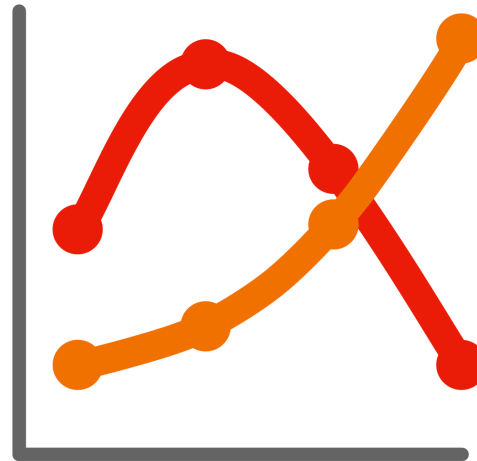
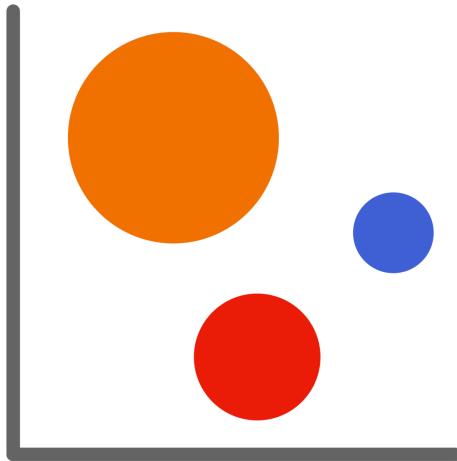


User Guide

UK Air Pollution/Emissions Data Explorer



chronicillnesschannel.co.uk/data-explorer
Explorer v4.0

User Guide v1.0

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Data Explorer Summary

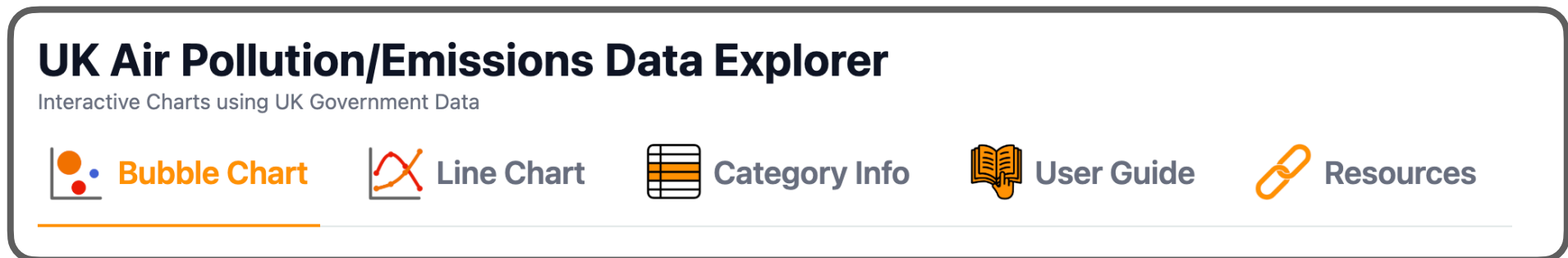
The CIC UK Air Pollution/Emissions Data Explorer uses downloads from the National Atmospheric Emissions Inventory (NAEI). <https://naei.energysecurity.gov.uk/data/data-selector>

This dataset has been combined into categories, enabling more transparent comparison between pollution sources and a clearer understanding of each source's contribution to overall emissions.

Data Explorer Navigation

Clickable links have **orange** text.

Use the keyboard's left and right arrow keys to move between the five tabs.



Pollution Charts

This data explorer includes two interactive charts that help you compare pollution/emissions from different sources:



Pollution Bubble Chart



Pollution Line Chart

Some features work the same across both charts, while others behave differently. Shared features are explained once, and where the charts differ, the guidance is shown in coloured boxes.

Default Charts

The default selection for each chart is:



Bubble Chart

Pollutant: PM2.5

Category 1: Ecodesign - Ready To Burn

Category 2: Gas Boilers

Year: 2023



Line Chart

Pollutant: PM2.5

Category 1: All

Start Year: 1970

End Year: 2023

Smoothing: On

Pollutant Selector

The Pollutant selector is a dropdown box where the available pollutants can be chosen. Only one pollutant can be selected.

