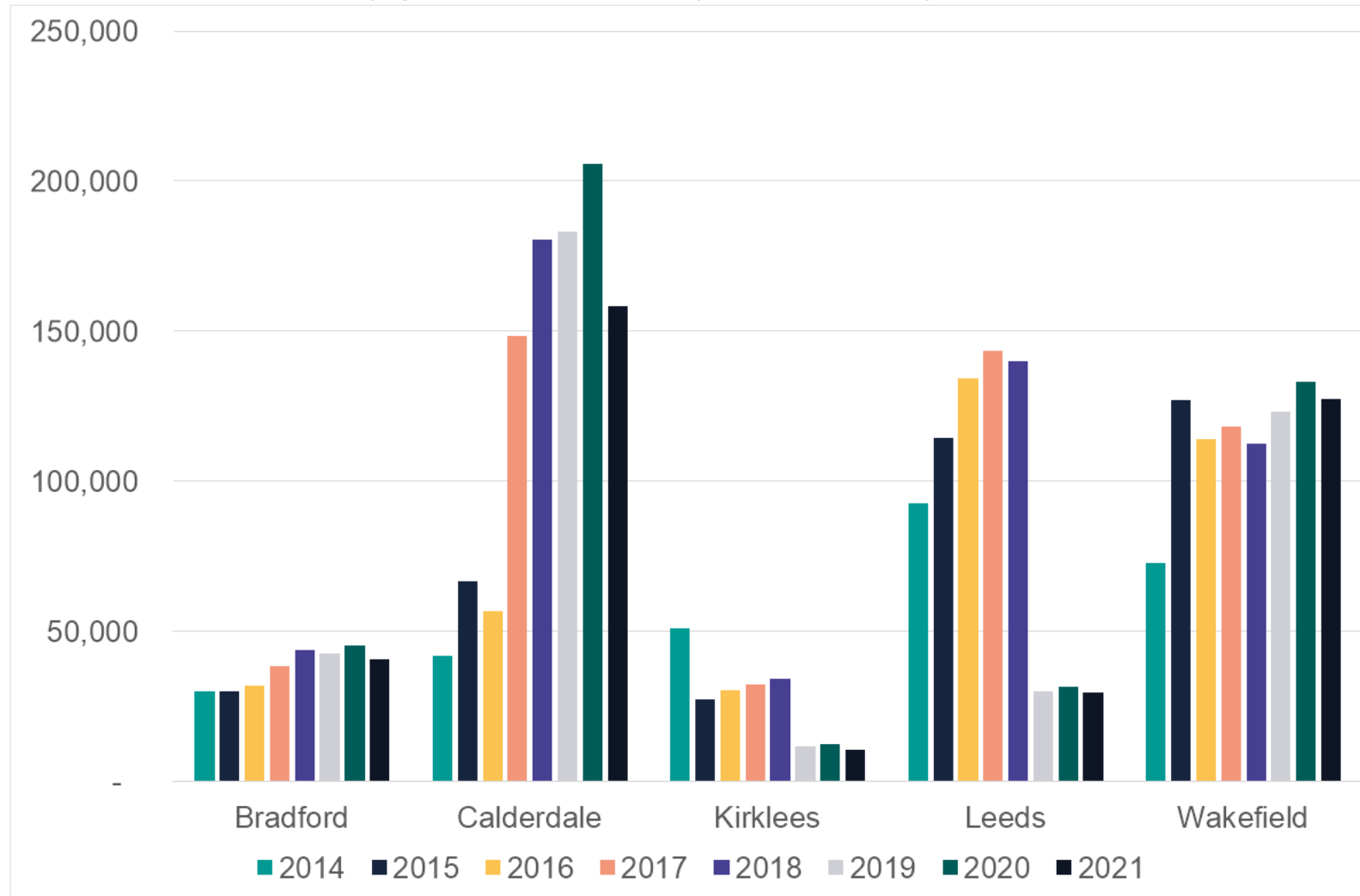


Electricity generated using landfill gas fell substantially from 2019 onwards

Source: Renewable electricity by local authority 2014 - 2021, BEIS

Kirklees and Leeds both experienced big falls in renewable electricity generation from 2019 onwards

