



Entech Air Quality & Greenhouse Gas Services

Supporting Compliance and Sustainability

Entech Consulting Group supports clients in transit, transportation, land development, and water projects with expert air quality and greenhouse gas (GHG) assessment services. We help ensure regulatory compliance and minimize project impacts on air quality and surrounding communities.

We assist our clients in:

- Minimizing air quality and GHG impacts on surrounding communities.
- Demonstrating compliance with federal, state, and local permitting requirements.
- Facilitating project approvals and preparing environmental documentation.

Our Air Quality & Greenhouse Gas Services

We provide comprehensive air quality and GHG impact assessments to address regulatory requirements and community concerns — covering all project phases, from planning through post-construction.



Air Quality Modeling

- **Dispersion Modeling:** Perform air quality dispersion modeling with EPA-approved tools such as AERMOD (for industrial, area sources, and complex terrain) and CALINE4 (for roadway line sources) to predict pollutant concentrations.
- **Mobile Emissions Modeling:** Estimate on-road and off-road emissions using MOVES, EMFAC (California-specific), and CT-EMFAC (Caltrans applications) for transportation and transit projects.
- **Construction Emissions Modeling:** Analyze construction-related impacts using RCEM (Roadway Construction Emissions Model) and CAL-CET.
- **Comprehensive Modeling:** Apply CalEEMod (California Emissions Estimator Model) for construction and operational air quality and GHG analyses.
- **Criteria Pollutant Analysis:** Evaluate PM2.5, PM10, NOx, CO, and other pollutants against regulatory standards, including emission burden assessments.
- **Health Risk Assessments:** Assess potential health risks from toxic air contaminants using approved methodologies and models.

A MWBE/SBE/DBE Certified Company

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Emissions Development & Inventory

- **Emissions Calculations:** Quantify emissions from mobile, stationary, and area sources specific to each project.
- **Construction Emissions:** Estimate emissions from construction equipment, activities, and vehicle trips.
- **Operational Emissions:** Forecast emissions from post-construction operations, including traffic, energy use, and other sources.
- **Greenhouse Gas Inventories:** Develop baseline and projected GHG emissions inventories for compliance and sustainability planning.



Other Relevant Services

- **Air Quality Conformity Analysis:** Conduct detailed evaluations for transportation projects, including Hot-Spot Modeling Analysis for PM and CO, to ensure Clean Air Act compliance for federally funded projects.
- **MSAT Analysis:** Perform Mobile Source Air Toxics (MSAT) analysis for transportation projects.
- **Regulatory Support:** Navigate complex air quality regulations, coordinate with agencies, and assist with permitting processes.
- **Impact Assessment & Mitigation:** Identify potential impacts and develop effective mitigation strategies.
- **Environmental Documentation:** Prepare air quality and GHG sections for CEQA/NEPA documents and other reports, ensuring alignment with Caltrans SER guidelines and CEQA handbook thresholds.
- **Climate Action Planning:** Provide air quality and GHG expertise to support broader climate and sustainability initiatives.
- **Planning Support:** Deliver air quality and GHG evaluations for Transit-Oriented Development (TOD), General Plans, and other land use plans.

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