

Framlingham

Estimated Parish Level Greenhouse Gas (GHG) Emissions 2017/18

What are we looking at?

The graphs that follow show the estimated 2017/18 greenhouse gas emissions for:

- **Framlingham** (Local Authority district: *East Suffolk*)

The graphs show emissions estimated using two methods:

- **Territorial-based** emissions: the emissions that come from activities carried out *in* the parish
- **Consumption-based** emissions: the emissions that come from the production of the goods and services we consume, wherever they are emitted

The per-household emissions for each parish are also compared with the per-household emissions for the district in which the parish sits. This lets us see how above or below ‘average’ for our district we are.

The data used comes from a University of Exeter/Centre for Sustainable Energy (CSE) [project](#) and they combine:

- data that can be measured at parish level (e.g. metered gas & electricity) and
- data that are estimated for each Parish based on the kinds of people that live there (Census data) as well as the local transport infrastructure, land-use and local business/commercial activity.

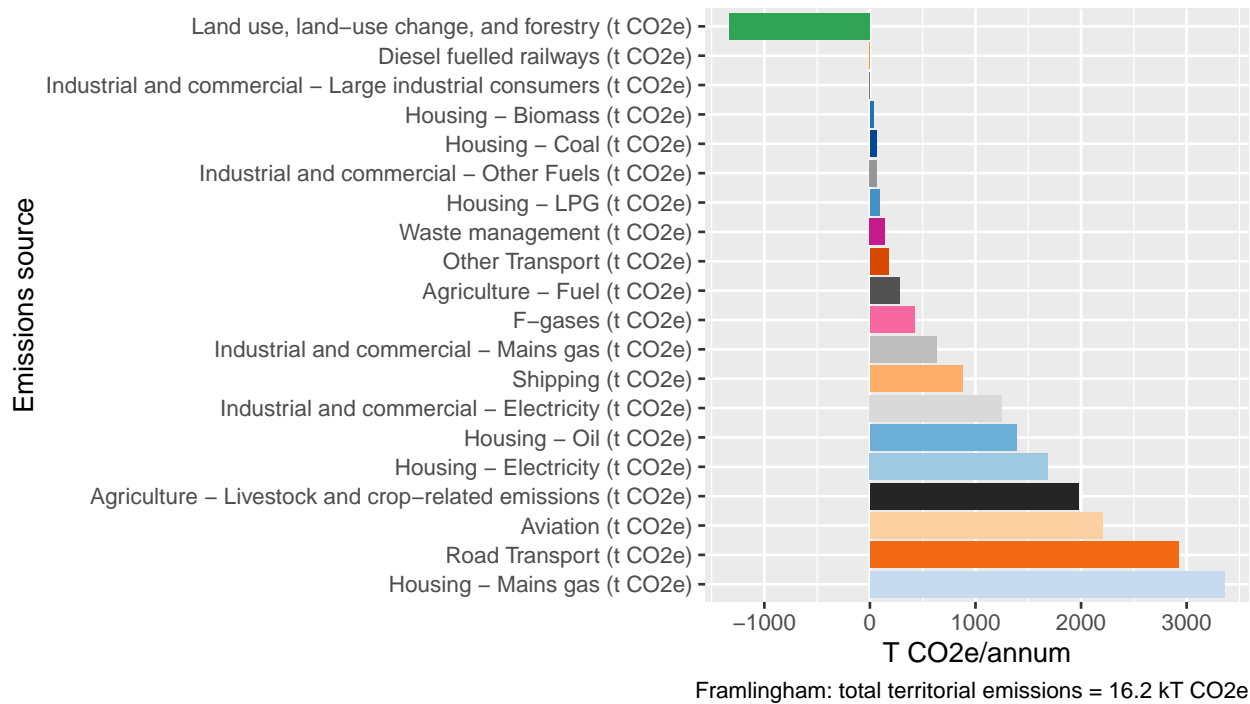
The data are a snapshot of emissions for 2017/18 and so should be seen as a pre-pandemic baseline.

