

Air Quality Control Systems and Engineering



Areas of Expertise

- Control Technology Development and Evaluation
- Dust and Fume Control
- Odor Control Solutions
- Air Quality Control System Solutions
- Advatech Scrubbers
- SBS Injection™ Technology
- FGD Upgrades and Equipment
- Integrated Carbon Solutions
- Regulatory Compliance Services

KEY FACTS — AECOM Air Quality Engineering Capabilities

- Technology evaluation and development
- Strategic partnerships
- Process modeling and design
- Economic analysis
- Turnkey emissions and odor control projects
- CO₂ control and sequestration evaluations
- Retrofit/grassroots installations
- Air quality consulting and modeling
- Air quality measurements and monitoring

Overview

As industry evaluates how to respond to new and changing clean air regulations, plant owners and operators face many more strategic and operational challenges than they did just a few years ago.

Changes in regulatory requirements, the lower market price of natural gas, aging equipment, the pressure to add alternative energy sources, and customer concerns all combine to affect economics and strategy when considering future operation. AECOM is continuously developing, evaluating, and implementing air pollution control technologies and working with industry, trade associations, research institutions, and other technology providers to produce innovative solutions.

Our Approach

With a century of experience in industrial facility engineering, design and construction, and market leadership in key clean air retrofit and upgrade solutions, AECOM offers a comprehensive suite of technology solutions to assist owners in this often difficult decision-making process. We are uniquely qualified to execute these solutions in a collaborative, timely and cost-effective manner.

Help Making the Difficult Decisions

As plant operators begin the process of evaluating and selecting air quality control technologies and predicting their impacts on plant operations and costs, they also tend to take a close strategic look at fleets to determine their long-term viability and what other upgrades might make sense, especially during planned outages.

AECOM engineers gather the critical information needed to make equipment selection and O&M decisions and recommend sound strategic directions. We have performed a number of financial performance reviews for owners evaluating BOP equipment selection, helping them select the correct equipment to reconcile their frequently competing capital and O&M budget demands.

Wide-Ranging Experience

- AECOM has experience in all regulated pollutants and all major air quality technologies, including:
- Wet and semi-dry FGD retrofit/upgrade projects
- Duct sorbent injection retrofits for SO₂, SO₃ and HCL control
- Selective catalytic reduction (SCR) projects
- Combustion improvement and low-NO_x retrofit projects
- Industrial dust/fume control and ventilation improvement projects
- Odor control projects
- Authoring Electric Power Research Institute (EPRI) FGD and emissions control cost models
- New generation construction experience

Client-Focused Clean Air Projects

SITE SOLUTIONS. AECOM has executed clean air retrofit and upgrade projects in a wide variety of plants in a broad array of settings. Our experience ranges from wide-open complexes with room to spare for large components to the confined spaces of urban plants where space is at a premium and historic structures and facades must be preserved.

EFFICIENT, COST-EFFECTIVE WORK SEQUENCES. AECOM understands, in practical terms, what it takes to get air quality control system projects launched and how long it takes to complete them in realistic terms. Our team recommends project sequences that will meet clients' needs while making optimum and cost-efficient use of engineers and procurement specialists.

LIFE CYCLE EXPERTISE. AECOM has worked extensively with several plant owners to evaluate key measures of plant efficiency and to recommend component changes and other improvements that will increase efficiency and reduce operating costs.



Key Reference Material: <http://aecomprocesstechnologies.com>