ANGUIL™
Environmental Solutions for Cleaner Air and Water

SAFER MINES.
LOWER EMISSIONS.
BRIGHTER TOMORROW.



MINING SOLUTIONS

VENTILATION AIR METHANE (VAM) ABATEMENT

**3 CONTINENTS, 8 MINES,
23 RTO INSTALLATIONS
10 YEARS OF OPERATION**

GENERATE CARBON REDUCTION BENEFITS WHILE ELIMINATING VAM EMISSIONS.

Anguil's VAMTOX Regenerative Thermal Oxidizer technology destroys methane emissions while creating opportunities for energy recovery and carbon reduction. While methane concentrations are typically low, the airflow volumes are enormous, making VAM one of the mining industry's most significant sources of greenhouse gas emissions.

REDUCE EMISSIONS
Significantly lower greenhouse gas emissions and environmental impact.

LOWER CARBON COMPLIANCE COST
Help reduce exposure to carbon-related regulations and taxes

ENERGY RECOVERY
Recover heat and support power generation initiatives.

SUPPORT ESG GOALS
Measurable progress toward sustainability objectives.



98%+
METHANE DESTRUCTION EFFICIENCY

- ✓ Regenerative Thermal Oxidizers designed for large airflows.
- ✓ ZERO FUEL at 0.2% Methane
- ✓ Proven VAM experience (since 2019)
- ✓ Custom solutions tailored to your site
- ✓ Global installations & service support
- ✓ Integrated energy recovery options

DIRECT-FIRED THERMAL OXIDIZERS (DFTOs)

FOR MINING AND MINERAL PROCESSING

Control High-Concentration VOC, HAP & Odorous Emissions

Mining and mineral processing operations often generate emissions from concentrators, solvent extraction, thermal processing, refining, tank vents and chemical recovery systems. Anguil's Direct-Fired Thermal Oxidizers (DFTOs) provide reliable destruction of VOCs, HAPs and odor-causing compounds while maintaining low capital costs and operational flexibility.

IDEAL MINING APPLICATIONS

- ✓ Critical mineral processing
- ✓ Lithium, graphite and battery material refining
- ✓ Calciner and kiln emissions
- ✓ Chemical process vents
- ✓ Tank farm emissions
- ✓ Intermittent batch processes
- ✓ Odorous exhaust streams

LET'S TALK ABOUT YOUR MINING PROJECT

Anguil Environmental Systems, Inc.
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SCAN TO LEARN MORE
MINING SOLUTIONS

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WHY CHOOSE AN ANGUIL DFTO?

99.9%+ Destruction Efficiency
Reliable control of VOCs, HAPs, & Odorous Emissions.

Energy Recovery Opportunities
High exhaust temperatures make DFTO systems excellent candidates for heat recovery, steam generation, and facility heating.

Flexible Fuel Options
Available with natural gas, propane, hydrogen, electric heating options, and specialized configurations for inert gas streams

Ultra-Low NOx Designs
Multi-stage DFTO configurations are available to significantly reduce NOx emissions while maintaining destruction performance.



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CRITICAL MINERALS & BATTERY SOLUTIONS

Air and Water Pollution Control for a More Sustainable Energy Future

POWERING A CLEANER MORE SUSTAINABLE TOMORROW

The rapid expansion of lithium-ion batteries, energy storage systems, and electric vehicle production is driving unprecedented demand for critical minerals and advanced battery materials. Anguil Environmental provides engineered air and water pollution control solutions that help producers reduce emissions, maintain compliance, improve sustainability, and operate efficiently across the battery value chain.



KEY APPLICATIONS



ACTIVE MATERIAL PROCESSING

Lithium, graphite, silicone carbon anode, CAM and AAM materials can generate CO, SO2, NOx, particulates and other emissions.



BATTERY CELL MANUFACTURING

Control VOCs and NMP from electrode coating and battery manufacturing with high-performance oxidizers and solvent recovery systems.



BATTERY RECYCLING

Manage off-gas, particulates and wastewater while supporting material recovery and environmental compliance.



ELECTROLYTE MANUFACTURING

Control hazardous vapors from electrolyte production and formation.

99%+

DESTRUCTION & REMOVAL EFFICIENCY

ENGINEERED SOLUTIONS FOR THE BATTERY SUPPLY CHAIN

Anguil delivers custom air and water treatment systems designed to meet stringent environmental requirements while supporting production efficiency and sustainability goals.



AIR POLLUTION CONTROL SOLUTIONS

- ✓ Regenerative Thermal Oxidizers (RTOs)
- ✓ Direct Fired Thermal Oxidizers (DFTOs)
- ✓ Vapor Combustor Units (VCUs)
- ✓ Emissions Concentrators
- ✓ Solvent Recovery Systems
- ✓ Acid Gas Scrubbers

WATER TREATMENT SOLUTIONS

- ✓ Metals Removal
- ✓ pH Adjustment
- ✓ Chemical Precipitation
- ✓ Filtration Systems
- ✓ Wastewater Reuse Solutions

APPLICATIONS SERVED

- ✓ Lithium Processing
- ✓ Graphite Processing
- ✓ Silicon Anode Materials
- ✓ Cathode Active Materials (CAM)
- ✓ Calciner and Kiln Emissions
- ✓ Anode Active Materials (AAM)
- ✓ Battery Cell Coating
- ✓ Battery Recycling
- ✓ Battery Testing

SEE HOW ANGUIL CAN REDUCE AIR & WATER COMPLIANCE COSTS

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SCAN TO LEARN MORE ABOUT BATTERY SOLUTIONS