

## **VIII. Acronyms and Abbreviations**

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## VIII. Acronyms and Abbreviations

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µg	microgram
µg/m <sup>3</sup>	micrograms per cubic meter
µm	micrometer
µg/m <sup>3</sup>	micrograms per cubic meter
2016–2040 RTP/SCS	2016–2040 Regional Transportation Plan/Sustainable Communities Strategy
2019 CAAP	2019 Climate Action and Adaptation Plan
2020–2045 RTP/SCS	2020–2045 Regional Transportation Plan/Sustainable Communities Strategy
AAM	annual arithmetic mean
AB	Assembly Bill
ACC II	Advanced Clean Cars II
ACM	asbestos-containing material
ACOE	U.S. Army Corps of Engineers
ADPA	Archaeological Data Preservation Act
ADT	average daily traffic
AEGLs	acute exposure guideline levels
AES	Acoustical Engineering Services
Air Basin	South Coast Air Basin
ALUC	Airport Land Use Commission
ANSI	American National Standards Institute
Appendix G	State CEQA Guidelines Appendix G
AQMP	air quality management plan
AR4	IPCC Fourth Assessment Report

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AR5	IPCC Fifth Assessment Report
ARPA	Archaeological Resources Protection Act
ASHRAE	American Society of Heating and Air-Conditioning Engineers
ATCMs	airborne toxic control measures
B.P.	before present
BACT	best available control technology
BAU	business-as-usual
BEB	battery electric bus
BEV	battery electric vehicle
BMPs	best management practices
BSA	biological study area
C	Celsius
C <sub>2</sub> H <sub>4</sub> F <sub>2</sub>	1,1-Difluoroethane
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAFE	corporate average fuel economy
Cal OES	California Office of Emergency Services
Cal/OSHA	California OSHA program
CalARP	California Accidental Release Prevention
CalEEMod	California Emissions Estimator Model
Cal-EMA	California Emergency Management Agency
CalEPA	California Environmental Protection Agency
CalGEM	California Geologic Energy Management Division
CALGreen	California Green Building Standards
California ISO	California Independent System Operator
California Register	California Register of Historical Resources
California State Route 110	Arroyo Seco Parkway
CalRecycle	California Department of Resources Recycling and Recovery

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CalSTA	California State Transportation Agency
Caltrans	California Department of Transportation
cd/m <sup>2</sup>	candela per square meter
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CAS	climate adaptation strategy
CAT	climate action team
CBC	California Building Code
CCAA	California Clean Air Act
CCR	California Code of Regulations
cd	candela
CDFAs	California Department of Food and Agriculture
CDFW	California Department of Fish and Wildlife
CDR	carbon dioxide removal
CEC	California Energy Code [Section IV.A, Aesthetics]
CEC	California Energy Commission [Section IV.E., Energy; Section IV.G, Greenhouse Gas Emissions; Section IV.M., Utilities and Service Systems—Electric Power Infrastructure]
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERFA	Community Environmental Response Facilitation Act
CESA	California Endangered Species Act
CEVMS	commercial electronic variable message signs
cf	cubic feet
CF <sub>4</sub>	Tetrafluoromethane
CFC	California Fire Code
CFR	Code of Federal Regulations
CGS	California Geological Survey
CH <sub>2</sub> FCF <sub>3</sub>	1,1,1,2-Tetrafluoroethane

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CH <sub>4</sub>	methane
CHC	Cultural Heritage Commission
CHF <sub>3</sub>	Fluoroform
CHP	California Highway Patrol
CHRIS	California Historical Resources Information System
CI	carbon intensity [Section IV.G, Greenhouse Gas Emissions]
CI	compression ignition [Section IV.B, Air Quality]
City	City of Los Angeles
Climate Registry	Climate Action Registry
CMF	central maintenance facility
CNDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CNPS	California Native Plant Society
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2e</sub>	carbon dioxide equivalent
COC	chemicals of concern
Conservation Element	City of Los Angeles General Plan Conservation Element
Cortese List	Hazardous Waste and Substances Sites
County	Los Angeles County
CPUC	California Public Utilities Commission
CRA	Community Redevelopment Agency of the City of Los Angeles
CRPR	California Rare Plant Rank
CTC	California Transportation Commission
CUPA	Certified Unified Program Agency
Cuyahoga County Study	<i>A Study of the Relationship Between Digital Billboards and Traffic Safety in Cuyahoga County, Ohio</i>
CVC	California Vehicle Code
CWA	Clean Water Act

