

King's Lynn and West Norfolk District CO₂ Emissions Report, 2018-2019

Environment and Community Panel, Feb 2022

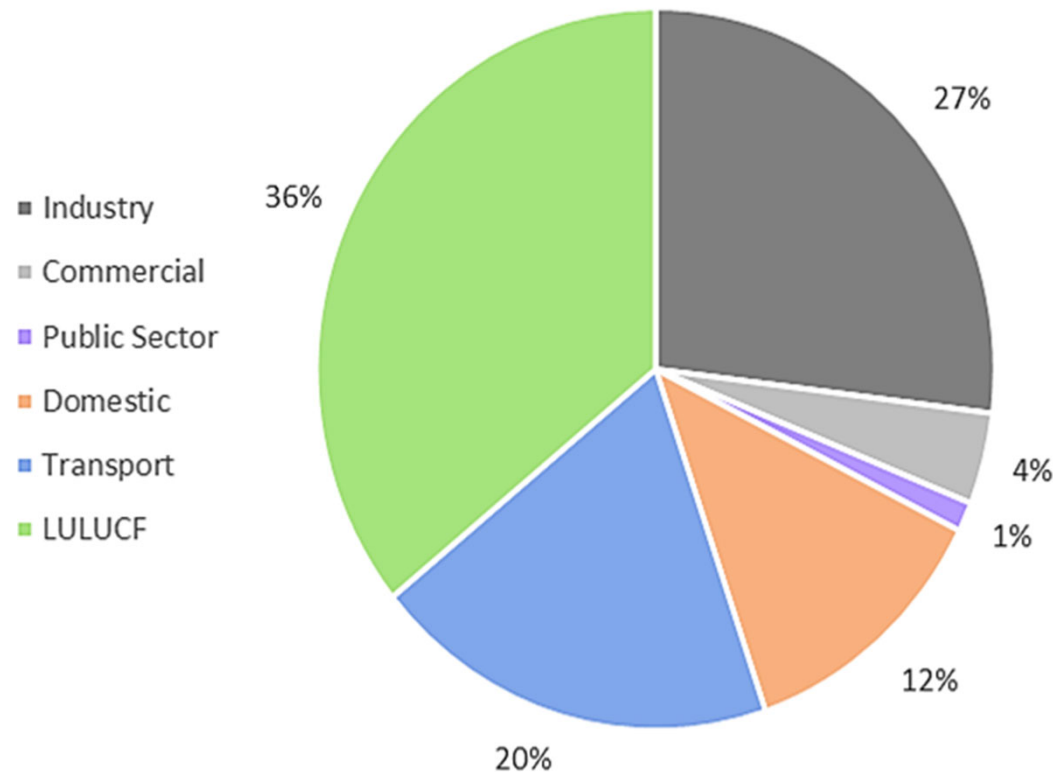
Borough Council of
King's Lynn &
West Norfolk



Overview

- Annually, the Department of Business, Energy, and Industrial Strategy (BEIS) publishes local authority area CO₂ emissions statistics. The 2019 data set contains the most recent published local authority area estimates as of September 2021.
- Emissions are distributed to points of consumption rather than points of generation (such as power stations).
- CO₂ emissions are split into six sectors: industry, commercial, public sector, domestic, transport and land use, land use change and forestry (LULUCF).
- King's Lynn and West Norfolk emitted 1,906.8 kilo tonnes (kt) of CO₂ in 2019 with LULUCF emitting the most (683.8 kt CO₂) and the public sector emitting the least (25.2 kt CO₂).
- King's Lynn and West Norfolk is the largest contributor to Norfolk's CO₂ emissions, accounting for 33.1%.
- Total CO₂ emissions in 2019 have decreased from 2018 levels by 3.2% and are currently the second lowest levels on record for King's Lynn and West Norfolk.

