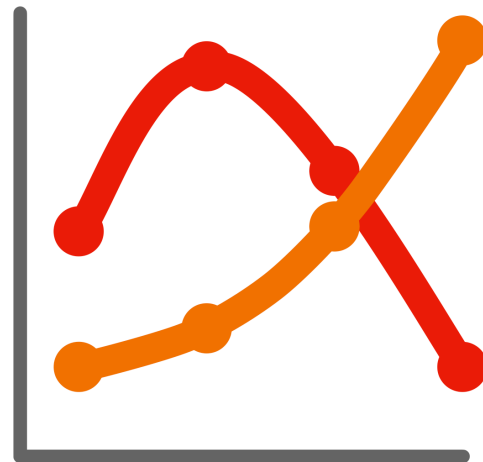
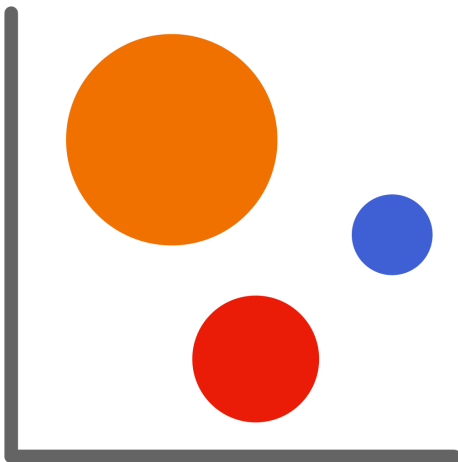


User Guide

UK Air Pollution/Emissions Data Explorer



chronicillnesschannel.co.uk/data-explorer

Explorer v3.1

User Guide v0.6 (incomplete)

User Guide:
UK Air Pollution/Emissions Data Explorer

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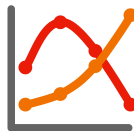
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Pollution Charts

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. 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
Group 1: Ecodesign - Ready To Burn
Group 2: Gas Boilers
Year: 2023



Line Chart

Pollutant: PM2.5
Group 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 1 pollutant can be selected.

Pollutant:

PM2.5



Group Selector

The Group selectors are also dropdown boxes. When more than 1 Group is displayed a Remove Group button appears next to each Group. Click the Add Group button to display another Group selector dropdown box which has no Group selected.



The image shows the Group Selector interface. It consists of two dropdown boxes, each with a menu icon on the left and a dropdown arrow on the right. The first dropdown is labeled 'Ecodesign Stove - Ready To Burn' and the second is labeled 'Gas Boilers'. To the right of each dropdown is a 'Remove Group' button with a red circle and a minus sign. Below these is an 'Add Group' button with a green plus sign.



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



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

Year Selector

The year selection is different between the 2 charts.



Year: 2023 ▼

Only one year can be selected in the bubble chart.



