



CASE STUDY

Automated Facility Management for an Oil and Gas Producer

Client

The client is an American multinational energy corporation, predominantly in the oil and gas industry. It is recognized as one of the leading companies in the energy industry, consistently delivering advanced and innovative solutions across a range of critical areas. The company prioritizes sustainability and environmental responsibility, constantly investing in sustainable initiatives and energy-efficient technologies.



Challenges

- One of the client's biggest Strategic Business Units (SBU), headquartered in California, handles more than 50,000 oil wells spread around six fields. Different teams from various locations operate on each oil field utilizing spreadsheets. This posed a challenge of managing decentralized data spread across multiple spreadsheets.
- Decentralization and lack of tracking of daily work activity led to poor visibility, resulting in massive penalties by regulatory authorities for violations.
- The clients' objective was to eliminate manual, decentralized work and remove all additional costs incurred by regulatory bodies due to inconsistencies.
- The client's prior vendors replaced manual work with a digital platform but failed to resolve the underlying pain points.

LTIMindtree Solution

- LTIMindtree assessed existing systems, understood business objectives, and proposed a Power platform solution
 - Business processes involve collaboration between cross-functional teams contributing to the factory model for the finished product, i.e., each functional team owns data and applications related to their scope of work.
 - Centralized applications built in traditional development tools requires huge development time and maintenance costs. Power Platform provides a rapid development environment with a low cost of ownership and quick ready-to-market capabilities that are ideal for a smart factory framework.
- Fully automated all the previous activities and processes
- Implemented a cloud-based, mobile-driven solution including Microsoft CDS, model-driven, canvas app and Power Automate capabilities
- For simple monitoring, a graphical representation of the metrics dashboard was made using Power BI



Benefits



Saved approximately USD 26 million over a five-year period for the customer



Reduced time up to 500 person-hours per month



End-to-end process automation from ideation to asset retirement



The transformation involved a shift from Service-Level Agreement (SLA) breaches, which previously resulted in reauditing of the entire well plant, to submitting instant audit findings



Consolidated and centralized reporting of the business operations

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