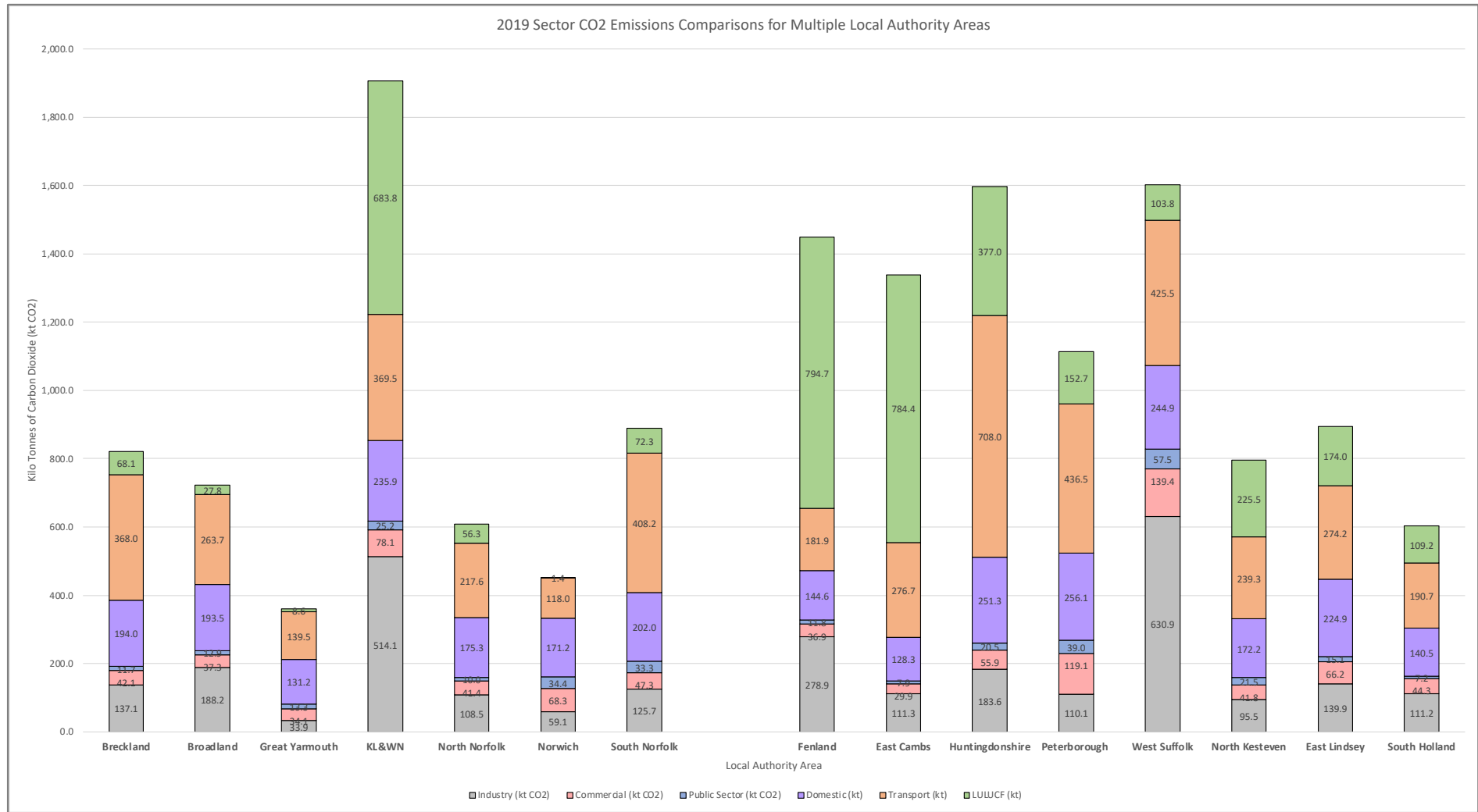
King's Lynn and West Norfolk 2019 CO₂ District Profile



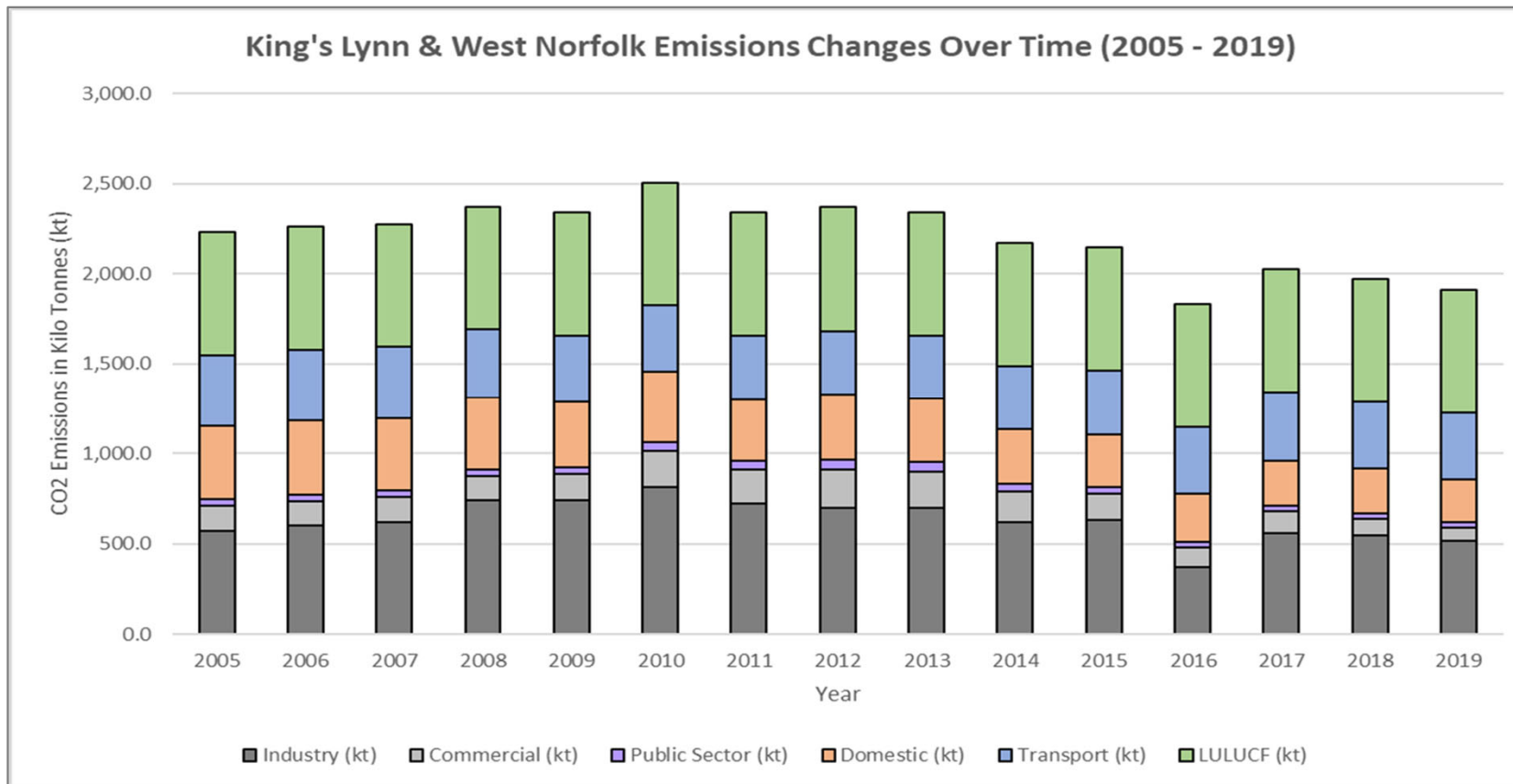
1. LULUCF: 683.8 kt CO₂
2. Industry: 514.1 kt CO₂
3. Transport: 369.5 kt CO₂
4. Domestic: 235.9 kt CO₂
5. Commercial: 78.1 kt CO₂
6. Public Sector: 25.2 kt CO₂

Figure 1: 2019 percentage sector contribution to district CO₂ emissions.

