Abbreviations and glossary

Abbreviations

AC10	The ten Accession Member States that joined the EU in May 2004
ADMS	Atmospheric Dispersion Modelling System
AMS	Aerosol mass spectrometer
APEG	Airborne Particles Expert Group
APHEA	Air Pollution and Health, a European Approach
AQEG	Air Quality Expert Group
AQMA	Air quality management area
AQS	Air Quality Strategy
ATOFMS	Aerosol time-of-flight mass spectrometer
AURN	Automatic Urban and Rural Network (air quality monitoring)
BAM	Met One Beta Attenuation Monitor or BAM 1020
BaP	Benzo(a)pyrene
BAT	Best available techniques
BATNEEC	Best available techniques not entailing excessive cost
BS	Black smoke
BSI	British Standards Institute
BSI	British Summer Time
CAFE	Clean Air For Europe
CALINE	California Line Source Model
CAP	Common Agricultural Policy
	Complete Cycle gas turbines
	Control for Ecology and Hydrology
	European Committee for Standardisation
	Coordinated European Programme on Particulate Matter Emission
	Inventories Projections and Guidance
CERC	Cambridge Environmental Research Consultants
	Confidence interval
	Confidence limit
CLRTAP	Convention on long-range transboundary air pollution
CNG	Compressed natural gas
CO	Carbon monoxide
CO ₂	Carbon dioxide
COMEAP	Committee on the Medical Effects of Air Pollutants
COPERT III	Computer Programme to Calculate Emissions from Road
	Transport (version III)
CORINAIR	The air emissions section of CORINE
CORINE	CoOoRdination d'Information Environmentale
CPC	Condensation particle counter
CRT	Continuously regenerating traps
CVS	Constant volume sampler
DA	Devolved Administration
DAPPLE	Dispersion of Air Pollution and Penetration into the Local Environment
Defra	Department for Environment, Food and Rural Affairs
DfT	Department for Transport
DL	Detection limit
DMA	Differential mobility analyser
DMPS	Differential mobility particle sizer
DMRB	Design Manual for Roads and Bridges

DMS	Dimethyl sulphide
DPF	Diesel particulate filter
DTI	Department for Trade and Industry
EA	Environment Agency
EAF	Electric Arc Furnace
EC	European Community
EEA	European Environment Agency
EFTA4	European Fair Trade Agreement countries
ELR	European load response
ЕМЕР	Cooperative Programme for Monitoring and Evaluation of the Long- Range Transmission of Air Pollutants in Europe
EPAQS	Expert Panel on Air Quality Standards
EPEFE	European Programme on Emissions, Fuels and Engine technologies
EPER	European Pollutant Emissions Register
EPSRC	Engineering and Physical Sciences Research Council
ERG	Environmental Research Group, King's College London
ESI	Electricity supply industry
ESP	Electrostatic precipitators
ETC-ACC	European Topic Centre on Air and Climate Change
EU	European Union
EU15	The 15 countries that were members of the European Union
	before May 2004
FAS	Free acceleration smoke
FDMS	Filter dynamics measurement system
FGD	Flue gas desulphurisation
FRAME	Fine Resolution Atmospheric Multi-pollutant Exchange
GDI	Gasoline direct injection
GIA	Global irradiation amount
GIS	Geographical information system
GLA	Greater London Authority
GMT	Greenwich Mean Time
HARM	Hull Acid Rain Model
HBAPMN	Hertfordshire and Bedfordshire Air Pollution Monitoring Network
HDV	Heavy duty vehicles – road vehicles greater than 3.5 tonnes weight (GVW)
HGV	Heavy goods vehicles – road vehicle greater than 7.5 tonnes (GVW), where GVW is the gross vehicle weight i.e. the combined weight
	of the vehicle and the goods
HIRIAM	High Resolution Limited Area Model
HNO.	Nitric acid
H.SO.	Sulphuric acid
HVS	High volume sampler
ICAO	International Civil Aviation Organisation
ICP-MS	Inductively coupled plasma – mass spectrometry
IGCB	Interdepartmental Group on Costs and Benefits
IIASA	International Institute for Applied Systems Analysis
INAA	Instrumental neutron activation analysis
IPC	Integrated pollution control
IPCC	Intergovernmental Panel on Climate Change
IPPC	Integrated Pollution Prevention and Control
JEP	Electricity Supply Industry Joint Supply Programme
KAQN	Kent Air Quality Network
KFG	Kleinfiltergerat (low volume sampler specified as a reference
	sampler for PM ₁₀)

