

IDC Energy Insights: Worldwide Energy Transition Strategies

The *IDC Energy Insights: Worldwide Energy Transition Strategies* service is designed to support IT and operations executives with business, regulatory, and technology innovation insights to accelerate their digitalization efforts as part of their energy transition initiatives and roadmaps for achieving net-zero carbon emissions. This includes optimizing and scaling energy efficiency, electrification, and decarbonization initiatives.

In addition to sustainability goals, the energy transition is a critical factor in organizations' competitiveness and resiliency and must be aligned with strategic objectives and financial investments. Whether it is reducing energy costs, carving out new revenue streams with product innovation, or meeting ESG commitments, the business case for energy transition initiatives needs to be justified for stakeholder buy-in.

Guidance is provided to companies in energy-intensive industries such as cement and building materials, steel, chemicals, metals, mining, refining, and utilities, as well as firms with high exposure to the energy sector (e.g., transportation and logistics telecommunications, buildings, and datacenters).

APPROACH

This service develops unique analyses through IDC Industry Insights' proprietary research projects, along with ongoing communications with industry executives, ICT vendors, engineering firms, and service providers. Reports elucidate business strategy, best practices, technology selection, and vendor assessment, as well as short perspectives on topical issues. To ensure relevance, our analysts work with subscribers to identify and prioritize specific topics to be covered in research reports.

TOPICS ADDRESSED

- Digital innovation supporting energy transition initiatives across three pillars:
 - Energy management for monitoring, reporting, forecasting, and optimizing emissions and driving energy efficiency
 - Decarbonizing operations (e.g., reducing energy intensity in equipment and processes, optimizing resource usage, using low-carbon materials, and leveraging CCUS) internally and across the value chain
 - Electrification and access to clean, reliable, and affordable energy
 - The business case for digitalization investments in energy transition strategies
 - The impact of the regulatory environment, government policies, and industry standards
 - Energy transition maturity models: digital use cases, drivers and challenges, and best practices to reach net zero. The worldwide view can be complemented with regional insights (e.g., from China, Europe, and the United States).
 - Digital solutions connecting OT and IT systems across the enterprise (e.g., intelligent digital energy platforms, operations performance management, robotization of field operations, and asset performance management)
 - The impact of artificial intelligence on energy transition roadmaps
 - Competitive vendor assessments (i.e., IDC MarketScape) of technologies servicing energy transition strategies
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KEY QUESTIONS ANSWERED

1. How advanced are organizations' energy transition strategies? What are leaders' traits?
 2. How are companies leveraging digitalization to accelerate their journeys? What is the impact of artificial intelligence? Which digital use cases are driving transformation?
 3. What are the business outcomes — financial and non-financial — of digital investments?
 4. Which key pain points are companies experiencing on their journeys? What are the implications for IT, OT, and lines of business?
 5. Which regulations, government policies, and standards are influencing technology investments (e.g., in China, Europe, and the U.S.)?
 6. Which technology and services providers are driving innovation and supporting customers in their energy transition strategies?
 7. How are companies transforming their organizations (e.g., investing in skills, remuneration, or internal carbon pricing schemes) to succeed on their journeys?
 8. How are companies engaging with their value chain partners to control their Scope 3 emissions?
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WHO SHOULD SUBSCRIBE

The *IDC Energy Insights: Worldwide Energy Transition Strategies* service is ideally suited to support business managers and IT executives responsible for strategizing and deploying technologies to meet net-zero goals. Suppliers servicing technologies for net-zero roadmaps will also benefit from this service by gaining a better understanding of key market trends and challenges.