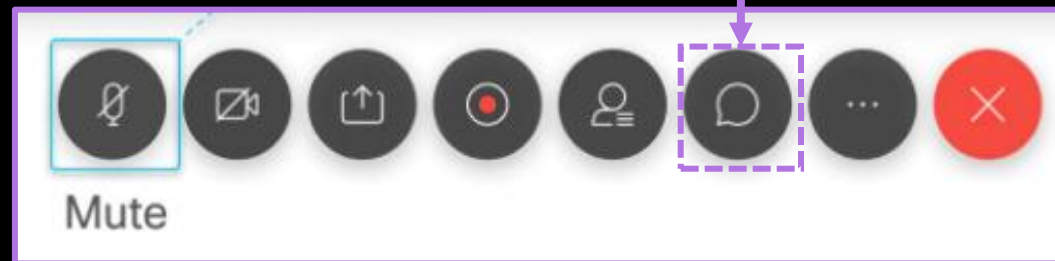


Vă mulțumesc pentru participare

Vom începe în scurt timp

Microfonul dvs. a fost dezactivat pentru a reduce zgomotul de fond.

Întrebările pot fi trimise prin **Chat**.



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Adriana Filip

Senior Manager
Customer Success Consulting

Adriana.Filip@clarivate.com





Web of Science Research Assistant

Adriana FILIP | Martie 2026

Inteligența artificială în mediul academic

Bazat pe o multitudine de surse selectate cu grijă

Susținut de cadre riguroase de testare și evaluare a calității

