



Defra Policy Update

UK Air Quality Forecasting Seminar

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Atmospheric Quality and Industrial Pollution
Programme



Summary

- Priorities
- Local Air Quality
- Air Quality Directive
 - Monitoring
 - PM₁₀ TEN
 - NO₂ TEN
- Industrial Pollution
 - IED Recast
 - LAPPC
- Gothenburg Protocol



Priorities

- Implement the Ambient Air Quality Directive
- Apply for compliance flexibility on PM₁₀ and NO₂
- Take forward the Air Quality Strategy
- Integrate air quality across government priorities
- Ensure industrial sites are effectively managed and regulated
- Revision of the Gothenburg Protocol



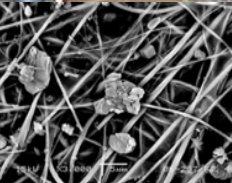
Local Air Quality

Local Air Quality Management

- Updated Policy and Technical Guidance and tools published in Feb 2009
- Moving to web-based reporting for Progress Reports and USAs from 2009

Practice Guidance

- Economic principles for the assessment of local measures to improve air quality
 - Low emission zones
 - Measures to encourage the uptake of low emission vehicles
 - Measures to encourage the uptake of retro-fitted abatement equipment on vehicles
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- www.defra.gov.uk/environment/airquality/local/eval/index.htm



Local Air Quality



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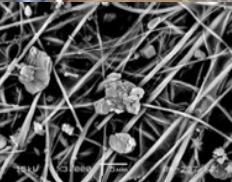
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National Indicator 194

- Part of new Comprehensive Area Assessments in 2009, LAs report against a set of 198 indicators
- NI 194: Air Quality - % reduction in NO_x and primary PM_{10} emissions through a local authority's estate and operations
- Move from calendar year reporting to financial year reporting
- Returns for the 08/09 baseline due end July 2009

Regular updates on this are provided at:

- www.defra.gov.uk/environment/airquality/local/indicator.htm



Biomass heat: key messages for local air quality



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- 2020 targets for renewable energy → substantial increase in renewable heat generation - biomass heat key technologies;
- Potential conflicts can be minimised through the use of **high quality, low emission plant**.
- Possible benefits - **replacement of old coal and oil fired plant with high quality wood fired plant located off the gas grid** and away from densely populated urban areas.
- **In urban areas or where an AQMA has been declared, other renewable heat technologies may be more appropriate;**
- Encourage the use of larger plant and the development of heat networks - where air quality emissions are easier to control than from a larger number of small plant.



Implementation of Air Quality Directive

- Directive 2008/50/EC adopted June 2008 - must implement by June 2010
- Preparing draft regulations and expect to consult later this year
- Will set new control framework for $PM_{2.5}$ - AEI, requires measurements at urban background where $> 100,000$ population. Monitoring in place from 1 January 2009
- Includes facility for compliance flexibility on limit value deadline for PM_{10} , NO_2 and Benzene (we are applying for PM_{10} and NO_2 only)
- Must demonstrate a robust case to European Commission
- Most major member states have or will be applying



AQ Directive – PM_{2.5}



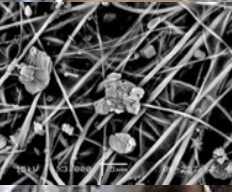
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Pollutant	Min Required by new Directive (Traffic)	Revised Automatic Urban and Rural Network (Traffic)	Current Position - Sites Live to Network (Traffic)
PM₁₀	115 (min 47 PM _{2.5} ; min 39 traffic; min 39 PM ₁₀)	65 (24)	47 (12)
PM_{2.5}		77 (22)	61 (11)
NO₂	83 (27)	119 (36)	110 (29)
CO	6 (2)	26 (5)	26 (5)
SO₂	28	45	43

Focus on the installation of PM_{2.5} at urban background sites - now completed at all but 3 sites

Gas analysers are currently being upgraded with MCERTS compliant units where necessary



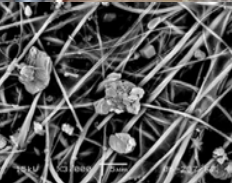
PM₁₀ time extension

- PM₁₀ levels gradually improved, but breaches reported since 2005 in a small number of urban 'hotspots' around the UK: extension sought for these and covers 8 zones
- Consultation closed 10 March - Received 30 comments from Local authorities, professional bodies, community groups and individuals
- Interest in
 - Technical detail
 - Measures - especially in London
- Application submitted on 24 April
- Additional information requested by Commission in June
- Commission decision due in the Autumn



NO₂ Compliance Flexibility

- Flexibility up to 2015 (from 2010)
- Currently have exceedences along 3,500km of busy roads across UK
- Without further action we still expect about 850km of exceedence along busy roads in London and other urban areas in 2015
- Have reviewed extent and nature of exceedences
 - Source apportionment
 - Distribution across the UK
 - Local and regional features
- Prepared framework to approach appraisal of options
- Develop national and local measures - consult early 2010



IE(IPPC)D Recast Directive



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- Political agreement reached at Environment Council on 25 June
- Recast to IE (IPPC)D – Industrial Emissions Directive combining 7 Directives into one, including IPPC, WID and LCPD.
- The agreement tightens minimum emission limits in certain industrial sectors, introduces standards for environmental inspections and strengthens the application of best available techniques.
- The agreement will now be sent to the European Parliament



LAPPC Review of Part B guidance

- Review to go ahead aims to:
 - improve environmental protection in line with BAT
 - remove unnecessary requirements
 - determine sectors suited to simplified permitting
 - update all supporting material
 - give framework for consistent interpretation of BAT
 - Guidance notes can also have a role of promoting new and emerging techniques
 - Timetable and further information on website:
<http://www.defra.gov.uk/environment/airquality/lapc/default.htm>
 - Local authority + industry participation in review sought



Gothenburg Protocol revision and NECD

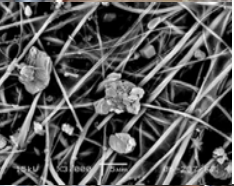


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- A multi-pollutant protocol under the UNECE CLRTAP
- Aim to reduce harmful effects due to air pollution by reaching environmental objectives to protect human health and the environment
- Sets binding emission ceilings for the four pollutants – SO_2 , NO_x , VOCs and NH_3 - to be attained by 2010
- Revision to include:
 - Addition of $\text{PM}_{2.5}$
 - Ceilings for 2020
- Proposal for revision of the NECD postponed (again) – now expected first half of 2010





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Thank you for your attention

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