

Wireless Telemetry, the Best Choice For Oil & Gas Solutions



Utility companies face challenges to better managing its assets, improving risk mitigation, promoting sustainability and reducing production losses. Often the large-diameter pipelines, which account for a significant proportion of the company's assets are old, and therefore require ongoing monitoring and repair. Leaks and pipe bursts do not only result in loss of revenue for the utility company it also can result in severe environmental, infrastructural and cost repercussions, for both the utility company and the affected communities.



ESS has specifically developed monitoring equipment called Wireless Wide Area Telemetry (WWAT). It has benefits for utility companies for early-pipe-leak detection or early fault detection (pressure, temperature, flow).

Early warning will inform maintenance staff before the problems arises, thus decreasing the occurrence production disruptions.

WWAT products are designed with emphasis on .
Modularity,
Reliability,
Maintainable,
Simplicity in Operation and Cost Effectiveness.
We have considered the environmental conditions such as severe lighting, the shortage of



skilled personnel to operate and maintain equipment and the frustration with the vulnerability of cable systems (aging, cable theft, damage and lightning).

ESS staff has excellent experience in providing national communications networks, hence our multitude of modular wireless communication media's between the Remote Terminal



Units (RTU) and SCADA systems. ESS takes a strong stance on message delivery and reliability, therefore the WWAT equipment enable authentication and acknowledgements at every level of the Monitor and Control process. This will



ensure robust data-integrity between of RTU's and Monitor & Control software platforms such as SCADA. ESS also provides remote-site Monitoring & Control from the Internet with password user logins for easily configuration and management in a

secure way.

ESS is a South African company, established in 1999, with an in-house design team and proven track record in wireless telemetry applications.



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