



# CEMS / Environmental



Robust collection, storage, processing and reporting of emissions data

EXELE's CEMS based / Environmental DAS / RTU systems provide flexible solutions for your data intensive, process related environmental compliance requirements whether they be driven by **CFR 40 Part 60, Title V** with reasons/actions and **EDR, MACT** (Maximum Achievable Control Technology), Southern California **RECLAIM** (Regional Clean Air Incentive Market) or other similar regulations.

## Acquisition

Real Time acquisition of raw data into the historian:

- Raw data, analyzer status from PLC's, DCS's, CEMS controllers.
- Calibration gas values, maintenance status, faults.
- Overrides, Heating Values, F factor, Moisture.



## Validation

Raw data validation, range, in-control & roll-up to 15 minute averages or 6 minute averages (opacity):

- Real time.
- Retrospective - recalculation capability.
- Drift Correction.



## Evaluation

Evaluation of 15 minute data validity:

- Immediate Notification of invalid data, analyzer faults, Out-of-Control (OOC).
- Prompting for Reason & Action (R & A) inputs for monitoring equipment malfunctions and exceedances.



## Roll-up

Hourly and block average roll-up:

- Immediate notification of exceedances - emission, concentration, opacity.
- Prompting for R & A inputs for monitoring equipment malfunctions and exceedances.
- Missing data procedures, if required.



## Aggregation

Aggregation of hourly and block data to daily, monthly and quarterly values by emission source and/or facility.



## Reporting

Automatic data transmission and reporting to regulatory agencies:

- Production of operational and compliance reports (i.e.: EDR's).