Pollutant:

PM2.5



Category Selector

The Category selectors are also dropdown boxes. When more than one Category is displayed, a Remove Category button appears next to each Category. Click the Add Category button to add another Category selector dropdown that starts with no Category selected.



Ecodesign Stove - Ready To Burn



Remove Category



Gas Boilers



Remove Category



Add Category



Some sources in the NAEI data do not have heat/energy data (Activity Data), so Categories with those sources will not appear as an option in the dropdown box.



When there is no available data for the Pollutant and Category selected in the line chart, the legend on the chart will display: (No data available)

Year Selector

The year selection is different between the two charts.



Year: 2023 ▼

Only one year can be selected in the bubble chart.



Start Year: 1970 ▼

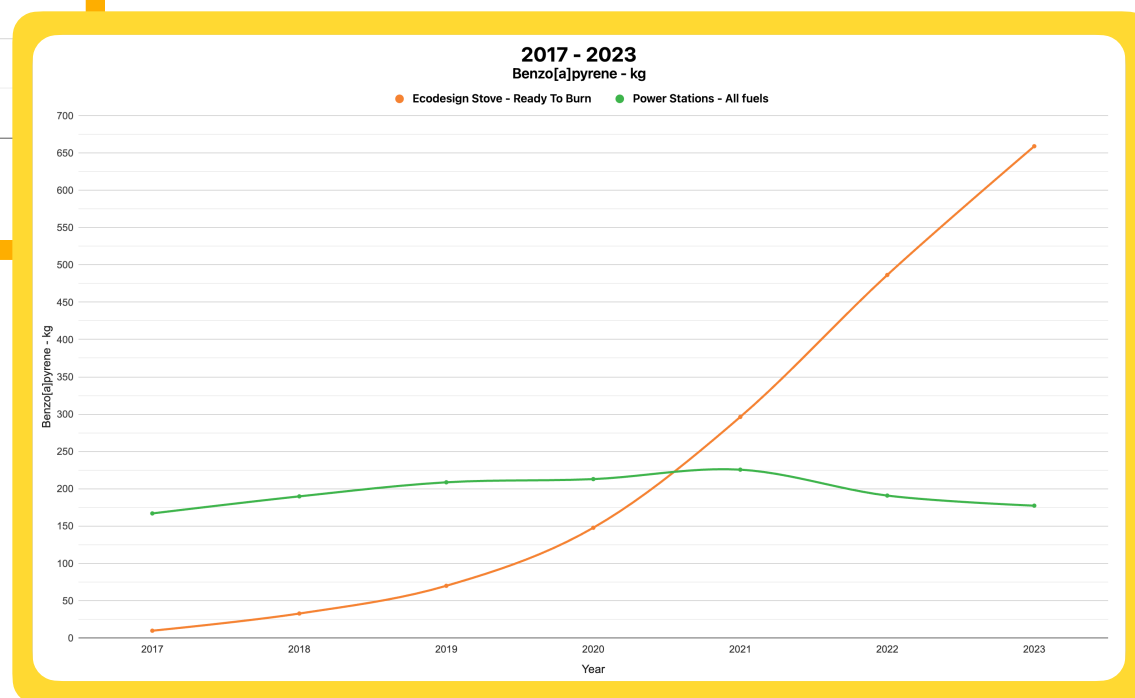
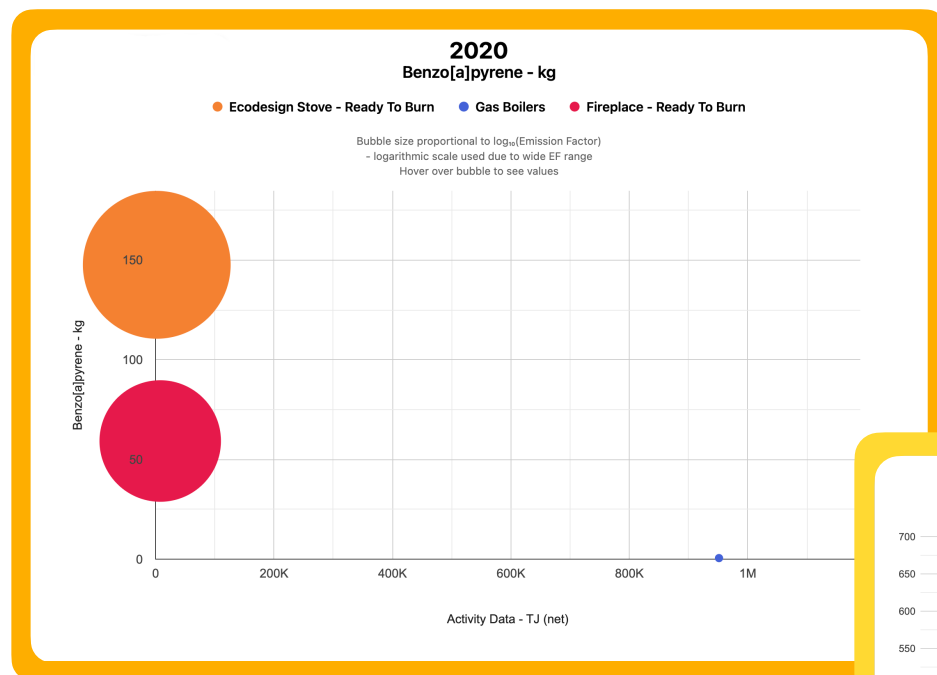
End Year: 2023 ▼