Norfolk Emissions Comparisons: 2019

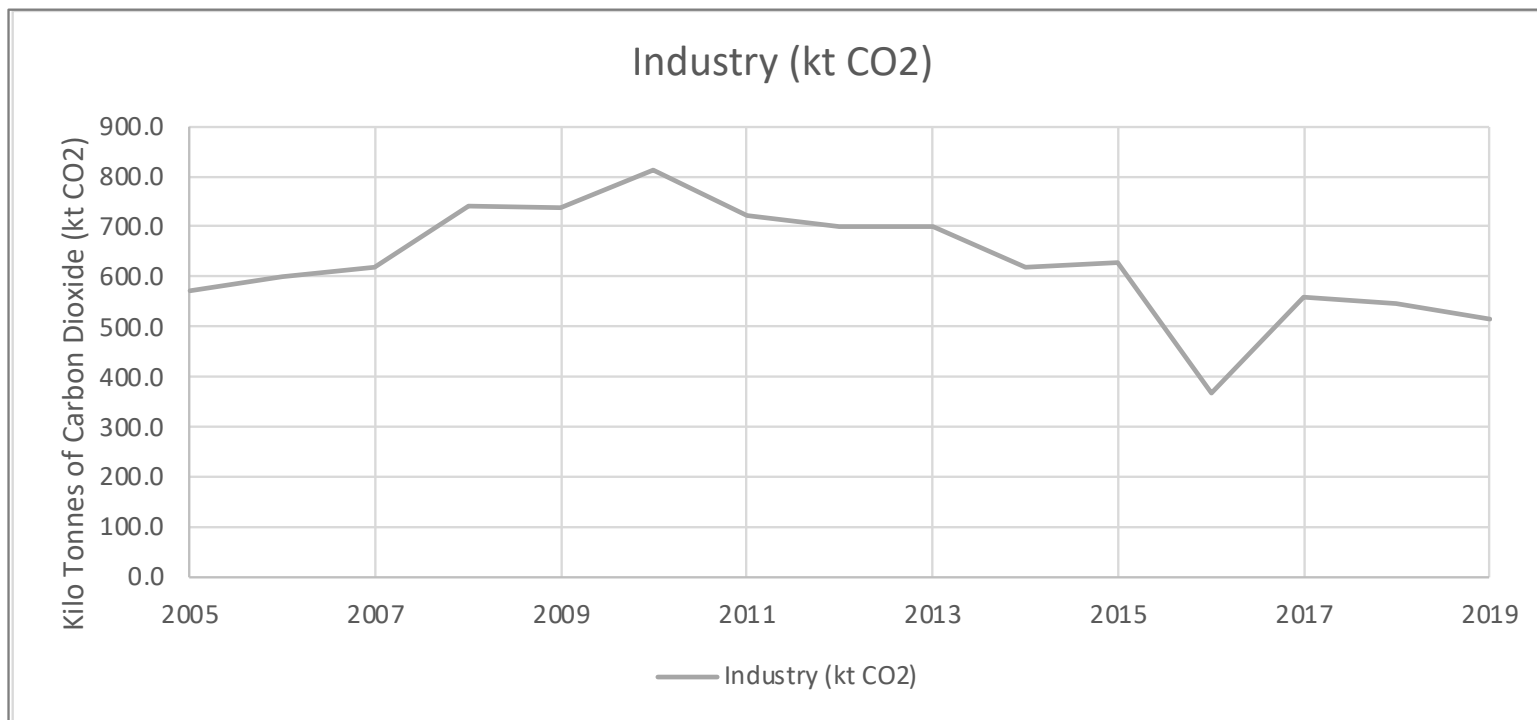


King's Lynn and West Norfolk CO₂ Emissions Change: 2005 - 2019



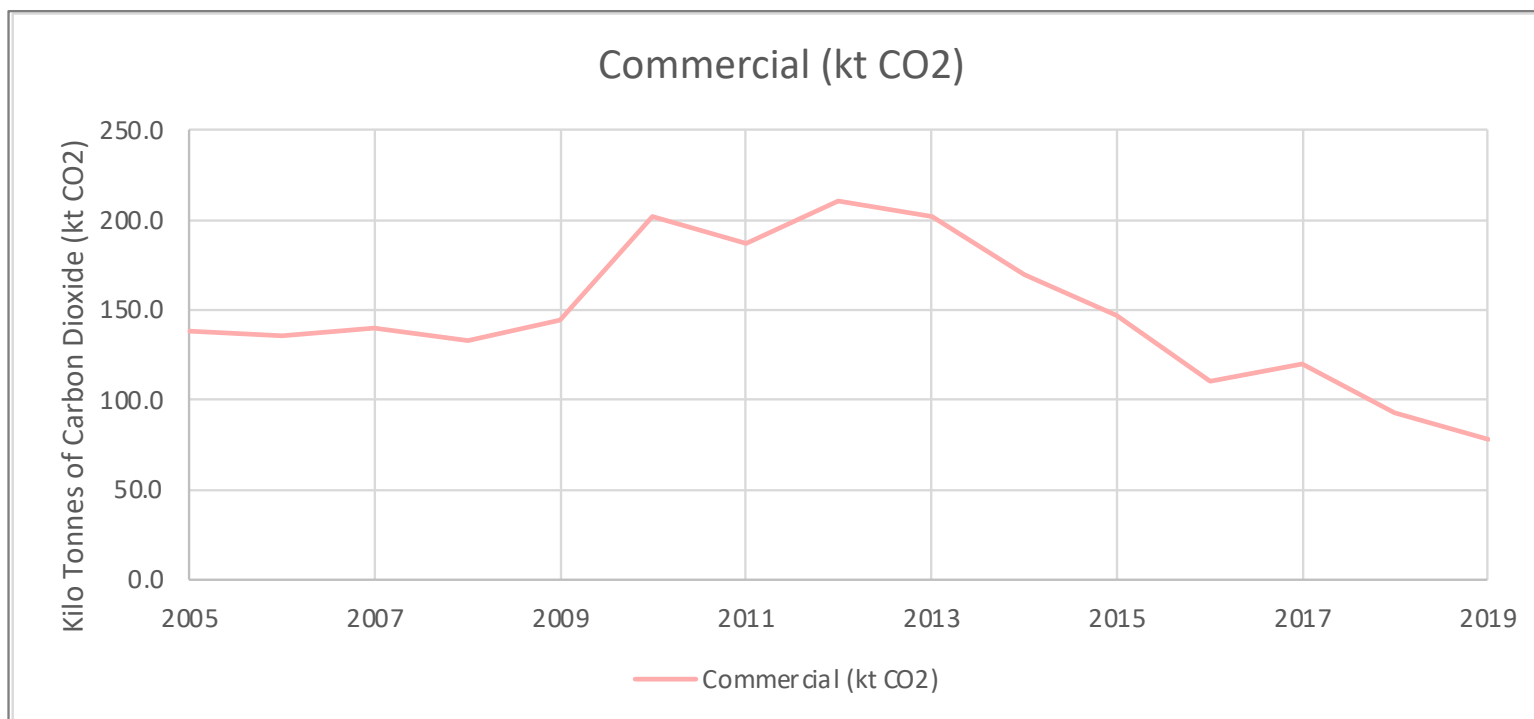
