Select Approaches and Measure Types

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This page provides additional information to support summary table content.

Tool Names

Full Name	Abbreviated Name
Argonne National Laboratory Alternative Fuel Life-Cycle Environmental and Economic Transportation (AFLEET) Tool	AFLEET
Renergon Biogas Calculator	Biogas Calculator
Biogas Wastewater Assessment Technology Tool (BioWATT)	BioWATT

Full Name	Abbreviated Name
CARB Affordable Housing and Sustainable Communities (AHSC) Program Benefit Calculator Tool	CARB AHSC
CARB EMFAC2021	CARB EMFAC2021
CARB OFFROAD2021	CARB OFFROAD2021
Caret-EV Planner (Caret-EV)	Caret-EV
USDA's Carbon Reduction Potential Evaluation tool (CaRPE)	CaRPE
City Inventory Reporting and Information System (CIRIS) Tool	CIRIS
CARB Clean Mobility Quantification Methodology	Clean Mobility Quantification Methodology
FHWA Congestion Mitigation and Air Quality CMAQ) Emissions Calculator Toolkit	CMAQ Emissions Calculator Toolkit
USDA COMET-Planner	COMET-Planner
NREL ComStock	ComStock
ORNL Cool Roof Calculator	Cool Roof Calculator
CO2Sight	CO2Sight Decarbonization Platform
ICF Distributed Energy Resources (DER) Planner	DER Planner
DOE System Advisor Model	DOE SAM
DOT Infrastructure Carbon Estimator (ICE)	DOT ICE

Full Name	Abbreviated Name
Google Environmental Insight Explorer (EIE)	EIE
CARB EMFAC	EMFAC
Energy Policy Simulator	Energy Policy Simulator
EPA AVoided Emissions and geneRation (AVERT) Tool	EPA AVERT
EPA Diesel Emissions Quantifier Tool (DEQ)	EPA DEQ
EPA Emissions & Generation Resource Integrated Database (eGRID)	EPA eGRID
EPA GHG Equivalencies Calculator	EPA GHG Equivalencies Calculator
EPA GCAM Long-term Interactive Multi-Pollutant Scenario Evaluator (GLIMPSE)	EPA GLIMPSE
EPA Green Chill Climate Impact Calculator	EPA Green Chill Climate Impact Calculator
EPA Landfill Gas Emissions Model (LandGEM)	EPA LandGEM
EPA Landfill Gas Energy Benefits Calculator	EPA LFG Energy Benefits Calculator
EPA Landfill Methane Outreach Program (LMOP) Database	EPA LMOP Database
EPA MOtor Vehicle Emissions Simulator (MOVES)	EPA MOVES
EPA National Emissions Inventory	EPA NEI
EPA Simplified GHG Emissions Calculator	EPA Simplified GHG Emissions Calculator

Full Name	Abbreviated Name
EPA State Inventory Tool (SIT)	EPA SIT
EPA Solid Waste Emissions Estimation Tool (SWEET)	EPA SWEET
EPA Waste Reduction Model (WARM)	EPA WARM
EValuateCO Dashboard	EValuateCO
DOE Electric Vehicle Infrastructure Projection Tool (EVI-Pro) Lite	EVI-Pro Lite
FAA Aviation Environment Design Tool	FAA AEDT
Metropolitan Council's GHG Strategy Planning Tool	GHG Strategy Planning Tool
Green Roofs' Green Roof Energy Calculator	Green Roof Energy Calculator
Green Streets Calculator	Green Streets Calculator
DOE Greenhouse gases, Regulated Emissions, and Energy use in Technologies (GREET) model	GREET
Argonne National Laboratory's Heavy-Duty Vehicle Emissions Calculator (HDVEC)	HDVEC
Mass Save Heating Comparison Calculator	Heating Comparison Calculator
ICLEI ClearPath	ICLEI ClearPath
ICLEI Land Emissions and Removal Navigator (LEARN) Tool	ICLEI LEARN
Integrated Planning Model (IPM)	IPM
USFS i-Tree	i-Tree

Full Name	Abbreviated Name
Low Emissions Analysis Platform (LEAP)	LEAP
DOE MEASUR	MEASUR
Texas DOT Mobile Source Emissions Reduction Strategies (MOSERS)	MOSERS
NYSERDA 2010 Finger Lakes GHG Inventory	NYSERDA 2010 Finger Lakes GHG Inventory
Google Project Sunroof	Project Sunroof
NREL PVWatts Calculator	PVWatts Calculator
NREL Renewable Energy Integration and Optimization (REopt) tool	REopt
Resilient Land Mapping Tool	Resilient Land Mapping Tool
NREL ResStock	ResStock
DOE State and Local Planning for Energy (SLOPE) platform	SLOPE
Massachusetts Technical Potential of Solar Mapping Tool	Technical Potential of Solar Mapping Tool
FTA Transit GHG Emissions Estimator	Transit GHG Emissions Estimator
Oregon DOT VisionEval Model	VisionEval
Oregon DEQ Waste Impact Calculator	Waste Impact Calculator
Good Company Carbon Calculator (G3C, private tool)	G3C

