

Air Quality and VOCs in the UK: current situation and future developments

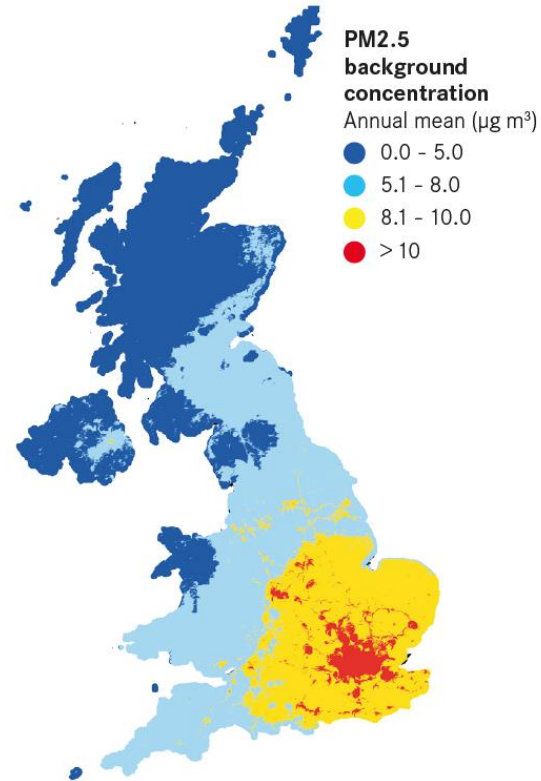
Tiziana Dorigo, Communications Manager

Air Quality and VOCs in the UK

Outdoors & Indoors

Why have aerosols come to the attention of the regulators?

- Air Quality has become a priority (PM_{2.5} 'material contribution' to early deaths)
- UK concentration limit = 25 µg/m³
- WHO recommends 5µg/m³ (Sept 2021)
- New UK target = 10µg/m³ by 2040
- VOC from aerosols help increase PM_{2.5}

