Fugitive Methane Emissions

Wellhead

Gas Storage

Gate Stations

Compressor

Stations

Annually the US Oil & Gas Industry releases more than 7.3 million metric tons of fugitive methane emissions at a loss of nearly \$2 billion. Pound for pound, the comparative impact of CH4 on climate change is over 20 times greater than CO2 over a 100-year period.

- EPA releasing unprecedented federal regulations to reduce methane emissions called the "Natural Gas STAR Program".
- Requires frequent monitoring and repair of methane leaks.
- Remote asset manual monitoring are costly and not effective.
- Current real-time monitoring systems cost \$10K's, lack functionality, and cannot be deployed on a large scale.





RemoteMonitorTM CH4

PixController, Inc. has developed a cost-effective continuous methane emission monitoring system called the RemoteMonitor[™] CH4. Real-time methane emission monitoring will facilitate detection of leaks and stray gases resulting in early mitigation of methane emissions. Specifically designed for deployments in remote areas without power or wired Internet over long periods. **End-to-end solution includes:**



Business Development

- Pilot programs planned with several O&G operators active in the Appalachian Basin.
- Pre-drilling baseline study with the Municipality of Murrysville.
- Research collaboration for abandoned well monitoring with NETL.
- System installation & servicing with Vibra-Tech.
- Stray gas monitoring, pilot testing & technical service with ECHELON Applied Geosciences
- Strategic marketing partners Verizon & AT&T Wireless
- System sales, rentals, and leases. Software licensing options.



Value Proposition

- Creates real-time response for detecting methane leaks and saving on loss of product.
- Predictive analytics enables preventative maintenance and minimal downtime.
- Significantly reduce labor costs and increase data accuracy over manual sampling methods. Manual sampling can cost between \$12,000 - \$18,000 to monitor a single well pad once a month for a year. Cost of continuous monitoring with RemoteMonitor[™] CH4 is \$2,500.
- Provides superior data and efficiencies for decision making for ongoing projects with sample collection for laboratory analyses.
- Continuous and early warning at monitored locations ensuring rapid response.
- Organized and readily available records equipment leak regulations specify recordkeeping and reporting requirements.
- Control system production costs by manufacturing end-to-end solution.