Ghidat de principii academice și transparență

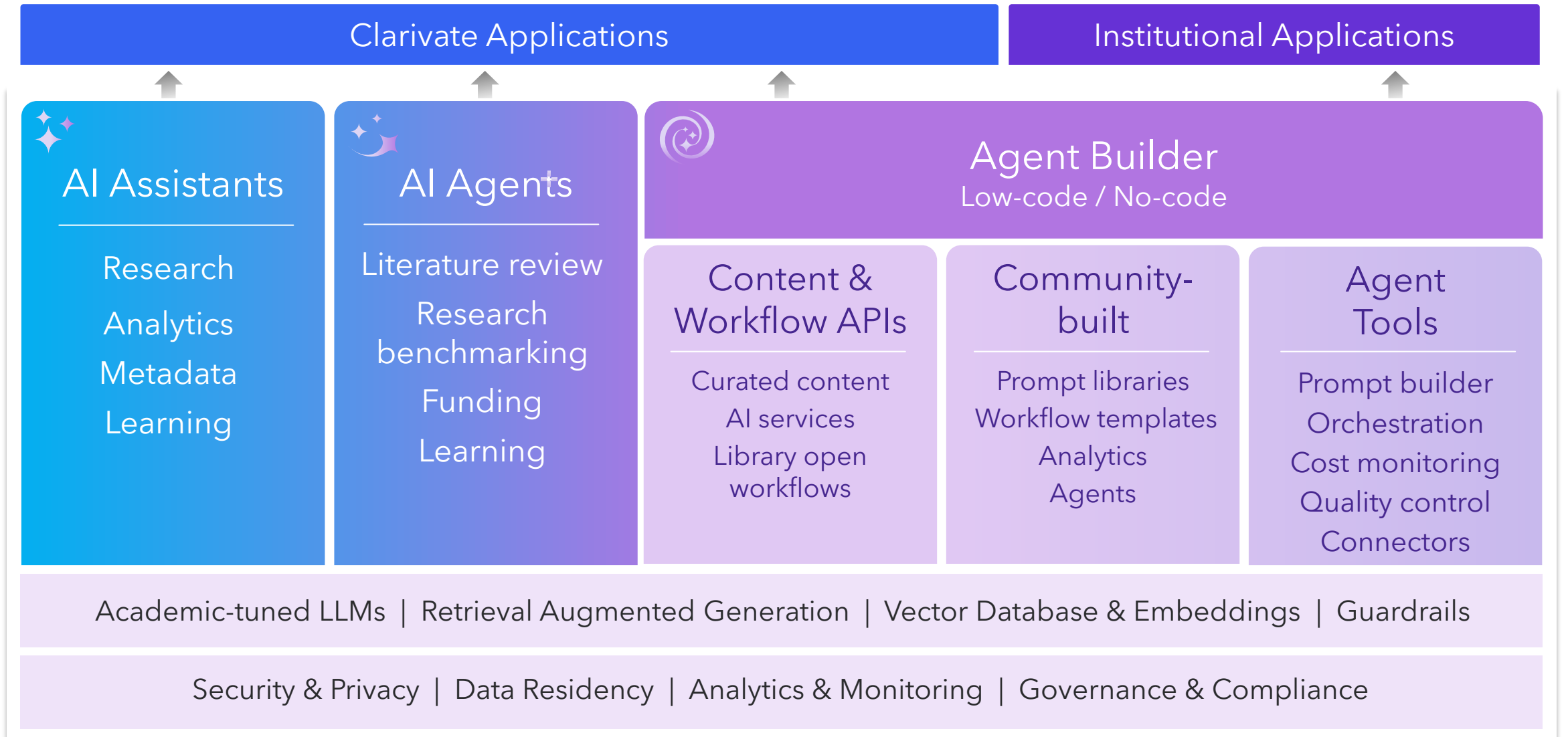


Integrat în fluxurile de lucru din cercetare, învățământ și bibliotecă

Conceput pentru a susține integritatea academică

Dezvoltat în strânsă colaborare cu comunitatea academică

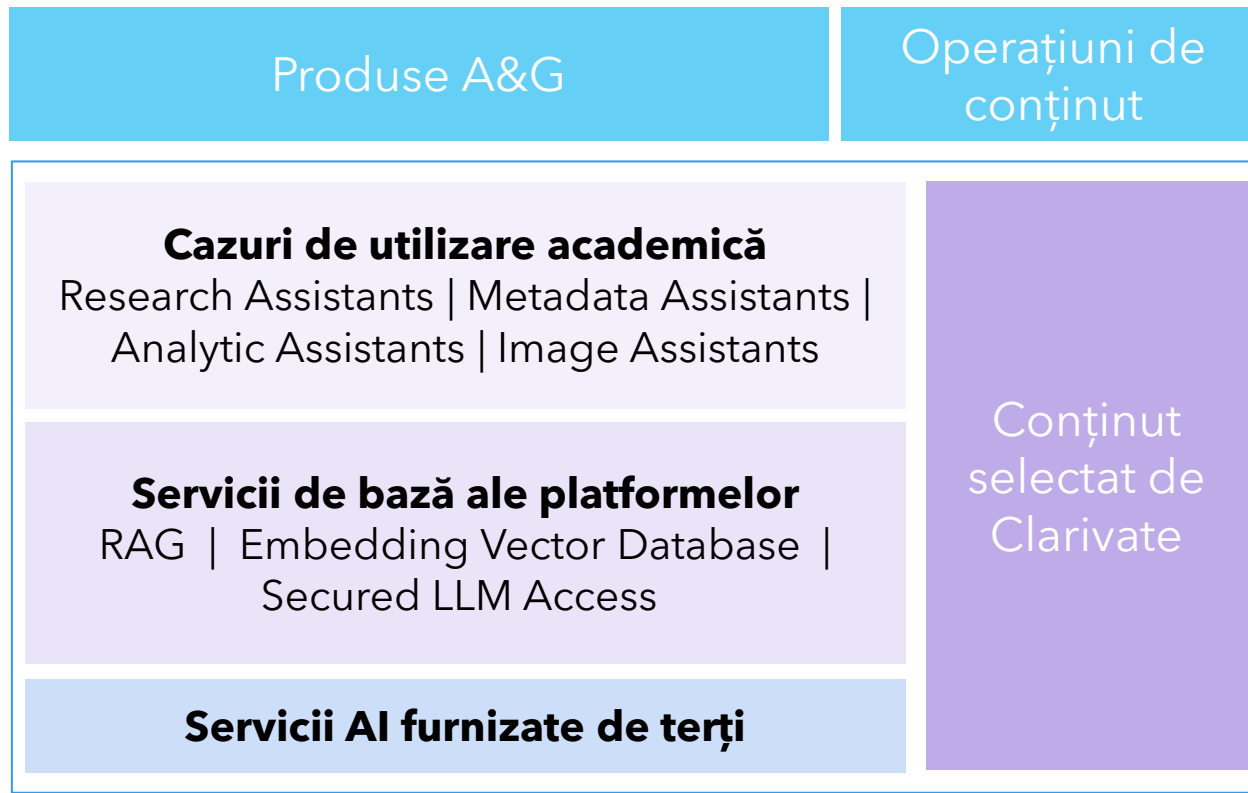
Platforma Clarivate Academic AI



Platforma Clarivate Academic AI

Infrastructura tehnologică

+ Practici și expertiză în domeniul IA



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Metodologia de testare și evaluare