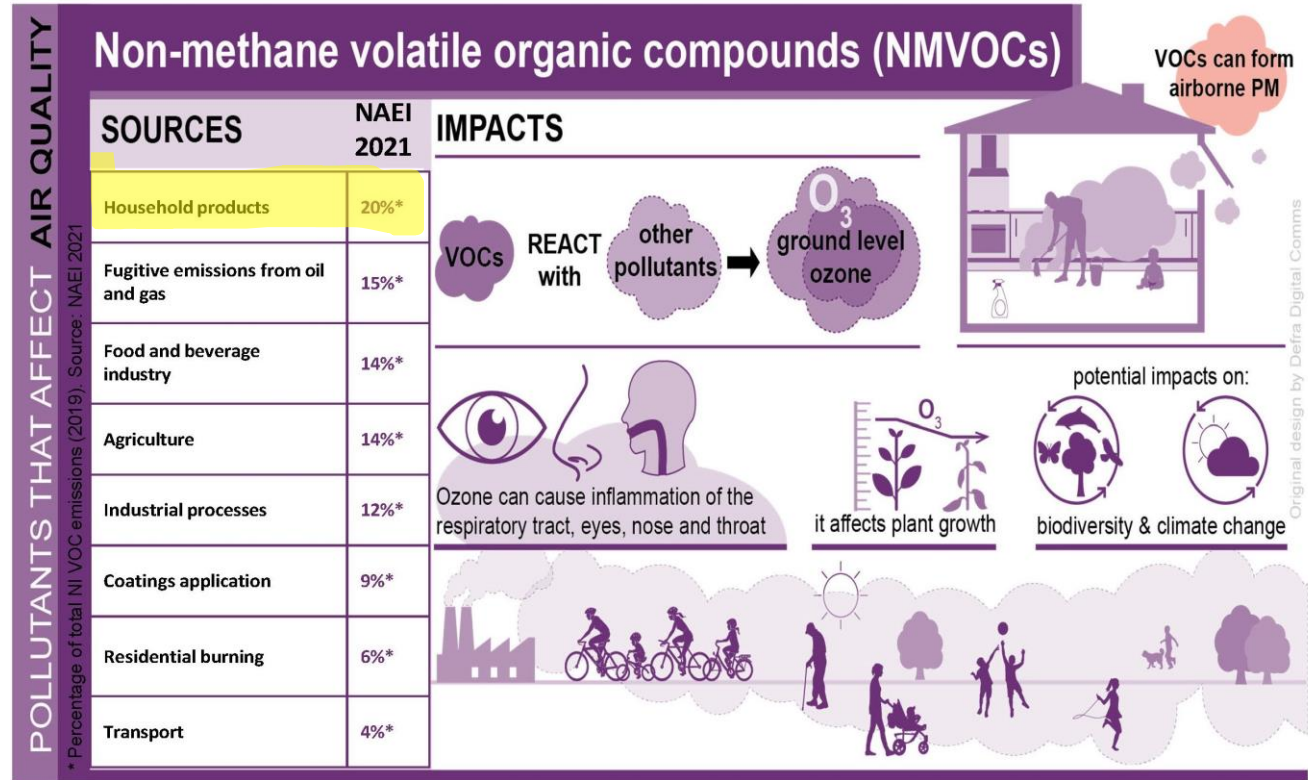


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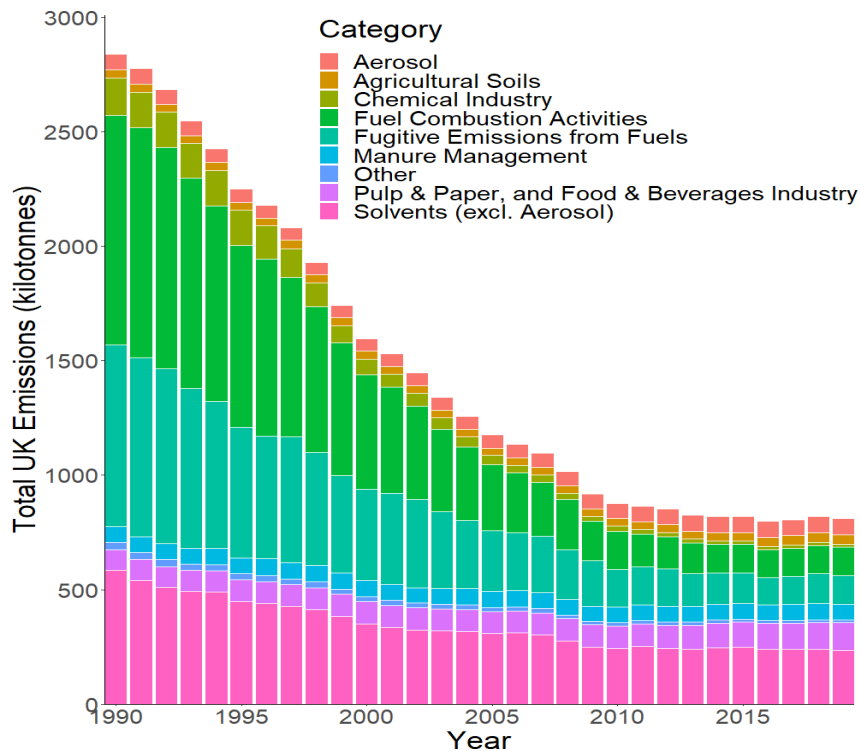
Data gathered in 2021

- From VOCs to PM_{2.5} and O₃
- Sources of VOCs by contribution to the overall total (2021)

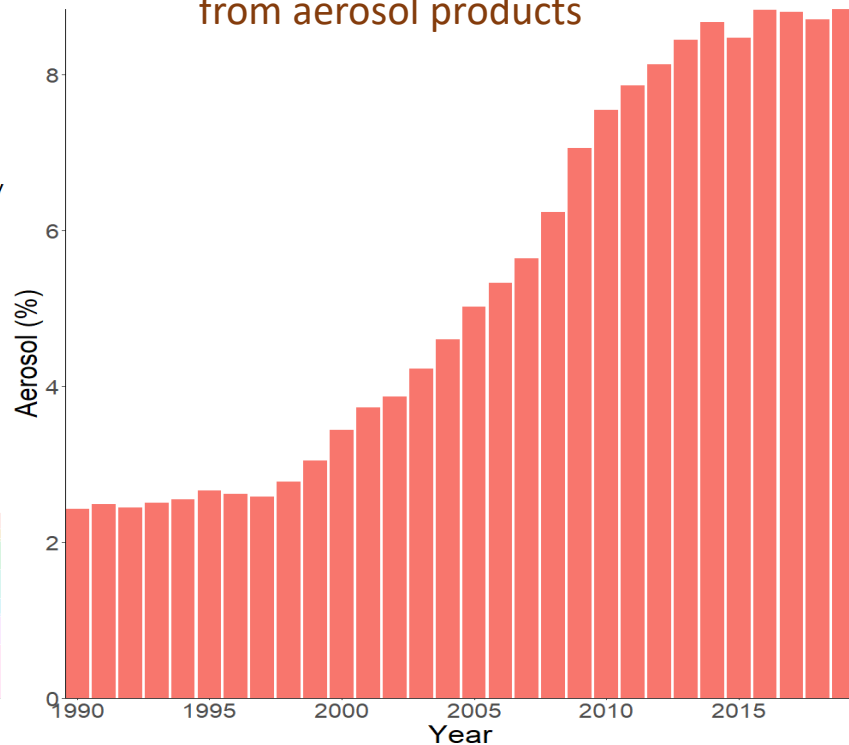
Source: DEFRA / NAEI



Total anthropogenic VOC emissions / year



A large increase in the percentage of total emissions from aerosol products



Air Quality and VOCs in the UK

Link -> aerosols -> VOCs -> PM 2.5

60-80% time spent indoors

Amber's research and results (propellants + fragrance;
aerosols & non-aerosol products - salons)

Matter of public health
Burden of proof

BAMA's role: data, information, facilitation (Inno Day solutions), mediation

Air Quality and VOCs in the UK

Ongoing monitoring of air composition within UK homes

- ***The Wolfson Atmospheric Chemistry Laboratories***
- ***The National Centre for Atmospheric Science***
- ***York University***

