

Within the dynamic and ever-evolving landscape of the global energy sector, the prevailing dialogue revolves around the exigency of decarbonization; a focal point now deemed imperative by industry on a global scale. Recent findings highlight this conviction, illustrating that a significant majority of energy leaders aspire to achieve carbon neutrality by 2030; a corporate transfiguration underscoring the meticulous planning, accelerated digital innovation, and substantial resource allocation required to achieve this ambitious goal.

‘To solve the energy crisis will require the greatest energy of all; human creativity.’ – Daniel Yergin

The collective pursuit of carbon neutrality transcends regulatory compliance, acknowledging the pivotal role that sustainability plays in achieving success in the energy sector, with a discernible Environmental, Social, and Governance (ESG) strategy now considered the new baseline for attracting talent across the organizational spectrum.

As transparency and reliability in sustainability performance data gain ascendancy, stakeholders, investors, and potential collaborators worldwide can meticulously scrutinize a company's adherence to sustainability goals. The consequences of inadequate performance extend beyond business viability, with demonstrable progress serving as a gateway to sustained legitimacy within the global energy ecosystem.

Discussions on decarbonization routinely orbit formative technologies facilitating the transition to carbon-neutral operations. Executives globally attribute a vital role to digital innovation, signaling substantial investments in enhancing IT functionality. However, technological prowess, though pivotal, is not the exclusive catalyst for success.

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- **Dr. Satyam Priyadarshy**, former Chief Data Scientist at Halliburton
- **Monika J. Wilczak**, Executive Advisor to the US Government, Artificial Intelligence at EY
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The term ‘culture’ emerges as a comprehensive paradigm, encompassing elements frequently overlooked in the tech-centric discourse on decarbonization. Culture becomes the essential counterparty to data in effecting transformative change within an energy enterprise, transcending incremental changes and immaterial technological advances. To realize ESG objectives, business leaders must cultivate a culture of creativity and sustainability across every echelon, from the boardroom to the operational frontlines.

Strategies for this cultural transformation include establishing success criteria and providing incentives such as bonuses to galvanize employees toward organizational goals. Leveraging data to its full potential becomes imperative, with the data itself requiring an ‘investment-grade’ status - defined by accuracy, timeliness, completeness, relevance, and auditability. Trustworthiness and transparent utilization of ESG data become non-negotiable in the contemporary energy landscape. Despite the rhetoric, numerous energy enterprises grapple with inefficient and inconsistent data flows, often resulting from the use of manual reporting tools, immature data governance, and fragmented operational processes. Overcoming these barriers carries profound implications, reaching beyond external optics and penetrating the core of the sustainability culture necessary to materially advance the global energy sector.

If data integrity is assured, ESG-related performance can be precisely measured, empowering executives to align incentive structures with performance data and expediting

both individual and company-wide momentum toward sustainability objectives. Generating quality ESG data is pivotal in effecting a cultural shift, and steering these dual efforts in the right direction necessitates unifying the energy enterprise through digital transformation.

Within the dynamic and ever-evolving landscape of the As energy companies worldwide navigate escalating ESG disclosure demands amidst climate change and regulatory pressures, cultivating a robust and enduring sustainability culture demands concerted effort and resources. The evolution to a human-centric data fabric seems essential to the success of this intricate process, ensuring transparency and driving meaningful results that resonate with the enterprising leaders shaping the future of the global energy landscape.

In the rapidly developing fervor for progressive change, the endeavor to cultivate a data-driven culture of sustainability stands as an unequivocal investment -conferring value, managing risk, and [ultimately fortifying](#) the future of both the energy enterprise and the environment alike.

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