Start Year: 1970 ▼

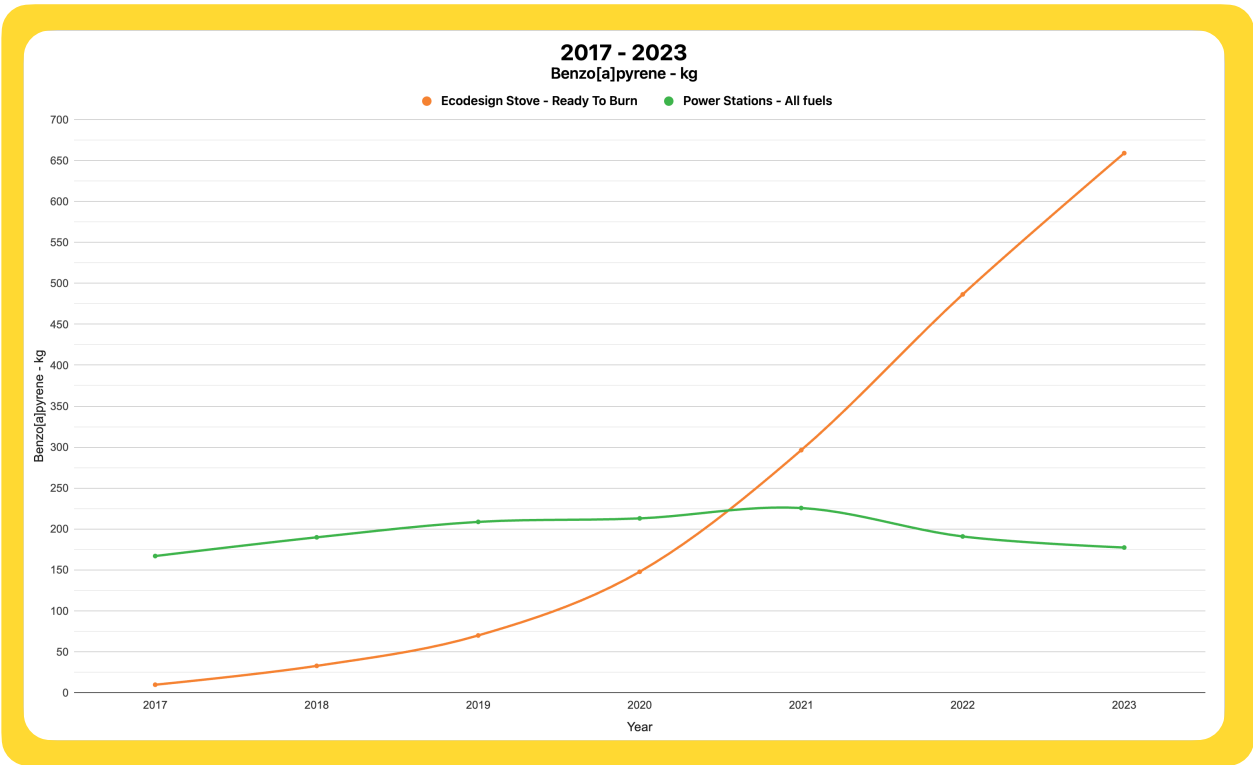
