



LIST OF USEFUL ACRONYMS USED IN EMISSIONS ACTIVITIES

AAM	Alliance of Automobile Manufacturers (US)
ACEA	Association des Constructeurs Européen d'Automobiles (European Automobile Manufacturers' Association)
ACEM	Association des Constructeurs Européen de Motocycles (Motorcycle Industry in Europe)
ADA	Abgaszentrum der Deutsche Automobilindustrie
ADAC	Allgemeiner Deutscher Automobil-Club
ADEME	Agence de l'Environnement et de la Maîtrise de l'Energie (F)
AECC	Association for Emissions Control by Catalyst
AECS	Auxiliary Emission Control Strategy
AEGPL	Association Européenne des Gaz de Pétrole Liquéfiés
AFEEVAS	South America Vehicles Emission Control Equipments Manufacturers Association
A/F or AFR	Air:Fuel Ratio
AFITE	Association Française des Ingénieurs et Techniciens de l'Environnement
AFTP	Association Française des Techniciens et Professionnels du Pétrole
AIAM	Alliance of International Automobile Manufacturers (US)
AIT	Alliance Internationale de Tourisme
AKPF	Arbeitskreis Partikel-Filter-Systemhersteller (Swiss particulate trap manufacturers organisation)
ALDE	Alliance of Liberals and Democrats for Europe (EP group)
APHEA	EU Project: Air Pollution and Health - a European Approach
API	American Petroleum Institute
AQ	Air Quality
ARB	Air Resources Board (California)
ASC	Ammonia Slip Catalyst
ATC	Additives Technical Committee (CEFIC Sector Group)
ATIEL	Association Technique de l'Industrie Européenne des Lubrifiants
ATOC	Association of Train Operating Companies (UK)
AUVA	Austrian Social Insurance for Occupational Risks
B30	Diesel fuel containing 30% biodiesel (Fatty Acid Methyl Ester)
BACT	Best Available Control Technology
BAFU	Bundesamt für Umwelt (Swiss Environment Ministry)
BAT	Best Available Technique
BC	Black Carbon (soot, approximately equates to Elemental Carbon)
BECS	Base Emission Control Strategy
BEE	European Environmental Bureau
BEUC	Bureau Européen des Unions des Consommateurs
BG BAU	Berufsgenossenschaft der Bauwirtschaft - Professional Association of the Building and Construction Industry (Germany) -former TBG
BEV	Battery Electric Vehicle
BMU	Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit (German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety)
BMVBS	Bundesministerium für Verkehr, Bau und Stadtentwicklung (German Federal Ministry of Transport, Building and Urban Affairs)
BREF	Best Available Technique Reference Note
BTL	Biomass to Liquid
BUWAL	Bundesamt für Umwelt, Wald & Landschaft (Swiss Agency for the Environment, Forests and Landscape) - now BAFU
CADC	Common Artemis Driving Cycle
CAFE	Clean Air for Europe and Corporate Average Fuel Economy (US)
CATP	Committee for Adaptation to Technical Progress
CAPoC	Catalysis and Automotive Pollution Control (International Congress)