The line chart has Start and End Year dropdown boxes which only display valid options. The Start Year list will not show the selected End Year or any years after it, and the End Year list will not show the selected Start Year or any years before it.

Note: Some categories do not have data for all years, so the legend will display (No data available) when those years are selected.


Redraw Chart

Whenever the fields for Pollutant, Categories or Year are changed, the chart will redraw with the new selections.



Smoothing




 Disable Smoothing

 Enable Smoothing

The line chart has a button for Smoothing, to disable or enable curve-smoothing of the data lines. This is helpful when data points sit near the chart boundary and smoothing makes the line disappear.

Category Order

You can re-order the Category boxes by clicking and dragging the  handle next to each category.



Ecodesign Stove - Ready To Burn



Remove Category



Gas Boilers

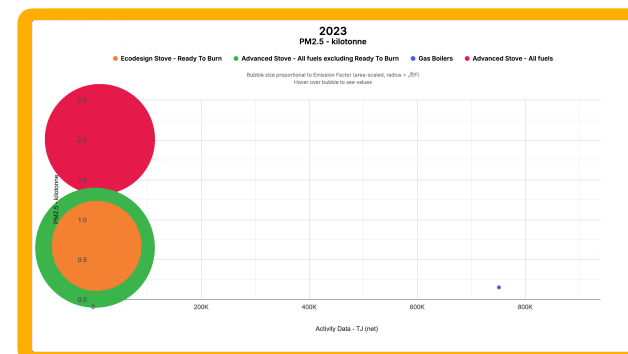
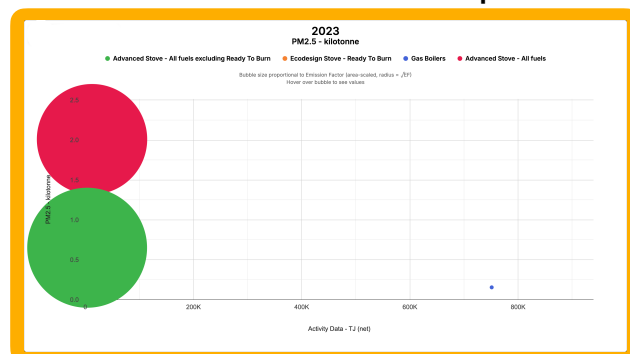


