

Energy-saving specifications and models of oil pipeline monitoring base station energy management system

This research aims to study the deployment of multi-hop linear sensor networks that are energy efficient. The focus will be on assessing the coverage, throughput, and energy consumption ...

The research into developing an IoT-based system for real-time monitoring and maintenance of energy and oil pipeline networks has provided significant insights into the potential of this technology to ...

In this paper, we provided a comprehensive review of WSN-based energy harvesting (EH) technologies geared for pipeline monitoring systems in important applications pertaining mainly to ...

The energy saving technology of oil pipelines is carried out in response to the development strategy of reducing costs and increasing efficiency of petroleum en

This study demonstrates the effectiveness of energy-saving scheduling algorithm based on transformer network in wireless monitoring of oil and gas pipeline network, which can be further ...

Piping systems in the oil and gas industry are critical infrastructure, essential for the safe and efficient transport of hydrocarbons. Given the high stakes involved, from environmental risks to ...

Based on energy quality, this paper analyzes exergy loss and exergy efficiency of every component of the crude oil pipeline transportation system.

To ensure appropriate coverage on pipeline monitoring systems, one solution is to design a scheduling mechanism for nodes to reduce energy consumption. In this paper, we propose a reinforcement ...

First, the paper highlights the key considerations that influence the monitoring system's design, including pipeline materials, surrounding terrain, regulatory compliance, and operational costs.

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