CARB	California Air Resources Board
CARS21	Competitive Automotive Regulatory System for the 21 st Century
C-DPF	Catalysed Diesel Particulate Filter
CCC	Close Coupled Converter
CCMC	Comité des Constructeurs Européen d'Automobile du Marché Commun (now ACEA)
CCNR	Central Commission for Navigation on the Rhine
CEC	Co-ordinating European Council (Test Methods for Fuels/Lubricants)
CECRA	Comité Européen du Commerce & de la Réparation Automobiles
CEFIC	European Chemical Industry Council
CEMA	European Committee of Associations of Manufacturers of Agricultural Machinery
CEN	Comité Européen de Normalisation / European Committee for Standardization
CER	Community of European Railway and Infrastructure Companies
CVEC	Committee of Vehicle Emissions Control in China
CFV-CVS	Critical Flow Venturi Constant Volume Sampling System
CH ₄	Methane
CI	Compression Ignition (Diesel)
CITA	Comité International de l'Inspection Technique Automobile
CLA	Chemiluminescence Analyser (NO _x or ozone analyser)
CLD	Chemiluminescence Detector (NO _x or ozone detector)
CLEPA	Comité de Liaison de la Construction d'Équipement et de Pièces d'Automobiles
CNG	Compressed Natural Gas
CMAJ	Catalyst Manufacturers Association of Japan
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
COMEAP	Committee on Medical Effects of Air Pollutants (UK)
CONCAWE	Conservation of Clean Air & Water in Europe
CRC	Coordinating Research Council (US Auto/Oil companies)
CR-DPF	Continuously Regenerating Diesel Particulate Filter
CPC	Condensation Particle Counter
CUC	Clean-up Catalyst
CVS	Constant Volume Sampling System
DECSE	Diesel Emission Controls Sulfur Effects project (US)
DEEP	Diesel Emission Evaluation Program (Canadian mines)
DEFRA	Department for Environment, Food & Rural Affairs (UK)
DeNO _x	Catalyst/trap system that reduces NO _x in lean exhaust
DF	Deterioration Factor
DfT	Department for Transport (UK)
DG	Directorate-General
DG-CLIMA	Directorate-General for Climate Action of the European Commission
DG-ENER	Directorate-General for Energy of the European Commission
DG-ENTR	Directorate-General for Enterprise and Industry of the European Commission
DG-ENV	Directorate-General for Environment of the European Commission
DG-JRC	Joint Research Centre (DG of the European Commission)
DG-MOVE	Directorate-General for Mobility and Transport of the European Commission
DI	Direct Injection
DIN	Deutsches Institute für Normung
DME	Dimethyl Ether
DMU	Diesel Multiple Unit
DNT	Diesel NO _x trap
DOC	Diesel Oxidation Catalyst
DPF	Diesel Particulate Filter
DPM	Diesel Particulate Matter
DTC	Diagnostic Trouble Code
DWE	Diesel Water Emulsion
EBU	European Barge Union
EC	European Community (now EU) or European Commission
EC	Elemental Carbon (fraction of particulate matter)



ECAS	European Citizen Action Service
ECE	United Nations Economic Commission for Europe (Also ECE City test cycle)
ECMA	Emission Controls Manufacturers Association and European Catalysts Manufacturers Association (CEFIC)
ECMT	European Conference of Ministers of Transport
ECR	European Conservatives and Reformists (EP group)
ECS	Emissions Control System
EEA	European Environment Agency (EU)
EEB	European Environmental Bureau
EEFMA	European Emulsion Fuel Manufacturers' Association
EEV	Enhanced Environmentally-friendly Vehicle
EFD	Europe of Freedom and Democracy (EP group)
EFI	Electronic Fuel Injection
EFEG	Environmental Fuels Expert Group (European Commission)
EFOA	European Fuel Oxygenates Association (CEFIC Sector Group)
EFV	Environmentally Friendly Vehicle
EGO	Exhaust Gas Oxygen Sensor
EGR	Exhaust Gas Recirculation
ELV	End of Life Vehicles
ELR	European Load Response test (Heavy Duty)
EMA	Engine Manufacturers Association (US)
EMPA	Swiss Federal Laboratory for Materials Testing & Research
ENGVA	European Natural Gas Vehicle Association
ENVI	Environment, Public Health & Food Safety Committee of the European Parliament
EP	European Parliament
EPP	European People's Party (EP group)
EPA	US Environmental Protection Agency
EPEFE	European Programme on Emissions, Fuels & Engine Technologies
EPMF	European Precious Metals Federation
ESC	European Steady State Cycle (Heavy Duty)
ETBE	Ethyl Tertiary Butyl Ether (fuel oxygenate)
ETC	European Transient Cycle (Heavy Duty)
EtOH	Ethyl Alcohol (Ethanol)
EU	European Union
EUCAR	European Council for Automotive R&D (ACEA)
EUDC	Extra Urban Driving Cycle (EU)
EUROMOT	European Association of Internal Combustion Engine Manufacturers
EUROPIA	European Petroleum Industries Association
EV	Electric Vehicle
EZEV	Equivalent Zero Emissions Vehicle (CARB standard)
FAEE	Fatty Acid Ethyl Ester (biodiesel)
FAME	Fatty Acid Methyl Ester (biodiesel)
FBC	Fuel Borne Catalyst
FCV	Fuel Cell Vehicle
FEMA	Federation of European Motorcyclists Associations
FFV	Flexible-Fuel Vehicle
FIA	Fédération Internationale de l'Automobile
FIA	Flame Ionisation Analyser (hydrocarbon analyser)
FID	Flame Ionisation Detector (hydrocarbon detector)
FiGE	Forschungs Institut Gerausche und Erschutterungen
FQ	Fuel Quality
FTIR	Fourier-Transform Infra-Red analyser (emissions analyser)
FTP	Federal Test Procedure (US)
GDI	Gasoline Direct Injection
GEME	Group of Experts on Mechanical Equipment (EU)
GFV	Gaseous Fuelled Vehicles
GHG	Green House Gas
GPF	Gasoline Particulate Filter

