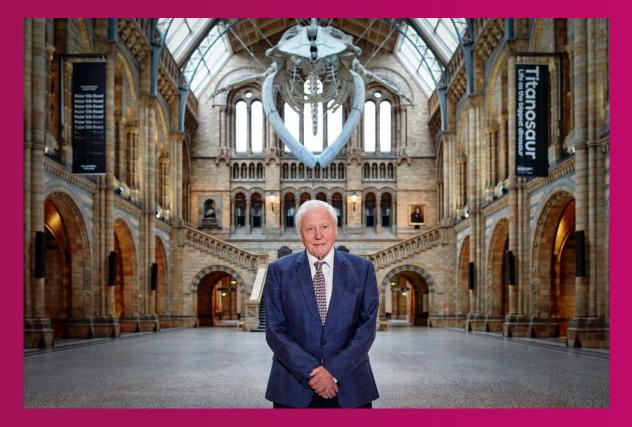
Brighton & Hove Air Quality achievements and challenges





Samuel Rouse | Principal Emissions and Air Quality Officer





"We share the ambition and determination to preserve our majestic lands and waters; above all, to ensure that we have clean water, **clean**air and clean food,"

His Majesty King Charles, 17th September 2025

"Every breath of air we take, comes from the natural world and if we damage the natural world, we damage ourselves".

Sir David Attenborough

No bigger fish to fry than air quality:
Crucial to learning, healthy long-life expectancy,
equalities and diverse habitats.
Airport growth and vehicle sales shall not compromise
continued improvements in air quality.



Best air quality in the region is in the National Park



Early Indications, WHO AQ guidelines are met in the cleanest places

Rain or shine the umbrella is an overarching clean air shed





Worst place for harmful emissions is where people live



Blighty before the Clean Air Act

Babies born in the 1950s need NHS care now



Pre-WWI housing stock, multiple emissions sources 2025







Clean air essential amongst high population density People live at different heights above ground





Progress with the energy transition, more to come





What are we doing well?

- 70 + 30 years since key legislation, 25 years as a Unitary Authority
- Air quality assessment and reporting
- Monitoring, long terms trends, real-time, awareness raising
- Managed £ 4million of funds: DfT, DEFRA, private more to come OZEV,
 LEVI, ZEBRA
- Bus exhaust fit projects and a pathway beyond bus-ULEZ
- Traffic counts and analytics
- Installing EV charging infrastructure off-street, lamp columns, fast and rapid
- Guiding the planning process, equalities and environmental impact assessments

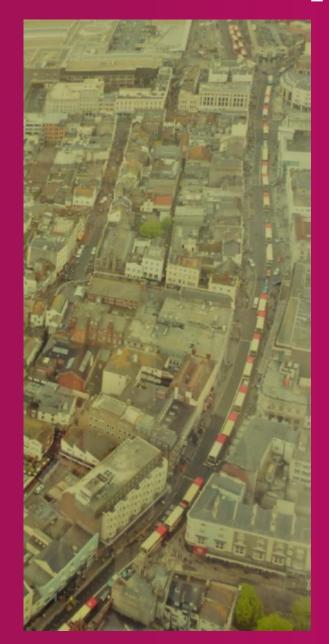


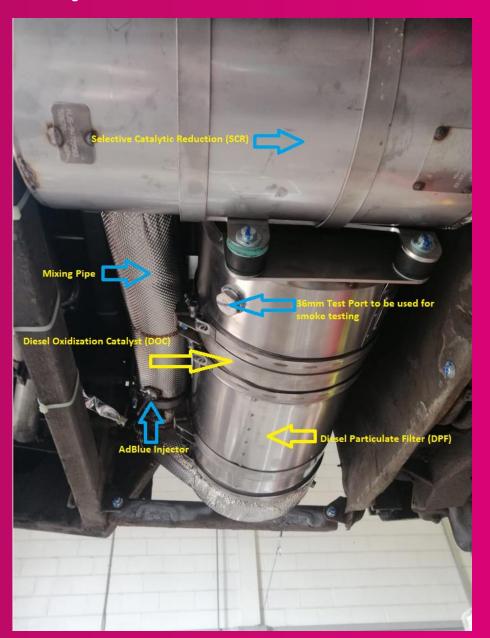
FAQ or FOI? Quelle est la belle question? What is the beautiful question?

