

Environmental Services for
**Air Quality
Management**



ecology and environment, inc.
International Specialists in the Environment

Ecology and Environment, Inc.

Founded in 1970, Ecology and Environment, Inc., (E & E) is a nationally and internationally recognized leader in environmental management and engineering. The firm's work is focused 100% on the environment; we have completed diverse projects in every type of ecosystem from Antarctica to South America.

Our ability to provide a full range of environmental engineering services rests upon the multidisciplinary expertise of our staff and experienced management. E & E's staff is an integrated organization of over 1,000 personnel representing 75 disciplines.

E & E Services and Staff Resources

AIR QUALITY



Air Quality Scientists and Engineers
Air Permitting Specialists
Ambient Air Monitoring Specialists
Meteorologists
Modelers
Process and Abatement Engineers

GEOLOGY



Geologists
Hydrogeologists
Hydrologists
Water Resource Experts
Geochemists
Geophysicists

ENGINEERING



Environmental	Electrical
Chemical	Structural
Civil	Sanitary
Soil	Mining
Mechanical	Transportation

ECOLOGY/ ENVIRONMENTAL PLANNING



Archaeologists
Biologists
Botanists
Ecologists
Public Involvement Specialists
Transportation Experts
Urban/Regional Planners
Wetland Scientists

ENGINEERING SUPPORT



Construction Inspectors/Managers
Draftsmen/CADD Operators
Architects
Economists
Energy/Life Cycle Cost Specialists
Environmental/Engineering Technicians
Estimators/Specification Writers
Hazardous Waste Specialists

HEALTH



Health Experts/Toxicologists
Industrial Hygienists
Risk Assessors
Chemists
Hazardous Waste/Asbestos Specialists

INFORMATION MANAGEMENT



IT Managers
GIS Specialists
Computer Programmers/Web Designers
Data Processing Experts

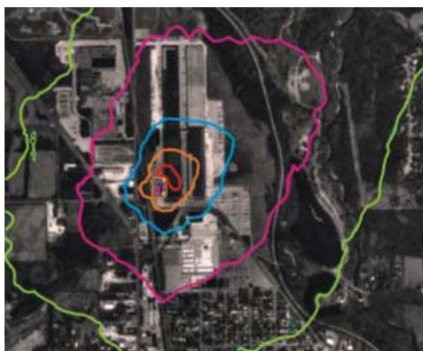
SUPPORT



Administrative/Accounting Personnel
Environmental Lawyers
Management Scientists
Writers/Editors
Graphic Artists

Air Quality Management

- ▶ **More than 500 Air Quality Projects in North America**
- ▶ **More than 50 Air Quality Projects Worldwide**

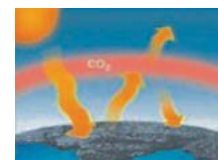


E & E overlaid dispersion modeling results onto aerial photographs of a project site to demonstrate that emissions from an industrial facility had no significant impact on the surrounding community.

E & E provides a full spectrum of air quality services to clients located in the U.S. and abroad. Our team of air experts located in offices throughout the U.S. are knowledgeable about federal, state, and regional issues and requirements regarding air quality management. E & E's experience includes working for the following industries and processes:

- Oil and Gas
- Petrochemical
- Power Generation
- Foam Manufacturing
- Cement and Aggregate
- Coal
- Wood Products
- Medical
- Radionuclear and Hazardous Waste Treatment
- Landfills
- Automotive
- Railroad
- Aviation/Aerospace
- DoD (US Corps of Engineers, Air Force, and Navy)
- DOE
- Electronics
- Printing
- Remediation

E & E is an approved greenhouse gas (GHG) certifier and technical assistance provider under the California Climate Registry. We can provide consulting services to companies interested in trading GHG emissions or becoming members of this registry.



E & E Offers Clients:

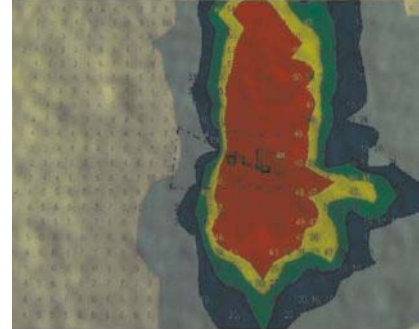
- An in-depth understanding of the permitting and licensing process for industrial facilities to ensure a project stays on schedule.
- Specialists in greenhouse gas emission assessment—working with state agencies and clients to evaluate emissions and recommend trading options.



E & E evaluated the setup and equipment needs at air monitoring stations throughout the Jiangsu Province, China. We prepared an implementation plan with suggested improvements for gathering valid data for daily public broadcast and to support future decision-making.

- Experience performing economic and market studies that involve evaluation of emissions and allowance costs to assist clients making business investment decisions.
- Engineers and scientists who are expert in the estimation and modeling of emissions from aircraft, automobiles, vessels, and stationary sources of all types.
- Expertise in the design of process and pollution control devices to reduce emissions and operating costs and meet control technology requirements at industrial facilities.
- Extensive experience for DoD including diverse projects at more than 50 bases worldwide: EIS and air conformity studies, compliance and permitting, emission inventories, and pollution prevention. E & E is a certified value-added service provider (APIMS-trained).
- Knowledge and experience in health studies and risk analyses.

E & E performed air modeling analyses, net emissions increase calculations, and BACT/MACT assessments as part of a combined PSD/Title V air permit application for a sawmill in Alabama.