kt	Kilotonne
LAEI	London Atmospheric Emissions Inventory
ΙΔΡΟ	Local air pollution control
	Local air quality management
	London Air Quality Network
	Large Compustion Plant Directive
	Light Duty Vahicles read vahicles less than 3.5 tennes weight
	Light Duty vehicles – Todu vehicles less than 5.5 tollines weight
	Light goods vehicles _ goods vehicles less than 2 5 tennes in weight
	Lignic goods vehicles – goods vehicles less than 5.5 tonnes in weight
	Liquid fidulation das
	Liquelleu petroleum gas
	Limit Value
	Low volume sampler
	Mayor's Air Quality Strategy
MARPOL	Marine Pollution Convention
MODIS	Moderate resolution imaging spectroradiometer
	Municipal solid waste
mg m ^{-s}	Milligrams per cubic metre of air
μm	Micrometres
µg m⁻³	Micrograms per cubic metre of air
NAEI	National Atmospheric Emissions Inventory
NAME	Numerical Atmospheric Dispersion Modelling Environment
Netcen	National environmental technology centre, part of AEA lechnology plc
NH ₃	Ammonia
NH ₄	Ammonium
Nm	Nanometres
NMMAPS	National Morbidity, Mortality and Air Pollution Study
NMVOC	Non-methane volatile organic compound
NO	Nitrogen monoxide, also termed nitric oxide
NO ₂	Nitrogen dioxide
NO ₃	Nitrate
NO _x	Nitrogen oxides (NO + NO ₂)
NPL	National Physical Laboratory
NRTF	National road traffic forecasts
0 ₂	Oxygen
0 ₃	Ozone
OEF	Oxford economic forecasting
ОН	Hydroxyl radical
OPG	Other petroleum gas
OSPM	Operational Street Pollution Model
PAH	Polycyclic aromatic hydrocarbon
PAN	Peroxyacetyl nitrate
PCB	Polychlorinated biphenyl
PI	Pollution Inventory
PIXE	Particle-induced X-ray emission
PM	Particulate matter
PM ₁₀	Airborne particulate matter passing a sampling inlet with a 50%
	efficiency cut-off at 10 µm aerodynamic diameter and which transmits
	particles of below this size
PM _{2.5}	Airborne particulate matter passing a sampling inlet with a 50%
	efficiency cut-off at 2.5 µm aerodynamic diameter and which transmits
	particles of below this size
PM ₁	Airborne particulate matter passing a sampling inlet with a 50%

	efficiency cut-off at 1 μ m aerodynamic diameter and which transmits
	particles of below this size
PM _{0.1}	Airborne particulate matter passing a sampling inlet with a 50%
0.1	efficiency cut-off at 0.1 um aerodynamic diameter and which transmits
	narticles of below this size
РМ	Fraction of the measured particle mass concentration determined from
coarse	PM minus PM
Pnh	Parts per billion (1,000,000,000)
	Pollution Prevention and Control
Pom	Parts per million
Ррпп	Particle surface area
	Quality of Urban Air Poview Group
	Pupprocht & Patachnick Co. Inc.
	Ruppiecht & Fatasinnick CO., Inc. Paviaw Group on Acid Pain
	Review Group on Acid Kain Reduced major axis
	Reduced Inajor axis
RIVIS	Root mean square
RUS	Reactive Oxygen species
SAQSG	Sussex Air Quality Steering Group
SCC	Sharp-cut cyclone
SEPA	Scottish Environment Protection Agency
SES	Sequential equilibrium system
SI	Spark ignition
SIA	Secondary inorganic aerosols
SJAC	Steam-jet aerosol collector
SIVINI	Society of Motor Manufacturers and Traders Limited
SIMPS	Scanning mobility particle sizer
SO ₂	Sulphur dioxide
SO ₄	Sulphate
SUA	Secondary organic derosol
ЭЭГ ТСА	Solid Sillokeless luel
	Tanarad Element Oscillating Microbalance
	Iransport for London
IRAMAQ	DTI funded, Iraffic management and air quality research programme.
TDI	The parameter and the protonely of K/trainady
	Transport Research Laboratory
	Total suspended particles
	ien year Plan
WHO	World Health Organisation
	United Kingdom
	United Kingdom Accreditation Service
	United Kingdom Offshore Operations Association
	Ultra low subbur dissol
	Ultra low sulphur petrol
	United Nations Economic Commission for Europa
	United States of America
	United States Environmental Protection Access
USEPA	Volatile organic compound
VVS	vvina speea
XKL	X-ray huorescence