Total emissions decreased by 3.2% from 2018 - 2019

Industry



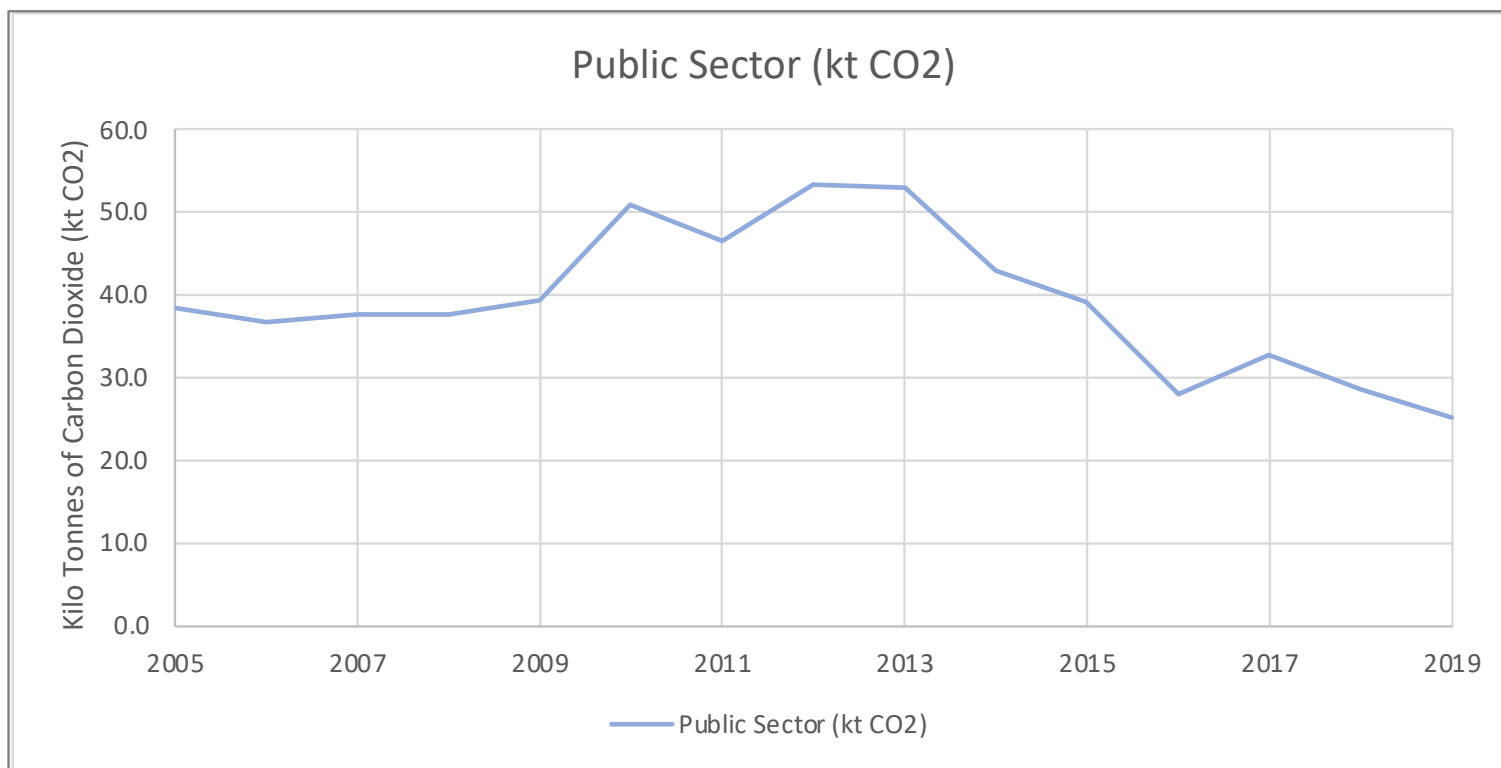
Industry emissions decreased by 6% from 2018 - 2019