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dB	decibels
dBA	A-weighted decibels
DBH	diameter at breast height
DIVCA	Digital Infrastructure and Video Competition Act of 2006
DLA	designated local authority
DNL	day-night average noise level
DOE	Department of Energy
DOF	Department of Finance
DOGGR	Division of Oil, Gas, and Geothermal Resources
DOSH	Division of Occupational Safety and Health
DPM	diesel particulate matter
Driving Performance Study	<i>Driving Performance and Digital Billboards</i>
DTSC	Department of Toxic and Substance Control
ECMP	Energy Conservation and Management Plan
EIA	Energy Information Administration
EIR	environmental impact report
EIS	environmental impact statement
EISA	Energy Independence and Security Act of 2007
EMD	emergency management department
EMFAC	EMission FACtor model
EMFAC2017	CARB EMFAC 2017 model
EMMA	emergency managed mutual aid
EOC	emergency operation center
EOO	emergency operations organization
EPCA	Energy Policy and Conservation Act of 1975
ERO	electric reliability organization
ERP	emergency response plan
ESA	environmentally sensitive area

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ESHA	environmentally sensitive habitat areas
F	Fahrenheit
fc	footcandles
FCC	Federal Communications Commission
FED	functional equivalent document
FEMA	Federal Emergency Management Act
FERC	Federal Energy Regulatory Commission
FESA	Federal Endangered Species Act
FF	freeway-facing
FHWA	Federal Highway Administration
FHWA Study	<i>Driver Visual Behavior in the Presence of Commercial Electronic Variable Message Signs</i>
fL	footlamberts
footlambert	1/π candela (1 lumen) per square foot
Framework Element	City of Los Angeles General Plan Framework Element
ft	feet
FTA	Federal Transit Administration
FTBMI	Fernandeño Band of Mission Indians
Gabrielino/Tongva Indian Tribe	Gabrielino/Tongva San Gabriel Band of Mission Indians
GAP	gap analysis project
GEI	geotechnical engineering investigations
General Plan	City of Los Angeles General Plan
GHG	greenhouse gas
Gibson	Gibson Transportation Consulting, Inc.
GoBiz	Governor's Office of Business and Economic Development
GVWR	gross vehicle weight rating
GWh	gigawatt-hours
GWP	global warming potential

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H <sub>2</sub> S	hydrogen sulfide
HASP	health and safety plan
Hazards Report	<i>Environmental Evaluation of Proposed MTA Transportation Communication Network (TCN) Program Sites-Fifty--Six (56) Locations in Los Angeles County</i>
HazMat	hazardous materials
HCM	historic-cultural monument
HCS	historic context statement
HDV	heavy duty vehicles
HFCs	hydrofluorocarbons
Historic Report	Architectural Historical Resource Technical Study—Los Angeles County Metropolitan Transportation Authority Transportation Communication Network Program
HMGP	Hazard Mitigation Grant Program
HMIS	hazardous material identification system
HMMP	hazardous material management program
HMTA	Hazardous Materials Transportation Act
hp	horsepower
HPOZ	historic preservation overlay zone
HQTA	high-quality transit area
HRA	health risk assessment
HSC	Health and Safety Code
HWCL	Hazardous Waste Control Law
Hz	hertz
IBC	International Building Code
IES	Illuminating Engineering Society
IESNA	Illuminating Engineering Society of North America
IFC	International Fire Code
IIPP	injury and illness prevention program
in	inch



