

Carbon Dioxide Emissions: 2020¹

This release now covers territorial emissions of carbon dioxide, methane and nitrous oxide, although not fluorinated gases. However, the focus of this briefing will be on carbon dioxide emissions only.

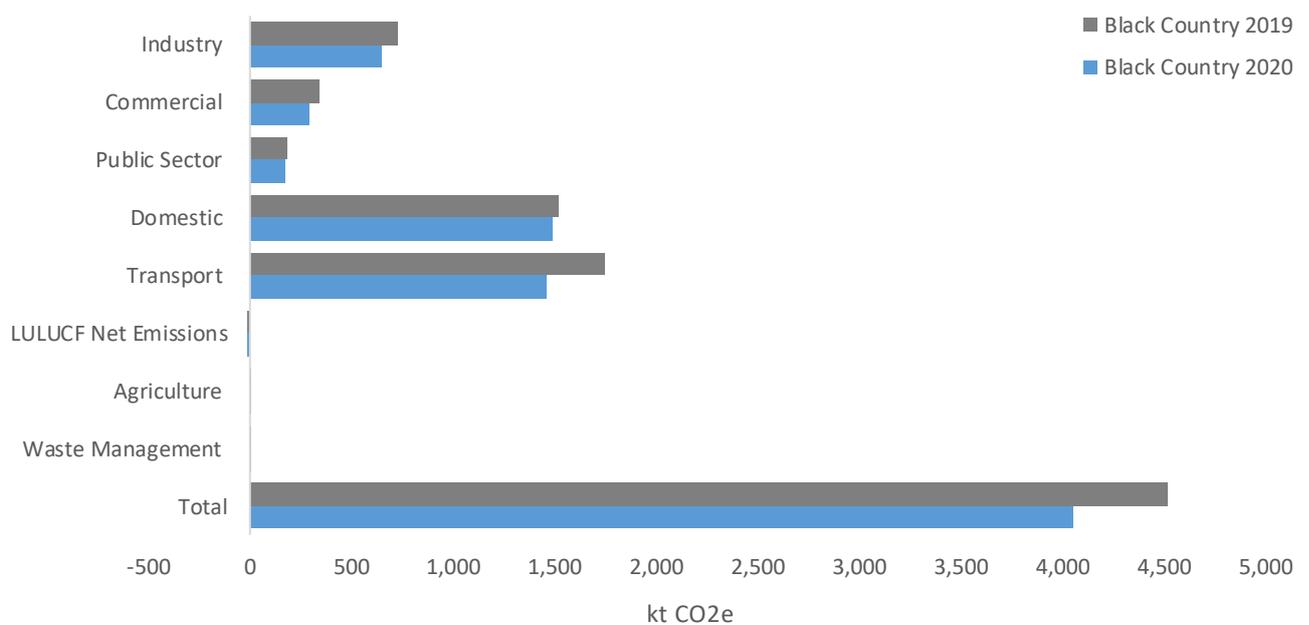
Summary

- In 2020, the Black Country area produced a total of 4,062 kt CO₂e emissions, a decrease of 10.3% (-465 Kt CO₂e) compared to a decrease of 10.5% nationally since 2019.
- Carbon dioxide emissions for the Black Country area equated to 3.4 tonnes per capita, below the England average of 4.3 in 2020.
- Domestic accounted for the highest proportion of carbon dioxide emissions at 36.8% (1,493 Kt CO₂e) of total emissions, which was above the England-wide proportion of 26.3%.

Full Briefing

- In 2020, the Black Country area produced a total of 4,062 kt CO₂e emissions, a decrease of 10.3% (-465 Kt CO₂e) compared to a decrease of 10.5% nationally since 2019. Carbon dioxide emissions for the Black Country area equated to 3.4 tonnes per capita, below the England average of 4.3 in 2020. Emissions were 11.4 kt per km² for the Black Country area compared to 1.8 kt per km² for England in 2020.
- Emissions are broken into eight main categories which can be seen in the following chart. In 2020, three categories accounted for 88.6% of carbon dioxide emissions; domestic accounted for the highest proportion at 36.8% (1,493 Kt CO₂e) of total emissions, which was above the England-wide proportion of 26.3%. This was followed by transport at 35.9% (1,460 Kt CO₂e) of the total (England 30.7%) and industry at 15.9% (646 Kt CO₂e) of the total (England 17.4%).

Black Country carbon dioxide emissions summary, 2019 and 2020:



¹ Source: [Department for Business, Energy & Industrial Strategy, UK local authority and regional greenhouse gas emissions](#), released June 2022



- Within the Black Country in 2020, Sandwell produced the highest emissions at 1,259 Kt CO₂e (3.8 tonnes per capita or 14.7 kt per km²), followed by Dudley at 1,013 kt CO₂e (3.1 tonnes per capita or 10.3 kt per km²). Wolverhampton was the lowest with 855 Kt CO₂e (3.2 tonnes per capita or 12.3 kt per km²). Walsall produced 934 Kt CO₂e (3.3 tonnes per capita or 9.0 kt per km²).

Total Emissions by category (measured in Kt CO₂e), per capita and per kilometre for the Black Country, West Midlands region and England in 2020:

	Industry	Commercial	Public Sector	Domestic	Transport	LULUCF Net Emissions	Agriculture	Waste Management	Grand Total	Per Capita Emissions (tCO ₂ e)	Emissions per km ² (kt CO ₂ e)
Dudley	140	55	45	419	358	-3	1	0	1,013	3.1	10.3
Sandwell	237	109	39	390	484	-2	0	1	1,259	3.8	14.7
Walsall	142	51	35	353	349	3	2	0	934	3.3	9.0
Wolverhampton	127	74	54	332	268	-3	1	0	855	3.2	12.3
Black Country	646	290	173	1,493	1,460	-5	3	1	4,062	3.4	11.4
West Midlands Region	5,385	1,763	997	7,701	10,095	-184	548	9	26,315	4.4	2.0
England	48,510	19,853	9,887	74,268	88,098	-41	4,896	243	245,713	4.3	1.8