Instrumente pentru programatori



Consultanță tehnică promptă

Cum Web of Science utilizează tehnologia AI

| Tehnologie: | Clasică | IA | IA agentică |
|---|--|---|---|
| | Advanced Search | Smart Search | Research Assistant |
| Nivelul de competență | De la intermediar la expert | Începător până la intermediar | Toate nivelurile |
| Stilul de introducere a căutării | Logică booleană, interogări cu câmpuri | Expresii, cuvinte cheie sau entități | Întrebări și sugestii pentru conversație |
| Moduri de căutare | Numai boolean | Boolean + Semantic | Limbaj natural + sarcini ghidate |
| Utilizarea IA | Fără AI; construirea manuală a interogărilor | Învățare automată, căutare semantică, recunoaștere de entități, corectare automată, suport multilingv | IA generativă, IA agentică |
| Flexibilitatea interogării | Scăzut. Necesită sintaxă precisă și cunoștințe de specialitate | Ridicat. Recunoaște subiectele, autorii, instituțiile; înțelege intenția | Foarte ridicat. Interpretează intenția, ghidează rafinarea interogării, oferă în mod proactiv interogări conexe |
| Optimizat pentru | Precizie, reproductibilitate, revizuri sistematice | Descoperire rapidă, găsirea conținutului asociat, localizarea autorilor și a articolelor | Synthèse littéraire, exploration d'un sujet inconnu, formulation d'hypothèses, analyse sommaire |
| Multilingv | Nu | Da (traducere interogare și rezumat) | Da (introducere și rezumate în mai multe limbi) |
| Vizualizări | Analyze Results | Co-citation maps + Analyze Results | Hărți tematice, grafice de tendințe, rețele de co-citare, rețele de co-autori, diagrame comparative |
| Transparență | Logică complet manuală, transparentă | Utilizatorul poate comuta între rezultate booleene și semantice | AI explică raționamentul și permite utilizatorilor să valideze pașii |



Web of Science Research Assistant

Web of Science Research Assistant

✦ Accelerate Your Research with a Smart Assistant

Choose an agentic AI guide to help you advance your research goals

Topic Explorer

Explore topics, identify related subtopics, and visualize trends.

Literature Review

Synthesize the literature, uncover research gaps and hotspots, and formulate hypotheses.

Find a Journal

Match your manuscript or topic to relevant, trusted journals.

Have a research question?

✦ Ask a research question

Example questions:

How does climate change impact biodiversity?



Who are the most cited authors in genetics?



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- ✓ Îndrumare bazată pe sarcini
- ✓ IA responsabilă

Căutare mai rapidă și mai simplă

- ✓ Limbaj natural, căutare multilingvă
- ✓ Prezentări concise și referențiate în limba de căutare
- ✓ Răspunsuri verificabile pentru transparență
- ✓ Peste 120 de ani de cercetare în domeniu

Clarivate

Web of Science Search Research Assistant

MENU

New chat

Chat history

Today

- How do microfluidics help with ...

August

- top researchers in civil engineer ...
- highly cited on the topic of clim ...

July

- Summarize the paper titled "Fo ...
- What is the effect of meditation ...

June

- search for papers with 20 citatio ...
- effect of exercise on heart healt ...

Before June 2024

- effect of exercise on heart healt ...

2023

- Papers on mitochondrial fusion ...
- What affect does social mediati ...
- what impact have university of ...
- health outcomes compare befo ...
- effective communication strate ...
- voter turnout in highly educatio ...
- how politics affect homelessnes ...

Climate change can lead to the transformation and unsustainable use of natural resources, along with loss, with climate change projected to exacerbate address the interactions between climate change [2]. Biodiversity conservation should focus on the proposing the concept of biodiversity arks to shelt Incorporating climate change into biodiversity ma providing guidance on where and how managem the impacts of climate change on biodiversity is es environmental and societal objectives.