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in/sec	inch per second
IpaC	Information Planning and Conservation
IPCC	Intergovernmental Panel on Climate Change
Kizh Nation	Gabrielino Band of Mission Indians—Kizh Nation
kWh	kilowatt-hour
LA Green Plan/ ClimateLA	<i>Green LA, An Action Plan to Lead the Nation in Fighting Global Warming</i>
LA River	Los Angeles River
LADBS	Los Angeles Department of Building and Safety
LADOT	Los Angeles Department of Transportation
LADWP	Los Angeles Department of Water and Power
LAFD	Los Angeles Fire Department
LAMC	Los Angeles Municipal Code
LAPD	Los Angeles Police Department
LARWQCB	Los Angeles Regional Water Quality Control Board
LAX	Los Angeles International Airport
LBP	lead-based paint
lbs/day	pounds per day
LCFS	low carbon fuel standard
LCPs	local coastal programs
L <sub>dn</sub>	day-night average sound level
LDV	light duty vehicle
LED	light-emitting diode
LEV	low-emission vehicle
Lighting Study	Metro TCN Lighting Study
lm	lumen
lm/sr	lumen per steradian
L <sub>max</sub>	maximum noise levels
LOS	level of service

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L RTP	Long-range transportation plan
LST	localized significance threshold
Lux	lumens per square meter
LUST	leaking underground storage tank
Mandatory Reporting Rule	Mandatory Reporting of Greenhouse Gas Emissions
MATES-V	Multiple Air Toxics Exposure Study
MBTA	Migratory Bird Treaty Act
MDV	medium duty vehicle
Metro	Los Angeles County Metropolitan Transportation Authority
mg/cm <sup>2</sup>	milligram per square centimeter
MGP	manufactured gas plan
MLD	most likely descendant
MMTCO <sub>2</sub> e	million metric tons of CO <sub>2</sub> e
Mobility Plan	Mobility Plan 2035
MPD	multiple property documentation
mpg	miles per gallon
MPO	metropolitan planning organization
MRDC	Metro Rail Design Criteria
MRR	Mandatory Reporting of Greenhouse Gas Emissions
ms	milliseconds
MS4	municipal separate storm sewer system
MUTCD	Manual on Uniform Traffic Control Devices
Mw	moment magnitude
MW	megawatts
MWD	Metropolitan Water District
MWh	megawatt-hours
N <sub>2</sub> O	nitrous oxide
NAAQS	National Ambient Air Quality Standards

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NAGPRA	Native American Graves Protection and Repatriation Act
NAHC	Native American Heritage Commission
National Register	National Register of Historic Places
NEHRP	National Earthquake Hazards Reduction Program
NERC	North American Electric Reliability Corporation
NF <sub>3</sub>	nitrogen trifluoride
NHTSA	National Highways Traffic Safety Administration
NMA	neighborhood mobility area
NMFS	National Marine Fisheries Service
NO <sub>2</sub>	nitrogen dioxide
NOP	Notice of Preparation
NO <sub>x</sub>	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NWI	National Wetlands Inventory
O <sub>3</sub>	ozone
OEHHA	California Office of Environmental Health Hazard Assessment
OFFROAD	Off-Road Emissions Inventory Program model
OHP	Office of Historic Preservation
Open Space Element	City of Los Angeles General Plan Open Space Element
OPR	Office of Planning and Research
Ordinance No. 182,986	Exclusive Franchise System Ordinance
Ordinance No. 171,687	City of Los Angeles Space Allocation Ordinance
OSHA	Occupational Safety and Health Administration
OVA	organic vapor analyzer
PAHs	polynuclear aromatic hydrocarbons
Pb	lead