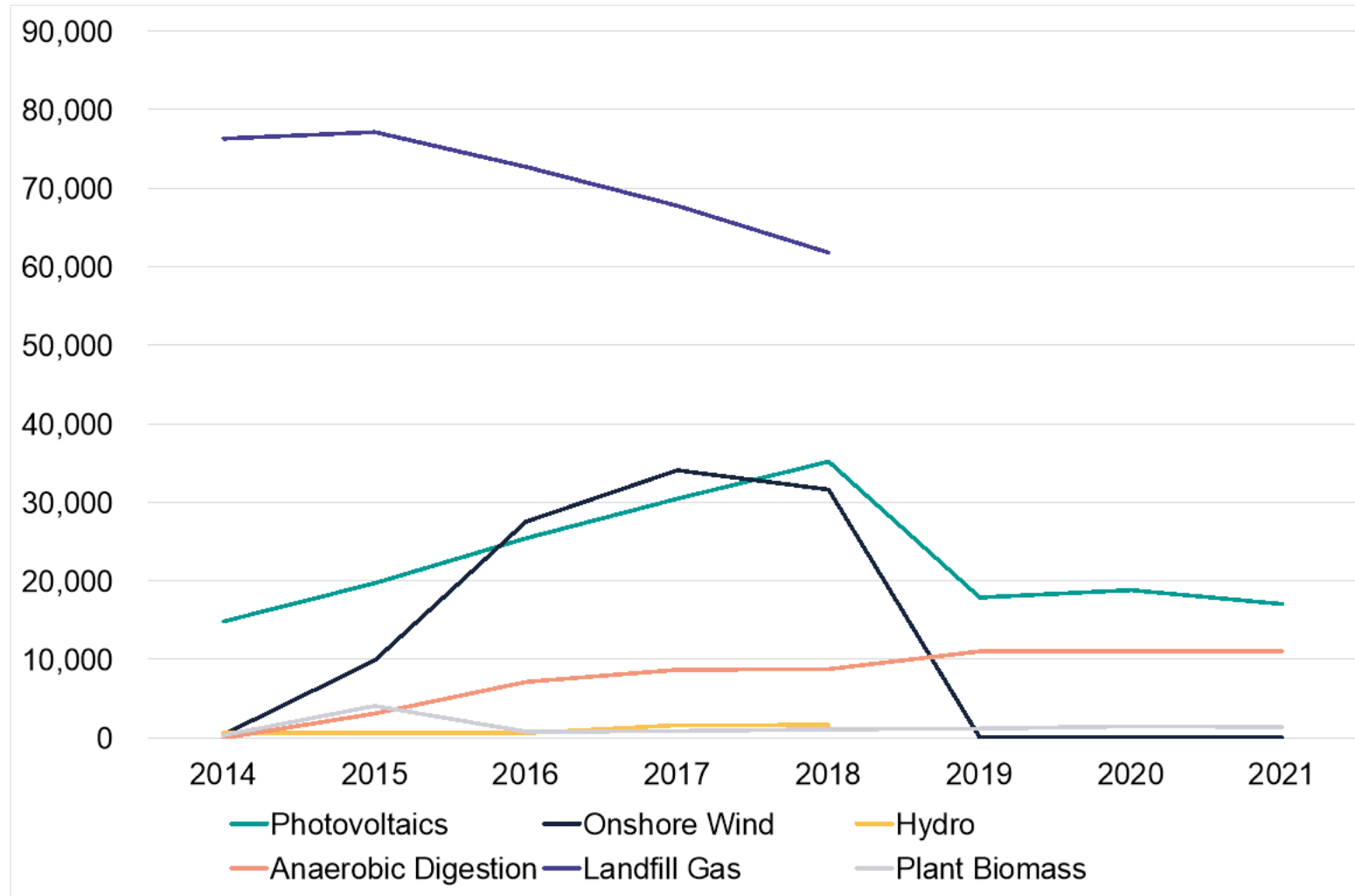
Figure 13: Renewable electricity generation (MWh) by local authority, 2021



Source: Renewable electricity by local authority 2014 - 2021, BEIS

In Leeds no generation is recorded for Landfill Gas from 2019 onwards and there was a sharp fall in generation from Onshore Wind at same time