Copy text

View 8 referenced documents

- 1 Water provisioning improvement through payments for ecosystem services
Sone, JS; Gesualdo, GC; (...); Oliveira, PTS
MAR 20 2019 | SCIENCE OF THE TOTAL ENVIRONMENT
- 2 Post-2020 biodiversity targets need to be ambitious
Arneith, A; Shin, YJ; (...); Saito, O
DEC 8 2020 | PROCEEDINGS OF NATIONAL ACADEMY OF SCIENCES
- 3 Biodiversity and Anthropogenic Climate Change: A Synthesis of Knowledge for the Handling of the Challenge
Vidal, LF; Useche, DC and Hernández, S
2013 | AMBIENTE Y DESARROLLO
- 4 Catching up with climate priorities: An evolving approach to biodiversity
Nedopil, C; Larsen, M; (...); Narain, D
2024 | GLOBAL POLICY
- 5 Biodiversity in World Heritage Cultural Landscapes: Communicating Climate Change and Resilience
Samuels, KL
DEC 2017 | CULTURE AGRICULTURE FOOD AND RURAL DEVELOPMENT

Document details

Water provisioning improvement through payment for ecosystem services

Highly Cited

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Authors

Sone, JS; Gesualdo, GC, (...);Olivia, PTS

Journal

SCIENCE OF THE TOTAL ENVIRONMENT
Volume655Page1197-1206
10.1016/j.scitotenv.2018.11.319

Abstract

We assess whether a Payments for Ecosystem Services (PES) programme met its objectives of reducing soil erosion and yielding water in an environmental protected area, the Guariroba River Basin, Midwestern Brazil. We measured rainfall and water discharge throughout 2012 and 2016. During the same period, soil and water conservation practices were performed in the basin, such as: building level terraces and riparian vegetation recovery. We separated streamflow into baseflow and direct runoff, then we evaluated the baseflow index that indicated that groundwater significantly contributes to total flow. Therefore, to investigate the effects on streamflow, we performed a trend analysis in the baseflow time series using the Mann-Kendall test. In addition, we analysed the efficiency of soil erosion regulation practices over time, considering the total payment and the trends found in the baseflow. Whereas precipitation records present a decreasing trend (1 mm month⁻¹), baseflow tends to increase by 0.018 m(3) s⁻¹ in the same period. Our findings show that soil conservation practices performed in the basin increase baseflow and also provide a better resilience to endure extreme events such as drought based on an increase in forest areas and soil conservation practices such as level terrace. (C) 2018 Elsevier B.V. All rights reserved.

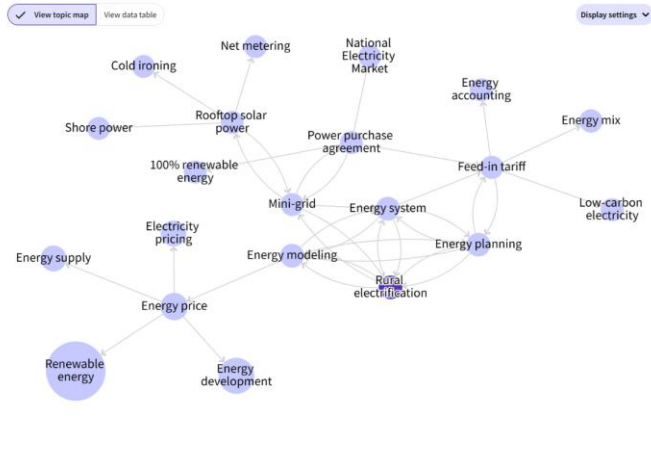
Citation network in Web of Science Core Collection

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|-----------|------------------------------|------------------|
| 43 | 44 | 54 |
| Citations | Times Cited in All Databases | Cited References |

