

Brochure

# **LTIMindtree's End-to-end Solution for Just-in-time Tank Replenishment in the Oil & Gas Industry**

## Introduction

The downstream oil and gas industry faces challenges due to fluctuating prices, cost margins, and demand. To optimize supply and mitigate uncertainties, LTIMindtree's solution combines cutting-edge technology with forecasting algorithms based on historical data, seasonal indexes, dip readings, and other crucial parameters. By implementing innovative software and technology, our solution enables just-in-time delivery, avoiding dry runs at gas stations.



## Business Problem

Businesses need a robust solution for the downstream oil and gas supply chain, focusing on achieving just-in-time delivery and eliminating dry runs. It is important to ensure accurate prediction of the required stock quantity for customer tanks based on the latest dip level and other parameters. To achieve this integration of technological advancements to automate processes and reduce manual tasks, implementing lean ordering management practices and optimizing logistics planning to prevent additional costs resulting from re-planning is essential.



## Our Solution

LTIMindtree's solution leverages state-of-the-art technology, such as sensors and real-time integration of dip readings from customer tanks. We seamlessly integrate data and information into an analytics model to enhance decision-making. The process of replenishment order creation at gas stations is automated using forecast algorithms that calculate the optimal 'Order Quantity' and 'Delivery Window,' considering various inputs, including dips, daily sales per product, storage capacity, and other key parameters.

Additionally, our solution ensures that existing orders are automatically updated with revised quantities and dates based on changes in the oil distribution order pool. We achieve seamless integration with the planning tool, DSS, facilitating efficient vehicle route planning and sharing delivery information across the entire solution. Overall, our solution reduces inventory holding costs by 10%, contributing to improved supply chain efficiency.





## Why LTIMindtree

Our unique selling proposition (USP) lies in our extensive experience in the oil and gas industry, domain consultants, and a strong technical team, apart from dedicated R&D labs to ensure continuous improvement and innovation in our solutions. We specialize in implementing next-generation IT solutions based on data and data-enabled decision-making, and partner with leading oil companies worldwide to implement their key initiatives.

LTIMindtree embraces the limitless possibilities of technology with a range of comprehensive IT services and solutions, that help empower your business to thrive in this digital age.

For more information, write to us at [oraclemarketing@ltimindtree.com](mailto:oraclemarketing@ltimindtree.com).

### About LTIMindtree

**LTIMindtree** is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700 clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 84,000+ talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit: [www.ltimindtree.com](http://www.ltimindtree.com)