

CHAPTER 8

ACRONYMS

Acronyms

8.0 ACRONYMS

| ABBREVIATION | DESCRIPTION |
|--------------|---|
| AAs | Administering Agencies |
| AB | Assembly Bill |
| AB32 | California's Global Warming Solutions Act of 2006 |
| AB939 | California Integrated Waste Management Act of 1989 |
| AB2588 | Air Toxic "Hot Spots" Information and Assessment Act |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| af | acre-feet |
| AFV | Alternative Fuel Vehicles |
| AIChE | American Institute of Chemical Engineers |
| ALUC | Airport Land Use Commission |
| AMP | Alternative Marine Power |
| ANPR | Advance Notice of Proposed Rulemaking |
| API | American Petroleum Institute |
| APS | Alternative Planning Strategy |
| AQMD | Air Quality Management District |
| AQMP | Air Quality Management Plan |
| ARB | Air Resources Board |
| ASTM | American Society for Testing and Materials |
| ATCM | Airborne Toxic Control Measure |
| ATCP | Air Toxics Control Plan |
| ATPZEVs | Advanced Technology Partial Zero-Emission Vehicles |
| AVL | automated vehicle location |
| AVR | Average Vehicle Ridership |
| AVTA | Advanced Vehicle Testing Activity |
| BACT | Best Available Control Technology |
| BACM | Best Available Control Measures |
| BARCT | Best Available Retrofit Control Technology |
| BART | Best Available Retrofit Technology |
| Basin | South Coast Air Basin |
| BAU | business-as-usual |
| BLEVE | boiling liquid expanding vapor explosion |
| BLM | Bureau of Land Management |
| BMP | Best Management Practices |
| BNSF | Burlington Northern Santa Fe Railway |
| BOD | Bio-chemical Oxygen Demand |
| BPTCP | Bay Protection and Toxic Clean Up Plan |
| Btu | British Thermal Units |
| Btu/hr | British Thermal Units per hour |
| °C | Degrees Centigrade |
| CAA | Clean Air Act |
| CAAP | Clean Air Action Plan |
| CAFE | Corporate Average Fuel Economy |
| CaH2Net | California Hydrogen Highway Network |

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|-------------------|---|
| CalARP | California Accidental Release Prevention Program |
| CalEMA | California Emergency Management Agency |
| CalEPA | California Environmental Protection Agency |
| CalRecycle | (formerly known as the California Integrated Waste Management Board) |
| Caltrans | California Department of Transportation |
| CalOSHA | California Occupational Safety and Health Administration |
| CARB | California Air Resources Board |
| CCAA | California Clean Air Act |
| CCC | California Coastal Commission |
| CCP | Clean Communities Plan |
| CCR | California Code of Regulations |
| CDF | California Department of Forestry and Fire Protection |
| CDPR | California Department of Parks and Recreation |
| CEC | California Energy Commission |
| CE-CERT | College of Engineering Center for Environmental Research and Technology |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CEQA | California Environmental Quality Act |
| CFCs | Chlorofluorocarbons |
| CFR | Code of Federal Regulations |
| CH ₄ | Methane |
| CHMIRS | California Hazardous Materials Incident Reporting System |
| CHP | California Highway Patrol |
| CIP | Capital Improvement Program |
| CIWMB | California Integrated Waste Management Board |
| CIWMP | Countywide Integrated Waste Management Plan |
| CLEEN | Continuous Lower Energy, Emissions and Noise |
| CM | Control Measure |
| CMAAs | Congestion Management Agencies |
| CMB | Combustion Sources |
| CMPs | Congestion Management Programs |
| CMS | Congestion Management System |
| CMAQ | Community Multiscale Air Quality |
| CNEL | Community Noise Equivalent Level |
| CNG | Compressed Natural Gas |
| CNS | Central nervous system |
| CO | Carbon Monoxide |
| CO ₂ | Carbon Dioxide |
| CO ₂ e | CO ₂ equivalents |
| COHb | Carboxyhemoglobin |
| CPUC | California Public Utilities Commission |
| CPSC | Consumer Products Safety Commission |
| CRA | Colorado River Aqueduct |
| CSI | California Solar Initiative |

