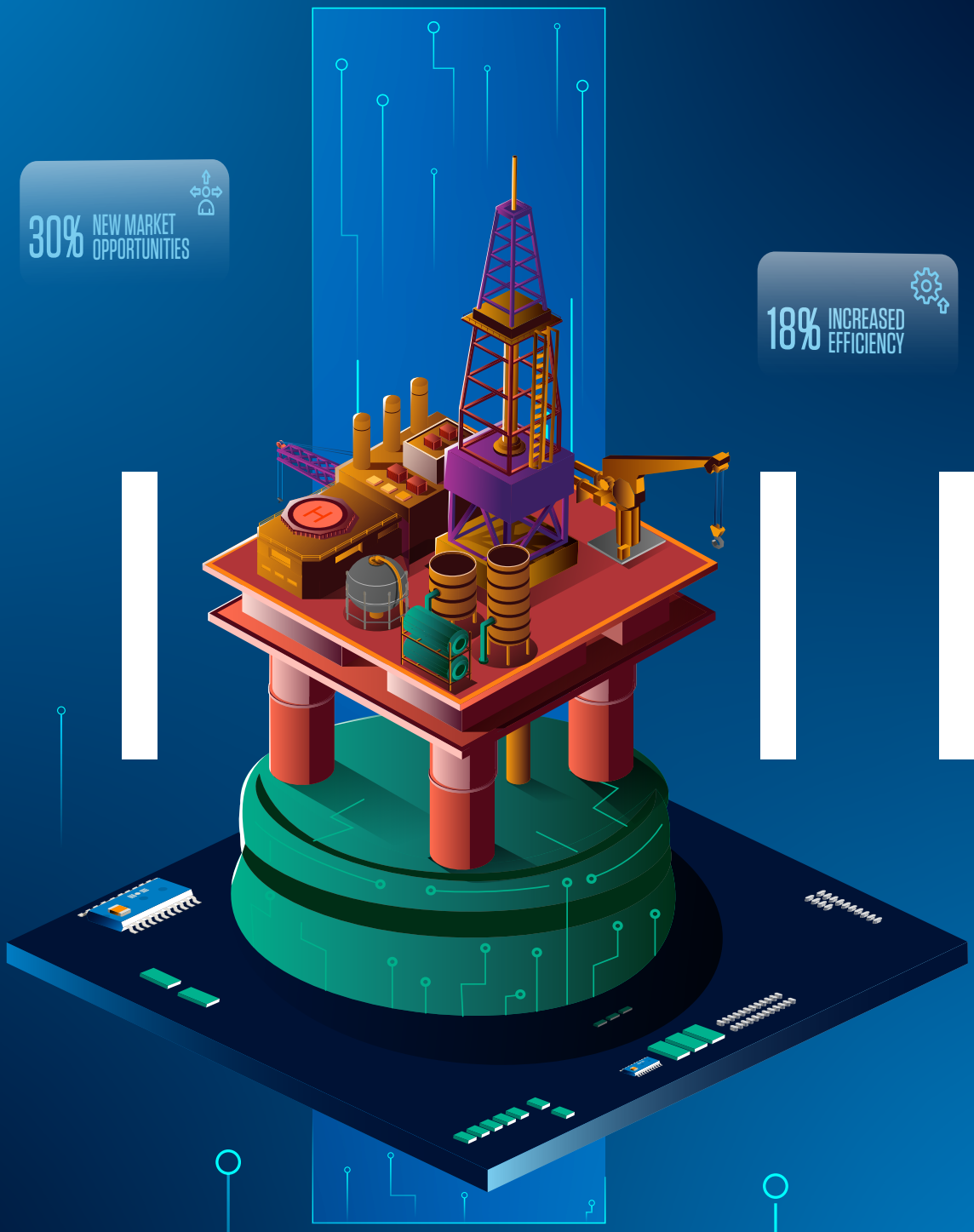
AI FOR ENERGY EVOLUTION

30% NEW MARKET OPPORTUNITIES

18% INCREASED EFFICIENCY



Infosys
Navigate your next

HOW ENTERPRISE AI IS RESHAPING THE ENERGY LANDSCAPE

The energy industry is at a pivotal point, balancing the dual imperatives of optimizing legacy operations while transforming for the future. Companies are tasked with enhancing the efficiency of their core operations by leveraging tools like AI, digital solutions, and IIoT. This means improving output, maximizing refinery yield, and maintaining operational excellence while adhering to environmental regulations.

