

UTILITY - POWER GENERATION

NATURAL GAS LINE CARD

Environmental

- CEMS: Rackmount Analyzer for SO₂
- Rackmount Sample Conditioning Systems, Heated Probe
- Cross stack TDL for NH₃ slip
- Dust Compliance monitor

Safety

- Hazardous Gas, Oxygen Deficiency Monitoring
- Ammonia storage leak/vent, natural gas fuel train, hydrogen generator cooling gas, oxygen deficiency in CEMs shelter, CO monitoring
- Flame Detection
 - For on-site Gasification skids
 - Camera with pixel-movement-based algorithm for flame detection reduces false positives
 - immune to water vapor cross interference that blinds other detectors
 - immune to sunlight, welding, reflected light, IR sources that cause false positives
- Bulk propane and liquid fuel tank farms
- CO is precursor to fires in bulk-stored coal or wood pellets/chips
- Biomass /coal Conveyor belt monitor IR monitors

Process / Efficiency

- Flow Metering at CHP Combined Heat and Power plant for hospital, university
 - Fuel Supply – Ultrasonic meters for accurate custody transfer. The fuel can be gaseous form like natural gas, gas from the production process or hydrogen but also liquids like light fuel oil or liquid hydrocarbons
 - Measurement of the steam flow to the plant's consumers.
 - Sodium hypochlorite (NaOCl) level by Optiwave 7500 w/TFE diaphragm
- Combustion Air flow management
- Combustion and Stack Oxygen Monitors
- Non-Contact IR Temperature Measurement & Imaging
 - High Temp/High Cost RTD Replacement
 - Firebox Gas Temp / Temp Distribution
- Instrument Air Hygrometer