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| CTS | Coatings and Solvents |
| CUPA | Certified Unified Program Agency |
| CVRP | Clean Vehicle Rebate Pilot |
| CVWD | Coachella Valley Water District |
| CWA | Clean Water Act |
| CWAP | Clean Water Action Plan |
| CWM | Chemical Waste Management |
| CWMI | Chemical Waste Management Inc. |
| dB | decibels |
| dba | decibels (A-weighted) |
| DC | direct current |
| Delta | Sacramento-San Joaquin Delta |
| DHS | Department of Health Services |
| DMC | dimethyl carbonate |
| DOT | Department of Transportation |
| DPF | Diesel Particulate Filters |
| DPM | Diesel Particulate Matter |
| DPR | Department of Pesticide Regulation |
| DRRP | Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles (also known as the Diesel Risk Reduction Plan) |
| DTSC | California Department of Toxic Substances Control |
| DTIM | Direct Travel Impact Model |
| DWR | California Department of Water Resources |
| EAP | Emergency Action Plan |
| ECA | Emissions Control Area |
| EDMS | Emissions and Dispersion Modeling System |
| EFMP | Enhanced Fleet Modernization Program |
| EHS | Extremely Hazardous Substances |
| EIA | Energy Information Administration |
| EIR | Environmental Impact Report |
| EIS | Environmental Impact Statement |
| EISA | Energy Independence and Security Act of 2007 |
| EJ | Environmental Justice |
| EJAG | Environmental Justice Advisory Group |
| EMFAC | Emission Factors Model |
| EMFAC 2011 | 2011 Emission Factors model |
| EMWD | Eastern Municipal Water District |
| EOR | Enhanced Oil Recovery |
| EPA | Environmental Protection Agency |
| EPAct | Energy Policy Act |
| EPCRA | Emergency Planning and Community Right-to-Know Act |
| ERPG | Emergency Response Planning Guideline |
| ERPG-2 | Emergency Response Planning Guide Level 2 |
| ERPG-3 | Emergency Response Planning Guide Level 3 |
| ESP | Electrostatic Precipitators |

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| EVs | Electric Vehicles |
| EVSE | electric vehicle supply equipment |
| E85 | Ethanol |
| °F | Degrees Fahrenheit |
| FAA | Federal Aviation Administration |
| FCCU | Fluid Catalytic Cracking Unit |
| FCV | fuel cell vehicles |
| FDA | Food and Drug Administration |
| FDDA | four dimensional data assimilation |
| FEMA | Federal Emergency Management Agency |
| FEIR | Final Environmental Impact Report |
| FePo | iron phosphate |
| FESA | Federal Endangered Species Act |
| Fe ₂ O ₃ | iron oxide |
| FFVs | Flexible Fuel Vehicles |
| FHWA | Federal Highway Administration |
| FIP | Federal Implementation Plan |
| FMCSA | Federal Motor Carrier Safety Administration |
| FMVSS | Federal Motor Vehicle Safety Standard |
| FRA | Federal Railroad Administration |
| FTA | Federal Transit Administration |
| FTIP | Federal Transportation Improvement Program |
| ft ² | square feet |
| FUA | Fuel Use Act |
| FUG | Fugitive Emissions |
| GHG | Greenhouse Gas |
| GHGRP | Greenhouse Gas Reporting Program |
| GRAS | Generally Recognized As Safe |
| GVWR | gross vehicle weight rating |
| GWh | gigawatt hour |
| H ₂ | Hydrogen |
| H ₂ S | Hydrogen Sulfide |
| H ₂ SO ₄ | Sulfuric Acid |
| HAPs | Hazardous Air Pollutants |
| HCFCs | Hydrochlorofluorocarbons |
| HDV | Heavy Duty Vehicles |
| HEPA | High-Efficiency Particulate AirArrestor |
| HFCs | hydrofluorocarbons |
| HGS | Harbor Generating Station |
| HI | Hazard Index |
| HMTA | Hazardous Materials Transportation Act |
| HNO ₃ | Nitric Acid |
| HOV | High Occupancy Vehicle |
| hp | horsepower |
| HRA | Health Risk Assessment |
| HOT | High-Occupancy Toll |

