

Session 3 Monitoring Air Quality and Health – UK tools and guidance

Combatting urban air pollution impacts on maternal and child health in Asia: A Science and Policy Dialogue October 2019

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Costs of air pollution to the National Health Service and social care system

In England between 2017 and 2025, the total cost from $PM_{2.5}$ and NO_2 was £1.69 billion to 5.62 billion

1.3 million new cases of disease due to PM2.5 by 2035 if current air pollution levels persist

Impacts of air pollution in the UK may be greater if 'lost working days', 'restricted activity days' and 'asthma symptom days in children' included

A tool to estimate the cost of air pollution for each local authority





50,900 cases of coronary heart disease 16,500 strokes

Health Matters

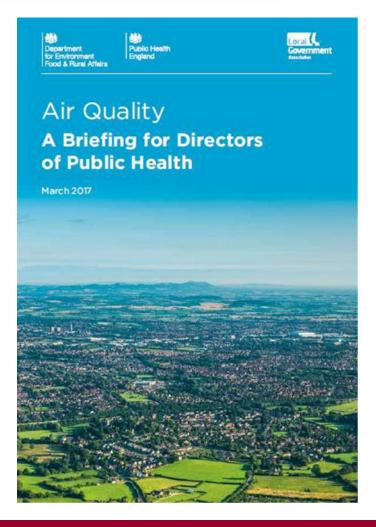


9,300 cases of asthma 4,200 lung cancers



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A briefing for public health professionals



Overview

- Getting to grips with air pollution
- Understanding air pollution in your area
- Engaging local decision makers
- Communicating during air pollution episodes
- Communicating the long term impacts of air pollution

