



## CIBO'S ACRONYMS

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### A

<b>AAM</b>	Alliance of Automobile Manufacturers
<b>ACC</b>	American Chemistry Association
<b>acid rain</b>	Air pollution produced when acid chemicals from air pollutants, including sulfur dioxides and nitrogen oxides, are incorporated into rain, snow, fog, or mist.
<b>AF&amp;PA</b>	American Forest & Paper Association
<b>AHAT</b>	Ad Hoc Air Trajectory Group (an OTAG mini-workgroup)
<b>AGA</b>	American Gas Assn
<b>Ah</b>	Aryl hydrocarbon
<b>AIRS</b>	Aerometric Information Retrieval System (of U.S. EPA)
<b>ALAPCO</b>	Assn of Local Air Pollution Control Officials
<b>ANPR</b>	Advanced Notice of Proposed Rulemaking
<b>AOC</b>	Area of Concern
<b>API</b>	American Petroleum Institute
<b>AQA</b>	Air Quality Analysis (an OTAG workgroup)
<b>AQMD</b>	Air Quality Management District
<b>AQSM</b>	Air Quality Simulation Model
<b>area sources</b>	Air pollution sources that are not licensed under law (i.e., cars, homes, Laundromats, etc.
<b>ATS</b>	EPA's SO <sub>2</sub> Allowance Tracking System
<b>ATSDR</b>	Agency for Toxic Substances and Disease Registry
<b>Attainment</b>	Compliance with the NAAQS established by U.S. EPA
<b>AWQC</b>	Ambient Water Quality Criterion or Criteria

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### B

<b>BACM</b>	Best Available Control Measures
<b>BACT</b>	Best Available Control Technology
<b>B (a) P</b>	Benzo (a) Pyrene
<b>BOOS</b>	Burners Out Of Service

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### C

<b>CAA</b>	Clean Air Act
<b>CAAA</b>	Clean Air Act Amendments of 1990
<b>CAAAC</b>	Clean Air Act Advisory Committee
<b>CAFE</b>	Corporate Average Fuel Economy
<b>CAIR</b>	Clean Air Interstate Rule
<b>CAMD</b>	Clean Air Markets Division of EPA
<b>CAMR</b>	Clean Air Mercury Rule
<b>CAPI</b>	Clean Air Power Initiative
<b>CARB</b>	California Air Resources Board
<b>CASAC</b>	Clean Air Scientific Advisory Committee
<b>CBADS</b>	Chesapeake Bay Atmospheric Deposition Study
<b>CBOS</b>	Chesapeake Bay Observing System
<b>CBP</b>	Chesapeake Bay Program

<b>CCMP</b>	Comprehensive Conservation & Management Plan
<b>CEM</b>	Continuous emission monitoring (see also CEMS)
<b>CEMS</b>	Continuous emission monitoring systems. Instruments that measure, on a continuous basis, pollutants released by a source (see also CEM)
<b>CENRAP</b>	Central States Regional Air Planning Association
<b>CEQ</b>	Council on Environmental Quality
<b>CFCs</b>	Chlorofluorocarbons
<b>CH<sub>4</sub></b>	Methane
<b>CHP</b>	Combined Heat & Power
<b>CIBO</b>	Council of Industrial Boiler Owners
<b>CMB</b>	Chemical Mass Balance
<b>CMSA</b>	Combined Metropolitan Statistical Area
<b>CNG</b>	Compressed Natural Gas
<b>CO</b>	Carbon monoxide
<b>CrèMe</b>	Cooperative Regional Model Evaluation
<b>CT</b>	Combustion Turbine
<b>CTG</b>	Control Technique Guideline
<b>CTO</b>	Control Technologies and Options (an OTAG workgroup)
<b>CWA</b>	Clean Water Act