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| HQTAs | High Quality Transit Areas |
| HSC | Health and Safety Code |
| HUD | Housing and Urban Development |
| HVIP | Hybrid Vehicle Incentives Project |
| HWCA | Hazardous Waste Control Act |
| HWMP | Hazardous Waste Management Plan |
| IARC | International Agency for Research on Cancer |
| ICEs | Internal Combustion Engines |
| ICTA | International Center for Technology Assessment |
| IDLH | Immediately Dangerous to Life and Health |
| IGR | Intergovernmental Review |
| IMO | International Maritime Organization |
| IM | industrial maintenance |
| IOUs | Investor Owned Utilities |
| IRP | Integrated Water Resources Plan |
| IRWD | Irvine Ranch Water District |
| ITS | Intelligent Transportation Systems |
| kW | Kilowatt |
| kWh | Kilowatt Hour |
| °K | degrees Kelvin |
| LAA | Los Angeles Aqueduct |
| LACDPW | Los Angeles County Department of Public Works |
| LACFD | Los Angeles County Fire Department |
| LACSD | Los Angeles County Sanitation Districts |
| LADPW | Los Angeles Department of Public Works |
| LADWP | Los Angeles Department of Water and Power |
| LAER | Lowest Achievable Emission Reduction |
| LAFCO | Local Agency Formation Commission |
| LAX | Los Angeles International Airport |
| LBGOD | Long Beach Gas & Oil Department |
| lbs | pounds |
| lbs/day | pounds per day |
| lbs/gal | pounds per gallon |
| lbs/hr | pounds per hour |
| LCFS | Low-Carbon Fuel Standard |
| LCP | local coastal program |
| LDAR | Leak Detection and Repair |
| LEAs | Local Enforcement Agencies |
| LEL | Lower Explosive Limit |
| LEPC | Local Emergency Planning Committee |
| LEV III | Low-Emission Vehicle |
| Leq | Equivalent Continuous Level |
| LID | Low Impact Development |
| Li-ion | lithium ion |
| Lmax | maximum measured noise level |
| LNG | Liquefied Natural Gas |

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|--------------------------|--|
| LOS | Level of Service |
| LPG | Liquefied Petroleum Gas |
| LRP | Local Resources Program |
| LRT | light rail transit |
| LTCP | Long-Term Conservation Plan |
| LUPs | land use plans |
| LVP-VOC | low vapor pressure volatile organic compounds |
| MAF | Million acre-feet |
| MATES | Multiple Air Toxic Exposure Study |
| MATES II | Multiple Air Toxic Exposure Study II |
| MATES III | Multiple Air Toxic Exposure Study III |
| MCLs | Maximum Containment Levels |
| MDAB | Mojave Desert Air Basin |
| MECA | Manufacturer's of Emission Controls Association |
| MEGAN | Model of Emissions of Gases and Aerosols from Nature |
| MEK | methyl ethyl ketone |
| MeTHF | methyltetrahydrofuran |
| Metro | Los Angeles County Metropolitan Transit Authority |
| mgd | million gallons per day |
| mg/L | milligrams per liter |
| mg/m ³ | milligrams per cubic meter |
| MIBK | methyl isobutyl ketone |
| MIR | Maximum Incremental Reactivity |
| MMTCO ₂ e | million metric tons of carbon dioxide equivalent |
| MnO | manganese oxide spinel |
| MoO ₃ | molybdc anhydride |
| MTCO ₂ e/year | CO ₂ equivalent emissions per year |
| MRFs | Material Recovery Facilities |
| MPO | Metropolitan Planning Organization |
| m/s | meters per second |
| MSDS | Material Safety Data Sheet |
| MSRC | Mobile Source Air Pollution Reduction Review Committee |
| MS4s | municipal separate storm sewer systems |
| MTBE | methyl tertiary butyl ether |
| MW | megawatts |
| Metropolitan | Metropolitan Water District of Southern California |
| MWD | Metropolitan Water District |
| M85 | Methanol |
| NAAQS | National Ambient Air Quality Standards |
| NAHC | Native American Heritage Commission |
| NCA | nickel-cobalt- aluminum |
| NCEP | National Centers for Environmental Prediction |
| NCM | nickel-cobalt-manganese |
| NCP | National Contingency Plan |
| NECPA | National Energy Conservation Policy Act |
| NEC | National Electric Code |

