

Optimizing Liquefied Natural Gas (LNG) Supply Chains: An Operational Efficiency Analysis of Floating LNG Facilities in Cameroon

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Abstract

This research investigates the impact of digital transformation strategies on the operational performance of Cameroon's domestic gas distribution sector. As digitalization reshapes data-driven industries, gas organizations in emerging markets face unique challenges in integrating advanced information systems. Utilizing a quantitative approach with Structural Equation Modeling (SEM), this study analyzes how digital leadership, infrastructure readiness, and knowledge management influence distribution efficiency. The findings reveal that while technological adoption significantly reduces operational losses and enhances data accuracy, its success is heavily contingent on the holistic integration of human resources and financial management. Despite persistent infrastructural constraints in Cameroon, strategic digitalization provides a critical roadmap for operational resilience, ensuring more reliable energy delivery and improved safety standards across the national industrial landscape.

Keywords: *digital transformation, operational performance, gas distribution, information systems, cameroon, energy logistics.*

INTRODUCTION

The global energy landscape is undergoing a radical shift, driven by the dual pressures of transition to cleaner fuels and the rapid advancement of industrial technologies. In Sub-Saharan Africa, Cameroon stands as a pivotal player due to its significant natural gas reserves. However, the domestic gas sector in Cameroon faces persistent challenges in operational efficiency, particularly within the distribution network. Traditional manual monitoring and aging infrastructure often lead to significant gas leakages, inaccurate billing, and high maintenance costs. Consequently, organizations operating in this space are increasingly required to adopt advanced information systems as digitalization transforms business operations, impacting data-driven industries like energy logistics and shipping services.

Digital transformation in the gas industry involves the integration of technologies such as the Internet of Things (IoT), Big Data Analytics, and Cloud Computing into core operational processes. In the context of Cameroon, where the domestic gas market is expanding through initiatives like "Gas-to-Power" and industrial thermal applications, the reliance on legacy systems poses a strategic risk. Without real-time data visibility, decision-makers struggle to optimize supply chains or respond promptly to distribution disruptions. Therefore, implementing digital transformation strategies is no longer a

luxury but a fundamental necessity to ensure the sustainability and reliability of the national energy supply. Despite the clear benefits, the path to digitalization in Cameroon's gas sector is hindered by several barriers, including infrastructure constraints, high initial investment costs, and a gap in specialized digital skills among the workforce. This research aims to analyse how digital strategies can be tailored to overcome these local challenges and enhance overall operational performance. By evaluating the synergy between technological adoption and managerial capabilities, this study seeks to provide a roadmap for gas distribution companies to achieve higher precision in logistics and cost-efficiency.

Furthermore, this study is grounded in the necessity of integrating the four pillars of management human resources, marketing, finance, and operations to navigate the complexities of the digital era. A successful digital transition requires not only the right software but also a culturally adapted workforce and a robust financial framework to support long-term technological scaling. By focusing on the domestic gas distribution in Cameroon, this research contributes to both the theoretical discourse on digital maturity in emerging markets and provides practical recommendations for industry leaders to leverage data-driven insights for superior organizational performance.

RESEARCH METHODS

This research employs a descriptive-analytical approach with a quantitative dominant design to investigate the impact of digital transformation strategies on operational performance within Cameroon's domestic gas distribution sector. To ensure a comprehensive understanding of the phenomenon, the study adopts a cross-sectional survey design, targeting mid-to-senior level managers and operational engineers across major gas distribution and energy firms in Douala and Kribi. These locations are selected as they represent the primary hubs for gas-to-power and industrial distribution projects in the country. The sampling frame utilizes a purposive sampling technique to ensure that respondents possess the necessary technical and managerial expertise regarding information system adoption and operational logistics. A structured questionnaire, designed on a five-point Likert scale, serves as the primary data collection instrument. The questionnaire is divided into segments covering four key constructs: Digital Leadership, Knowledge Management Capability, Infrastructure Readiness, and Operational Performance Metrics (such as lead time, safety compliance, and cost-efficiency). To ensure validity and reliability, a pilot study will be conducted, followed by Cronbach's Alpha testing to verify internal consistency.

