

OUR PROJECTS

Air Quality Monitoring & Strategies



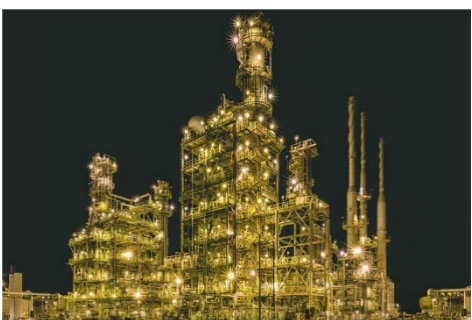
Project: Bapco Energies Ambient Air Quality Monitoring Strategy for the OpCos (2025)

Location: Bahrain

Client: Bapco Energies, Bapco Upstream, Bapco Gas & Bapco Gas Expansion

Scope:

- Review of key process operations across OpCos to identify potential emission sources.
- Evaluation of air pollutants of concern including SO₂, NO_x, VOCs, and particulates.
- Selection of suitable air quality monitoring equipment with reference to international standards.
- Determination of monitoring locations considering sensitive receptors, meteorology, and fenceline exposure.
- Development of an integrated ambient air quality monitoring strategy that complies with SCE requirements.



Project: Bapco Refining Ambient Air Quality Monitoring Strategy (2024)

Location: Bahrain

Client: Bapco Refining

Scope:

- Site surveys and mapping of emission points.
- Identification of both stack and fugitive sources with preliminary emission profiling.
- Recommendation of equipment calibrated to measure refinery-specific pollutants (SO₂, NO_x, VOCs, etc.).
- Selection of downwind and upwind monitoring stations considering worker exposure and community receptors.
- Development of an integrated ambient air quality monitoring strategy that complies with SCE requirements.



Project: Bahrain Steel Ambient Air Quality Monitoring Strategy (2024)

Location: Bahrain

Client: Bahrain Steel

Scope:

- Detailed survey of raw material handling, pelletizing, and emission hotspots.
- Evaluation of particulates and gaseous emissions using process chemistry.
- Equipment selection prioritizing real-time PM and gaseous monitoring.
- Selection of monitoring stations along fenceline.
- Development of an integrated ambient air quality monitoring strategy that complies with SCE requirements.



Project: SULB Ambient Air Quality Monitoring Strategy (2024)

Location: Bahrain

Client: SULB

Scope:

- Survey of steel manufacturing units with emphasis on combustion and material handling emissions.
- Identification of priority pollutants including PM, NO_x, SO₂, and metal fumes.
- Specification of high-accuracy monitoring equipment for continuous and campaign-based monitoring.
- Siting of monitoring locations based on emission dispersion pathways.
- Development of an integrated ambient air quality monitoring strategy that complies with SCE requirements.



Project: GPIC Ambient Air Quality Monitoring Strategy (2024)

Location: Bahrain

Client: Gulf Petrochemical Industries Company (GPIC)

Scope:

- Review of petrochemical process units for emission characterization.
- Profiling of SO₂, NH₃, and VOC emissions against baseline data.
- Recommendation of equipment with trace-level detection capability.
- Selection of monitoring stations along fenceline.
- Development of an integrated ambient air quality monitoring strategy that complies with SCE requirements.



Project: Midal Cables Ambient Air Quality Monitoring Strategy (2024)

Location: Bahrain

Client: Midal Cables

Scope:

- Survey of casting and cable manufacturing units with emission point mapping.
- Evaluation of gaseous, metal fume and VOC emissions relevant to processes.
- Recommendation of monitoring equipment specific to industry pollutants.
- Siting of monitoring locations considering wind directions and worker exposure.
- Development of an integrated ambient air quality monitoring strategy that complies with SCE requirements.



Project: ALBA Ambient Air Quality Monitoring Strategy (2024)

Location: Bahrain

Client: Aluminium Bahrain (Alba)

Scope:

- Review of smelter processes, potlines, and ancillary units for emission sources.
- Prioritization of SO₂, HF, PM, and VOC monitoring in line with international smelting benchmarks.
- Recommendation of continuous monitoring systems for critical parameters.
- Location determination through review of dispersion modelling reports and receptor analysis.
- Development of an integrated ambient air quality monitoring strategy that complies with SCE requirements.



Project: GARMCO Ambient Air Quality Monitoring Strategy (2024)

Location: Bahrain

Client: Gulf Aluminium Rolling Mill

Scope:

- Survey of melting, foil mill, rolling and heat-treatment processes for emission potential.
- Identification of particulate and gaseous pollutants of concern.
- Recommendation of continuous monitoring systems for critical parameters.
- Monitoring location determination near operational boundaries.

- Development of an integrated ambient air quality monitoring strategy that complies with SCE requirements.