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| NESHAPS | National Emission Standards for Hazardous Air Pollutants |
| NPDES | National Pollutant Discharge Elimination System |
| NFC | National Fire Codes |
| NFPA | National Fire Protection Association |
| NHTSA | National Highway Traffic Safety Administration |
| NiMH | nickel-metal hydride |
| NIOSH | National Institute of Occupational Safety and Health |
| N ₂ | Nitrogen |
| N ₂ O | Nitrous Oxide |
| NO | Nitric Oxide |
| NO ₂ | Nitrogen Dioxide |
| NOP | Notice of Preparation |
| NOP/IS | Notice of Preparation/Initial Study |
| NO _x | Nitrogen Oxide |
| NPS | National Park Service |
| NPDES | National Pollutant Discharge Elimination System |
| NRCS | Natural Resources Conservation Service |
| NS | No significant impacts |
| NSPS | New Source Performance Standards |
| O ₂ | Oxygen |
| O ₃ | Ozone |
| OCA | Off-site Consequences Analyses |
| OCHCA | Orange County Health Care Agency |
| OCS | Outer Continental Shelf |
| OCSD | Orange County Sanitation District |
| OCTA | Orange County Transportation Authority |
| OCWD | Orange County Water District |
| ODS | Ozone Depleting Substances |
| OEHHA | Office of Environmental Health Hazards Assessment |
| OES | Office of Emergency Services |
| OHMS | Office of Hazardous Materials Safety |
| OPR | Office of Planning and Research |
| OSHA | Occupational Safety and Health Administration |
| PAHs | Polynuclear Aromatic Hydrocarbons |
| Pb | lead |
| PCBF | Perchlorobenzotrifluoride |
| PCBTF | p-chlorobenzotrifluoride |
| PCE | passenger car equivalents |
| PD | positive displacement |
| PEIR | Program Environmental Impact Report |
| PELs | Permissible Exposure Limits |
| PEVs | plug-in electric vehicles |
| PFCs | Perfluorocarbons |
| PG&E | Pacific Gas & Electric |
| pH | potential hydrogen ion concentration |
| PM | Particulate Matter |

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| PM10 | particulate matter less than 10 microns equivalent aerodynamic diameter |
| PM2.5 | particulate matter less than 2.5 microns equivalent aerodynamic diameter |
| POTW | Publicly Owned Treatment Works |
| POUs | publicly owned utilities |
| ppb | parts per billion |
| ppm | parts per million |
| PPV | peak particle velocity |
| Program EIR | Program Environmental Impact Report |
| PSD | Prevention of Significant Deterioration |
| psi | pounds per square inch |
| psig | pounds per square inch (gauge) |
| PSM | Process Safety Management |
| PSU | Primers, Sealers, and Undercoaters |
| PTFE | Polytetrafluoroethylene |
| PUC | Public Utilities Commission |
| PURPA | Public Utility Regulatory Policies Act of 1978 |
| PV | Photovoltaic |
| PVC | Polyvinyl Chloride |
| PZEV | Partial Zero Emission Vehicle |
| PX | Power Exchange |
| Qfs | qualifying facilities |
| QSA | Quantified Settlement Agreement |
| QVT | Qualified Vehicle Testers |
| RCRA | Resource Conservation and Recovery Act |
| RCTC | Riverside County Transportation Commission |
| RECLAIM | Regional Clean Air Incentives Market |
| RELOOC | Regional Landfill Options for Orange County |
| RELS | Reference Exposure Levels |
| RFS | Renewable Fuel Standard |
| RFS2 | 2007 Renewable Fuel Standard |
| RHNA | Regional Housing Needs Assessment |
| RMP | Risk Management Program |
| RMS | Root Mean Squared |
| ROC | Reactive Organic Compound |
| ROG | Reactive Organic Gas |
| RPS | Renewable Portfolio Standard |
| RQs | Reportable Quantities |
| RRF | Relative Response Factors |
| RRWG | Reactivity Research Working Group |
| RSPA | Research and Special Programs Administration |
| RTAC | Regional Targets Advisory Committee |
| RTC | RECLAIM Trading Credit |
| RTIP | Regional Transportation Implementation Plan |
| RTP | Regional Transportation Plan |