GRPE	Meeting of Experts on Pollution and Energy (UN-ECE)
gtr	Global Technical Regulation (UN-ECE)
GUE/NGL	European United Left – Nordic Green Left (EP group)
GVW	Gross Vehicle Weight
GWP	Global Warming Potential
H ₂	Hydrogen
HC	Hydrocarbons
HCCI	Homogeneous Charge Combustion Ignition
HDC	Highway Driving Cycle
HD(V, E)	Heavy Duty (Vehicle, Engine)
HEGO	Heated Exhaust Gas Oxygen Sensor
HEV	Hybrid Electric Vehicle
HGV	Heavy Goods Vehicle
HUEGO	Heated Universal Exhaust Gas Oxygen Sensor
I&M or I/M	Inspection & Maintenance Program (US Clean Air Act)
IANGV	International Association for Natural Gas Vehicles
IC	Internal Combustion
ICE	Internal Combustion Engine
IDI	Indirect Diesel Injection
IFP	Institut Français du Pétrole
IMCO	Internal Market and Consumer Protection Committee of the European Parliament
IMechE	Institution of Mechanical Engineers (UK)
IMMA	International Motorcycle Manufacturers Association
IMO	International Maritime Organization
INRETS	Institut National de Recherche sur les Transports et leur Sécurité (France)
IPA	International Platinum Group Metal Association
IPCC	Intergovernmental Panel on Climate Change
IPMI	International Precious Metals Institute
IPPC	Integrated Pollution Prevention and Control
IRGA	Infra-Red Gas Analyser
IRIS	Integrated Risk Information System (US EPA)
ISC	In-Service Conformity
ISO	International Organization for Standardization
ITRE	Industry, Research and Energy Committee of the European Parliament
IUC	In-Use Compliance
IUPR	In-Use Performance Ratio
IWT	Inland Waterway Transport
JAMA	Japanese Automobile Manufacturers Association
JASIC	Japan Automobile Standards Internationalization Center
JE05	New Japanese driving cycle (Heavy-duty)
KAMA	Korean Automobile Manufacturers Association
KBA	Kraftfahrt-Bundesamt (Germany)
LCA	Life Cycle Analysis
LCV	Light Commercial Vehicles
LD(V)	Light-duty (Vehicles)
LeanNO _x	Catalyst that reduces NO _x in lean exhaust
LEV	Low Emissions Vehicle (CARB)
LEZ	Low Emission Zone
LNG	Liquefied Natural Gas
LOC	Light Off Catalyst
LPG	Liquefied Petroleum Gas
M100	100% MeOH
M85	85% MeOH:15% Gasoline
MDV	Medium Duty Vehicles
MDLT	Mini-Dilution Tunnel
MECA	Manufacturers of Emission Controls Association
MeOH	Methyl Alcohol (Methanol)
MI(L)	Malfunction Indicator (Light)