Remove Category



Add Category

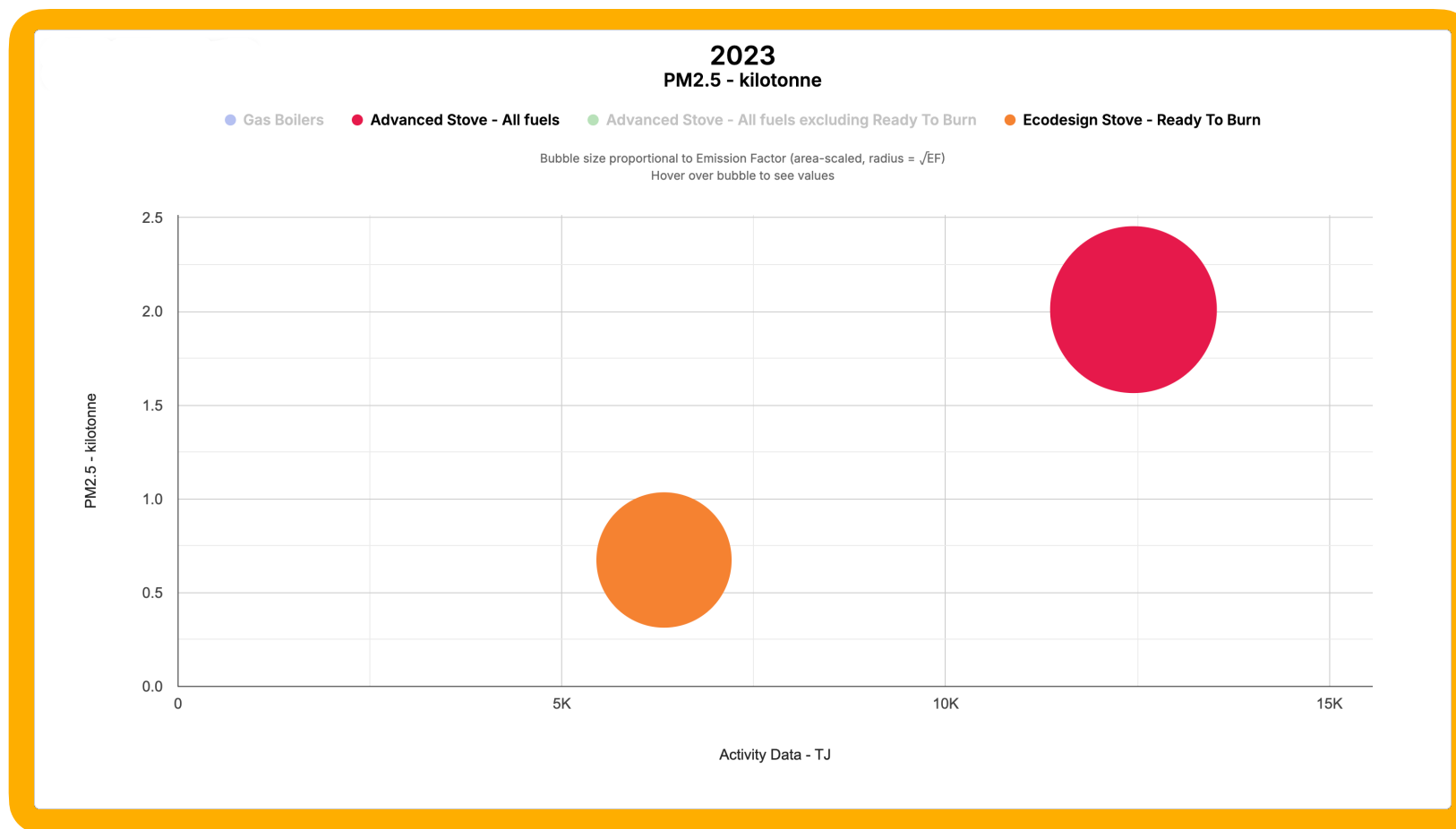
Re-ordering will change the chart layers for the Categories. The Category at the top of the list will be in the front layer, and the Category at the bottom will be in the back layer. This is useful to reveal hidden Categories if bubbles/lines overlap. The legend will re-order to reflect the new Category configuration.



Legend Interaction

Clicking any Category in the legend temporarily removes it from the chart. This is useful to see if Categories are hidden underneath other Categories. If required, you can re-order the Categories as described above.

Categories that are not visible are not included in exported PNG and clipboard images.