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|-----------------|---|
| RTP/SCS | Regional Transportation Plan/Sustainable Communities Strategy |
| RWQCB | Regional Water Quality Control Board |
| SAE | Society of Automotive Engineers |
| SAFETEA-LU | Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users |
| SB | Senate Bill |
| SBS | sodium bisulfate |
| SCAB | South Coast Air Basin |
| SCAG | Southern California Association of Governments |
| SCAQMD | South Coast Air Quality Management District |
| SCE | Southern California Edison |
| SCR | Selective Catalytic Reduction |
| SCRRA | Southern California Regional Rail Authority |
| SCS | Sustainable Communities Strategy |
| SCHWMA | Southern California Hazardous Waste Management Authority |
| SDG&E | San Diego Gas & Electric |
| SEL | Sound Exposure Level |
| SF ₆ | Sulfur Hexafluoride |
| SGVEWP | San Gabriel Valley Energy Wise Program |
| SIP | State Implementation Plan |
| SNCR | selective non-catalytic reduction |
| SO ₂ | sulfur dioxide |
| SO ₃ | Sulfur Trioxide |
| SoCalGas | Southern California Gas Company |
| SOON | Surplus Off-Road Option for NO _x |
| SO ₂ | sulfur dioxide |
| SO _x | sulfur oxide |
| SPCC | Spill Prevention, Control and Countermeasure |
| SRRE | Source Reduction and Recycling Element |
| SSAB | Salton Sea Air Basin |
| STE | solar thermal energy |
| STEL | short-term exposure limits |
| SWFPs | Solid Waste Facility Permits |
| SWP | State Water Project |
| SWMD | Solid Waste Management Division |
| SWMP | Storm Water Management Plan |
| SWPPP | Stormwater Pollution Prevention Plan |
| SWRCB | State Water Resources Control Board |
| TAC | Toxic Air Contaminant |
| TAF | Thousand Acre-Feet |
| TAO | Technology Advancement Office |
| TAZ | transportation analysis zone |
| TBA | tert-butyl alcohol |
| T-BAc | tertiary butyl acetate |
| TCM | Transportation Control Measure |
| TDM | Transportation Demand Management |

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| TDS | Total Dissolved Solids |
| TEA-21 | Transportation Equity Act for the 21st Century |
| TEUs | twenty-foot Equivalent Units |
| TiO ₂ | titanium dioxide |
| TLVs | Threshold Limit Values |
| TMCs | Transportation Management Centers |
| TMDLS | Total Maximum Daily Loads |
| tpd | tons per day |
| tpy | tons per year |
| TRI | Toxic Release Inventory |
| TRUs | transport refrigeration units |
| TSCA | Toxic Substances Control Act |
| TSM | Transportation Systems Management |
| TSS | Total Suspended Solids |
| TWA | time-weighted average |
| UCI | University of California, Irvine |
| UCLA | University of California, Los Angeles |
| UEL | upper explosive limit |
| UFC | Uniform Fire Code |
| Union Pacific | Union Pacific Railroad |
| U.S. | United States |
| USBR | United States Bureau of Reclamation |
| U.S. ACOE | United States Army Corps of Engineers |
| U.S. DOE | United States Department of Energy |
| U.S. DOT | United States Department of Transportation |
| U.S. EPA | United States Environmental Protection Agency |
| U.S. FWS | United States Fish and Wildlife Service |
| U.S. FS | United States Forest Service |
| UP | Union Pacific Railroad |
| UST | Underground Storage Tank |
| UWA | Unified Watershed Assessment |
| V/C | Volume to Capacity Ratio |
| VGS | Valley Generating Station |
| VHD | Vehicle Hours of Delay |
| VHT | Vehicle Hours of Travel |
| VMT | Vehicle Miles Traveled |
| VOC | volatile organic compounds |
| V ₂ O ₅ | vanadium pentoxide |
| WBMWD | West Basin Metropolitan-Municipal Water District |
| WCI | Western Climate Initiative |
| WDR | Waste Discharge Requirements |
| WGS | Wet Gas Scrubber |
| WO ₃ | tungsten trioxide |
| WRD | Water Replenishment District |
| WRF | Weather Research and Forecasting Model |
| ZEV | Zero-Emission Vehicle |

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|---------------------------------|-----------------------------|
| $\mu\text{g/l}$ | micrograms per liter |
| $\mu\text{g/m}^3$ | micrograms per cubic meter |
| <u>μm</u> | <u>micrometer or micron</u> |