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## D

<b>DG</b>	Distribution Generator
<b>DDD</b>	Dichlorodiphenyldichloroethane
<b>DDE</b>	Dichlorodiphenyldichloroethylene
<b>DDT</b>	Dichlorodiphenyltrichloroethane
<b>deciview</b>	A linear index expressing visibility impairment. A linear scale to measure impairment is used because changes in visual range are not proportional to human perception. (see also visibility)
<b>DEIS</b>	Draft environmental impact statement
<b>DES</b>	Diethylstilbestrol
<b>DHS</b>	Department of Homeland Security
<b>dL</b>	Deciliter
<b>DOD</b>	Department of Defense
<b>DOE</b>	Department of Energy
<b>DOT</b>	Department of Transportation
<b>DQA</b>	Data Quality Assessment
<b>DQOs</b>	Data Quality Objectives
<b>DSM</b>	Demand Side Management

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## E

<b>ECO</b>	Employee Commute Options
<b>ECOS</b>	Environmental Council of the States
<b>EDF</b>	Environmental Defense Fund
<b>EI</b>	Edison Electric Institute
<b>EGU</b>	Electric Generating Unit
<b>EI</b>	Emissions Inventory (an OTAG workgroup)
<b>EIS</b>	Environmental Impact Statement
<b>EMAP</b>	Environmental Monitoring & Assessment Program
<b>EPA</b>	U.S. Environmental Protection Agency

<b>EPRI</b>	Electric Power Research Institute
<b>ERC</b>	Emission Reduction Credit
<b>ESP</b>	Electrostatic Precipitator- a device that removes particulate matter from exhaust gases
<b>ETBE</b>	Ethyl Tertiary Butyl Ether
<b>ETS</b>	European Trading System
<b>EU</b>	European Union
<b>EV</b>	Electric Vehicle

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## F

<b>FACA</b>	Federal Advisory Committee Act, the law providing for stakeholder groups' participating in rulemaking
<b>FAI</b>	Financial Assessment and Implementation (an OTAG subgroup)
<b>FBN</b>	Fuel-Bound Nitrogen
<b>FDA</b>	Food & Drug Administration
<b>FERC</b>	Federal Energy Regulatory Commission
<b>FEV</b>	Forced Expiratory Volume – the volume of air measured in the first second of a forced vital capacity (FVC) test.
<b>FGET</b>	Furnace Gas Exit Temperature
<b>FGR</b>	Flue Gas Recirculation
<b>FIP</b>	Federal Implementation Plan
<b>FVC</b>	Forced Vital Capacity – the volume of air measured in a complete exhalation accomplished as rapidly as the individual can expel the air.

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## G

<b>g</b>	gram
<b>GACT</b>	Generally Available Control Technology
<b>GAO</b>	General Accounting Office
<b>GLWQA</b>	Great Lakes Water Quality Agreement
<b>GLWQB</b>	Great Lakes Water Quality Board
<b>GLWQC</b>	Great Lakes Water Quality Criteria
<b>GLWQG</b>	Great Lakes Water Quality Guidance
<b>GLWQO</b>	Great Lakes Water Quality Objective
<b>GMP</b>	Gulf of Mexico Program
<b>gr</b>	grain
<b>Ground-level ozone</b>	A gaseous compound located in the troposphere and formed when precursors such as NO <sub>x</sub> and VOCs, react in the presence of sunlight. (see also ozone tropospheric ozone)
<b>GWP</b>	Global Warming Potential

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## H

<b>HAP</b>	Hazardous Air Pollutant
<b>HC</b>	Hydrocarbon; also hazardous constituents
<b>HCB</b>	Hexachlorobenzene
<b>HCFC</b>	Hydrochlorofluorocarbons
<b>HDT</b>	Heavy-Duty Truck
<b>HDV</b>	Heavy-Duty Vehicle
<b>HEAT</b>	House Energy Action Team

<b>HEI</b>	Health Effects Institute
<b>Hg</b>	Mercury
<b>HON</b>	Hazardous Organic NESHAP
<b>HPMS</b>	Highway Performance Monitoring System
<b>HRSG</b>	Heat Recovery Steam Generator

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**I**

<b>IADN</b>	Integrated Atmospheric Deposition Network
<b>ICBM</b>	Industrial Combustion Boiler MACT
<b>IJC</b>	International Joint Commission
<b>IM</b>	Inspection and Maintenance
<b>IMCC</b>	Interstate Mining Compact Commission
<b>ILEV</b>	Inherently LEV
<b>ISI</b>	Implementation Strategies and Issues (an OTAG workgroup)
<b>ISTEA</b>	Intermodal Surface Transportation Efficiency Act
<b>ITP</b>	Industrial Technologies Program