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PCBs	polychlorinated biphenyls
PCE	perchloroethylene
PeMS	performance measurement system
PFCs	perfluorocarbons
PGA	priority growth area
PHEV	plug-in hybrid electric vehicle
PHMSA	Pipeline and Hazardous Materials Safety Administration
Plan for a Healthy Los Angeles	Plan for a Healthy Los Angeles: A Health and Wellness Element of the General Plan Angeles
PM <sub>2.5</sub>	fine particulate matter ≤ 2.5 microns
PM <sub>10</sub>	particulate matter ≤ 10 microns
PPE	personal protective equipment
ppm	parts per million
PPV	peak particle velocity
PQS	professional qualifications standards
PRC	Public Resources Code
PRPA	Paleontological Resources Preservation Act
PVC	polyvinyl chloride
RCRA	Resource Conservation and Recovery Act
RENEW LA	Recovering Energy, Natural Resources, and Economic Benefit from Waste for Los Angeles
RFS	renewable fuel standard
RHNA	Regional Housing Needs Assessment
RIITS	Regional Integration of Intelligent Transportation Systems
RMS	root mean square
RNG	renewable natural gas
ROW	right of way
RPS	Renewables Portfolio Standards
RSPA	Research and Special Programs Administration

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RTP	regional transportation plan
RTP/SCS	regional transportation plan/sustainable communities strategy
RWQCBs	Regional Water Quality Control Boards
SAFE	safer affordable fuel-efficient
SAR	Second Assessment Report
SB	Senate Bill
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCE	Southern California Edison
SCS	sustainable communities strategy
SEA	significant ecological area
SEMS	standard emergency management system
SF <sub>6</sub>	sulfur hexafluoride
SGC	Strategic Growth Council
SHPO	State Historic Preservation Office
SI	standard international
SIP	state implementation plan
SLCP	short-lived climate pollutant
SLs	screening levels
SLTRP	2017 Power Strategic Long-Term Resource Plan
SMP	soil management plan
SO <sub>2</sub>	sulfur dioxide
SO <sub>4</sub> <sup>2-</sup>	sulfates
SoCalGas	Southern California Gas Company
SOI	Secretary of the Interior
Soils and Geology Evaluation	<i>Soils and Geology Evaluation to Support the Environmental Impact Report</i>
SO <sub>x</sub>	sulfur oxides

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SPCC	spill prevention control and countermeasures
SRAs	source receptor areas
SRI	Statistical Research, Inc.
SRL	state registered landmark
State	State of California
State Route 27	Topanga Canyon State Scenic Highway
SurveyLA	City of Los Angeles Historic Resources Survey
Sustainable pLAn 2019	City of Los Angeles' Green New Deal
SVP	Society for Vertebrate Paleontology
SWCA	SCWA Environmental Consultants
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TAG	transportation assessment guidelines
TCE	tetrachloroethylene
TCMs	transportation control measures
TCN	Transportation Communication Network
TCR MMP	Tribal Cultural Resource Mitigation and Monitoring Program
TCR Report	<i>Tribal Cultural Resources Assessment for the Los Angeles County Metropolitan Transportation Authority's Transportation Communication Network Project</i>
TNM	traffic noise model
TOD	transit-oriented development
TPA	transit priority area
tpd	tons per day
TPH	total petroleum hydrocarbons
TPHd	total petroleum hydrocarbons as diesel
TPHg	total petroleum hydrocarbons as gasoline
TPHo	total petroleum hydrocarbons as oil
Transportation Memo	<i>Transportation and Traffic Safety Review for the Metro TCN Program Memorandum</i>

TSCA	Toxic Substances Control Act
U.S.	United States
UFC	Uniform Fire Code
UNFCCC	United Nations Framework Convention on Climate Change
Union Station	Los Angeles Union Station
USACE	United States Army Corp of Engineers
USDA	United States Department of Agriculture
USDOE	United States Department of Energy
USDOT	United States Department of Transportation
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geologic Survey
USGS	United States Geological Survey
UST	underground storage tank
Vision Plan	Metro 2028 Vision Plan
VMT Calculator	City of Los Angeles VMT Calculator Version 1.3
VMT	vehicle-miles travelled
VOC	volatile organic compound
VOCs	volatile organic compounds
W	watts
WDR	waste discharge requirement
WEAP	Worker Environmental Awareness Program
WESS	wayside energy storage substation
Wh	watt-hours
ZEV	zero-emission vehicle
ZIMAS	Zone Information and Map Access System
ZNE	zero net energy