Figure 14: Renewable electricity generation (MWh) by local authority, 2021

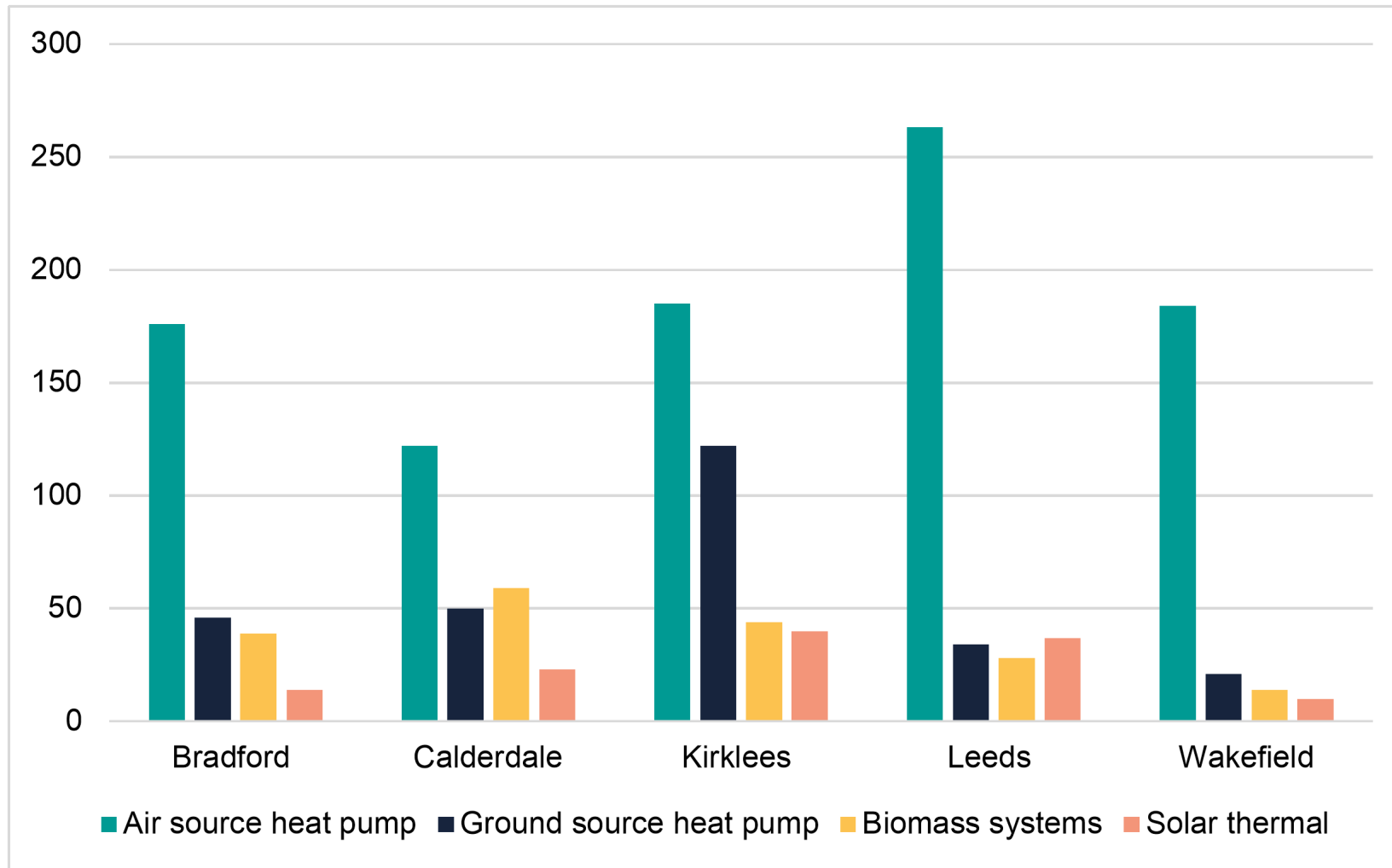


Source: Renewable electricity by local authority 2014 - 2021, BEIS

Suggested additional indicators

There were just over 3,000 Renewable Heat Incentive accreditations in West Yorkshire (2014 to 2021), 62% of them for air source heat pumps

