

Case Study

How a gas distribution and marketing major implemented an enterprise-wide network asset management solution



Network Asset Management for PNG / CNG distribution lines for a top Indian PSU

Business Situation

The customer is a gas distribution and marketing PSU involved in the supply of piped and compressed natural gas through steel and HDPE pipes. The customer is also a marketer of CNG to commercial establishments. The customer wanted to implement an enterprise-wide utility Network Asset Management Solution for the pipe network assets, covering 19 kilometers of steel and 25 square kilometers of HDPE pipes. This was to ensure efficient pipe network planning and expansion, maintenance of pipe network assets, prompt troubleshooting of affected locations / customers etc.

Mahindra Satyam's Role

Mahindra Satyam's role involved developing high-performance standards for multi-user environment, outage management and real-time gas balancing & monitoring, integrating SynerGEE Gas Analysis Software with GE Smallworld GIS software etc. Mahindra Satyam designed a solution using off-the-shelf proven packages and proposed Integrated Information Systems environment.

Business Benefits

- Decision support tool for emergency situations
- Maintenance of the gas pipe network information in a centralized system
- Enterprise sharing of information between various departments
- Actual load analysis for optimum utilization of the gas supply
- Automated map and text report generation for queries
- Network analysis for a wide variety of cases such as:
 - Upstream tracing
 - Downstream tracing
 - Tracing, based on criteria
 - Consumer connectivity with the pipe network
 - Shortest route analysis
 - Alternate path analysis
 - Capital management

For further information please write to rfi@mahindrasatyam.net.