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**J**

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**K**

<b>kg</b>	Kilogram
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**L**

<b>L</b>	Liter
<b>LADCO</b>	Lake Michigan Air Directors Consortium
<b>LAER</b>	Lowest achievable emission rate
<b>LDT</b>	Light-Duty Truck
<b>LDV</b>	Light-Duty Vehicle
<b>LEBS</b>	Low-Emission Boiler System
<b>LEV</b>	Low Emission Vehicle
<b>LEVP</b>	49-state Low-Emission Vehicle Program
<b>LNB</b>	Low-NOx Burners (see also LNCB)
<b>LNCB</b>	Low-NOx Cell Burners (see also LNB)
<b>LPG</b>	Liquefied Petroleum Gas
<b>LQER</b>	Lesser-Quantity Emission Rates
<b>LVW</b>	Loaded Vehicle Weight

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**M**

<b>M&amp;A</b>	Modeling and Assessment (an OTAG subgroup)
<b>MACT</b>	Maximum Achievable Control Technology
<b>MANE-VU</b>	Mid-Atlantic/Northeast Visibility Union
<b>MARAMA</b>	Mid-Atlantic Regional Air Management Association
<b>MCL</b>	Maximum contaminant level
<b>MET</b>	Meteorology (data)

<b>MFR</b>	Modified Focus Roll out
<b>mg</b>	Milligram
<b>MMBtu</b>	Million Btu
<b>MMT</b>	Methylcyclopentadienyl manganese tricarbonyl – a manganese compound used as an additive in mobile sources (gasoline additive)
<b>mobile sources</b>	Objects that are not fixed or stationary and may release air pollutants; mobile sources are divided into two groups: road vehicles and non-road vehicles. Non-road vehicles include trains, planes, lawn mowers, etc.
<b>MOCA</b>	Modeling Ozone Cooperative
<b>MOG</b>	Midwest Ozone Group
<b>MOU</b>	Memorandum of Understanding
<b>MRPO</b>	Midwest Regional Planning Organization, associated with the LADCO
<b>MSA</b>	Metropolitan Statistical Area (see also CMSA)
<b>MSDS</b>	Material Safety Data Sheets
<b>MSR</b>	Management Systems Review
<b>MTBE</b>	Methyl Tertiary Butyl Ether

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## N

<b>NAAQS</b>	National Ambient Air Quality Standard
<b>NADP</b>	National Atmospheric Deposition Program
<b>NAFTA</b>	North American Free Trade Agreement
<b>NAPAP</b>	National Acid Precipitation Assessment Program
<b>NARSTO</b>	North American Research Strategy for Tropospheric Ozone
<b>NEA</b>	NO <sub>x</sub> (nitrogen oxides) Emission Allotment
<b>NEP</b>	National Estuary Program
<b>NEPA</b>	National Environmental Policy Act
<b>NERRS</b>	National Estuarine Research Reserve System
<b>NESCAUM</b>	Northeast States for Coordinated Air Use Management
<b>NESHAP</b>	National Emission Standard for Hazardous Air Pollutants
<b>NFPA</b>	National Fire Protection Association
<b>ng</b>	Nanogram
<b>NGM</b>	Nested Grid Model
<b>NGV</b>	Natural Gas Vehicle
<b>NH<sub>3</sub></b>	Ammonia
<b>NMOC</b>	Non-Methane Organic Compounds or non-methane organic carbon
<b>NMOG</b>	Non-Methane Organic Gases
<b>NOAA</b>	National Oceanic & Atmospheric Administration
<b>NO<sub>2</sub></b>	Nitrogen dioxide, criteria pollutant
<b>NO<sub>x</sub></b>	Oxides of nitrogen
<b>NOI</b>	Notice of Intent
<b>N<sub>2</sub>O</b>	Nitrous oxide
<b>Non-attainment</b>	Noncompliance with ozone standard set by U.S. EPA
<b>NOPR</b>	Notice of proposed rulemaking (see also NPRM and NPR)
<b>NPR</b>	Notice of proposed rulemaking (see also NPRM and NOPR)
<b>NPRM</b>	Notice of proposed rulemaking (see also NOPR and NPR)
<b>NRDC</b>	Natural Resources Defense Council
<b>NSPS</b>	New Source Performance Standard
<b>NSR</b>	New Source Review
<b>NS&amp;T</b>	National Status & Trends

