

# EMS Pipeline Services

## EMS is the Leader in Pipeline O&M Services



EMS Pipeline Services (EMS) is an established energy operations and maintenance (O&M) services company with over 150 professionals providing field measurement services, asset management, consulting, communications, and Web-based data management to major pipelines, independent power producers and oil and gas producers. In addition, EMS owns the worldwide rights to PGAS, the premier gas measurement software system designed to meet the data editing, processing and archiving requirements of the energy industry. PGAS is currently in use by approximately 25 major energy companies. The integration of services and technology has positioned EMS as the leading provider of energy measurement solutions.

## EMS Measurement Standards Set the Standard

Measurement is the critical process of determining the quantity, quality, composition, destination and ownership of energy at each point in its distribution channel. Information availability and accuracy are crucial to this process.

As an independent full service provider, EMS improves credibility, speed, accuracy and flexibility of data management and drives economies through a menu of outsourced measurement asset management and related services.

## Asset Management Services

EMS professionals have extensive expertise in the areas of energy measurement facility design, engineering, installation and operation. We currently operate thousands of meter stations ranging from 2" to 36" diameter pipe facilities. EMS offers a full suite of measurement and asset management services including chart integration, sampling and analysis, meter calibration (EFM and mechanical), pipeline O&M and product sales and service.



## Web-based Data Management

EMS offers a secure Web-based system providing real-time polling and collections of measurement data as well as management of archived historical edited data. EMS owns the worldwide rights to PGAS, designed to meet the data editing, processing and archiving requirements. The PGAS data processing platform, combined with our asset management and related services, has positioned EMS as a leading cost-effective provider of energy measurement services.

## The EMS Proven Process

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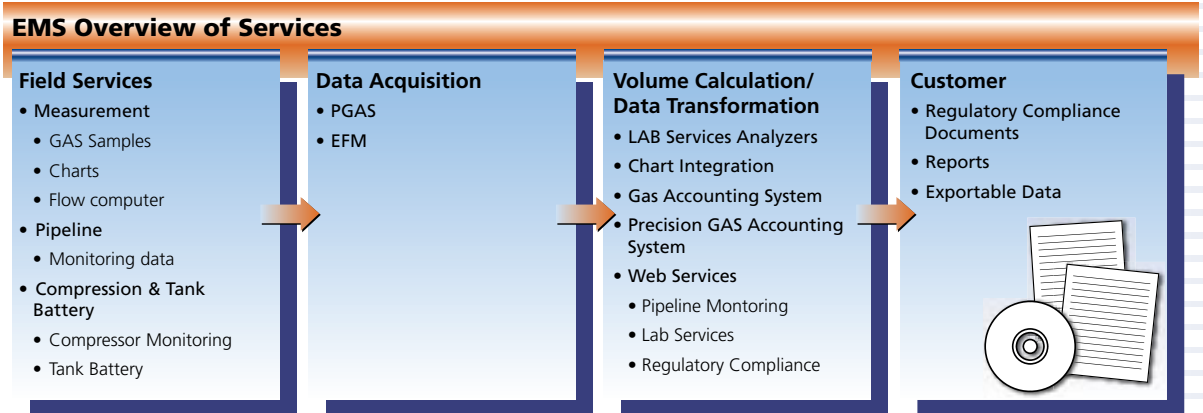
### Field Services

Beginning at the wellhead, EMS experts collect pipeline data from monitoring devices in the field. The data can be collected manually in the field, through dedicated networks or using wireless devices at remote locations with satellite links to a central server.

### Data Acquisition

Through various methods of communications, ranging from SCADA (Supervisory Control and Data Acquisition) systems, radio, satellites, cellular and telephone and the Internet, data is

collected from these devices, then analyzed or imported into historical archive storage and databases for customer reporting and exports.



### Volume Calculation and Data Transformation

Once the data is received in Lab Services, Chart Integration or PGAS, operations statistics and volumetrics are input, processed and stored. The data is then loaded onto a robust industry standards database and is transformed into a variety of periodical reports and charts made available on a secure customer Web site hosted by EMS, or made available in various export formats to be fed directly into a customer's accounting system where it can be viewed conveniently by the end user.

### Customer Reporting

Customers have real time access capability using an Internet browser to initiate a demand scan that will send a call out to a remote device via Web servers or use an interactive phone based alarm system to reconfigure or reset a remote device or acknowledge alarms. Customer pipeline data that comes in is analyzed for regulatory compliance for the Department of Transportation and the Texas Railroad Commission. Once the customer data is transformed, end users can access information directly via customer accounting systems, SAP and Oracle.



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