



Brochure

LTIMindtree's Inventory Management Solution for the Oil & Gas Industry

Introduction

Across the globe, Oil and Gas (O&G) companies face the challenge of assessing their inventory levels across tanks, tankers, pipelines, and terminals. This limitation hampers efficient production and shipment planning. Our solution seamlessly integrates the inventory module within the Enterprise Resource Planning (ERP) system with sophisticated refinery automation systems. This integration enhances the visibility of crude and product inventory throughout the supply chain, enabling resource optimization for priority initiatives and reducing inventory costs. It also adds automated daily/monthly reconciliation capabilities.



Business Problem

Business leaders seek a robust integration architecture for enterprise applications for smooth data flow between process control and automation systems, ERP, and reporting solutions. Some of the main challenges are:

- Syncing manufacturing automation and truck loading systems with the ERP solution to meet the growing demand for integrated, accurate, and timely supply chain data.
- Enhancing visibility into crude/semi-finished and finished products.
- Tracking daily operational losses and gains effectively to minimize product loss.
- Empowering sales personnel with the data to update product availability for improved demand-supply cycle and planning.



Our Solution

LTIMindtree has developed an innovative approach for energy mass balance across refineries, terminals, and distribution points. The solution is aligned with industry best practices in inventory management for O&G installations and delivers the following features:

- Synchronizes complex refinery process control solutions like Manufacturing Execution Systems (MES), terminal automation and ERP systems for seamless data flow.
- Implements bulk stock management module, catering to the specific needs of the O&G industry, including bulk-product handling, storage, deliveries, tank, and throughput reconciliation.
- Optimizes the supply chain by accurately tracking all product movements.
- Automates inventory processing and consolidates mass balance reporting.
- Reduces total inventory level in the supply chain by up to 15%.
- Provides daily inventory to improve supply chain planning and decision-making.



Why LTIMindtree

- Our unique selling proposition lies in the extensive experience of our domain consultants in the O&G industry and the expertise of our strong technical team.
- We have dedicated research and development labs that drive continuous improvements and innovation in our solutions.
- Our commitment to research and development sets us apart from the competition.
- With a focus on continuous improvement, we strive to deliver the best solutions to meet our customers' needs.

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.

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