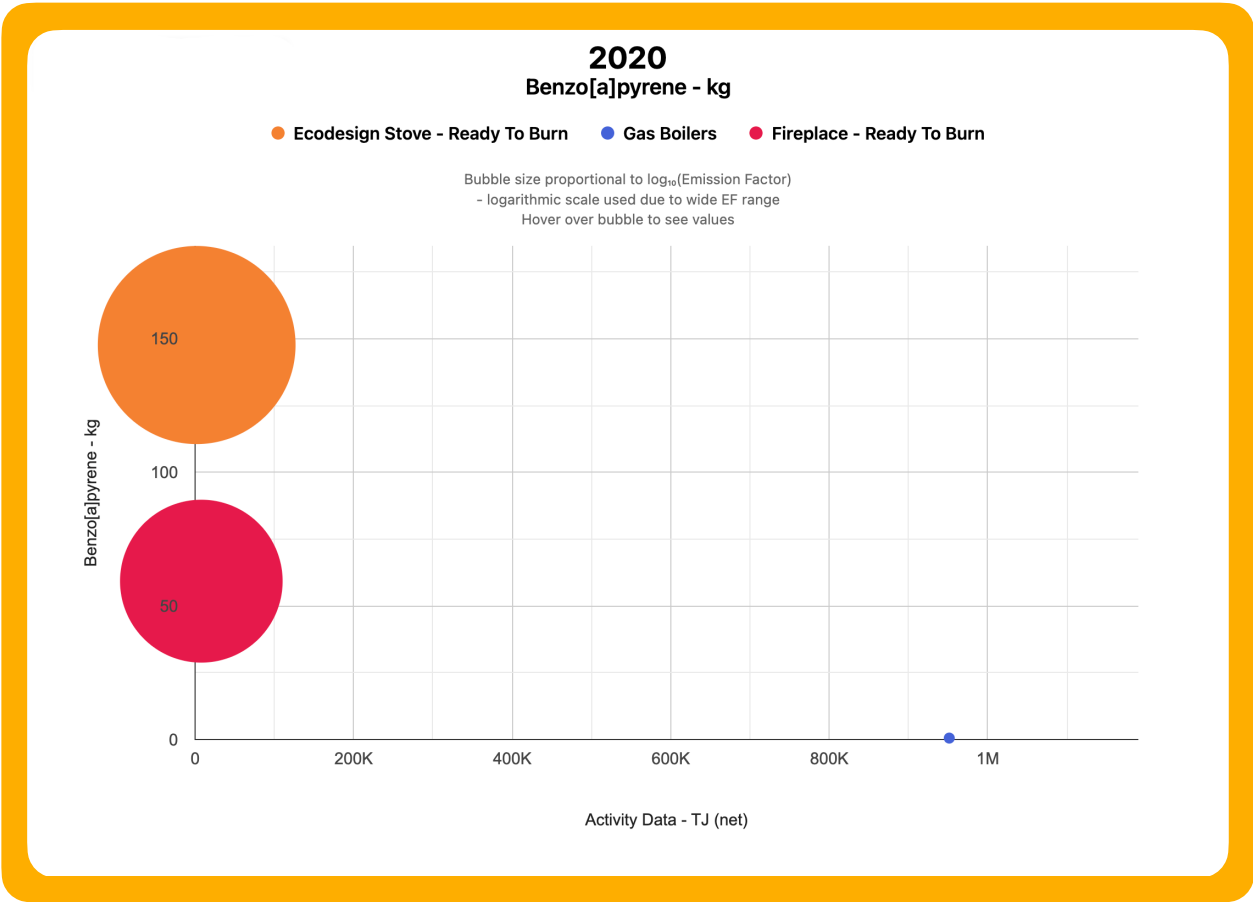
End Year: 2023 ▼