The parish level **territorial** estimates are perhaps best used to paint a broad brush picture of ‘the big things’ that are *likely* to be the main parish level emissions sources. Sometimes this might highlight major through-roads as large emissions sources which can seem unfair if most of the traffic is from ‘out of parish.’ It can also identify a local industrial or agricultural activity as a major source. The parish may not think it can influence this but it could lead to constructive discussions with those businesses (for example).

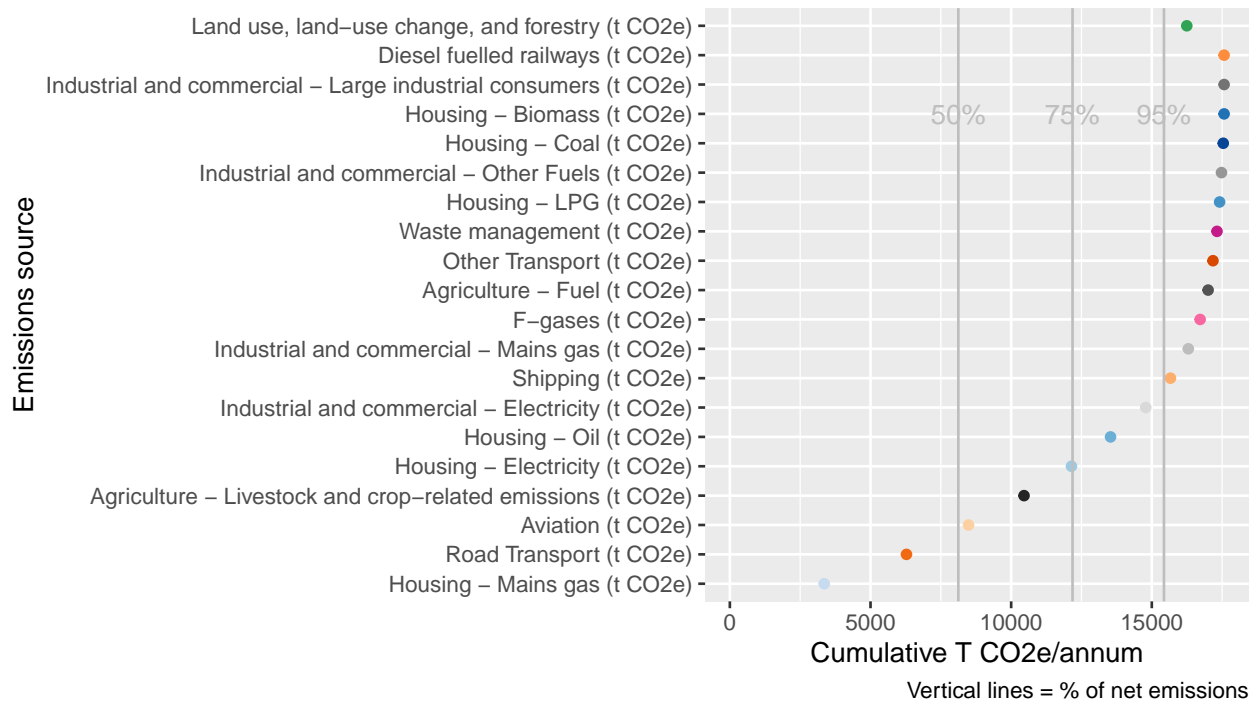
The **consumption** estimates are best used to show which aspects of the parish residents’ consumption are *likely* to be the biggest contributors to overall emissions. This helps us identify a) what we should try to do or use less of and b) how we could deliberately spend in ways that reduce our emissions footprint. It should *always* be remembered that apart from measured energy use, these are estimates and averages - if 100% of the parish never fly and never eat meat/fish then the estimated parish footprints will be wrong...

See the [CSE guidance on using the data](#) for more explanation.

Which are our biggest territorial emissions sources?

