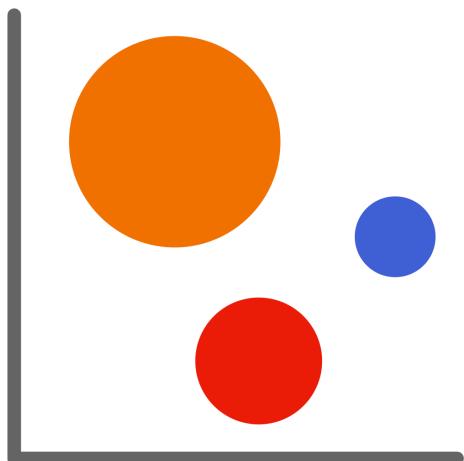


User Guide

UK Air Pollution/Emissions Data Explorer



chronicillnesschannel.co.uk/data-explorer
Explorer v3.1

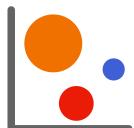
User Guide v1.0

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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.

	Ecodesign Stove - Ready To Burn	
	Gas Boilers	
Add Group		



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 ▾

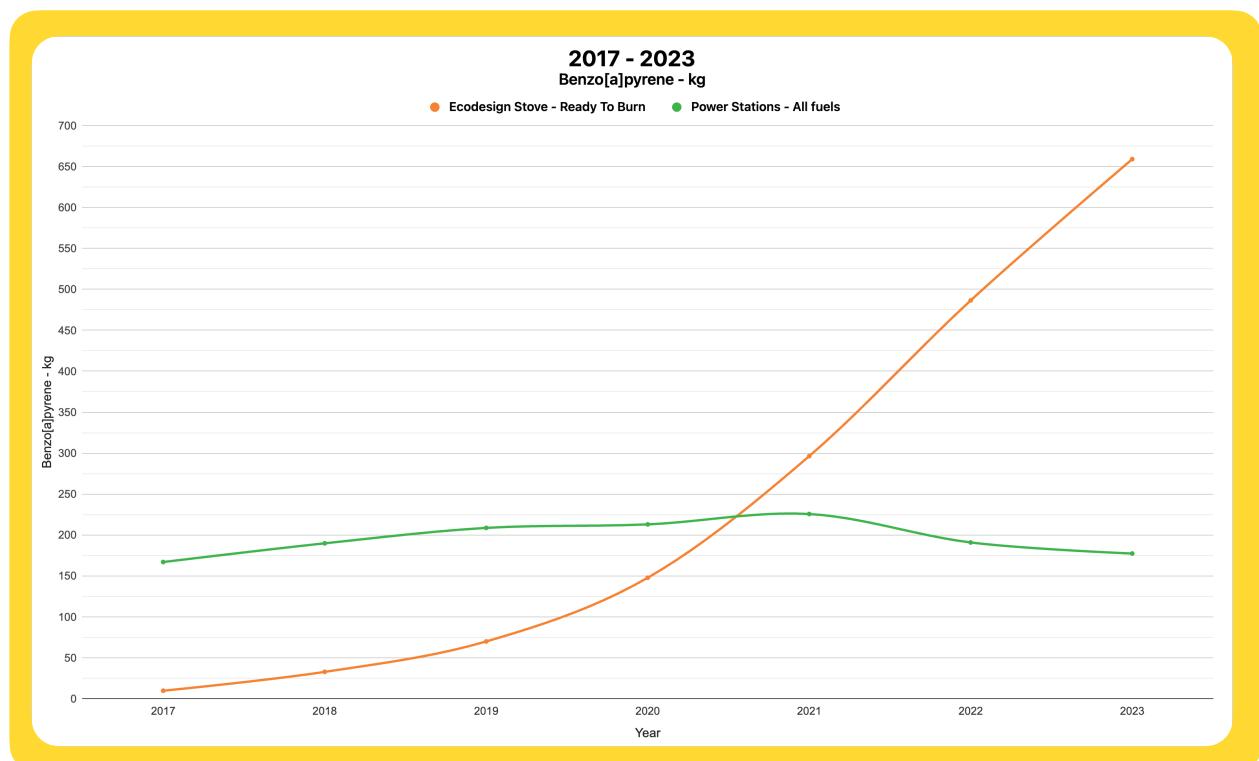
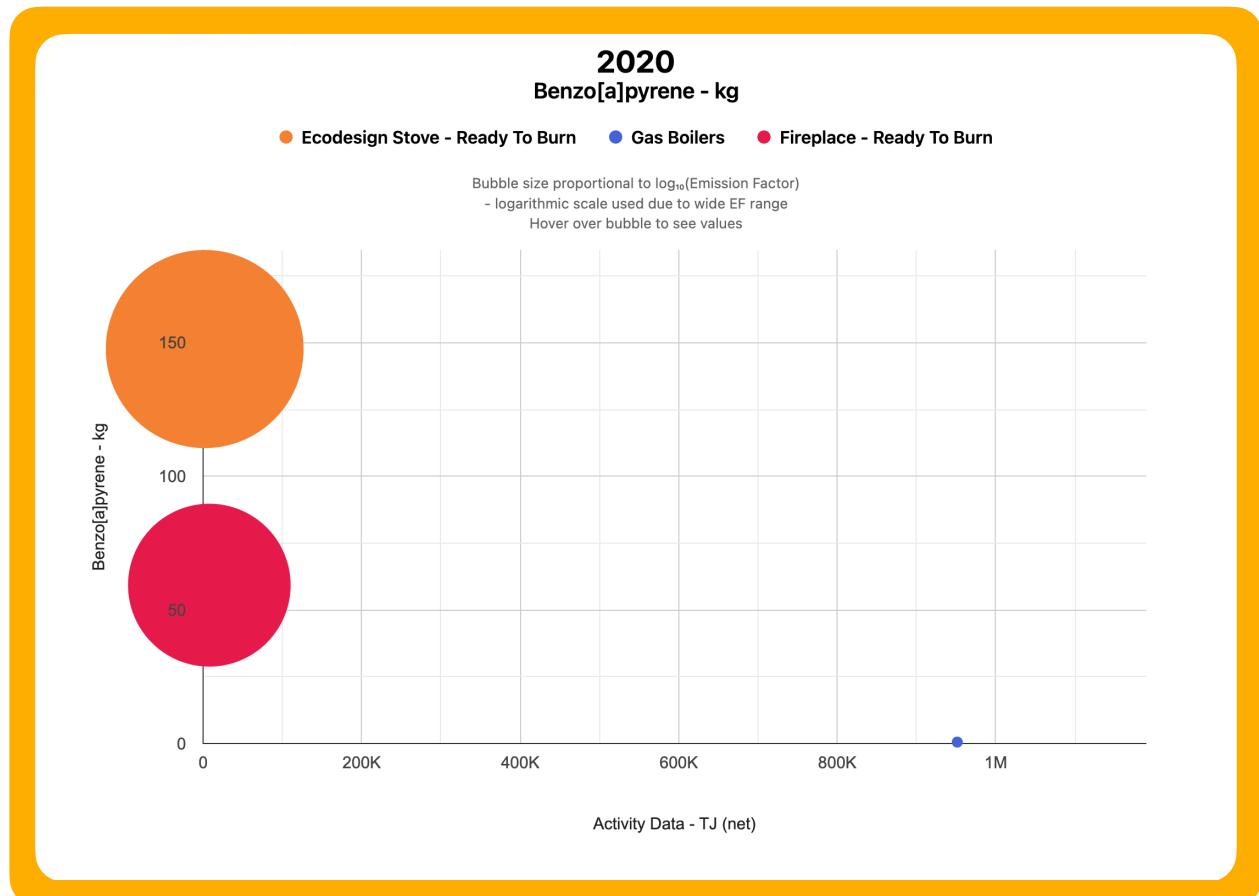
End Year: 2023 ▾

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 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.

