Monroe Environmental has decades of experience working with plants and engineers in the oil and gas, chemical, and petrochemical industries. We offer cost-effective solutions to meet demanding regulatory requirements, reduce maintenance costs, improve worker safety, streamline production, and minimize downtime.

**Monroe’s Engineered Systems**

**Air Pollution Control**
- Packed Tower Scrubbers
- Venturi Scrubbers
- Quench Towers
- Dust Collectors
- Oil Mist Collectors
- Wet ESPs
- Fiber Bed Filters

**Water & Wastewater Treatment**
- API Oil/Water Separators
- Circular Clarifiers & Thickeners
- Lamella Plate Vertical Clarifiers
- Horizontal Plate Clarifiers
- Oil Skimmers/Oil Recovery Units
- X-Flo™ Mobile Clarifier
- Rental Clarifiers

**Application & Process Expertise**

**Air Pollution Control**
- NH₃, H₂S, SO₂, HCl, HF, and acid gas
- Particulate matter – PM₁₀ and PM₂.₅
- Condensables, aerosols, and opacity
- VOCs and odor
- Mist and dust collection

**Water & Wastewater Treatment**
- Suspended (TSS) and dissolved (TDS) solids
- Metals precipitation and reduction
- Oil separation and recovery
- Ammonia and VOC stripping
- Mobile water treatment and rentals
Recent Monroe Projects

**Quench Tower & SO\textsubscript{2} Scrubber for boiler expansion:** A chemical plant that produces coal tar pitch was expanding operations and needed to control flue gas emissions from a new boiler.

**Lamella Plate Vertical Clarifier** for the reduction of cobalt hydroxides from a process water stream at a petrochemical plant.

**Wet Scrubber treats HCl & Cl\textsubscript{2} exhaust from RTO:** A Monroe Wet Scrubber system was selected to capture and neutralize the toxic gases at a pharmaceutical manufacturing plant.

**Multi-Stage Scrubbing System** with Venturi Scrubber and Cyclonic Separator to remove particulate from a dryer prior to VOC destruction with a regenerative thermal oxidizer.

**Solids Contact Clarifier for midstream oil & gas facility** to process river water – softening and lowering total suspended solids, metals, and turbidity – for use in the plant.

**Horizontal Plate Clarifiers provide water re-use for resins plant:** Separates PVC resins and other solids from large volumes of process water to allow for re-use.

**Evaporative Quench Tower for FGD project:** Tower designed to ASME Section VIII pressure vessel standards.

**Wet Scrubber removes and recovers phenolic formaldehyde resin** from nitrogen gas stream for a gulf coast chemical manufacturing plant.

**High efficiency Fiber Bed Mist Collectors** to control and filter PM\textsubscript{2.5} exhaust fumes prior to treatment with acid gas adsorbers for asphalt terminal.
High torque Thickener Clarifier for wastewater treatment successfully replaced existing plate clarifiers which were misapplied and under performing given the dense, sticky sludge characteristics.

X-Flo™ Mobile Clarifier for produced water treatment: Monroe’s X-Flo Mobile Clarifiers have a high throughput capacity and the ability to separate and remove settleable solids as well as floating oils at the same time. The system contains integral sludge handling and oil skimming mechanisms.

A custom Monroe API Oil Water Separator provides primary oil, water, and solids separation prior to downstream biological treatment for a gulf coast refinery.

Secondary Clarifier for polymer plant: Rebuilt and upgraded to maximize sludge removal for 90 ft. diameter Circular Clarifier capable of processing over 2 million gallons per day.

Wet Scrubber for H₂S removal: Packed Tower Scrubber for odor control at a wastewater treatment plant to remove 98% of H₂S fumes.

X-Flo™ Mobile Clarifier for produced water treatment: Monroe’s X-Flo Mobile Clarifiers have a high throughput capacity and the ability to separate and remove settleable solids as well as floating oils at the same time. The system contains integral sludge handling and oil skimming mechanisms.

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Wet Scrubber for H₂S removal: Packed Tower Scrubber for odor control at a wastewater treatment plant to remove 98% of H₂S fumes.

Amine Scrubber provides fume control: Packed Tower Scrubber for a gulf coast chemical manufacturing plant to control odorous fumes from chemical storage tanks.

Air Stripper removes ammonia from ethylene glycol to increase the purity of the recycled liquid for an industrial solvents facility.
Unsurpassed Experience and Reputation

Monroe Environmental is a premier provider of air pollution control and water/wastewater treatment systems and services in the United States and throughout the world. Since 1970, Monroe has provided thousands of systems for industrial, municipal, institutional, commercial, and government facilities. We have installations throughout North America, from northern Canada to southern Mexico, and around the globe. As a testament to our outstanding reputation, some of the largest and most prestigious manufacturing companies in the world routinely turn to Monroe to solve their most challenging environmental problems.

One-Stop Shopping – Systems, Services, and Solutions

Monroe is a full-service company offering a complete line of pollution control equipment that is designed, engineered, and manufactured for the needs of each customer and application on an individual basis. We have complete in-house fabrication and shop assembly capabilities that serve to reduce project costs, provide superior quality control, and expedite project completion times. We also have the experience and capabilities to provide turn-key installations along with a wide array of related services ranging from engineering and design through permitting, project management, and commissioning.

Monroe's staff of engineers, technicians, and project managers is highly experienced at evaluating, custom-designing, fabricating, installing, and commissioning cost-effective, durable, and reliable systems. In addition, in order to help ensure continued successful system operations with minimal downtimes and peak efficiencies, we offer a complete menu of support options that include extensive spare and replacement part inventories, as well as annual, as-needed, and emergency services.

Experience the Monroe Difference

The foundation of Monroe's unrivaled success, reputation for excellence, and continued growth is our commitment to providing each customer the highest levels of service and support in combination with the best, highest quality, and most cost-effective systems for ensuring long-term successful operations. This, combined with our top-notch staff, in-house capabilities, and wide array of offerings distinguish Monroe Environmental as one of the finest environmental equipment providers.

Contact us today and let us help determine the best solution to your air and water pollution control needs. Join the ranks of countless satisfied customers who have experienced the Monroe difference.