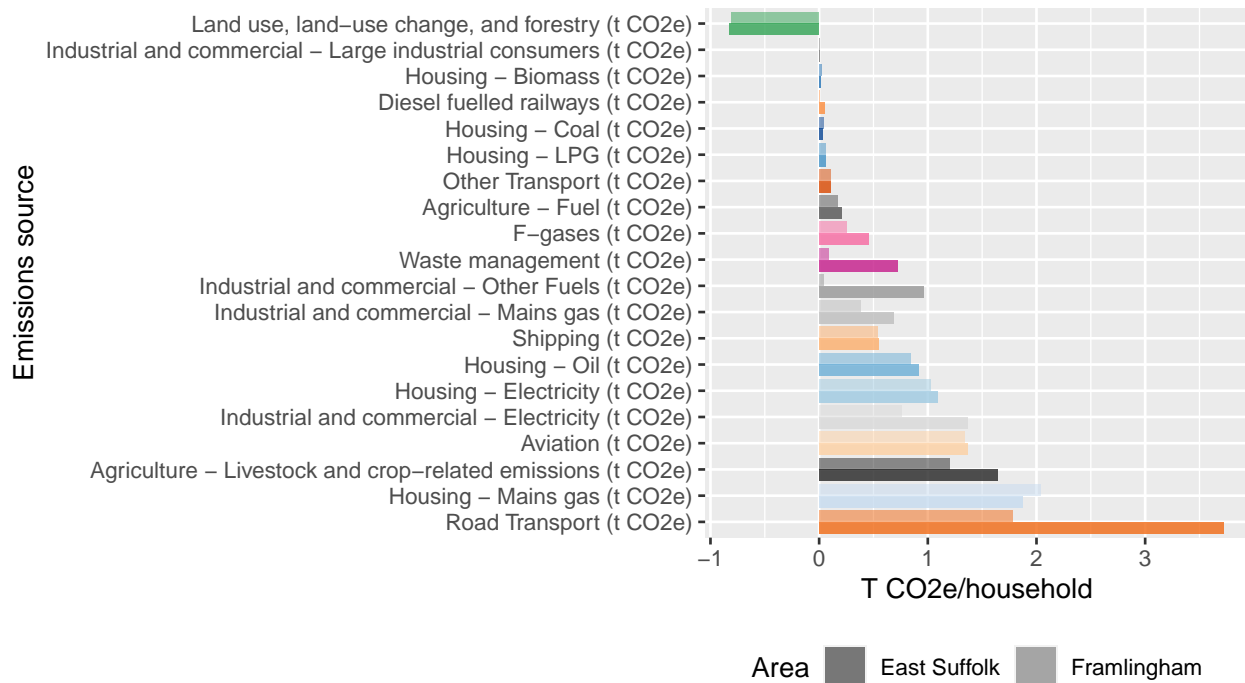


Which big sources make up 50%, 75% or 95% of our territorial emissions?



How do our per household territorial emissions compare with our district?

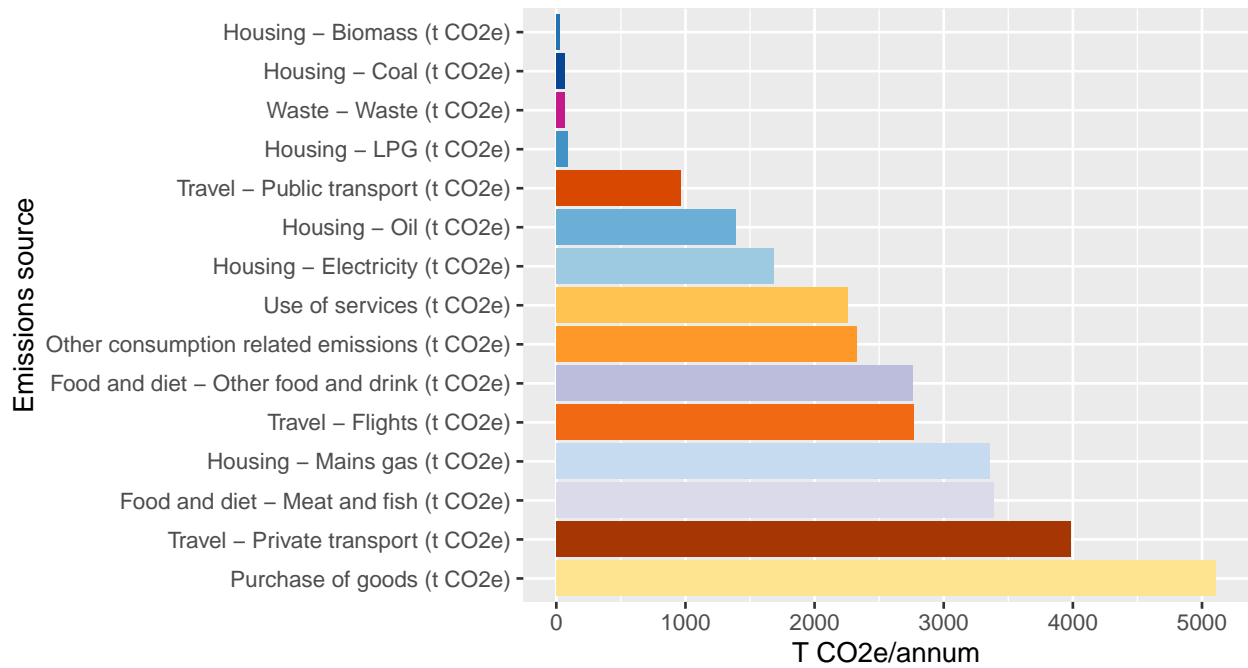
Warning: Using alpha for a discrete variable is not advised.