Glossary

Accumulation	Particles from around 0.5 to 1 μ m diameter, resulting from primary
mode	emissions, condensation of secondary sulphates, nitrates and organics
	from the gas phase and coagulation of smaller particles. Particles can
A	have a long atmospheric lifetime, typically $7-30$ days.
Accuracy	A measure of the closeness of the agreement between the result of a
Acuto health offect	Short lasting or chart term in reference to either duration of expective.
Acute health effect	or effect of exposure to a pollutant
Aerosol	Δ mixture of suspended particulate matter and its daseous
Actosol	suspended medium
Air quality	Policy targets generally expressed as a maximum ambient
obiective	concentration to be achieved, either without exception or with a
	permitted number of exceedences within a specified timescale (see also
	air guality standard).
Air quality	The concentration of a pollutant, and associated averaging period, which
standard	is without significant effect on human health at a population level.
Ambient air	Outdoor air in the troposphere, excluding workplace air.
Annual mean	The average of the concentrations measured for each pollutant
	for one year. In the case of the air quality objectives this is for a
	calendar year.
AQMA	Air quality management area, an area which a local authority has
	designated for action, based upon predicted exceedences of air
	quality objectives.
Atmospheric	A mathematical, often computer-based method for calculating
dispersion model	pollutant concentrations from emissions data and specified
	meteorological conditions. Models vary from screening models
	to detailed 'new-generation' types.
AURN	Automatic Urban and Rural Network of air pollution measurement
	Administrations
Black Smoke	Non-reflective (dark) particulate matter associated with the smoke stain
DIACK SHIOKC	measurement method (BS 1747 pt 2° BSI 1969)
Brownian	Constant small movement of suspended particles due to bombardment
motion	by surrounding molecules.
Calibration	The process of multiplying the output of a model by a fixed correction
(modelling)	factor to give, on average, a 1:1 relationship with measured data.
Calibration	The process of reducing the uncertainty of monitoring data by
(monitoring)	controlled tests on the analyser, normally traceable to internationally
	accepted measurements standards.
Carcinogenic	Known or believed to cause cancer in humans.
Cardiopulmonary	Pertaining to the heart and lungs.
Cardiovascular	Pertaining to the heart and blood vessel (circulatory) system.
Chronic health	Long-lasting or long-term in reference to either duration of exposure or
effect	effect of exposure to a pollutant.
Coagulation	Process by which particles collide and coalesce together.
Coarse particle	Particles greater than 1 µm diameter, typically generated
mode	mechanically rather than through nucleation and condensation
	processes. Authospheric medimes are much shorter than for the

 see whether they develop a disease in response to exposure to the factor of interest. Concentration The amount of a (polluting) substance in a volume (of air), typically expressed as a mass of pollutant per unit volume of air at standard conditions of temperature and pressure (e.g. micrograms per cubic metre, µg m⁻³) or as the ratio of the number of molecules of the pollutant to the total number of molecules arriving at particle's surface than leaving the surface, resulting in a net growth of the particle. Condensation A physical process with more vapour molecules arriving at particle's surface than leaving the surface, resulting in a net growth of the particle. Confounding factor A condition or variable that is both a risk factor for disease and associated with an exposure of interest. This association between the exposure of interest and the confounder may make it falsely appear that the exposure of interest is associated with the disease. Correction factor See scaling factor. Correlation The fraction of the variability in one set of data that is proportional to the valical presend. Elemental carbon Black, graphitic carbon formed in the high temperature combustion of fossil and contemporary biomass fuels. Emission The amount of a (polluting) substance emitted in a certain amount of time, typically expressed as a mass of pollutant per unit time (e.g., grams per second or tonnes per year for a single source). May also be expressed per unit length of a road (e.g., g s⁻¹ m⁻¹), or per unit area of an urban area (e.g., ta⁻¹ km⁻²). Emissions A quantification and compilation of emission sources by geography an uban area (e.g., ta⁻¹ km⁻²). Europe-wide vehicle standard that required vehicles manufactured after 1992 to achieve set emissions limits. For petrol cars this was achieved by the	Cohort study	Study in which a group or cohort of people are followed over time to
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<i>In vitro</i> Iaking place in isolation from a living organism.	nucleation	pressure condense with one another to form wholly new particles.
	IN VITRO	Taking place in isolation from a living organism.
Mass closure The concept that sum of the individual chemical components equals	Mass closure	The concept that sum of the individual chemical components equals
the measured mass of particles.		the measured mass of particles.