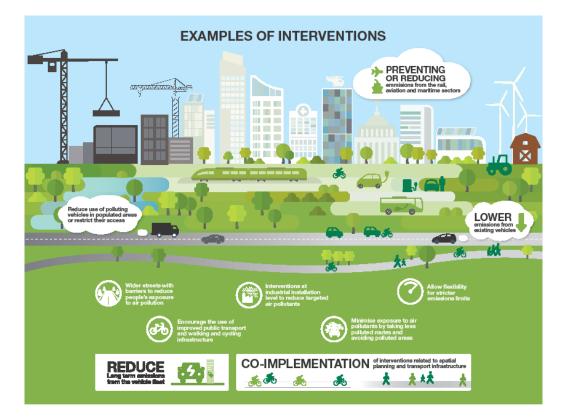


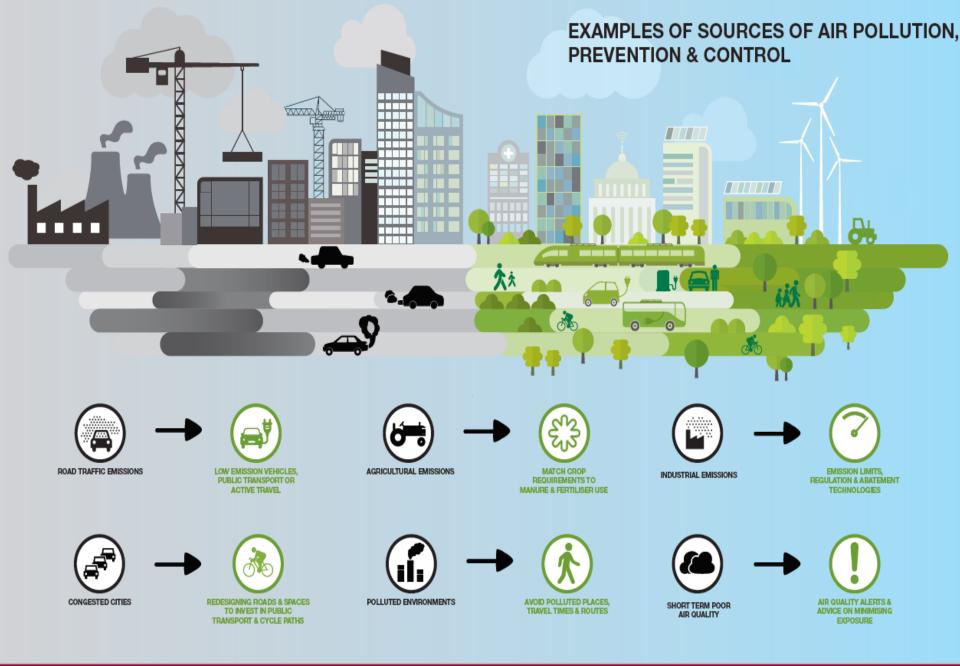
PHE Review of Air Quality Interventions

Evidence for effective interventions

Practical recommendations for local authorities

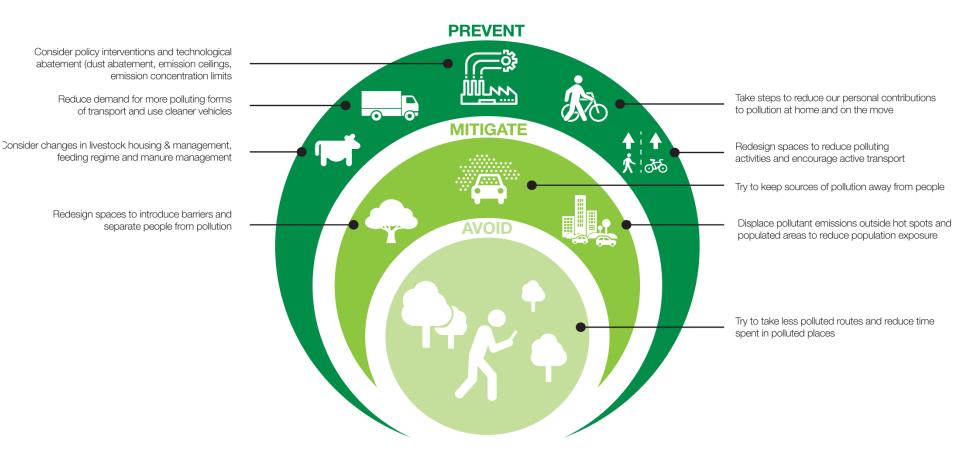
- Industry
- Vehicle/fuel
- Planning/structural design
- Agriculture
- Social science/behaviour





https://www.gov.uk/government/publications/improving-outdoor-airquality-and-health-review-of-interventions

Prioritising Interventions



Public Health

England



NICE Air pollution quality standard

National Institute for Health and Care Excellence (NICE)

Measurable, action-focussed statements showing priority areas for quality improvement with accompanying measures Aimed at commissioners

For implementation at a local level

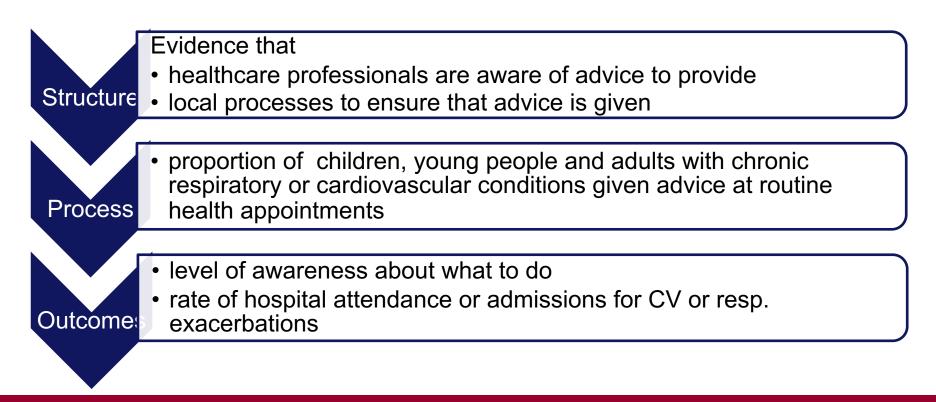
Statements on strategic plans, planning applications, reducing emissions from public sector fleets and advice to vulnerable groups

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Public Health England

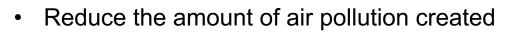
NICE Air pollution quality standard

Statement 4: Children, young people and adults with chronic respiratory or cardiovascular conditions are given advice at routine health appointments on what to do when outdoor air quality is poor





UK's largest air pollution campaign



- Talk and join forces to beat pollution together
- Avoid harmful pollution

www.cleanairday.org.uk AQ facts, free toolkits and posters





Activities on Clean Air Day 2019 Public Health England



www.cleanairday.org.uk

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General recommendations

Maximise health benefits - All policy strategies, plans should include consideration of air quality

Take a holistic approach - Range of interventions eg including working with children and their parents to implement no-idling zones outside schools, make it easy for children to walk or cycle to school and increase public awareness in relation to air pollution and children.

Evaluate interventions - Embed evaluation in the design and costing of all future interventions

Find and share good practice - Current practices and evaluations of interventions

Training and Guidance - To reduce exposure and to reduce contributions to pollution. For health and social care professionals, elected members, schools.



- Clean Air Day https://www.cleanairday.org.uk
- NICE Air pollution Quality Standard https://www.nice.org.uk/guidance/qs181
- Defra/PHE/LGA Resource for Directors of Public Health <u>http://www.local.gov.uk/web/guest/publications/-</u> /journal_content/56/10180/8324922/PUBLICATION
- Royal College of Physicians report Every breath we take, the life long impact of air pollution <u>https://www.rcplondon.ac.uk/projects/outputs/every-breath-we-take-lifelong-impact-air-pollution</u>
- PHE Review of interventions to improve outdoor air quality <u>https:www.gov.uk/government/publications/improving-outdoor-air-quality-and-health-</u> <u>review-of-interventions</u>
- PHE Estimation of costs to the NHS and social care due to the health impacts of air pollution https://www.gov.uk/government/publications/air-pollution-a-tool-to-estimate-healthcare-costs
- PHE Health matters information on air pollution
 <u>https://www.gov.uk/government/publications/health-matters-air-pollution/health-matters-air-pollution</u>