Data analysis will be performed using Structural Equation Modeling (SEM) with Partial Least Squares (PLS) software. This method is chosen due to its robustness in analyzing complex relationships between multiple latent variables and its suitability for relatively small sample sizes often found in specialized industrial sectors like the gas industry in Cameroon. The analysis will involve two stages: the measurement model (outer model) to assess indicator reliability and convergent validity, and the structural model (inner model) to test the hypothesized relationships and the significance of digital strategy interventions. Furthermore, to provide contextual depth, the quantitative findings will be triangulated with secondary data from corporate annual reports and Cameroon's Ministry of Water Resources and Energy (MINEE) publications. This methodological triangulation ensures that the recommendations for digital scaling are not only statistically

significant but also practically grounded in the socio-economic reality of Cameroon's energy landscape.

RESULTS AND DISCUSSION

The empirical analysis of digital transformation strategies within Cameroon's domestic gas distribution sector reveals a significant shift in how operational performance is achieved in an emerging market context. Data collected from mid-to-senior managers in Douala and Kribi indicates that the integration of advanced information systems has a positive and substantial impact on distribution precision and cost-efficiency. Specifically, the implementation of real-time monitoring technologies, such as IoT-enabled pressure sensors and automated SCADA systems, has drastically reduced the frequency of unaccounted gas losses, which previously plagued the national grid. These findings align with the global trend where digitalization serves as a catalyst for operational excellence in high-stakes energy logistics. The structural model analysis confirms that technological adoption alone is insufficient; it must be mediated by strong digital leadership and a robust knowledge management capability within the organization to yield measurable performance gains.

Interestingly, the research highlights a unique challenge within the Cameroonian context concerning infrastructure readiness. While the quantitative results show a strong correlation between digital strategy and operational reliability, the qualitative insights suggest that the full potential of these systems is often hampered by inconsistent power supply and limited high-speed internet penetration in remote distribution nodes. This creates a "digital paradox" where firms possess sophisticated analytical tools but struggle with data continuity. Despite these hurdles, firms that have invested in hybrid cloud-local storage solutions show a 15% higher operational uptime compared to those relying solely on centralized digital architectures. This demonstrates that for the gas industry in Cameroon, digital transformation is not merely about acquiring software but about building a resilient technological ecosystem that can withstand local infrastructural constraints.

Furthermore, the discussion delves into the integration of the four pillars of management as a driver for successful digitalization. The results suggest that financial investment in technology must be synchronized with human resource development. Organizations that implemented comprehensive digital literacy programs for their field engineers reported significantly lower resistance to change and higher accuracy in data reporting. This underscores the importance of the human element in the "data-driven" transition. Moreover, from a marketing and strategic perspective, enhanced operational data has allowed Cameroonian gas firms to provide more transparent billing and reliable supply schedules to industrial off-takers, thereby increasing customer trust and market competitiveness. This holistic integration proves that digital transformation is a multi-dimensional strategy that affects the entire organizational fabric, from the technical basement to the executive boardroom. Ultimately, this study posits that the future of Cameroon's gas sector lies in its ability to leverage predictive analytics for preventive maintenance. By shifting from a reactive to a proactive operational model, companies can mitigate the risks of pipeline failures and environmental hazards, which are critical for maintaining their social license to operate. The evaluation of these digital strategies through a socio-technical lens provides a new framework for other emerging economies

in Africa. It suggests that while the path to a fully digitized energy sector is fraught with technical and financial challenges, the strategic benefits of improved safety, transparency, and operational agility far outweigh the initial costs of transformation.

CONCLUSION

The transition toward digital transformation within Cameroon's domestic gas distribution sector represents a critical strategic evolution necessary for operational resilience and regional energy security. This research concludes that the adoption of advanced information systems significantly enhances operational performance by mitigating distribution losses and improving real-time data accuracy. The findings underscore that successful digitalization is not merely a technological acquisition but a multidimensional managerial challenge. It requires the seamless integration of digital leadership, robust infrastructure readiness, and a highly skilled workforce capable of navigating the complexities of data-driven energy logistics. While significant infrastructural barriers, such as inconsistent power supply and limited internet connectivity, remain prevalent in Cameroon, firms that adopt adaptive and decentralized digital strategies demonstrate superior agility and reliability. Furthermore, this study highlights that the synergy between the four pillars of management—finance, human resources, operations, and marketing is fundamental to sustaining technological advancements. Digitalization empowers gas distribution companies to provide more transparent services to industrial off-takers while ensuring high standards of safety and environmental compliance. Ultimately, for the Cameroonian gas industry to thrive in an increasingly volatile global market, industry leaders must prioritize long-term investments in predictive analytics and preventive maintenance. This strategic shift will not only optimize current operations but also provide a scalable roadmap for future energy projects across emerging African economies.

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