Microgram (µg) mg m ^{−3}	One millionth of a gram. Milligrams per cubic metre of air. A unit for describing the concentration of air pollutants in the atmosphere as a mass of pollutant per unit volume of air. This unit is one thousand-times larger
µg m⁻³	than the μ g m ⁻³ unit listed below. Micrograms per cubic metre of air. A unit for describing the concentration of air pollutants in the atmosphere, as a mass of pollutant per unit volume of air. A concentration of 1 μ g m ⁻³ means that one cubic metre of air contains one microgram of pollutant.
Micrometre (µm)	One millionth of a metre, also referred to as a micron.
Minor roads	Non A roads or motorways.
Morbidity	Illness.
Mutagenic	Capable of increasing the rate of genetic mutation in living organisms.
Nanometre (nm)	10 ⁻⁹ metres.
Nanoparticle	Particle smaller than 50 nm diameter.
Nucleation	Process by which secondary particles are formed: molecules of low
	volatility condense to form solid or liquid matter (see also
	heterogeneous nucleation and homogeneous nucleation).
Nucleation mode	Particles smaller than around 50 nm and usually consisting of fresh
	aerosois created <i>in situ</i> from the gas-phase by nucleation.
Organic carbon	Carbon in the form of organic compounds, either primary from
Organic Carbon	automotive or industrial sources or secondary from the oxidation
	of VOCs
Particulate matter	Suspended particulate matter is any non-gaseous material (liquid
	or solid) that, owing to its small gravitational settling rate, remains
	suspended in the atmosphere for appreciable time periods.
PM ₁₀	Airborne particulate matter passing a sampling inlet with a 50%
	efficiency cut-off at 10 μ m aerodynamic diameter and which transmits
	particles of below this size.
PM _{2.5}	Airborne particulate matter passing a sampling inlet with a 50%
	efficiency cut-off at 2.5 µm aerodynamic diameter and which transmits
DIA	particles of below this size.
PIVI _{coarse}	Fraction of the measured particle mass concentration determined from
nnh	Pivi ₁₀ minus Pivi _{2.5} . Parts par hillion The concentration of a pollutant in air in terms of
hhn	rais per binnon. The concentration of 1 pph means that for every billion (10^9)
	molecules in a volume of air, there is one molecule of the specified
	pollutant present. For practical purposes in ambient air, the molar ratio
	and volume ratio (the volume occupied by the pollutant gas within a
	given volume of air) are identical.
ppm	Parts per million. The concentration of a pollutant in air in terms of
	molar ratio. A concentration of 1 ppm means that for every million
	(10 ⁶) molecules in a volume of air, there is one molecule of the
	specified pollutant present. For practical purposes in ambient air, the
	molar ratio and volume ratio (the volume occupied by the pollutant
	gas within a given volume of air) are identical.
Precision	A measure of the closeness of the agreement between the results of
	successive measurements where the true value remains constant (see
	also Accuracy and Uncertainty).

Primary particles	Particles emitted directly into the environment. This includes particles from both natural sources, such as the entrainment of soils by the wind, and anthropogenic sources, such as particles arising directly from
	processes such as combustion and quarrying.
Residual	A component that is commonly incorporated into both semi-empirical
component	and dispersion models to account for primary particulate matter that is
	not accounted for in the emissions inventory or otherwise included in
	the calculations. For predictions of PM ₁₀ concentrations, the residual
	component will usually be dominated by particles within the PM
	raction and will comprise emissions from various sources including sea
	amissions not otherwise included in the modelling
Scaling factor	Due to the need to eliminate the effect of changing humidity on the
Scaling factor	mass measurement of PM_TEOMs must maintain the sample filter at
	an elevated temperature. This has led to reported differences in
	concentrations of PM between the TEOM and the European reference
	sampler that is largely attributed to the loss of volatile species such as
	ammonium nitrate. As an interim measure, a default 'scaling factor'
	(also known as correction factor) of 1.3 is currently applied to all
	nationally reported TEOM PM ₁₀ data in the UK as recommended by the
	EC Working Group on Particulate Matter.
Secondary	Particles formed in the atmosphere as a result of chemical reactions
particles	leading to the formation of substances of low volatility that
Stago II indicativo	Consequently condense into the solid or liquid phase.
limit values	indicative limit values for both 24 b and appual average PM to be
mint values	achieved by 1 January 2010. These Stage II limit values are only
	indicative and will be reviewed by the FC in light of further information
	on health and environmental effects, technical feasibility and
	experience gained in the application of Stage I limit values by Member
	States. They have no legal standing.
Susceptible group	A group of people who, as a result of genetic predisposition, illness
	or unusual exposure, are more affected by toxic substances than
	other people.
TEOM	Tapered element oscillating microbalance. Equipment used for
To tall an an also d	measuring fine particulate matter such as PIVI ₁₀ .
Iotal suspended	A term describing the mass of airborne particles, usually determined
particles (TSP)	membrane over a 24 hour period. Includes particles with a wide range
	of sizes
True value	The value of a concentration for example, which is entirely consistent
	with the definition of the units in which it is given. This is the value
	that would be obtained by a perfect measurement.
Ultrafine particles	Particles smaller than 100 nm diameter.
Uncertainty	A measure, associated with the result of a measurement, that
-	characterizes the range of values within which the true value is
	expected to lie. Uncertainty is usually expressed as the range within
	which the true value is expected to lie with a 95% probability, where
	standard statistical and other procedures have been used to evaluate
	this figure. Uncertainty is more clearly defined than the closely related
	parameter accuracy, and has replaced it on recent European legislation.