## O

<b>O&amp;C</b>	Outreach and Communications (an OTAG subgroup)
<b>O&amp;M</b>	Operations and Maintenance
<b>OAQPS</b>	Office of Air Quality Planning & Standards
<b>OBD</b>	On-board Diagnostic
<b>OIT</b>	Office of Industrial Technology
<b>OMB</b>	Office of Management & Budget
<b>ORD</b>	Office of Research and Development (of U.S. EPA)
<b>OSHA</b>	Occupational Safety & Health Administration
<b>OMTR</b>	Open Market Trading Rule
<b>OTAG</b>	Ozone Transport Assessment Group
<b>OTC</b>	Ozone Transport Commission (called Northeast Ozone Transport Commission in the CAAA)
<b>OTR</b>	Ozone Transport Region
<b>ozone</b>	A compound gas made of molecules with three atoms of oxygen each. Ozone is formed by a combination of NO <sub>x</sub> (nitrogen oxides) and VOC (volatile organic compounds). Ground-level ozone, also referred to as tropospheric ozone, is the prime ingredient of smog and may present health risks at high concentrations. Stratospheric or “good” ozone is found in the upper atmosphere and provides a protective filter above the earth.
<b>ozone attainment</b>	Compliance with the NAAQS for ozone as set by U.S. EPA. An area is considered to be attainment when the 3-year average of the fourth highest daily maximum 8-hour concentration is equal to or less than 0.08 ppm
<b>ozone non-attainment</b>	Noncompliance with NAAQS for ozone set by U.S. EPA. An area is considered to be non-attainment when the 3-year average of the fourth highest daily maximum 8-hour concentration exceeds 0.08 ppm
<b>ozone precursors</b>	Gases including NO <sub>x</sub> (nitrogen oxides) or VOCs (volatile organic compounds) that can combine to form ground-level ozone, or smog, under certain conditions.
<b>ozone transport</b>	The movement of surface or ground-level ozone or its precursors by weather patterns from one area to another.

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## P

<b>PAH</b>	Polycyclic Aromatic Hydrocarbon
<b>PAL</b>	Plant Applicability Limit
<b>PAM</b>	Photochemical Analysis Monitoring System
<b>Particulate matter</b>	Particulate Matter (see also PM-10, PM-2.5)
<b>PCA</b>	Principal Component Analysis
<b>PCB</b>	Polychlorinated Biphenyl
<b>PE</b>	Performance Evaluation
<b>PM-10</b>	Measure of particulate matter: denotes particles with a nominal size less than 10 micrometers in diameter
<b>PM-2.5</b>	Measure of particulate matter: denotes particles smaller than 2.5 micrometers in diameter (see also PM-10)
<b>point sources</b>	Fixed sources of (air) pollution, such as factories or power plants.
<b>Policy Group</b>	OTAG group charged with overseeing operations of OTAG subgroups, receiving subgroup recommendations, and making final recommendations to U.S. EPA.
<b>POM</b>	Polycyclic organic matter
<b>ppb</b>	Parts per billion
<b>ppm</b>	Parts per million
<b>ppmv</b>	Parts per million by volume

<b>ppmw</b>	Parts per million by weight
<b>PSD</b>	Prevention of Significant Deterioration
<b>PUHCA</b>	Public Utility Holding Company Act
<b>PURPA</b>	Public Regulatory Policies Act

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## Q

<b>QA</b>	Quality Assurance
<b>QAM</b>	Quality Assurance Manager
<b>QAPP</b>	Quality Assurance Project Plan
<b>QC</b>	Quality Control
<b>QMP</b>	Quality Management Plan