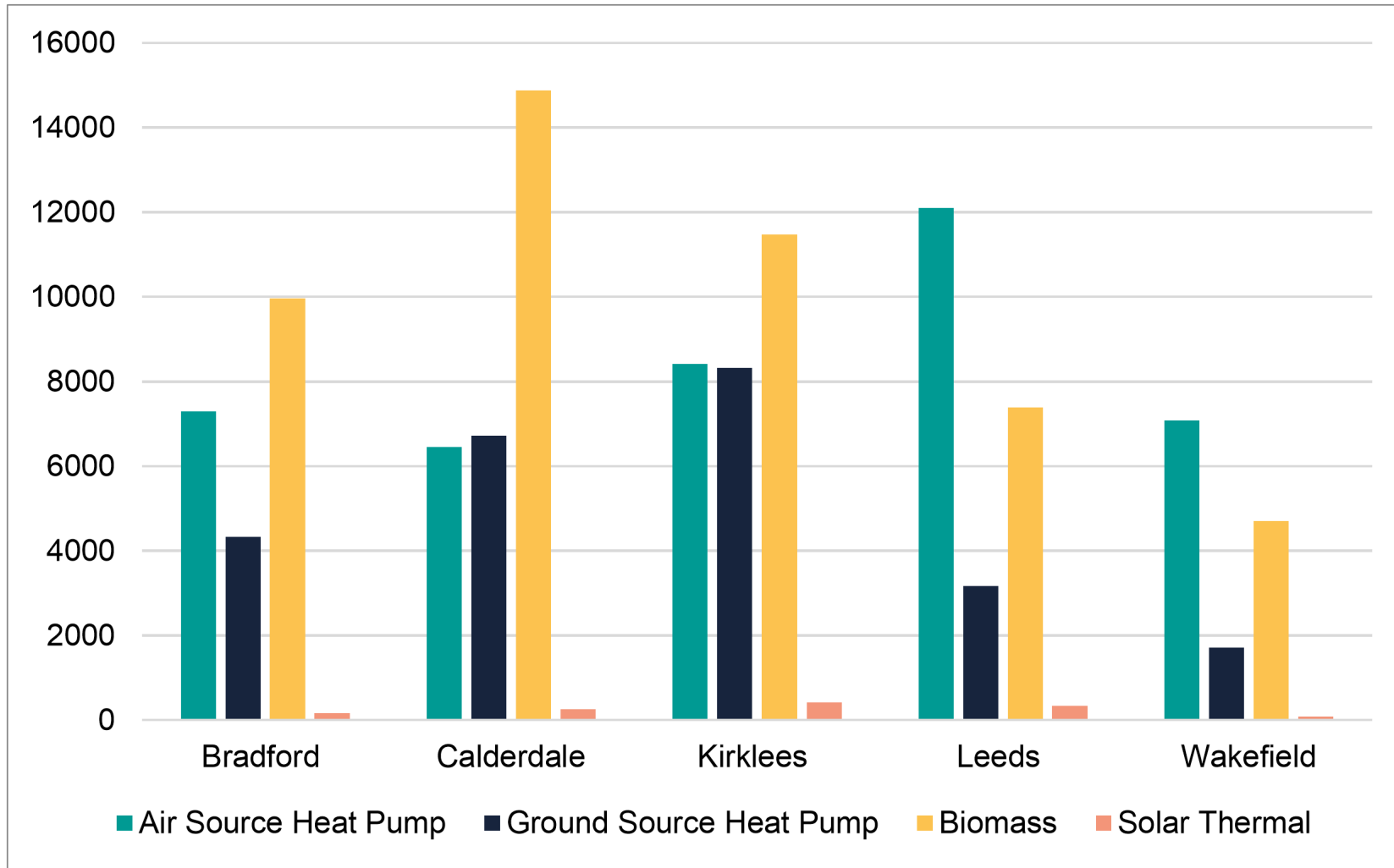
Figure 15: Number of RHI accreditations by local authority by technology, April 2014 to December 2021



Source: Non-Domestic and Domestic Renewable Heat Incentive (RHI) monthly deployment data : September 2022

Around 115,000 MWh of heat was paid for in West Yorkshire via RHI, with Biomass the biggest source (42% of total)