MMT	Methyl Cyclopentadienyl Manganese Tricarbonyl
MON	Motor Octane Number
MSHA	Mine Safety and Health Administration (US)
MTBE	Methyl Tertiary Butyl Ether
MVEG	Motor Vehicles Emissions Expert Group (European Commission)
MY	Model Year
N ₂ O	Nitrous oxide
NDIR	Non-Dispersive Infra Red analyser (CO and CO ₂ analyser)
NEC	National Emissions Ceilings
NEDC	New European Driving Cycle
NESCAUM	North Eastern States for Co-ordinated Air Use Management (US)
NGO	Non-Governmental Organisation
NGV	Natural Gas Vehicle
NLEV	National Low Emission Vehicle standard (US)
NMHC	Non-Methane Hydrocarbons
NMOG	Non-Methane Organic Gases
NO	Nitric oxide
NO ₂	Nitrogen dioxide
NOx	Nitrogen oxides (primarily NO + NO ₂)
NPRM	Notice of Proposed RuleMaking (US)
NRMM	Non-Road Mobile Machinery
NRSC	Non-road Steady-state Cycle (UN-ECE)
NRTC	Non-Road Transient Cycle (UN-ECE)
O ₃	Ozone
OBD	On-Board Diagnostics
OBM	On-Board Measurement
OC	Organic Carbon (fraction particulate matter)
OCE	Off-Cycle Emissions (UN-ECE)
OE(M)	Original Equipment (Manufacturer)
OECD	Organisation for International Co-operation and Development
OICA	Organisation Internationale des Constructeurs d'Automobiles
OSC	Oxygen Storage Capacity
OTL	On-board Threshold Limit
PAH	Polycyclic Aromatic Hydrocarbon
PAMS	Portable Activity Measurement System
PCFV	Partnership for Clean Fuels and Vehicles (UNEP)
PDP-CVS	Positive Displacement Pump Constant Volume Sampling System
PEMFC	Proton Exchange Membrane Fuel Cell (same as Solid Polymer Fuel Cell)
PEMS	Portable Emissions Measurement System
PI	Positive Ignition
PGE	Platinum Group Elements (Pt, Pd, Rh, Ir, Ru, Os)
PGM	Platinum Group Metals (Pt, Pd, Rh, Ir, Ru, Os)
Pkm	Passenger carried for 1 km
PM	Particulate Matter
PM _{0.1}	Particulate Matter < 0.1 micron mean diameter
PM ₁	Particulate Matter < 1 micron mean diameter
PM _{2.5}	Particulate Matter < 2.5 micron mean diameter
PM ₁₀	Particulate Matter < 10 micron mean diameter
PMP	Particulate Measurement Program (UNECE)
PN, P#	Particle Number
PNC	Particle Number Counter
PNGV	Partnership for New Generation of Vehicles (US)
ppm	parts per million
PTW	Powered Two-Wheeler (motorcycle or moped) or Pump-To-Wheels
PZEV	Partial Zero Emissions Vehicle (California)
QUARG	Quality of Urban Air Review Group (UK)
RAINS	Regional Air Pollution Information and Simulation
R&D	Research & Development