Group Order

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

Ecodesign Stove - Ready To Burn

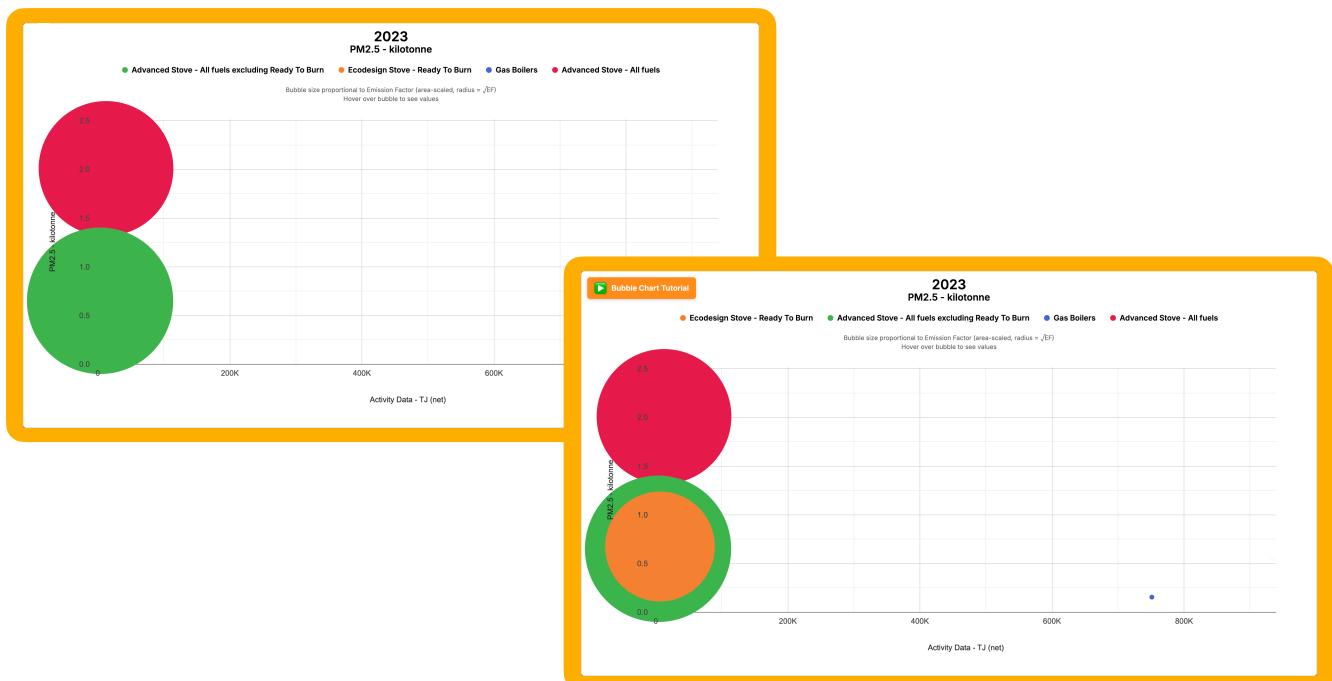
Gas Boilers

Add Group

Remove Group

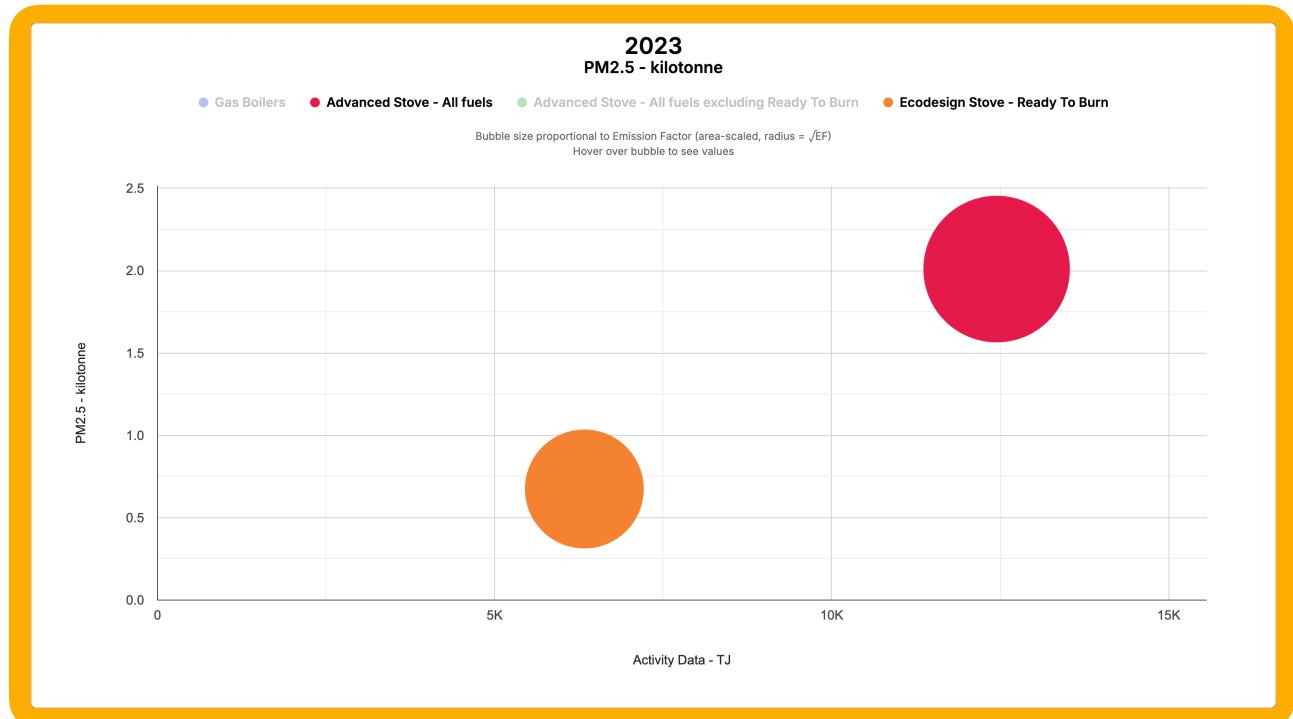
Remove Group

Re-ordering will change the chart layer for that Group . 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 to reveal hidden Groups if bubbles/ lines overlap. The legend will re-order to reflect the new order.



Legend Interaction