For comparison:

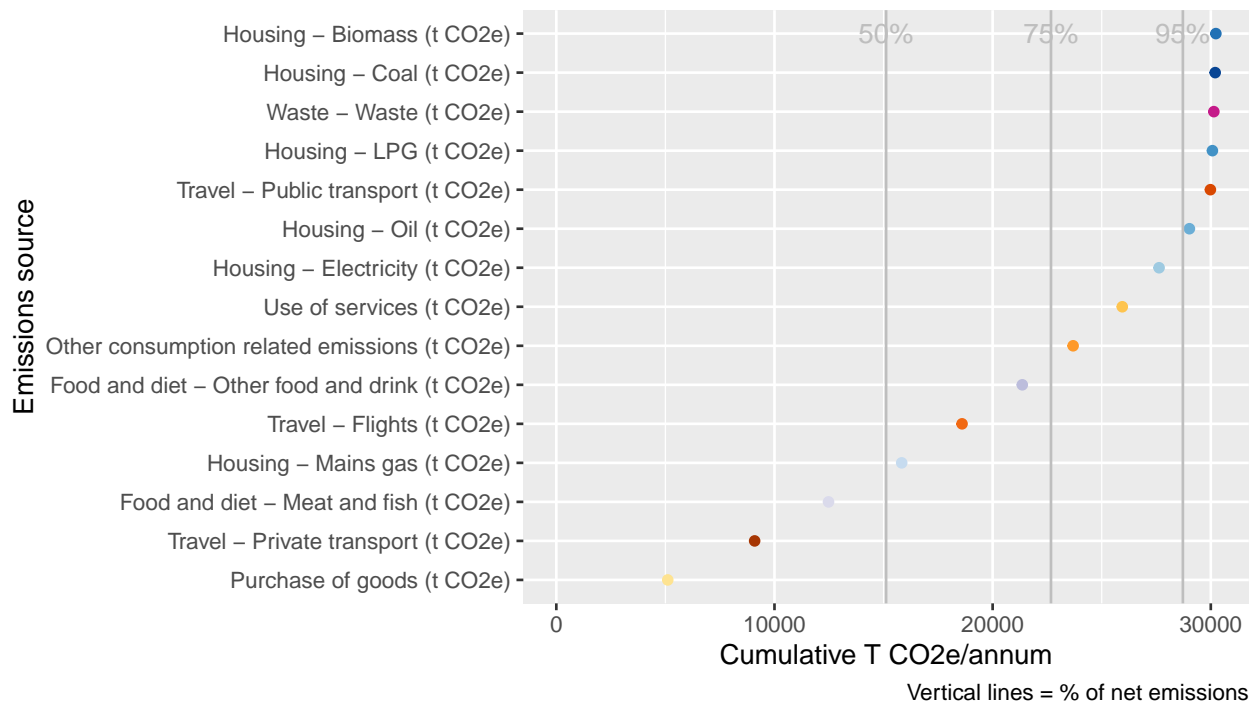
- Framlingham total per household territorial emissions = 9.9 T CO2e
- East Suffolk total per household territorial emissions = 15 T CO2e

Which are our biggest consumption emissions sources?