At the same time, energy organizations are pivoting toward new revenue streams in areas like low-carbon solutions (LCS) and renewable energy. By using AI to accelerate time-to-value in these emerging domains, businesses are better equipped to stay competitive in a rapidly evolving landscape. By unlocking predictive maintenance, optimizing operations, and refining demand forecasting, AI continues to act as a catalyst for innovation in the energy industry.

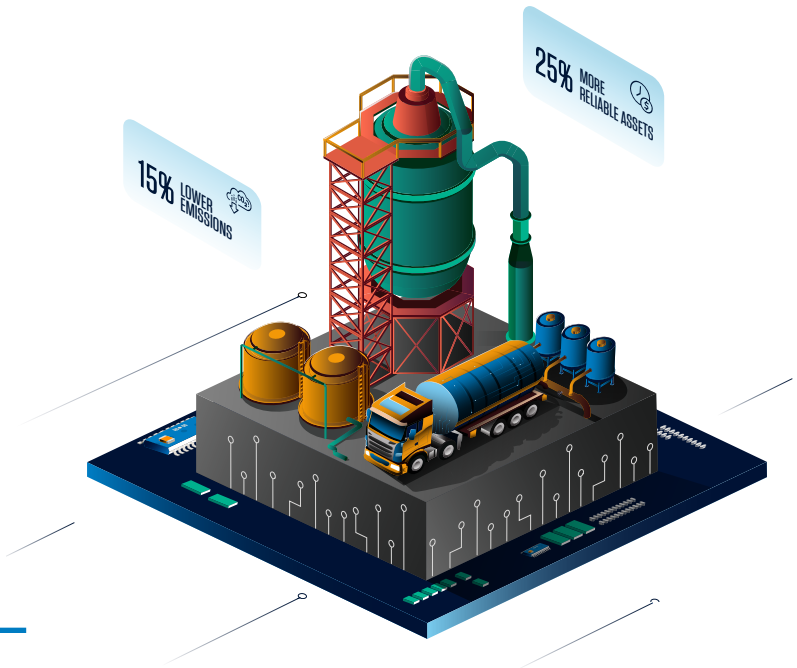
Powered by Infosys Topaz and Infosys Cobalt, Infosys brings together industry expertise, cloud-native platforms, and AI-first capabilities to enable rapid reimagination and faster realization of new possibilities in the energy industry.

Asset.AI

FUELLING NEW RESERVES OF EFFICIENCY

We enhance the reliability and performance of critical equipment using continuous monitoring and condition-based assessments. By tackling inefficiencies such as equipment failures, underperformance, and high emissions, our solutions optimize assets across upstream, midstream, and downstream operations. This enables lower operating costs, minimized downtime, and reduced environmental impact.

A global energy major wanted to improve asset reliability in its production facilities. By integrating LiDAR-based data into its digital twin platform, we helped the company achieve more accurate modeling and object detection with a customer-specific AI model. The result was a significant boost in productivity and operational efficiency.