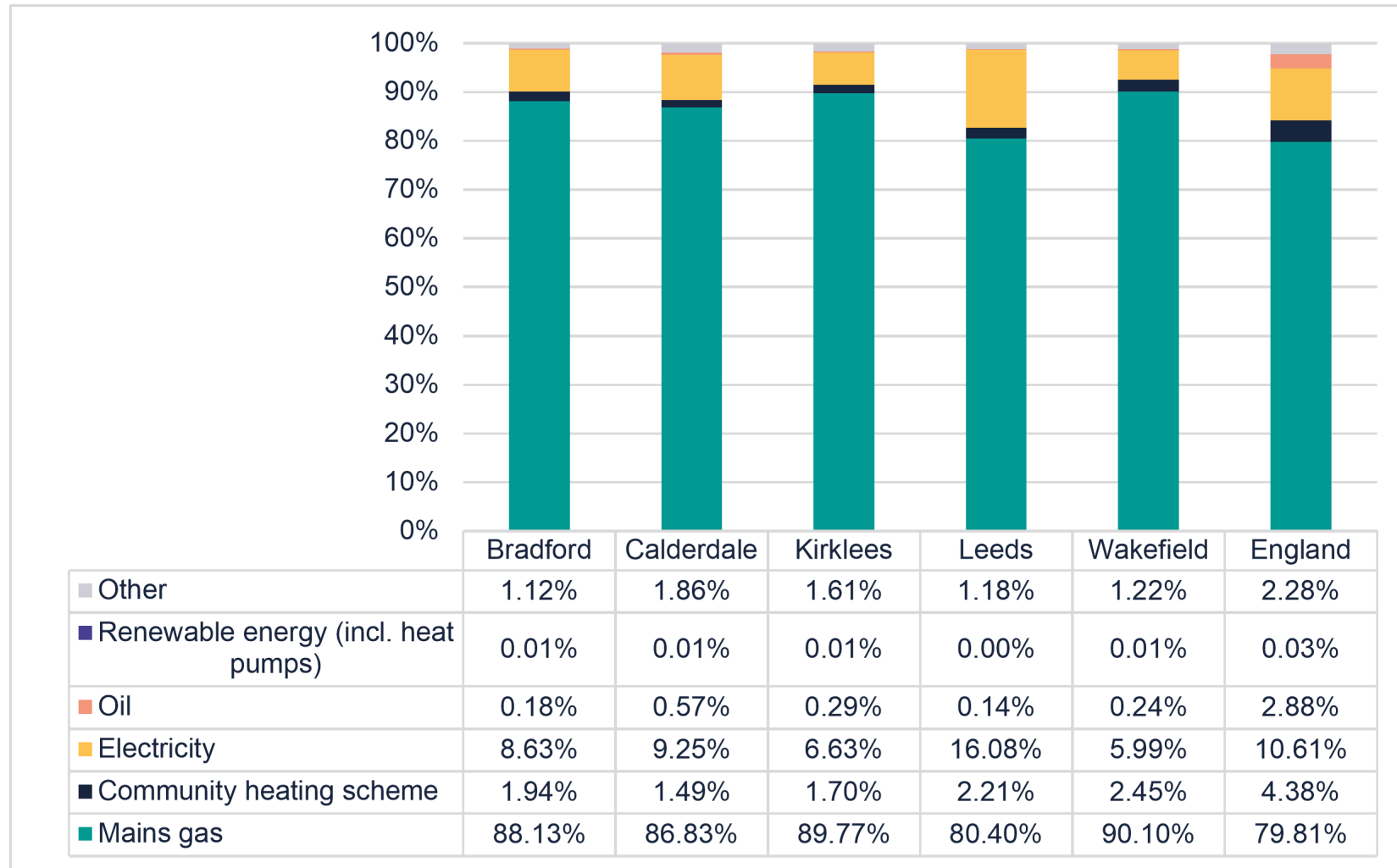
Figure 16: Amount of heat paid for by local authority by technology (MWh), April 2014 to December 2021



Source: Non-Domestic and Domestic Renewable Heat Incentive (RHI) monthly deployment data : September 2022

Renewables account for a very small proportion of the installed base of domestic heating systems

Figure 17: Percentage of dwellings by main fuel type or method of heating used in central heating for all dwellings