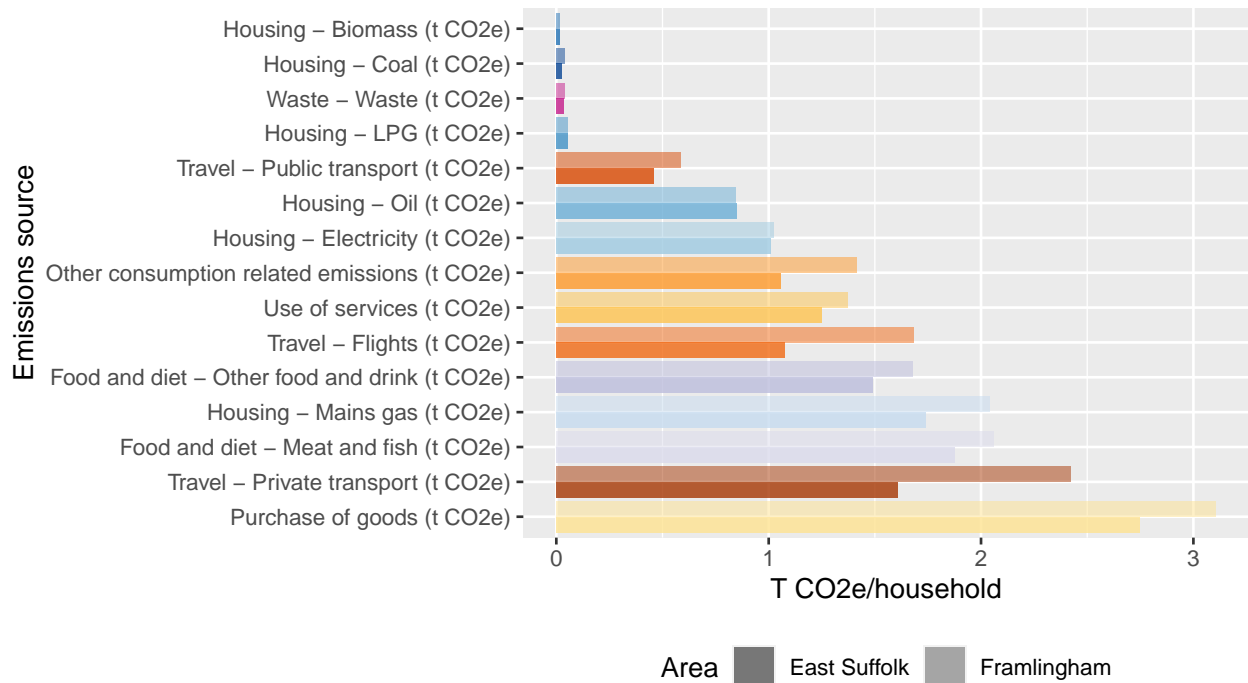
Framlingham: total consumption emissions = 30.2 kT CO2e, 186 % of our territorial emissions

Which big sources make up 50%, 75% or 95% of our consumption emissions?



How do our per household consumption emissions compare with our district?

Warning: Using alpha for a discrete variable is not advised.



For comparison:

- Framlingham total per household consumption emissions = 18.4 T CO2e
- East Suffolk total per household consumption emissions = 15.3 T CO2e

Data tables

The parish data tables used to create the plots - if you need the numbers.