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## R

<b>RACM</b>	Reasonable Available Control Measures
<b>RACT</b>	Reasonably Available Control Technology
<b>RADM</b>	Regional Acid Deposition Model
<b>RAP</b>	Remedial Action Plan
<b>RAPIDS</b>	Regional Air Pollutant Inventory Development System
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>RECLAIM</b>	Regional Clean Air Incentives Market
<b>RELMAP</b>	Regional Lagrangian Model of Air Pollution
<b>REMSAD</b>	Regional Modeling System for Aerosols & Atmospheric Deposition
<b>RFG</b>	Reformulated Gasoline
<b>RFP</b>	Reasonable Further Progress
<b>ROG</b>	Reactive Organic Gases. See VOCs
<b>ROM</b>	Regional Oxidant Model
<b>ROP</b>	Rate of Progress
<b>RPM</b>	Regional Particulate Model
<b>RPO</b>	Regional Planning Organization
<b>RUSM</b>	Regional and Urban Scale Modeling (an OTAG workgroup)
<b>RVP</b>	Reid Vapor Pressure

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## S

<b>SAB</b>	Science Advisory Board
<b>S&amp;C</b>	Strategies and Controls (an OTAG subgroup)
<b>SAMI</b>	Southern Appalachian Mountain Initiative
<b>SAV</b>	Submerged Aquatic Vegetation
<b>SCAQMD</b>	South Coast Air Quality Management District
<b>SCR</b>	Selective Catalytic Reduction
<b>SETAC</b>	Society of Environmental Toxicology & Chemistry
<b>SIP</b>	State Implementation Plan
<b>smog</b>	Ground-level ozone; also referred to as tropospheric ozone
<b>SNCR</b>	Selective Non-Catalytic Reduction
<b>SO<sub>2</sub></b>	Sulfur dioxide
<b>SOCMI</b>	Synthetic Organic Chemical Manufacturing Industry
<b>SOLEC</b>	State of the Lakes Ecosystem Conference
<b>SOS</b>	Southern Oxidant Study
<b>SOP</b>	Standard Operating Procedure
<b>SSM</b>	Startup, Shutdown, Malfunction plan; required by Boiler MACT

**STAPPA/ALAPCO** State & Territorial Air Pollution Program Administrators / Association of Local Air Pollution Control Officers  
**stationary source** A fixed place or object from which air pollutants may be released; includes power plants, gas stations, incinerators, etc.

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## T

**TAG** Technical Assessment Guide  
**TCDD** Tetrachlorodibenzo-p-dioxin  
**TCDF** Tetrachlorodibenzofuran  
**TCM** Transportation Control Measures  
**TEF** Toxic Equivalent Factors  
**TEQ** Toxic Equivalent Levels  
**T/I** Trading / Incentives (an OTAG workgroup)  
**TLEV** Transitional LEV  
**TNRCC** Texas Natural Resources Conservation Commission  
**top/down BACT** In PSD cases, new or modified sources that trigger NSR have to conform to the toughest emission limit for similar sources set elsewhere in the US except where a case can be made for not adopting the toughest emission limit. BACT is set starting with the toughest limit and working down according to local conditions.  
**tpy** Tons per year  
**TRI** Toxic Release Inventory  
**tropospheric ozone** Ground-level ozone  
**TSA** Technical Systems Audit  
**TSCA** Toxic Substances Control Act  
**TTN** EPA's Technology Transfer Network; access by modem at 919/541-5742 and Help Line 919/541-4814  
**TUT** The Ultimate Truth (an extension of the OTAG Web site home page)

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## U

**UAM-V** Urban Airshed Model Five  
**UARG** Utility Air Regulatory Group  
**ULEV** Ultra LEV  
**ULN** Ultra Low NOx  
**UVB** Ultraviolet B

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## V

**VAD** Valley Air District, short for San Joaquin Valley Unified Air Pollution Control District in Fresno  
**visibility** The furthest distance from which a person can see a landscape feature.  
**VISTAS** Visibility Improvement State and Tribal Association of the Southeast  
**VMT** Vehicle Miles Traveled  
**VOCs** Volatile Organic Compounds [called ROGs (reactive organic gases) in California]

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## W

**WESTAR** Western States Air Resources Council  
**WHB** Waste Heat Boiler  
**WHO** World Health Organization  
**WRAP** Western Regional Air Partnership

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**X**

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**Y**

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**Z**

**ZEV** Zero emission vehicle