Clicking any Group in the legend temporarily removes it from the chart. This is useful to see if Groups are hidden underneath other Groups. If required you can re-order the Groups as described above. Groups that are not visible are not included in exported PNG and clipboard images.



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 non-visible 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				

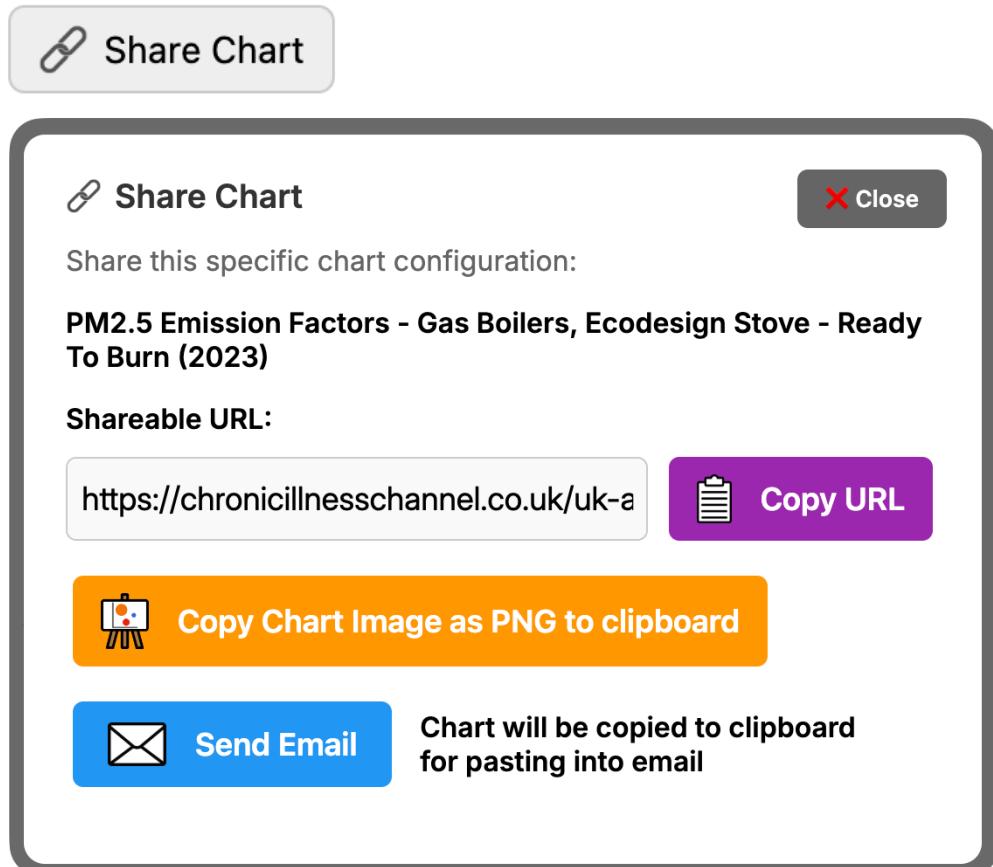
The filename of the PNG, CSV & file will have the prefix:
[Year(s)]_[Chart-Type]_[Pollutant Short Name]_[1st Group Short Name]