Territorial emissions

Table 1: Parish territorial emissions

id	name	variable	value
E04009407	Framlingham	Housing - Mains gas (t CO2e)	3,355.0
E04009407	Framlingham	Housing - Electricity (t CO2e)	1,686.4
E04009407	Framlingham	Housing - Oil (t CO2e)	1,389.7
E04009407	Framlingham	Housing - LPG (t CO2e)	92.4
E04009407	Framlingham	Housing - Biomass (t CO2e)	30.3
E04009407	Framlingham	Housing - Coal (t CO2e)	62.7
E04009407	Framlingham	Industrial and commercial - Electricity (t CO2e)	1,250.6
E04009407	Framlingham	Industrial and commercial - Mains gas (t CO2e)	633.8
E04009407	Framlingham	Industrial and commercial - Other Fuels (t CO2e)	68.0
E04009407	Framlingham	Industrial and commercial - Large industrial consumers (t CO2e)	0.0
E04009407	Framlingham	Agriculture - Fuel (t CO2e)	283.4
E04009407	Framlingham	Agriculture - Livestock and crop-related emissions (t CO2e)	1,971.9
E04009407	Framlingham	Aviation (t CO2e)	2,206.8
E04009407	Framlingham	Shipping (t CO2e)	879.0
E04009407	Framlingham	Diesel fuelled railways (t CO2e)	0.0
E04009407	Framlingham	F-gases (t CO2e)	421.5
E04009407	Framlingham	Road Transport (t CO2e)	2,924.2
E04009407	Framlingham	Other Transport (t CO2e)	172.3
E04009407	Framlingham	Waste management (t CO2e)	142.8
E04009407	Framlingham	Land use, land-use change, and forestry (t CO2e)	-1,326.8

Consumption emissions

Table 2: Parish consumption emissions

id	parish	variable_n	value
E04009407	Framlingham	Purchase of goods (t CO2e)	5,107.4
E04009407	Framlingham	Use of services (t CO2e)	2,254.1
E04009407	Framlingham	Other consumption related emissions (t CO2e)	2,329.0
E04009407	Framlingham	Food and diet - Meat and fish (t CO2e)	3,386.2
E04009407	Framlingham	Food and diet - Other food and drink (t CO2e)	2,761.6
E04009407	Framlingham	Housing - Mains gas (t CO2e)	3,355.0
E04009407	Framlingham	Housing - Electricity (t CO2e)	1,686.4
E04009407	Framlingham	Housing - Oil (t CO2e)	1,389.7
E04009407	Framlingham	Housing - LPG (t CO2e)	92.4
E04009407	Framlingham	Housing - Biomass (t CO2e)	30.3
E04009407	Framlingham	Housing - Coal (t CO2e)	62.7
E04009407	Framlingham	Travel - Flights (t CO2e)	2,766.0
E04009407	Framlingham	Travel - Public transport (t CO2e)	963.1
E04009407	Framlingham	Travel - Private transport (t CO2e)	3,983.3
E04009407	Framlingham	Waste - Waste (t CO2e)	64.6

Further information

- On the [differences](#) between territorial-based and consumption-based emissions
- Use the CSE's [online visualisation](#) tool
- A guide to [using the tool](#) online
- Details on the [methods](#) used to estimate the emissions
- Alternatively [download](#) the data for yourself

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Acknowledgements

The code used to generate these graphs draws heavily on Dr [Tom Rushby's Local Authority Emissions](#) explorer.

This report was built using [Rmarkdown](#) in [RStudio](#). The code is [available](#) for inspection and re-use.

R packages used:

- `data.table` (Dowle et al. 2015)
- `flextable` (Gohel 2021)
- `ggplot2` (Wickham 2009)
- `here` (Müller 2017)
- `knitr` (Xie 2016)
- `rmarkdown` (Allaire et al. 2018)

References

- Allaire, JJ, Yihui Xie, Jonathan McPherson, Javier Luraschi, Kevin Ushey, Aron Atkins, Hadley Wickham, Joe Cheng, and Winston Chang. 2018. *Rmarkdown: Dynamic Documents for r*. <https://CRAN.R-project.org/package=rmarkdown>.
- Dowle, M, A Srinivasan, T Short, S Lianoglou with contributions from R Saporta, and E Antonyan. 2015. *Data.table: Extension of Data.frame*. <https://CRAN.R-project.org/package=data.table>.
- Gohel, David. 2021. *Flextable: Functions for Tabular Reporting*. <https://CRAN.R-project.org/package=flextable>.
- Müller, Kirill. 2017. *Here: A Simpler Way to Find Your Files*. <https://CRAN.R-project.org/package=here>.
- Wickham, Hadley. 2009. *Ggplot2: Elegant Graphics for Data Analysis*. Springer-Verlag New York. <http://ggplot2.org>.
- Xie, Yihui. 2016. *Knitr: A General-Purpose Package for Dynamic Report Generation in r*. <https://CRAN.R-project.org/package=knitr>.