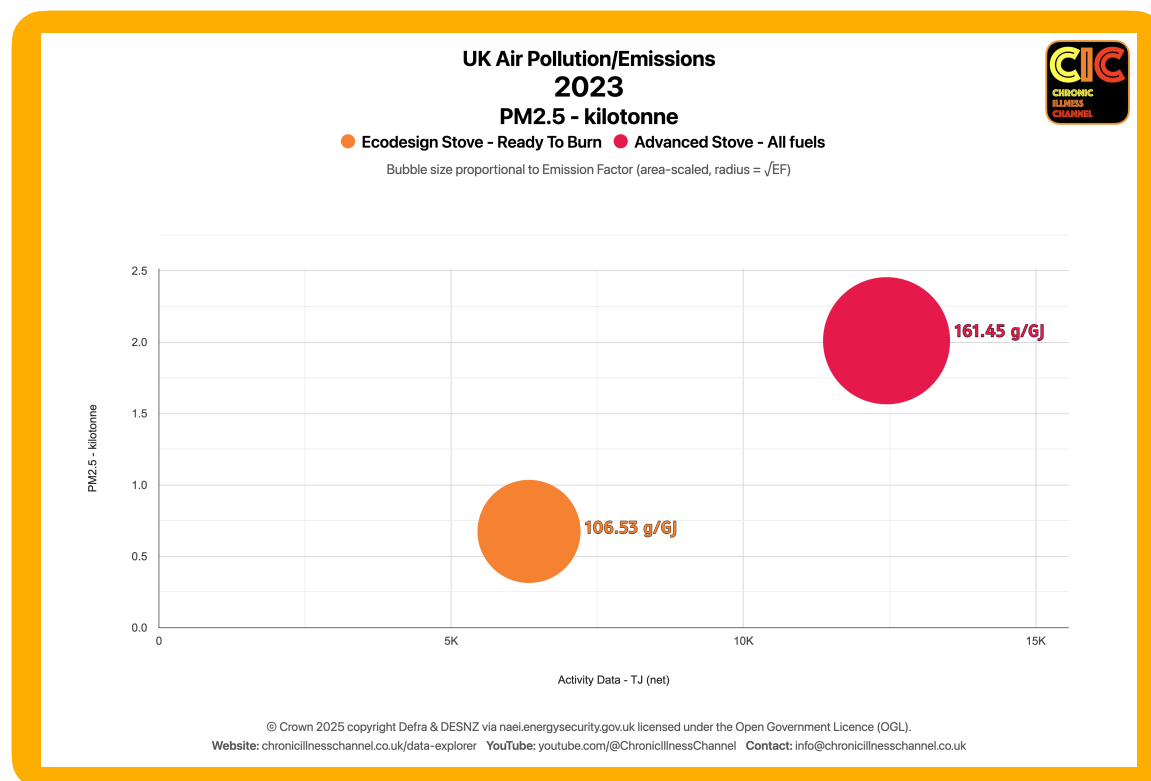
Download Functions

Both charts include the ability to share the chart and export the current chart data.

You can download the chart as a PNG image by clicking this button.

 Download Chart Image – PNG

The image will reflect the chart exactly as displayed, including adjustments like non-visible categories in the legend, and the proportions of the chart. If you resize your browser window, the chart redraws to the viewport size, which will be reflected in the downloaded PNG image.



Download the data in CSV or Excel format (.xlsx)



Download Data - CSV



Download Data - Excel

Pollutant: PM2.5,Unit: kilotonne

Group,2020,2021,2022,2023

Ecodesign Stove - Ready To Burn,0.169743272309024,0.317695866150707,0.497861141096897,0.674474743880626
Fireplace & All Stoves - Ready To Burn,3.57070519774965,3.89393402283925,3.81938322378832,4.20615224100559
Fireplace - Ready To Burn,1.70279753213811,1.87479756381952,1.7744989151741,1.93547953434162

Downloaded on: 2025-11-19 19:19

	A	B	C	D	E
1	Pollutant: PM2.5	Unit: kilotonne			
2					
3	Group	2020	2021	2022	2023
4	Ecodesign Stove - Ready To Burn	0.1697432723	0.3176958662	0.4978611411	0.6744747439
5	Fireplace & All Stoves - Ready To Burn	3.570705198	3.893934023	3.819383224	4.206152241
6	Fireplace - Ready To Burn	1.702797532	1.874797564	1.774498915	1.935479534
7					
8	Downloaded on: 2025-11-19 19:20				