Commercial



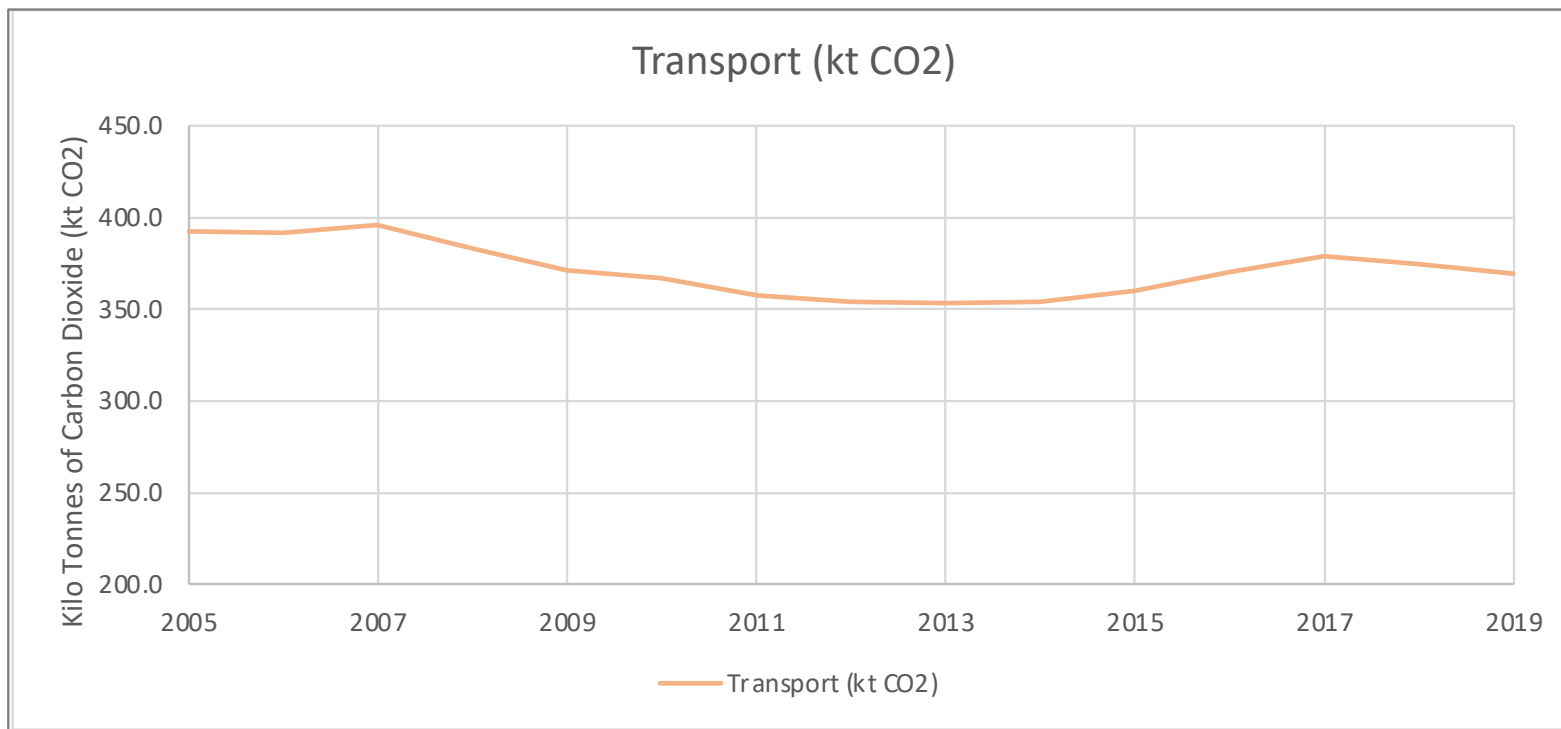
Commercial emissions decreased by 16.2% from 2018 - 2019