Full Name	Abbreviated Name
Global Protocol for Community-Scale Greenhouse Gas Inventories	GPC
Transportation Analytical Forecasting Tool (TAFT)	TAFT
Metropolitan Area Planning Council (MAPC) GHG Emissions Inventory Tool	MAPC GHG Inventory Tool
Drawdown Georgia GHG Emissions Tracker	GHG Emissions Tracker
The Puget Sound Regional Emissions Analysis (PSREA)	PSREA
CARB 2000-2021 GHG Inventory	CARB GHG Inventory
CARB OFFROAD2021 Web Query Tool	CARB OFFROAD2021
ICLEI Community Protocol	ICLEI Community Protocol
EPA CO-Benefits Risk Assessment Health Impacts Screening and Mapping Tool (COBRA)	EPA COBRA
EPA PATHWAYS Model	EPA PATHWAYS
EPA Greenhouse Gas Equivalencies Calculator	EPA GHG Equivalencies Calculator
State of Alaska's Emissions Inventory Tool	Alaska EIMT
EPA Carbon Footprint Calculator	EPA Carbon Footprint Calculator
EPA's Greenhouse Gas Inventory Data Explorer	EPA Data Explorer
USDA Rural Utilities Service (RUS) Greenhouse Gas (GHG) Calculator	RUS GHG Calculator

Full Name	Abbreviated Name
GHG Protocol Emissions Tool	GPC
California Air Resources Board's Landfill Emissions Tool	CARB Landfill Gas Tool
U.S. Community Protocol for Accounting and Reporting of Greenhouse Gas Emissions	ICLEI Community Protocol
Local Government Operations Protocol for the Quantification and Reporting of Greenhouse Gas Emissions Inventories	LGOP
California Air Resources Board Tools Forest Reforestation and management (FRM) benefits calculator tool	CARB FRM
California Air Resources Board Tools Organics Programs (OP) Benefits Calculator	CARB OP
CARB Woodsmoke Reduction Program (WRP) Benefits Calculator Tool	CARB WRP
California Air Resources Board Weatherization of Low-Income Dwellings	CARB LIWP
Minnesota Solar Suitability Analysis tool	MN SSA Tool
NREL REopt Lite	Reopt Lite
Midwest Tribal Resources Association (MTERA) Emissions Reduction Tool	MTERA
Integrated Environmental Solutions - Virtual Environment (IESVE) Energy Model	IESVE Energy Model
Climate Positive Design's Pathfinder Tool	Pathfinder

Full Name	Abbreviated Name
EPA LFGcost-Web Model	EPA LFGcost-Web
EPA Landfill Gas Energy Benefits Calculator	EPA LGEB
EPA National Emissions Inventory	EPA NEI

Notes for Select Measure Types

Measure Type	Sector	Description or Note
Support development or expansion of community solar programs	Electricity	Community solar program participants typically purchase or are given a portion of a large, off-site solar system, which then results in a monthly electricity bill credit for their share of the solar system.
Facilitate community choice aggregation programs	Electricity	A government entity aggregates electricity demand to procure alternative energy supply contracts.
Increase the deployment of electric vehicles	Transportation	Applies to measures that either focus on LDVs alone or on LDVs in combination with another vehicle class. A separate measure type applies to MDV or HDV deployment.
Electrify off road vehicles or equipment	Transportation	Off-road vehicles includes construction vehicles, agricultural equipment, and yard/lawn equipment.

Measure Type	Sector	Description or Note
Electrify or increase efficiency of non-road transportation	Transportation	Non-road includes rail, airplanes, and boats.
Improve transportation systems management and operations	Transportation	Operate and maintain the existing transportation system as efficiently as possible.
Develop building benchmarking and performance standards	Buildings	Track a building's energy use and performance.
Increase thermal biomass conversion	Waste / NWL	Convert organic material into biochar for beneficial uses.
Develop analytical and planning tools for materials management	Waste	Includes emerging concepts and analytical methods or tools that improve materials management and reduce GHG emissions.
Improve livestock management	Agriculture	Includes measures addressing emissions from enteric fermentation and/or mature

Abbreviations

Abbreviation	Description
EV	Electric vehicle
GHG	Greenhouse gas

Abbreviation	Description
HDV	Heavy-duty vehicle
HVAC	Heating, ventilation, and air conditioning
LDV	Light-duty vehicle
LED	Light emitting diode
LIDAC	Low-income disadvantaged community
MDV	Medium-duty vehicle
VMT	Vehicle miles traveled

GHG Quantification Method Descriptions

GHG Quantification Method	Description
Custom-built tool	Measure quantification relies on a robust custom tool developed by the grantee or a third-party. Examples include calculations that are modeled non-linearly.
Emission factor analysis	Measure-level emissions estimates are supported by references to the factors, activity levels, and the analytical steps used. Calculations generally rely on simple algebraic steps.
Estimates based on project data or comparable plans	Measure quantification uses data or assumptions based on a pilot project or example and does not rely on emission factors or tools.

GHG Quantification Method	Description
Linear GHG reduction estimation	Measure emission estimates are based on a linear increase/decrease factor applied to existing emissions or activity data.
Unspecified model	The PCAP mentions a model used to quantify the measure, but no further details are given.
Unspecified	The measure is quantified but the PCAP does not provide any quantification information.
N/A	The measure was not quantified.

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