External Document © 2025 Infosys Limited

Insight.AI

UNLOCKING THE DEPTH OF OPERATIONS

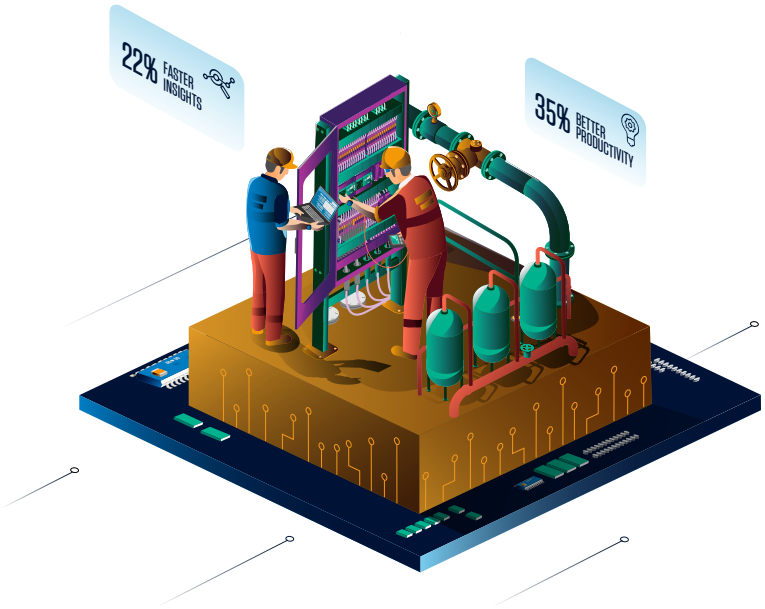
We enable smarter decision-making across well operations by leveraging AI-driven data analysis. From drilling optimization to production improvements, our offerings enable enterprises to identify inefficiencies, predict potential hazards, and enhance geological insights. With real-time insights that accelerate project completions and reduce deferrals, we apply AI across the lifecycle of energy operations.

A leading oil and gas multinational sought to mitigate risks in well design during the planning phase. Using custom machine learning models and Azure-based frameworks, we streamlined the extraction of risk data and shallow hazard analysis, enabling more efficient workflows. This led to enhanced safety protocols and higher production efficiency.

Persona.AI

POWERING HORIZONS OF POTENTIAL

We reimagine workplace and field operations productivity through digital co-pilots designed for diverse industry roles. Whether assisting engineers during drilling operations or enabling retail staff in fuel and lubricant sales, our tools automate repetitive tasks and enhance decision-making. With human and AI collaboration, energy enterprises can create an agile, future-proof workforce, driving smarter ways of working.



A global subsea data platform wanted to empower geoscientists with improved accessibility to historical well data. By combining advanced text processing, document ingestion, and conversational AI solutions, we streamlined the decision-making process with faster access to critical data and increased operational safety.

External Document © 2025 Infosys Limited

SHAPING AN AI-FIRST OIL AND GAS VALUE CHAIN

We deliver AI-powered solutions across the full spectrum of energy operations — optimizing performance, enhancing decision-making, and accelerating innovation.

Exploration and Appraisal
Fault detection and reserves reporting ensure better resource analysis.

Development
Optimized drilling and field operations minimize costs and improve execution.

Production
Predictive maintenance boosts asset integrity while GenAI assistants streamline field operations.

Transportation
AI-enabled logistics and pipeline monitoring improve delivery efficiency.

Storage
Automated stock reconciliation and quality management improve inventory control.

Refining
AI-driven blending and condition-based maintenance enhance refinery efficiency.

Supply and Distribution
Route optimization and demand forecasting ensure seamless delivery.

Marketing and Sales
Pricing analytics and inventory optimization improve profitability and customer retention.

THE FUTURE IS NOW WITH AI FOR ENERGY EVOLUTION

Unlock the full potential of your operations with AI solutions that drive efficiency, reliability, and growth. We can help you lead the change toward a smarter, more resilient energy future where intelligence fuels progress and performance.

Scan to learn more

For more information, contact askus@infosys.com

Infosys
Navigate your next

© 2025 Infosys Limited, Bengaluru, India. All Rights Reserved. Infosys believes the information in this document is accurate as of its publication date; such information is subject to change without notice. Infosys acknowledges the proprietary rights of other companies to the trademarks, product names and such other intellectual property rights mentioned in this document. Except as expressly permitted, neither this documentation nor any part of it may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, printing, photocopying, recording or otherwise, without the prior permission of Infosys Limited and/ or any named intellectual property rights holders under this document.