Public Sector



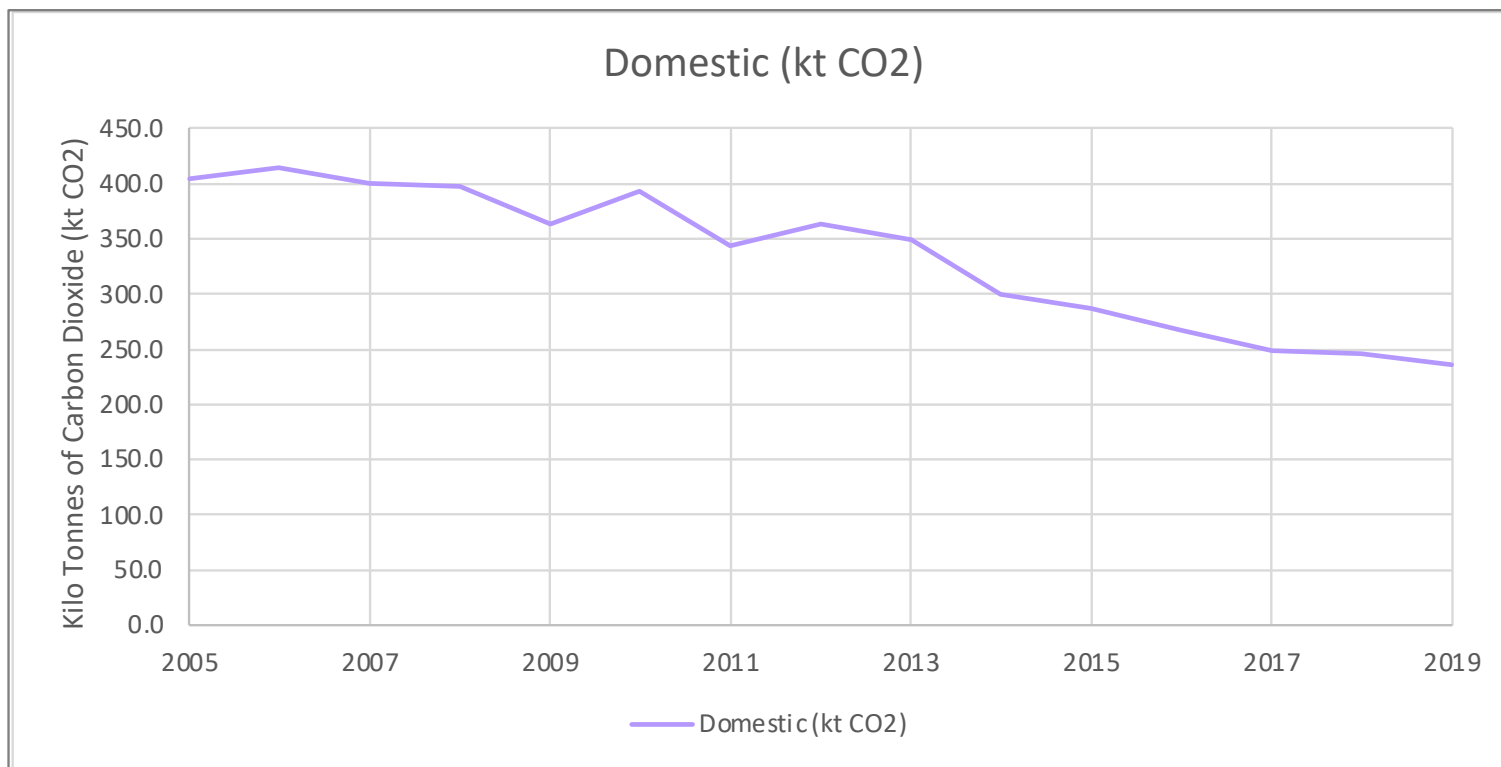
Public Sector emissions decreased by 11.6% from 2018 - 2019

Transport



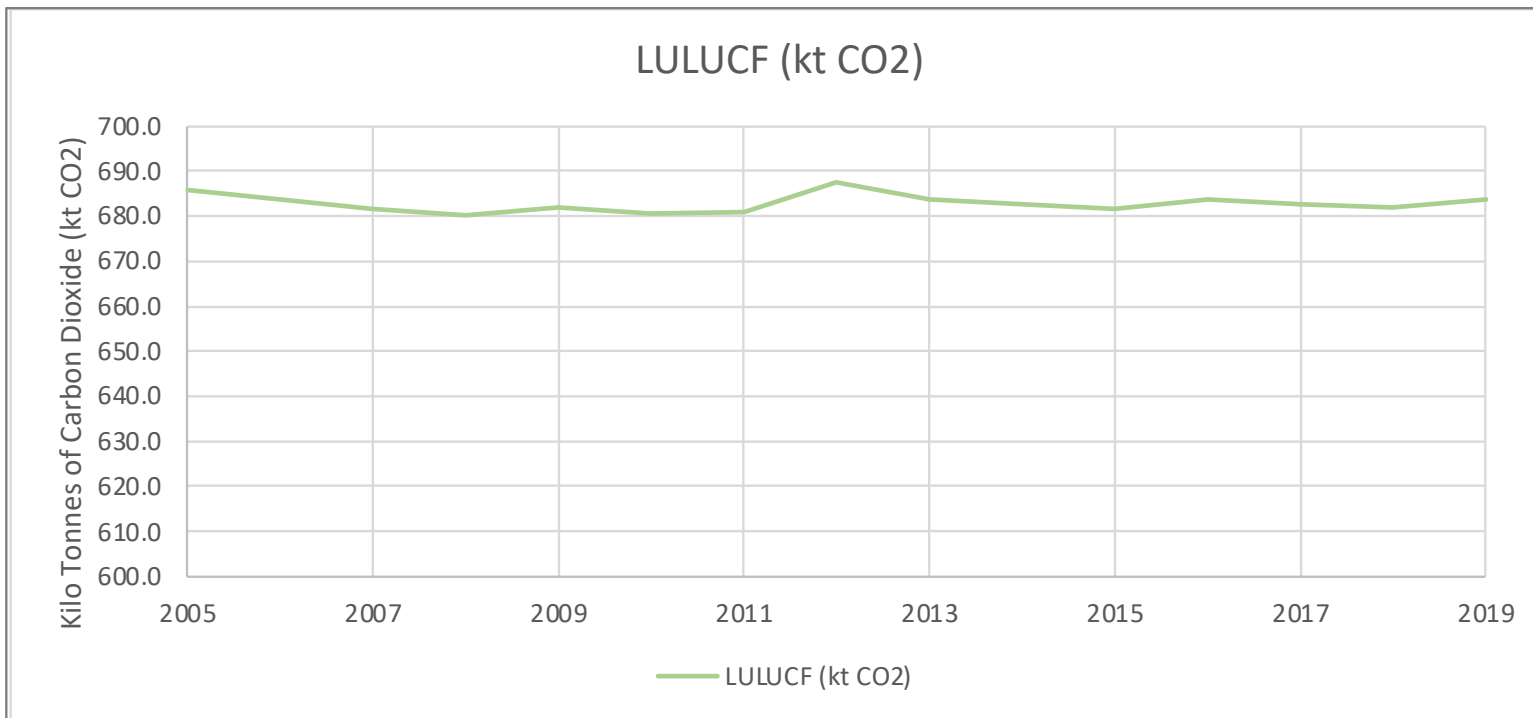
Public Sector emissions decreased by 1.4% from 2018 - 2019