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

Short names for Pollutants and Groups are shown in the appendix at the end of the user guide.

Pollutant Abbreviations

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, 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.

Appendix

Group Abbreviations

Pollutant	Abbreviation	Pollutant	Abbreviation
Black Carbon	BC	Calcium	Ca
PM0.1	PM0-1	Chromium	Cr
PM1	PM1	Copper	Cu
PM10	PM10	Lead	Pb
PM2.5	PM2-5	Magnesium	Mg
TPM	TPM	Manganese	Mn
Acenaphthene	ACE	Mercury	Hg
Acenaphthylene	ACY	Nickel	Ni
Anthracene	ANT	Potassium	K
Benz[a]anthracene	BaA	Selenium	Se
Benzo[a]pyrene	BaP	Sodium	Na
Benzo[b]fluoranthene	BbF	Tin	Sn
Benzo[ghi]perylene	BghiP	Vanadium	V
Benzo[k]fluoranthene	BkF	Zinc	Zn
Chrysene	CHR	13-butadiene	13-BD
Decabromodiphenyl ether	BDE-209	Ammonia	NH3
Dibenz[ah]anthracene	DahA	Benzene	C6H6
Dioxins (PCDD/F)	PCDDF	Black Smoke	BS
Fluoranthene	FLA	Carbon Monoxide	CO
Fluorene	FLU	Hydrogen Chloride	HCl
Hexachlorobenzene	HCB	Hydrogen Fluoride	HF
Indeno[123-cd]pyrene	IcdP	Methane	CH4
Lindane	γ-HCH	Nitrogen Oxides as NO ₂	NOx
Naphthalene	NAP	Non Methane VOC	NMVOC
Octabromodiphenyl ether	BDE-183	Sulphur Dioxide	SO2
Pentabromodiphenyl Ether	BDE-99	16PAH	16PAH
Pentachlorophenol	PCP	Activity Data	ActData
Phenanthrene	PHE	Carbon Dioxide as Carbon	CO2-C
Polychlorinated biphenyls	PCBs	HFCs	HFCs
Pyrene	PYR	NF3	NF3
Short Chain Chlorinated Paraffins (C10-13)	SCCPs	Nitrous Oxide	N2O
Arsenic	As	PFCs	PFCs
Beryllium	Be	Sulphur hexafluoride	SF6
Cadmium	Cd	Total GHGs in CO ₂ Eq.	GHG-CO ₂ -eq