Representative Air Projects

Project Name	Location	Engineering	Permitting/ Compliance	Assessment/ Modeling	Planning/ EIS	Health
Sawmill Facility PSD Title V Permit Preparation	Alabama	○	○	○	○	○
USACE Fort Lewis Incinerator	Washington	○	○	○	○	○
Air Permitting and Modeling for Multiple Power Plants	New York	○	○	○		○
Air Permitting and Compliance at USAF Bases	Nationwide	○	○	○	○	
Naval Aircraft Emissions Evaluation	Virginia		○	○	○	
Title V Permitting and Ambient Air Monitoring for Martin Electronics	Florida	○	○	○		○
Transportation Infrastructure EIS	New York		○	○	○	○
Umatilla Chemical Weapons Facility	Oregon		○	○		○
Air Permitting/Licensing for Multiple Power Facilities	Texas	○	○	○		○
Fiber Optic Cable Landing	California		○	○	○	
Indoor Air Monitoring of 11 Vessels	Great Lakes	○	○	○		○
Refinery Air Quality and Litigation Support	Midwest		○	○		○
Eagle Picher Air Meteorological Investigation	Oklahoma	○		○	○	○
Shanxi Environmental Improvement Project	China	○	○	○	○	○
INEEL Air Quality Support	Idaho	○	○	○	○	○
Air Modeling and Health Impact Evaluation	Kuwait/ Saudi Arabia	○		○		○

E & E's Air Quality Services Include:

Engineering

- Air Pollution Control Engineering Studies (BACT, RACT, MACT, LAER)
- Design and Construction Oversight
- Pollution Prevention Studies
- Stack Test Oversight

GHG/Climate Change

- Emissions Trading Evaluations
- Emissions Certification/Technical Assistance
- Strategy and Policy Development
- Financial and Legal Analyses
- Health and Risk Analyses

Health

- Air Quality Analyses for Litigation Support
- Risk Assessment
- Indoor Air Quality Studies
- Public Health Air Quality Analyses

Planning/EIS

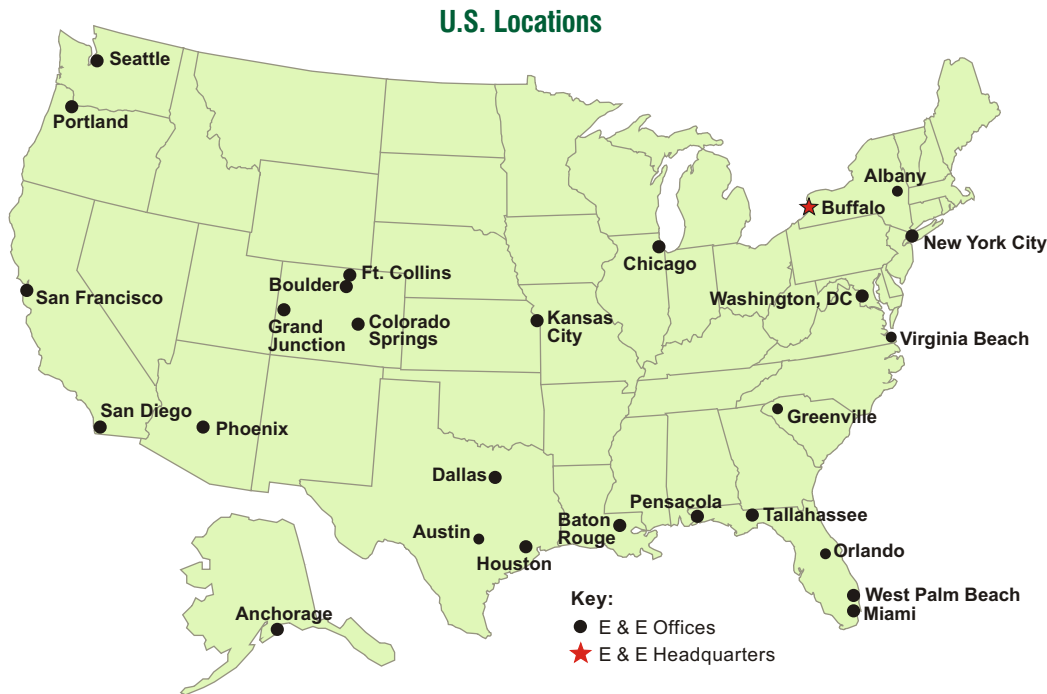
- EISs, EAs, and Related Planning Documentation
- Air Quality Support for Infrastructure Planning Studies
- Siting Studies
- Air Conformity Studies
- Risk Management Plans

Assessment/Modeling

- Stationary Source Dispersion Modeling Studies
- Mobile Source Air Quality Studies
- Ambient Air Monitoring Programs
- Analytical Services
- Climatological Assessments
- Dispersion Condition Estimates

Permitting/Compliance

- Emission Inventories (Criteria Pollutant, HAP, and Greenhouse Gas)
- Permit to Construct Strategy and Application Preparation
- Permit to Operate (Title V and State-Only)
- PSD and NSR
- Acid Rain Permits (Quarterly Reporting, Compliance Monitoring Plans)
- Compliance Planning, Tracking and Record Keeping, Allowance Tracking
- Due Diligence Reviews/Facility Audits
- Regulatory Analyses
- NSR Emission Offsets



International Locations

South America

- Caracas, Venezuela
- Lima, Peru
- Quito, Ecuador
- Rio de Janeiro, Brazil
- Bogotá, Colombia
- Buenos Aires, Argentina
- San Jose, Costa Rica
- Santiago, Chile

Africa/Middle East/Europe

- Amman, Jordan
- Anhui, China
- Ankara, Turkey
- Berlin, Germany
- Cairo, Egypt
- Dammam, Saudi Arabia
- Jeddah, Saudi Arabia
- Kuwait City, Kuwait

Asia

- Beijing, China
- Kunming, China
- Shenyang, China
- Tianjin, China

For more information, contact:
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716-684-8060
 or visit our website:
www.ene.com