Domestic



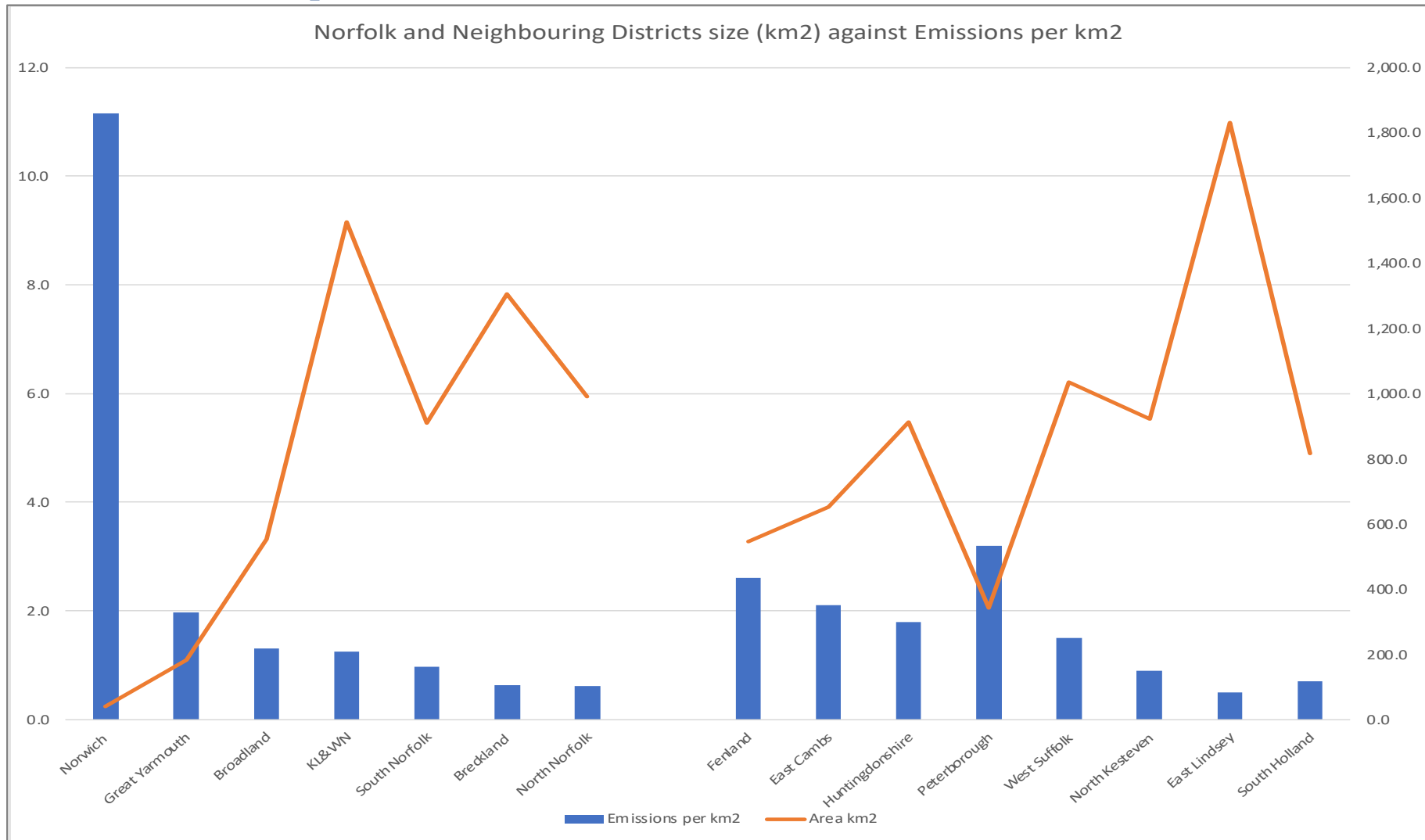
Domestic emissions decreased by 3.7% from 2018 - 2019