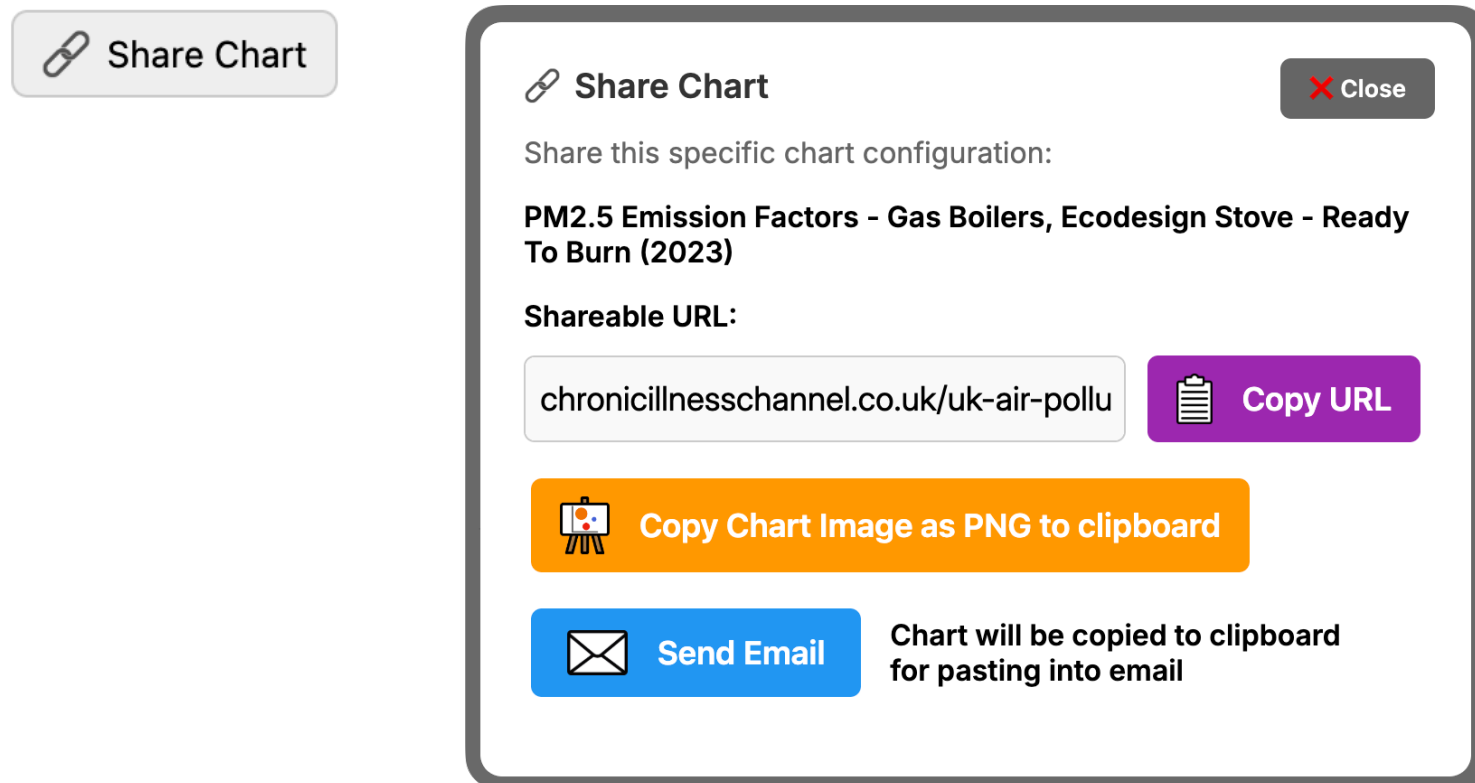
The filenames of the PNG, CSV & Excel files will have the prefix:

<Year(s)><Chart Type><Pollutant><First Category Short Name>

For example: 2023_Bubble-Chart_PM2-5_EcoRtB.png

Share Chart

The Share Chart button opens a pop-up window.



The Copy URL button will copy the website address to your clipboard, which will have the same chart configuration that you have selected. You can also copy the URL from the address bar.

Copy Chart Image copies the same PNG image that is generated by the Download Chart Image - PNG function to your clipboard.

Send Email will open your email client with a draft email containing similar wording to the following:

Subject: UK Air Pollution/Emissions Data: PM2.5 (1970-2023)

Email body:

I'm sharing UK air pollution/emissions data for PM2.5 (1970-2023).

Categories included:

1. Power Stations - All fuels
2. Domestic Combustion - Residential

Interactive chart:

chronicillnesschannel.co.uk/uk-air-pollution-emissions-data-explorer/?chart=2&pollutant_id=5&category_ids=38,13&start_year=1970&end_year=2023

Generated by the

Chronic Illness Channel UK Air Pollution/Emissions Data Explorer
chronicillnesschannel.co.uk/data-explorer

Category Info

The Category Info tab provides details about the categories in the dataset, including:

- Category Name

- Activity Data available

- Sources

- Fuel Types (Activity in NAEI data)

Click on a row to copy the information to your clipboard. The row will display "Copied" when clicked.

Data Copyright

© Crown 2025 copyright Defra & DESNZ via naei.energysecurity.gov.uk
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