- Can we raise awareness in the city, so nobody is impacted or penalised for engine idling or chimney smoke?
- Will fleet operators and motorists bother to buy euro-7 from 2027?
- How soon can we achieve zero for grids, buildings and transport?
- What might urban areas feel like without combustion?
- Is it safe to drop the pace share the space pedestrians, bicycles, e-bikes with some electric vehicles?
- Can we promote bicycle touring, safe links remote with central



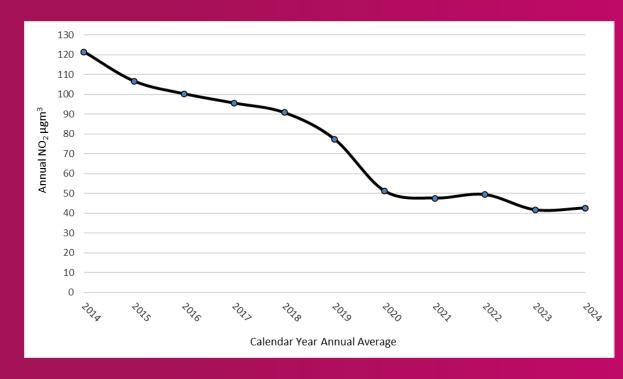
Bus exhaust fit projects and beyond bus-ULEZ

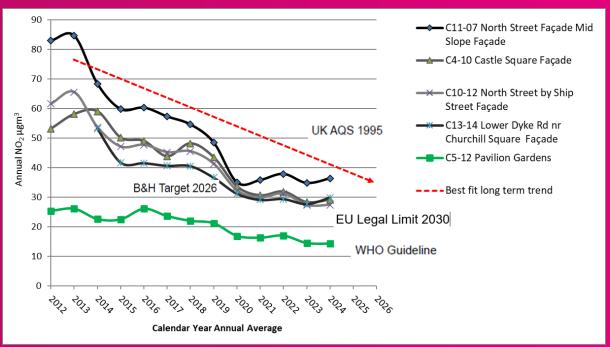






Most substantial NO2 improvement on the footway North Street





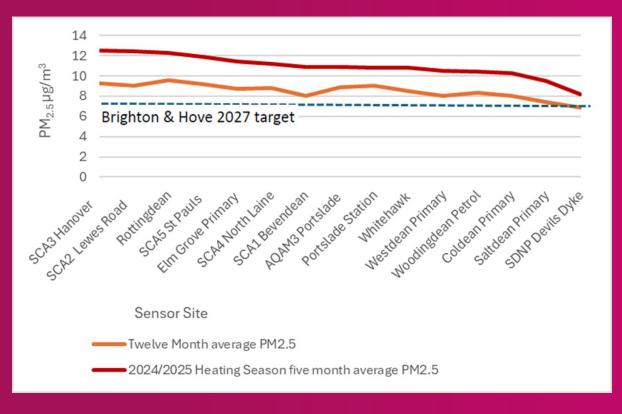


Real-time sensor network for gases and particles





Higher concentrations of PM2.5 during the heating season

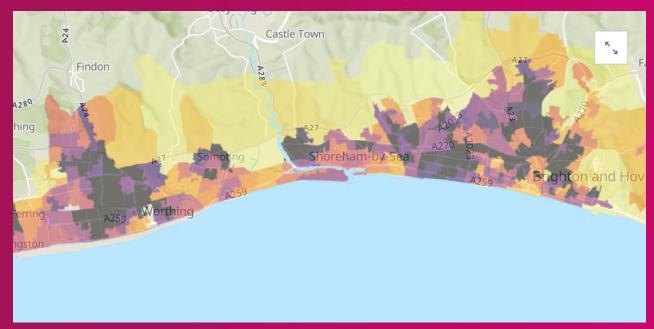






Public health insight and UCL

Where are the wood burners?



- According to EPCs approaching 6% of Brighton & Hove households with active fireplaces or stoves: >7,000 in the city
- In the urban area: 400 smoke sources per sq mile
- Prevalence of asthma >1000 per sq mile
- Emergency COPD hospital admissions >300, 2023/24

A breath of fresh air

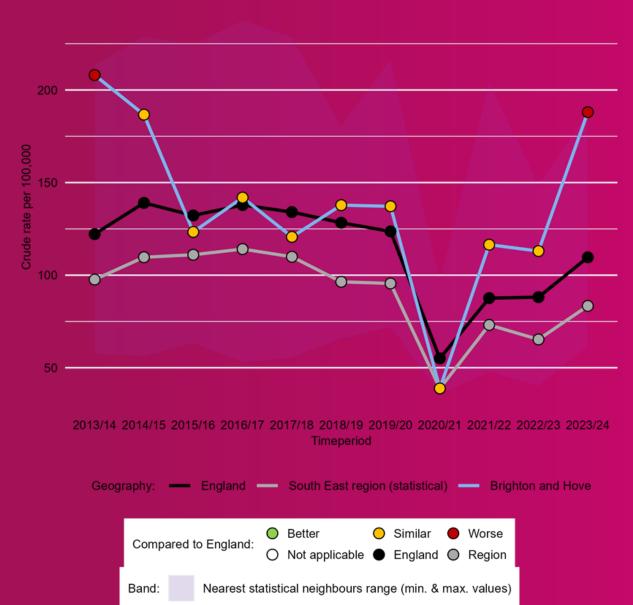
Responding to the health challenges of modern air pollution