Land Use Land Use Change & Forestry



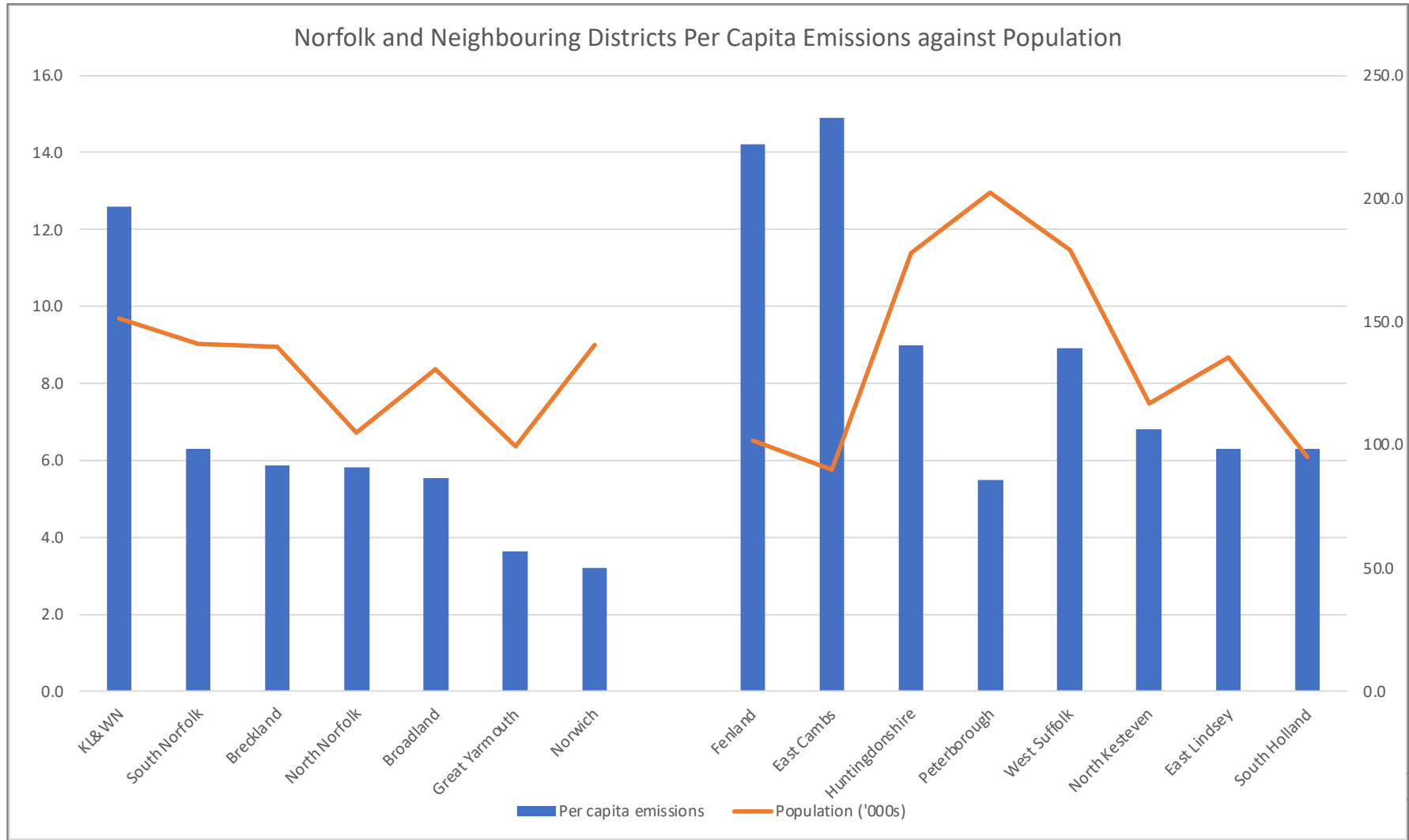
Domestic emissions increased by 0.3% from 2018 - 2019

Emissions per km²



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Per Capita Emissions



Key CO₂ Emissions Changes: 2005 - 2019

- Historical **LULUCF** emissions have changed the most since the improved methodology introduced with the 2019 data.
- LULUCF emissions account for the largest proportion of our district emissions. Overall, LULUCF emissions have decreased from 685.6 kt CO₂ in 2005 to 683.8 kt CO₂ in 2019. This represents a 0.3 % decrease.
- The revised methodology accounts for a historical change in LULUCF emissions of over 600% from previous estimates.
- Emissions fell to their all-time low in 2016, as a result of a reduction in emissions from industry gas usage. There was a subsequent increase in emissions for 2017 from the same source. Unfortunately, BEIS don't provide a detailed breakdown of which industrial installations caused this change.
- Overall, emissions have decreased by 15% since 2005, with a 23.9% decrease from the all-time high of 2,505.3 kt CO₂ in King's Lynn and West Norfolk. Total emissions, however, are still 81 kt CO₂ higher than the all-time low of 1,828.8 kt CO₂ set in 2016.

LULUCF Explanation

- Historical **LULUCF** emissions have changed the most since the improved methodology introduced with the 2019 data.
- It's important to stress that the now larger recorded emissions from LULUCF have always been there. They are now only just being accounted for due to the much improved calculation and estimation methodology.
- LULUCF emissions in our district are mainly from the cropland subsector, which is the lowland drained peat, from our fenlands. These areas of land were drained hundreds of years ago, prior to our knowledge and understanding of the drained peatlands effects on climate change.
- LULUCF emissions from our peatlands are not from our agricultural processes. These are accounted for in the Industry sector. LULUCF emissions from cropland are solely emissions from the natural process by which the peat oxidises and releases emissions.

Conclusion

- CO₂ emissions decreased by 3.2 % across all six emissions sectors between 2018 and 2019. The commercial sector experienced the greatest reduction (12%). Despite reductions in all sectors (with the exception of LULUCF, which increased by 0.3 %), 2019 CO₂ emissions were still higher than the all-time low emissions level of 2016.
- The national LULUCF calculation methodology was revised, and emissions changed from a 14-year average of 84.8 kt CO₂ to a 14-year average of 682.7 kt CO₂. The cropland subsector, which is a result of our district's drained peatlands, is the primary source of LULUCF emissions in King's Lynn and West Norfolk. This includes total sequestration in the district, with agriculture emissions accounted for separately in the industry sector.
- LULUCF accounts for the largest source of our district emissions.