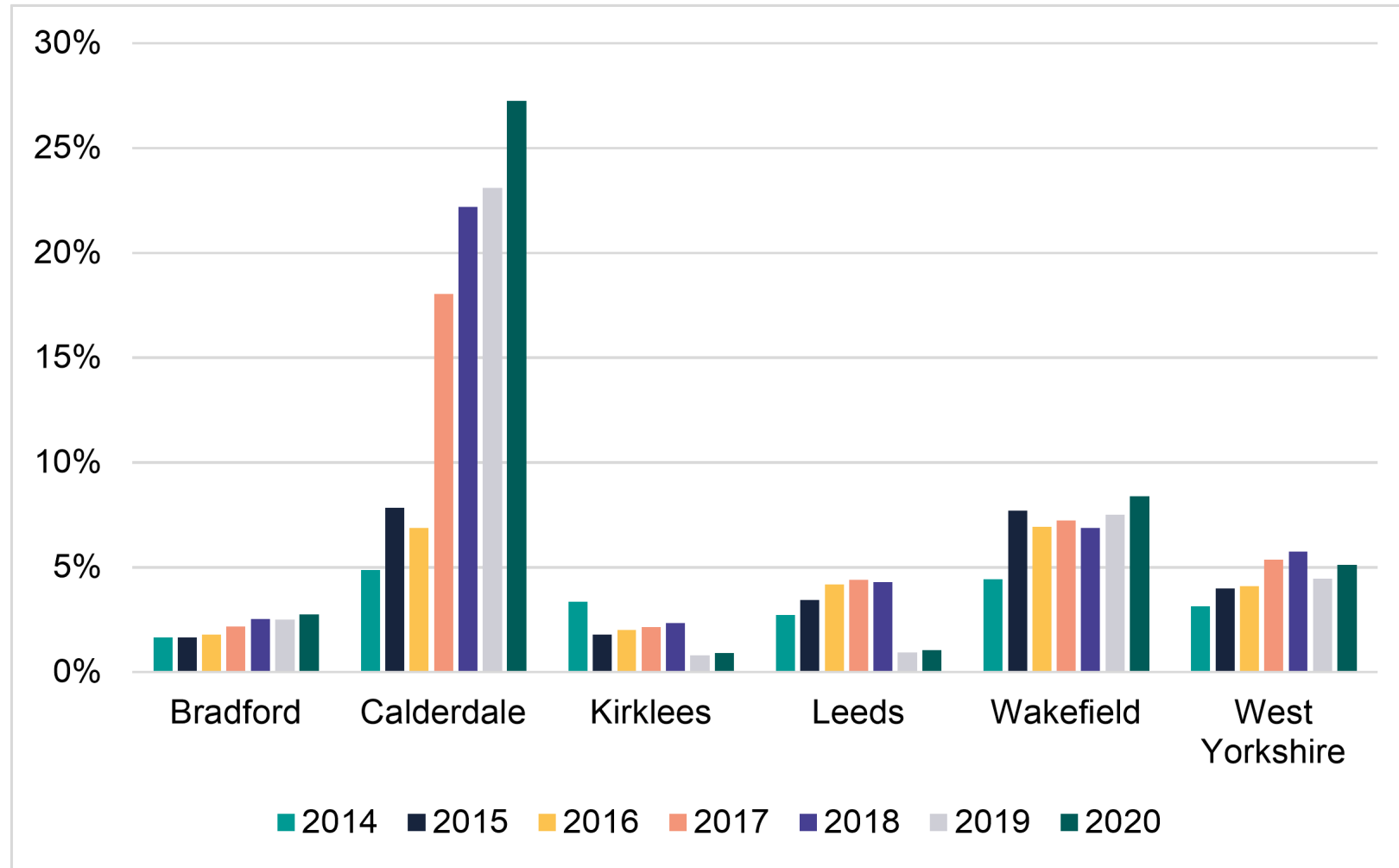


Renewable Heat

Source: Energy Efficiency of Housing, England and Wales, local authority districts, ONS

Calderdale has the highest ratio of renewables electricity generation to overall electricity consumption

Figure 18: Ratio of total electricity consumption to renewable electricity generation by local authority



Local electricity demand met by renewables

Source: Subnational electricity consumption and Renewable electricity by local authority 2014 - 2021, BEIS