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Article type

Article

Title

Energy Entrepreneurship in the Emerging New Globalization: A Macro–Meso–Micro Perspective with Evidence from a Less-Developed Regional Ecosystem

Journal

Energies (https://www.mdpi.com/journal/energies)

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18

Issue

6

Section

B: Energy and Environment (https://www.mdpi.com/journal/energies/sections/energy_environment)

Special Issue

Environmental Sustainability and Energy Economy (https://www.mdpi.com/journal/energies/special_issues/FL9BB4SZ54)

Abstract

This study aims to analyze the shifting focus and emerging themes in contemporary energy entrepreneurship research, alongside the challenges and opportunities faced by select energy entrepreneurs in a rapidly transforming global landscape that is driven by sustainability imperatives, resilience, and systemic energy transitions. Employing a semi-systematic and critical literature review, 238 relevant scientific articles from the Web of Science database were identified and analyzed. We then conducted focused case studies of energy entrepreneurs in a less-developed regional ecosystem. The findings reveal two distinct “generations” of energy entrepreneurship research, marked by a clear shift towards sustainability themes, innovative energy business models, and corporate responsibility. Additionally, we introduce the “Energy Innovation Scorecard” (EN.I.SCORE) framework—a comprehensive macro–meso–micro guideline designed to support energy entrepreneurs. Applying this framework to a sample of 89 surveyed and 8 interviewed firms reveals that, especially among microfirms, there is weak integration of strategy–technology–management, limited energy innovation, and poor financial performance prevail—challenges typical of underdeveloped ecosystems. By examining the origins, evolution, and holistic transformation of energy entrepreneurship, and by investigating the selected regional case, this research potentially helps bridge critical gaps in understanding the dynamics of this field.

Keywords

energy entrepreneurship; new globalization; energy transition; sustainability; macro–meso–micro

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Manuscript Information

Received Date	30 December 2024
Revised Date	1 March 2025
Accepted Date	5 March 2025
Published Date	7 March 2025
Submission to First Decision (Days)	21
Submission to Publication (Days)	66
Round of Revision	5
Size of PDF	3562 KiB
Word Count	10847
Page Count	30
Figure Count	5
Table Count	3
Reference Count	111

Editor Decision

Decision	Accept in current form
Comments	Dear authors: This paper has been reviewed by six reviewers in two rounds. Even though the first reviewer still considers the revised manuscript as not acceptable, the other five reviewers recommended acceptance of this paper after revisions. The authors have further followed the second round review report of the first reviewer and provided a point-to-point reply letter. The author did one more round of revision, following the suggestions from an academic editor. Therefore, this revised manuscript can be recommended for publication. Best wishes.
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Journal APC:	2,600.00 CHF
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