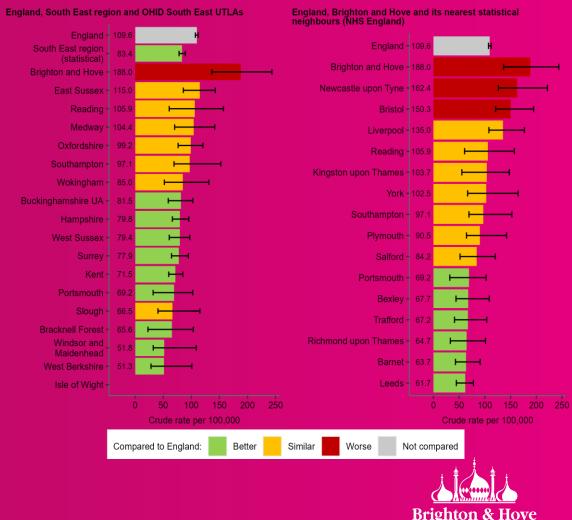


Asthma hospital admissions increasing since Covid-19

Hospital admissions for asthma (under 19 years), Persons, 10-18 yrs, 2013/14 - 2023/24; England, South East region (statistical) and Brighton and Hove



Hospital admissions for asthma (under 19 years), Persons, 10-18 yrs, 2023/24



City Council

Source pathway receptor changing

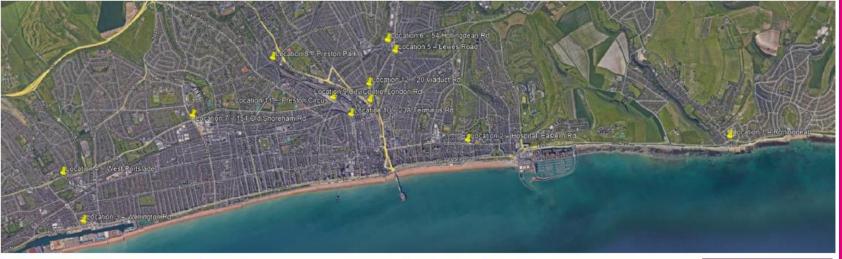




Traffic counts and analytics







| Location | Part of City | Road Name | Road | Description |
|----------|----------------|------------------------------|--------|-----------------------------------|
| 1 | Rottingdean | Marine Drive | A23 | Sea front road |
| 2 | Hospital | Eastern Road | C-Link | Hospital |
| 3 | West Portslade | Wellington Road | A259 | West of Middle Street |
| 4 | West Portslade | Old Shoreham Road | A270 | Brackenbury Primary |
| 5 | Lewes Road | Lewes Road South of Gyratory | A270 | Traffic near junction |
| 6 | Lewes Road | Hollingdean Road | C-Link | Acceleration and queuing |
| 7 | Hove | Sackville Road | A2023 | South of Old Shoreham Road |
| 8 | Preston Park | The Drove | C-Link | Hill climb west of railway tunnel |
| 9 | City Centre | London Rd | A23 | Outside Co-Op / Nandos |
| 10 | Near Station | Terminus Road | A2010 | Terrace houses west of station |
| 11 | Preston Circus | Eastern End Old Shoreham Rd | A270 | Terrace houses hill climb |
| 12 | Preston Circus | Viaduct Road | A23 | Terrace house next to A23 |



Brighton & Hove AQMAs on the road 2025

Between 3.6 and 5.6% of road using cars are electric



Petrol Motorcycle 99% ULEZ compliant and starting to see electric mopeds



Diesel car 42 to 67% ULEZ standard



Petrol car 94 to 95% ULEZ



Diesel LCV 61% to 77% ULEZ



Diesel HCV 85% to 96% ULEZ



PSV estimated 97% ULEZ in the zone





UK expected to align with euro-7 vehicle emission standards 2027



MC later than cars



Limits on non-exhaust emissions (EV & ICE) better battery durability, realistic emission testing



Heavy vehicles stricter exhaust NO_X and PM and non exhaust PM emissions from July 2027, cleaner for longer under real-world driving conditions



Stricter AQ limits urgent for government to act





The Leap-Frog Stretch



- Do nothing, then jump over more than one technological step
- For example: parts of Africa had no telephones, then exponentially grew the number of mobiles, leap-frogging the land line stage
- Advance from CAZ, ULEZ standards (2014) directly to zero
- Challenge to progress from fireplaces and gas fired heating to electrification with heat pumps. Some will leap faster than others
- Public good funds for nature and rewilding



Can we invest in & spend on a less polluted future?

Investor Spender Saver

Lower inflation and interest rates helps availability of cleaner energy and tech. **Facilitates** consumer choice and behavioural change.