REC	Retrofit Emissions Controls (UNECE)
RDE-LDV	Real-Driving Emissions – Light-Duty Vehicles
RFG	Reformulated Gasoline
RME	Rapeseed Methyl Ester (biodiesel)
RON	Research Octane Number
RPA	Relative Positive Acceleration
RVP	Reid Vapour Pressure
S	Sulfur
S&D	Progressive Alliance of Socialists and Democrats (EP group)
SAE	Society of Automotive Engineers (US)
SC	Sub-Committee (ISO)
SCAQMD	South Coast Air Quality Management District (California)
SCR	Selective Catalytic Reduction
SHED	Sealed Housing for Evaporative Determination
SI	Spark Ignition (Otto)/Systeme International d'Unités
SIA	Société des Ingénieurs de l'Automobile (F)
SMMT	Society of Motor Manufacturers & Traders (GB)
SMPS	Scanning Mobility Particle Sizer
SPCS	Solid Particle Counting System
SPFC	Solid Polymer Fuel Cell (same as Proton Exchange Membrane Fuel Cell)
SOF	Soluble Organic Fraction
SOFC	Solid Oxide Fuel Cell
SOx	Sulphur Oxides
STOA	Scientific and Technological Options Assessment (European Parliament)
SULEV	Super Ultra Low Emissions Vehicle
SULG(P)	Super Unleaded Gasoline (Petrol)
SUV	Sports Utility Vehicle
T&E	European Federation for Transport and Environment.
TC	Technical Committee (CEN and ISO)
TCS	Touring Club der Schweiz
TDC	Top Dead Centre
TGRS	Technische Richtlinien für Gefahrstoffe (Germany) - Technical guidelines for harmful substances
THC	Total Hydrocarbons
tkm	Ton carried for 1 km
TLEV	Transitional Low Emissions Vehicle (CARB standard)
TNO	Road Vehicles Research Institute (NL)
TRAN	Transport and Tourism Committee of the European Parliament
TRL	Transport Research Laboratory (UK)
TSP	Total Suspended Particulate
TÜV	Techischer Überwachungsverein (German Testing Organisation)
TVA	Value Added Tax (B/F)
TWC	Three Way Catalyst
UBA	Umweltbundesamt (German Federal Environment Agency)
UBC	Under-Body Converter
UEGO	Universal Exhaust Gas Oxygen Sensor
UFP	Ultra-Fine Particles
UIC	Union Internationale des Chemins de fer (International Union of Railways)
UITP	Union Internationale des Transports Publics
UKPIA	Petroleum Industry Association (UK)
ULEV	Ultra Low Emissions Vehicle (CARB standard)
ULG(P)	Unleaded Gasoline (Petrol)
ULSD	Ultra Low Sulphur Diesel
ULSG(P)	Ultra Low Sulphur Gasoline (Petrol)
UNECE	United Nations Economic Commission for Europe
UNEP	United Nations Environment Programme
UNIFE	Union of the European Railway Industries
UTAC	L'Union Technique de l'Automobile, du Motocycle et du Cycle (France)



VAT	Value Added Tax
VCA	UK Type Approval Authorities
VDA	Verband der Automobilindustrie (D)
VDI	Vereinigung der deutschen Ingenieure
VDMA	Verband Deutscher Maschinen-und Anlagenbau (German Engineering Federation)
VED	Vehicle Excise Duty
VERT	Verminderung der Emissionen Realer Dieselmotoren im Tunnelbau (Reduction of Diesel Emissions in Tunnelling)
VITO	Vlaamse Instelling voor Technologisch Onderzoek (Belgium)
VOC	Volatile Organic Compounds
VOSA	Vehicle and Operator Services Agency (UK) - responsible for roadworthiness tests
VPR	Volatile Particle Remover
VROM	Ministerie van Volkshuisvesting, Ruimtelijke Ordening en Milieubeheer (Netherlands Ministry of Housing, Spatial Planning and the Environment)
WG	Working Group (CEN and ISO)
WHDC	World-wide Heavy Duty Certification procedure
WHO	World Health Organisation
WHDC	World-Harmonized Heavy-duty Test Procedure (UNECE)
WHSC	World-Harmonized Steady-state Cycle (UNECE)
WHTC	World-Harmonized Transient Cycle (UNECE)
WLTP	World-Harmonized Light-duty Test Procedure (UNECE)
WMTC	World-wide Motorcycle Test Procedure (UNECE)
WP29	World Forum for Harmonization of Vehicle Regulations (UNECE)
WTP	Well-To-Pump
WTW	Well-To-Wheel
WWF	World Wide Fund for Nature
ZDAKW	Gasoline engine test cycle with poisoning phases; cycle developed by Zusammenarbeit Deutscher Automobilhersteller zur Katalysator Weiterentwicklung
ZEV	Zero Emissions Vehicle (CARB standard)
Z-LEV	1/10 th ULEV
λ 1	Stoichiometric air-fuel ratio

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