

Energy Economics Review: Advancing Knowledge at the Nexus of Energy Economy and Sustainability

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Abstract: The accelerating transformation of global energy systems presents complex challenges and opportunities for economies, institutions, and societies. This editorial introduces the Energy Economics Review (EER) as an interdisciplinary platform dedicated to advancing rigorous and policy-relevant research at the intersection of energy economics, environmental sustainability, and climate policy. It highlights the critical need for integrated analytical frameworks that capture the dynamic interplay between energy markets, technological innovation, financial systems, and governance structures. The editorial outlines the journal's core thematic priorities, including energy transition strategies, renewable energy finance, market design and regulation, climate economics, and energy equity. Particular emphasis is placed on the role of sustainable finance, digitalisation, and institutional capacity in shaping low-carbon development pathways. The discussion further underscores the importance of methodological rigour, encouraging contributions employing advanced econometric techniques, system modelling, and comparative policy analysis. By fostering global inclusivity and interdisciplinary dialogue, EER aims to bridge the gap between academic research and policy implementation. The editorial concludes by positioning the journal as a critical forum for generating evidence-based insights that support economically viable, environmentally sustainable, and socially equitable energy systems in both developed and developing contexts.

Keywords: Energy economics; Energy transition; Renewable energy finance; Climate policy; Sustainable development.



Citation: Haseeb, M. (2026). Energy Economics Review: Advancing Knowledge at the Nexus of Energy Economy and Sustainability. *Energy Economics Review*, 1(1), 1-3. <https://doi.org/10.66348/eer.26.v1.n1.a53>.

Received: 2026-04-23

Revised: 2026-05-19

Accepted: 2026-05-19

Published: 2026-05-19

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The global energy landscape is undergoing a profound transformation. As economies grapple with the dual imperatives of sustaining growth and addressing climate change, the role of rigorous, policy-relevant research has never been more critical. The *Energy Economics Review (EER)* emerges in this context as a timely and necessary scholarly platform dedicated to advancing interdisciplinary insights into energy systems, economic development, and environmental sustainability.

Energy is no longer merely a technical or economic concern; it is fundamentally intertwined with questions of equity, governance, innovation, and resilience. The transition from fossil fuel-dominated systems to cleaner and more sustainable energy pathways is reshaping industries, redefining markets, and influencing geopolitical dynamics. However, this transition is uneven across regions and sectors, often constrained by institutional capacity, financial limitations, and technological barriers. These complexities underscore the need for integrative research that bridges disciplines and informs practical decision-making.

EER is founded on the recognition that energy challenges cannot be addressed in isolation. The journal positions itself at the intersection of energy economics, environmental policy, finance, engineering, and sustainability science. By doing so, it seeks to foster a holistic understanding of how energy systems operate within broader socio-economic and ecological frameworks. This interdisciplinary orientation is essential for capturing the

multifaceted nature of energy transitions, where technological innovation, market structures, and policy interventions interact in dynamic and often unpredictable ways.

One of the central themes of the journal is the evolving architecture of energy markets. Liberalisation, decentralisation, and digitalisation are transforming how energy is produced, distributed, and consumed. Electricity markets, in particular, are experiencing rapid change with the integration of renewable energy sources, smart grid technologies, and storage solutions. These developments raise important questions about pricing mechanisms, regulatory frameworks, and market efficiency. EER aims to provide a platform for rigorous analysis of these issues, offering insights that can guide both policymakers and market participants.

Equally important is the role of finance in enabling energy transitions. The mobilisation of capital towards renewable energy projects, green infrastructure, and climate mitigation initiatives is a defining feature of contemporary energy economics. Instruments such as green bonds, climate funds, and carbon markets are reshaping investment landscapes, yet challenges remain in terms of risk assessment, regulatory alignment, and scalability. By encouraging research on sustainable finance and climate risk management, EER contributes to the growing discourse on how financial systems can support a low-carbon future.

The journal also emphasises the importance of technological innovation and diffusion. Advances in renewable energy technologies, energy storage, hydrogen systems, and electrification are opening new pathways for decarbonisation. However, the adoption of these technologies is influenced by economic incentives, policy support, and institutional readiness. Understanding these dynamics requires robust empirical and theoretical approaches, which EER actively promotes. Contributions that explore the drivers and barriers of technology adoption, as well as their economic and environmental implications, are particularly valuable (Stern, 2008; IEA, 2022; Aghion et al., 2016).

Another critical dimension addressed by EER is the socio-economic impact of energy systems. Issues such as energy poverty, access to affordable and reliable energy, and equitable distribution of resources remain pressing, especially in developing economies. Energy transitions must be inclusive to ensure that the benefits of sustainability are shared broadly across societies. Research that examines the intersection of energy access, social equity, and economic development is therefore central to the journal's mission.

Climate change remains the overarching challenge that frames much of the discourse in energy economics. The design and implementation of effective climate policies—such as carbon pricing, emissions trading systems, and regulatory standards—require careful analysis of economic trade-offs and behavioural responses. EER seeks to advance this area by publishing high-quality research on climate economics, policy instruments, and their impacts on emissions, growth, and welfare. Such work is essential for informing evidence-based policy decisions in an era of increasing environmental urgency.

In addition to its thematic focus, EER places strong emphasis on methodological rigour and innovation. The journal welcomes a wide range of research approaches, including econometric modelling, system dynamics, simulation techniques, and comparative policy analysis. By fostering methodological diversity, EER aims to enhance the robustness and credibility of research findings, while also encouraging the development of new analytical tools and frameworks.

The global scope of the journal is another defining feature. Energy challenges and solutions vary significantly across regions, shaped by differences in resource endowments, institutional structures, and development priorities. EER encourages contributions that provide comparative perspectives, enabling cross-country learning and the identification of best practices. Such global inclusivity is essential for building a comprehensive understanding of energy systems and for promoting collaborative solutions to shared challenges.

As this editorial sets the tone for the journal, it is important to emphasise EER's commitment to bridging the gap between academia and practice. The journal seeks not only

to advance theoretical knowledge but also to generate insights that are directly relevant to policymakers, industry stakeholders, and civil society. In doing so, it aspires to contribute meaningfully to the design of energy systems that are economically viable, environmentally sustainable, and socially equitable.

Looking ahead, the success of EER will depend on the collective efforts of its contributors, reviewers, and readers. By fostering a culture of scholarly excellence, critical inquiry, and interdisciplinary collaboration, the journal aims to become a leading forum in the field of energy economics. The challenges are immense, but so are the opportunities. Through rigorous research and informed dialogue, EER seeks to play a pivotal role in shaping the future of global energy systems.

Energy Economics Review is more than a journal; it is a platform for advancing knowledge and informing action at a critical juncture in human development. As the world navigates the complexities of energy transitions and climate change, the insights generated within these pages will contribute to building a more sustainable and resilient future.

Funding: This research received no external funding.

Data Availability Statement: N/A.

Conflicts of Interest: The authors declare no conflict of interest.

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