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 groups 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, Groups or Year are changed, the chart will redraw with the new selections.



Smoothing




 Disable Smoothing

 Enable Smoothing

The line chart has a Smoothing button, 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.

Group Order

You can re-order the Group boxes by clicking and dragging the  handle next to each group. The chart updates automatically.



Ecodesign Stove - Ready To Burn



Remove Group



Gas Boilers



Remove Group



Add Group

Re-ordering the Groups will change the layering of the Groups. The Group at the top of the list will be in the top layer, and the Group at the bottom will be in the bottom layer. This is useful if bubbles/lines overlap causing that Group to be hidden.

The legend will also re-order and the colour of the Groups will change in some circumstances.

Legend Interaction

Clicking any Group in the legend temporarily removes it from the chart. This is useful if Groups are hidden.

Hidden Groups are reflected in the exported PNG and clipboard image. (See below)

Download and Share Functions


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


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 hidden groups in the legend, and the proportions of the chart. If you resize your browser window the chart will redraw at the same size of the viewport, which will be reflected in the downloaded PNG image.

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

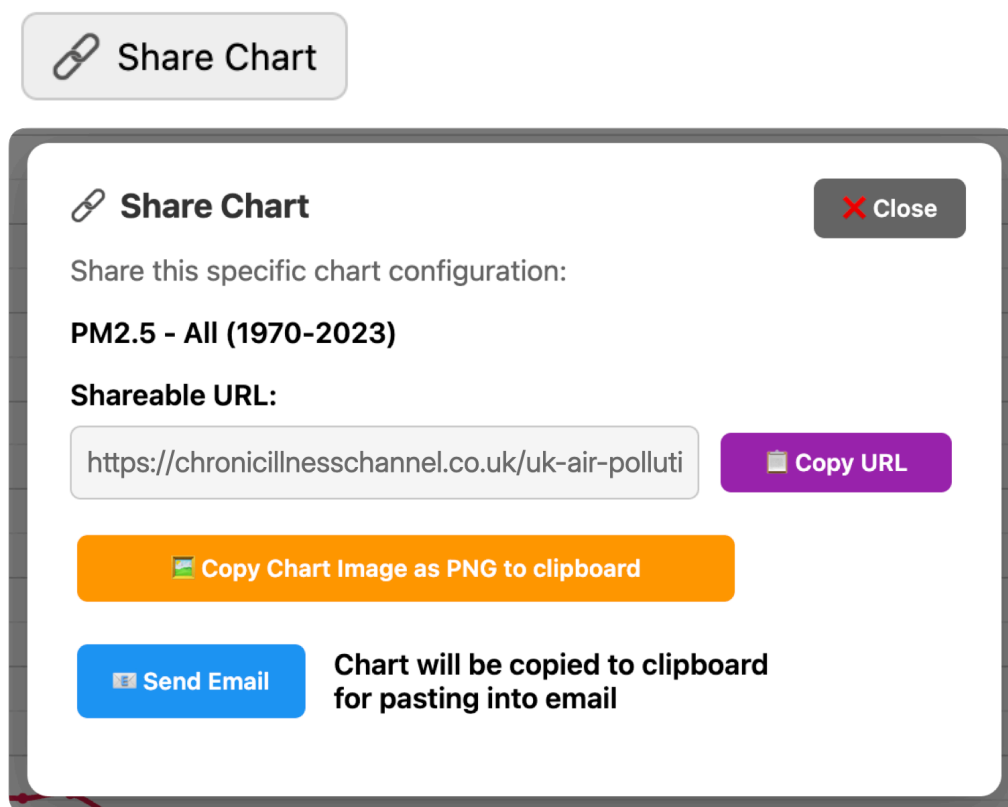
 Download Data - CSV

 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 Share Chart button opens a pop-up window.



Copy URL, 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, to your clipboard.

Send Email, will open your email client.

Group Information Tab

The Group Information tab provides details about the selected groups, including:

- Data sources and dataset descriptions.
- Metadata such as pollutant/energy contributions by each group.
- Historical coverage or notes on missing data.

Navigation. Arrow keys move between tabs.

Pollutant	Abbreviation
Black Carbon	BC
PM0.1	PM0.1
PM1	PM1
PM10	PM10
PM2.5	PM2.5
TPM	TPM
Acenaphthene	ACE
Acenaphthylene	ACY
Anthracene	ANT
Benz[a]anthracene	BaA
Benzo[a]pyrene	BaP
Benzo[b]fluoranthene	BbF
Benzo[ghi]perylene	BghiP
Benzo[k]fluoranthene	BkF
Chrysene	CHR
Decabromodiphenyl ether	BDE-209
Dibenz[ah]anthracene	DahA
Dioxins (PCDD/F)	PCDDF
Fluoranthene	FLA
Fluorene	FLU
Hexachlorobenzene	HCB
Indeno[123-cd]pyrene	IcdP
Lindane	γ-HCH
Naphthalene	NAP
Octabromodiphenyl ether	BDE-183
Pentabromodiphenyl Ether	BDE-99
Pentachlorophenol	PCP
Phenanthrene	PHE
Polychlorinated biphenyls	PCBs
Pyrene	PYR
Short Chain Chlorinated Paraffins (C10-13)	SCCPs
Arsenic	As
Beryllium	Be
Cadmium	Cd
Calcium	Ca
Chromium	Cr
Copper	Cu
Lead	Pb
Magnesium	Mg
Manganese	Mn
Mercury	Hg
Nickel	Ni
Potassium	K
Selenium	Se
Sodium	Na
Tin	Sn
Vanadium	V
Zinc	Zn
13-butadiene	13-BD
Ammonia	NH3
Benzene	C6H6
Black Smoke	BS
Carbon Monoxide	CO
Hydrogen Chloride	HCl
Hydrogen Fluoride	HF
Methane	CH4
Nitrogen Oxides as NO2	NOx
Non Methane VOC	NM VOC
Sulphur Dioxide	SO2
16PAH	16PAH
Activity Data	ActData
Carbon Dioxide as Carbon	CO2-C
HFCs	HFCs
NF3	NF3
Nitrous Oxide	N2O
PFCs	PFCs
Sulphur hexafluoride	SF6
Total GHGs in CO2 Eq.	GHG-CO2-eq