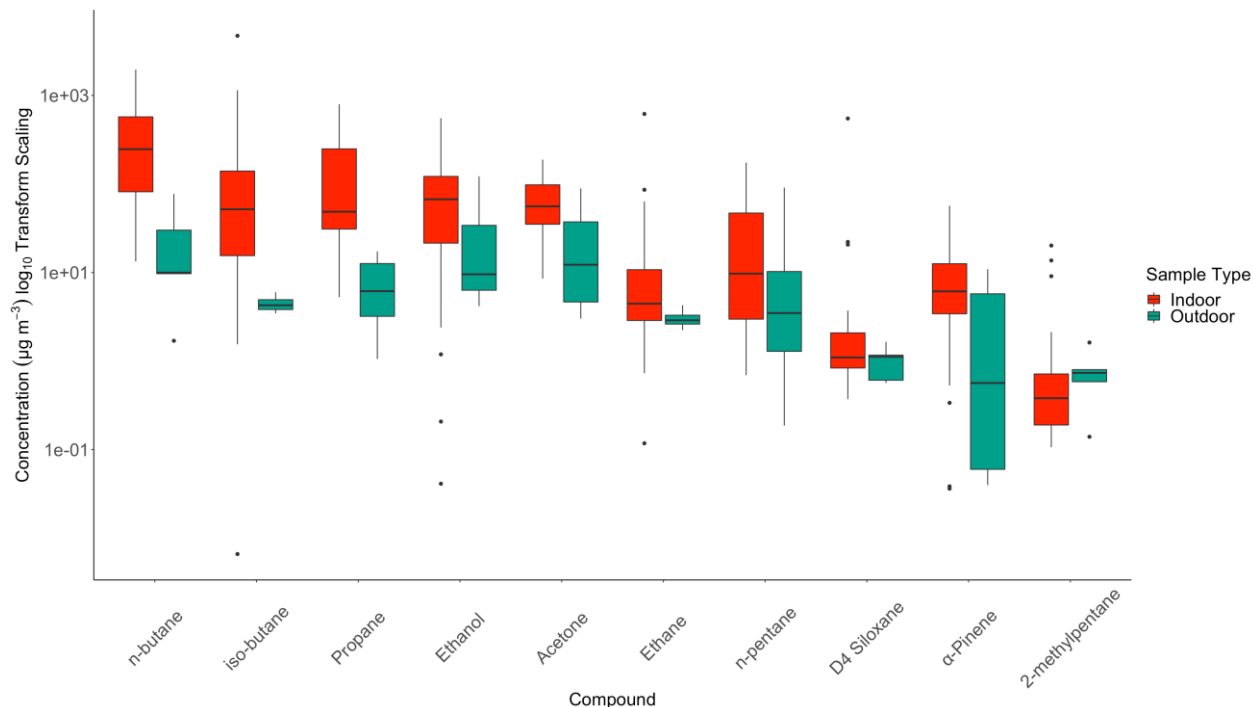


- 60 UK homes studied, each sampled 3 times over two 9-week periods
- Each sample represented an average of 72 hours continuous sampling at low flow rate of ($\sim 2 \text{ mL min}^{-1}$)



**National Centre for
Atmospheric Science**
NATURAL ENVIRONMENT RESEARCH COUNCIL

*Rank order plot of
the indoor/outdoor
ratios for the 10
most abundant
species (both
campaigns and all
households)*



A. C. Heeley-Hill, S. K. Grange, M. W. Ward, A. C. Lewis, N. Owen, C. Jordan, G. Hodgson and G. Adamson, *Environ. Sci. Process. Impacts*, 2021, **23**, 699.

Air Quality and VOCs in the UK

If what we have seen so far makes you think that only home products will be targeted: think again!

The UK Air Quality Expert Group's report on Indoor Air Quality focuses on:

- **Sources** and **composition** of indoor pollution
- Exposure to air pollution in **different indoor environments** – not just home but also retail spaces, schools and hospitals, transport hubs and more
- Interventions to improve indoor air quality – e.g **source control**, ventilation, air purifiers
- Monitoring and assessment of indoor air – not a one-off exercise

Air Quality and VOCs in the UK

So... what is BAMA's position on the matter?

BAMA changed its internal structure from Committees to Technical Panels, to enable more focussed discussions and easier deliberations by its members on specific topics. There is now a Panel of experts and stakeholders addressing Air Quality issues.

BAMA will continue to collect and analyse data on UK aerosol production and consumption, and share the data with the relevant UK bodies.

We will mediate with regulators to avoid their intervention (i.e. set limits) and advocate in favour of self-regulation. The aim is to reach and report reductions in emissions as a sector, rather than by product category. In order to succeed, we need the industry to show developments in the right direction.



Questions?

Contact Us



TizianaDorigo@bama.co.uk



+44 (0)1438 583583



www.bama.co.uk



@bama_aerosol



British Aerosol Manufacturers' Association