



Acronyms

AER	Alberta Energy Regulator
AIMM	approved instrument monitoring method
AMEL	alternative means of emissions limitation
AMOC	alternative method of compliance
APCD	Air Pollution Control Division
AQCC	Air Quality Control Commission
ARB	Air Resources Board
ARPA-E	Advanced Research Projects Agency – Energy
AVO	audio, visual, and olfactory
AWP	alternative work plan
AWP	area wide planning
BBL	barrel
BLM	Bureau of Land Management
BOE	barrel of oil equivalent
BOEM	Bureau of Ocean Energy Management Enforcement
BP	best practices
BMP	best management practice
BSER	best system of emission reduction
BT	baseline technology
BTU	British thermal unit
C	Carbon
CAA	Clean Air Act
CAPP	Canadian Association of Petroleum Producers
CAMMS-ES	coded aperture miniature mass spectrometer environmental sensor
CBM	coalbed methane
C-H	carbon hydrogen bond
CH₄	methane
CI	chemical ionization
CNG	compressed natural gas
CNT	carbon nanotube
CO	carbon monoxide
CO₂	carbon dioxide
CRDS	cavity ring down spectroscopy
CSG	coal seam gas
DCS	dual frequency-comb spectroscopy
DIAL	differential absorption light detection and ranging
DEP	Department of Environmental Protection
DOE	U.S. Department of Energy
DOI	U.S. Department of the Interior
DOT	U.S. Department of Transportation
DPHE	Department of Public Health and Safety
EI	electron impact

EMD	Eagle II Methane Detector
EPA	Environmental Protection Agency
ESD	emergency shutdown events
FEAST	Fugitive Emissions Abatement Simulation Toolkit
FID	flame ionization detector
FLIR	forward looking infrared camera
FTIR	fourier transform infrared
g/h	grams per hour
GAO	general approval order
GAO	U.S. Government Accountability Office
GC	gas chromatography
GC/MS	gas chromatography/mass spectrometer
GFCR	gas-filter correlation radiometer
GHG	greenhouse gas
GHGI	Greenhouse Gas Inventory
GHGRP	Greenhouse Gas Reporting Program
GOADS	Gulfwide Offshore Activity Data System
GRI	Gas Research Institute
GWP	global warming potential
H	hydrogen
H₂S	hydrogen sulfide
HAP	hazardous air pollutant
HNLF	highly nonlinear fiber
HOH	hot oil heaters
HRDL	High-Resolution Doppler Lidar
HVS	high volume sampler
Hz	hertz
ICOS	integrated cavity output spectroscopy
ICP-MS	inductively coupled plasma - mass spectrometry
IM	integrity management
InSb	indium antimonide
IP	intellectual property
IPCC	Intergovernmental Panel on Climate Change
IR	infrared
IR OGI	infrared optical gas imaging
JT	Joule-Thomson
kg	kilogram
kHz	kilohertz
LAS	laser absorption spectroscopy
LCA	lifecycle analysis
LDAR	leak detection and repair
LDC	local distribution company
LDRL	leak detection with large-scale optical imaging technology
LDRO	leak detection with optical imaging technology
LDRS	leak detection with sampling
LMA	large mode area
LNG	liquified natural gas
m	meter

M&R	metering and regulations stations
m/z	mass-to-charge ratio
MACT	maximum achievable control technology
MAL	minimal action leak
Mcf	one thousand standard cubic feet of natural gas
MDC	methane detectors challenge
MDL	minimal detectable leak
METEC	methane emissions technology evaluation center
MMT	million metric tons
MONITOR	Methane Observation Networks with Innovative Technology to Obtain Reductions program
MOS	metal oxide semi-conductor
M&R	metering and regulating
MS	mass spectrometry
MT	metric ton
ug/m³	microgram per cubic meter
MW	molecular weight
N/A	not applicable
NAMA	Nationally Appropriate Mitigation Actions
NESHAP	National Emission Standard for Hazardous Air Pollutants
NGL	natural gas liquids
NOAA	National Oceanic and Atmospheric Administration
NSPS	New Source Performance Standards
O&G	oil and gas
OGI	optical gas imaging
OMI	optical modulation index
OP-FTIR	Open Path Fourier Transform Infrared
OTM	other test method
PEMEX	Petróleos Mexicanos
PFP	programmable flask package
PHMSA	Pipeline and Hazardous Materials Safety Administration
PIG	pipeline inspection gauge
POC	point of contact
ppbv	parts per billion by volume
ppm	parts per million
ppm-m	part per million per meter
ppmv	parts per million by volume
PUC	public utility commission
QOGI	quantitative optical gas imaging
R&D	research and development
RMLD	remote methane leak detector
SCFH	standard cubic feet per hour
SCFM	standard cubic feet per minute
SLPM	standard liters per minute
SIP	State Implementation Plan
SNR	signal-to-noise ratio
Solar FTIR	Solar Occultation Flux
STEM	storage tank emission management
TC	thermal conductivity

TDL	tunable diode laser
TDLAS	tunable diode laser absorption spectroscopy
TDS	total dissolved solids
TDTS	transmission-distribution transfer stations
TILDAS	tunable infrared laser direct absorption spectroscopy
TOC	total organic compound
TRL	technology readiness level
TUT	technology under test
TVA	toxic vapor analyzer
TVOC	total volatile organic compounds
USB	Universal Serial Bus
USEPA	United States Environmental Protection Agency
V/V	volume to volume
VOC	volatile organic compound
VRU	vapor recovery unit
WY DEQ	Wyoming Department of Environmental Quality

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