Group	Abbreviation
All	All
Advanced Stove - All fuels	AdvStvAllFuels
Advanced Stove - All fuels excluding Ready To Burn	AdvStvAllFuelsExcRtb
Advanced Stove - All wood	AdvStvAllWd
Advanced Stove - Ready To Burn	AdvStvRtb
Advanced Stove - Wood excluding Ready To Burn	AdvStvWdExcRtb
Basic Stove - All fuels	BasStvAllFuels
Basic Stove - All fuels excluding Ready To Burn	BasStvAllFuelsExcRtb
Basic Stove - All wood	BasStvAllWd
Basic Stove - Ready To Burn	BasStvRtb
Basic Stove - Wood excluding Ready To Burn	BasStvWdExcRtb
Cigarette smoking	CigSmo
Domestic Combustion - Residential	DomComRes
Domestic Outdoor - All	DomOutdoorAll
Domestic Outdoor - Charcoal	DomOutdoorChar
Domestic Outdoor - Coal	DomOutdoorCoal
Ecodesign Stove - All fuels	EcoStvAllFuels
Ecodesign Stove - All fuels excluding Ready To Burn	EcoStvAllFuelsExcRtb
Ecodesign Stove - All wood	EcoStvAllWd
Ecodesign Stove - Ready To Burn	EcoRtb
Ecodesign Stove - Wood excluding Ready To Burn	EcoStvWdExcRtb
Fireplace - All fuels	FireAllFuels
Fireplace - All fuels excluding Ready To Burn	FireAllFuelsExcRtb
Fireplace - All wood	FireAllWd
Fireplace - Ready To Burn	FireRtb
Fireplace - Wood excluding Ready To Burn	FireWdExcRtb
Fireplace & All Stoves - All fuels	FireAllStvAllFuels
Fireplace & All Stoves - All fuels excluding Ready To Burn	FireAllStvAllFuelsExcRtb
Fireplace & All Stoves - All wood	FireAllStvAllWd
Fireplace & All Stoves - Ready To Burn	FireAllStvRtb
Fireplace & All Stoves - Wood excluding Ready To Burn	FireAllStvWdExcRtb
Fireplace & Stoves excluding Ecodesign - All fuels	FireStvExcEcoAllFuels
Fireplace & Stoves excluding Ecodesign - All fuels excluding Ready To Burn	FireStvExcEcoAllFuelsExcRtb
Fireplace & Stoves excluding Ecodesign - All wood	FireStvExcEcoAllWd
Fireplace & Stoves excluding Ecodesign - Ready To Burn	FireStvExcEcoRtb
Fireplace & Stoves excluding Ecodesign - Wood excluding Ready To Burn	FireStvExcEcoWdExcRtb

Gas Boilers	GasBoilers
Power Stations - All fuels	PowerStaAllFuels
Power Stations - All fuels excluding Natural gas	PowerStaAllFuelsExcGas
Power Stations - Natural gas	PowerStaGas
Power Stations - Wood	PowerStaWd
Road Transport - All - Exhausts Tyre & Brake Wear	TraAllExhTyewrBrakewr
Road Transport - Buses & Coaches Exhaust	TraBusCoachExhst
Road Transport - Cars Exhaust	TraCarExhst
Road Transport - Exhausts Only	TraExhOnly
Road Transport - HGV Exhaust	TraHgvExhst
Road Transport - LGV Exhaust	TraLgvExhst
Road Transport - Mopeds and Motorcycles Exhaust	TraMoped&MtrcycleExhst
Road Transport - Tyre & Brake Wear	TraTyewrBrakewr
Upgraded Stove - All fuels	UpgStvAllFuels
Upgraded Stove - All fuels excluding Ready To Burn	UpgStvAllFuelsExcRtb
Upgraded Stove - All wood	UpgStvAllWd
Upgraded Stove - Ready To Burn	UpgStvRtb
Upgraded Stove - Wood excluding Ready To Burn	UpgStvWdExcRtb
All Stoves - All fuels	AllStvAllFuels
All Stoves - All fuels excluding Ready To Burn	AllStvAllFuelsExcRtb
All Stoves - All wood	AllStvAllWd
All Stoves - Ready To Burn	AllStvRtb
All Stoves - Wood excluding Ready To Burn	AllStvWdExcRtb
Residential Outdoor - Appliance including chimineas, firepits etc	ResOutdoorApplIncChimsFpit
Crematoria	Crematoria
Power Stations - All fuels excluding Wood	PowerStaAllFuelsExcWd
Residential Outdoor - All Appliances	ResOutdoorAllApp
Bonfire night	BonNight
Ecodesign Stove - Dry wood	EcoStvDryWd
Fireplace - Dry wood	FireDryWd
Advanced Stove - Dry wood	AdvStvDryWd
Basic Stove - Dry wood	BasStvDryWd
Upgraded Stove - Dry wood	UpgStvDryWd