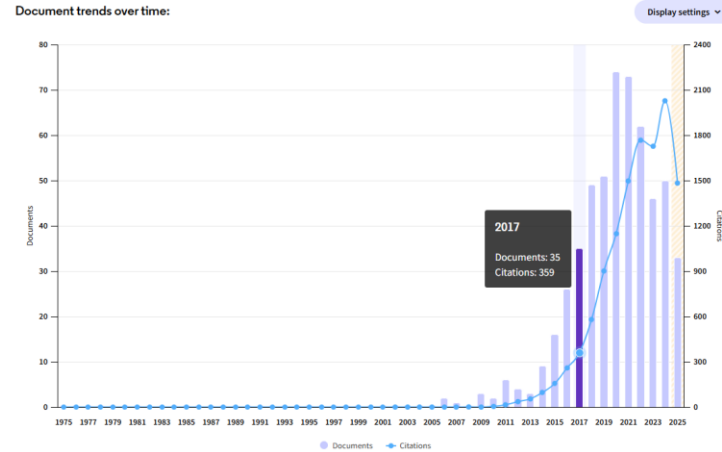
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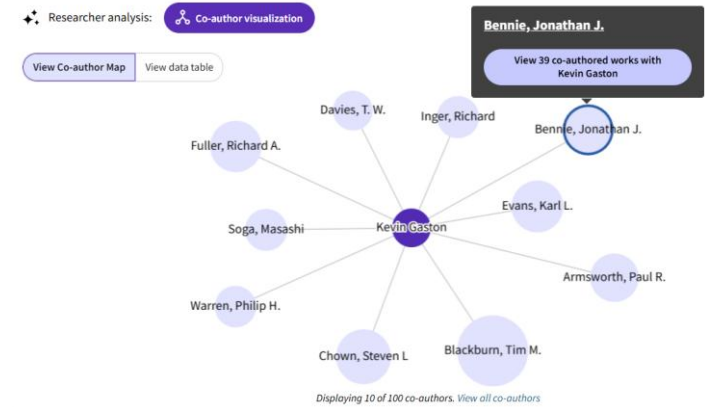
Descoperirea conexiunilor relevante cu ajutorul vizualizărilor dinamice



Explorați subiecte conexe pentru a restrânge sau extinde căutarea



Identificați tendințele dintr-un domeniu pentru a vă ajuta să vă definiți direcția de cercetare



Generați rețele pentru a vizualiza conexiunile dintre persoane și documente

Ghiduri AI agentice în Web of Science Research Assistant

Simplificarea etapelor cheie ale procesului de cercetare



Topic Explorer

Analizați subiectele, aprofundați domeniile conexe și vizualizați tendințele



Literature Review

Sintetizați cercetarea într-un raport structurat, adaptat nevoilor dvs.



Find a Journal

Potrivii manuscrisul sau subiectul dvs. cu reviste relevante și de încredere

Rezolvarea provocărilor legate de analiza literaturii de specialitate prin intermediul IA agentice

Afinați întrebarea și elaborați o strategie de căutare eficientă

Sintezați literatura de specialitate rapid și cu încredere

Identificați lacunele de cunoștințe

Identificați tendințele emergente

Construiți ipoteze care să vă ajute să avansați în domeniul dvs. de activitate.



I have gathered the necessary data for 50 articles related to the economic impacts of microgrids for power in South America. I will now proceed to create a detailed literature review based on these articles. Please give me a moment to compile this information into a comprehensive review.

Literature Review on the Economic Impacts of Microgrids for Power in South America

Introduction

Microgrids are increasingly recognized as a viable solution for enhancing energy access and sustainability in South America. These systems, which integrate renewable energy sources with local energy storage and management, offer potential economic benefits such as cost savings, improved energy security, and economic development in off-grid and rural areas. This review synthesizes recent research on the economic impacts of microgrids in South America, highlighting key findings, common themes, gaps in research, and future research directions.

Common Themes/Key Findings

- **Cost-Effectiveness and Financial Models:** Many studies emphasize the cost-effectiveness of microgrids, particularly in remote areas where traditional grid extension is economically unfeasible. For instance, Aguilar-Jimenez et al. (2025) demonstrated the viability of photovoltaic microgrids with battery storage in rural Mexican communities, achieving significant cost savings compared to grid extension [Aguilar-Jimenez et al., 2025].
- **Integration with Renewable Energy:** The integration of renewable energy sources, such as solar and wind, into microgrids is frequently highlighted as a key factor in reducing operational costs and enhancing sustainability. Ahmad and Zhang (2021) explored the techno-economic feasibility of renewable integration in grid-connected and islanded microgrids, showing substantial cost reductions through optimized renewable energy configurations [Ahmad and Zhang, 2021].
- **Economic Sustainability and Policy Implications:** Studies like those by Arango-Manrique et al. (2021) focus on the role of policy in ensuring the economic sustainability of microgrids. They propose business models that integrate government incentives to attract private investment and support rural electrification efforts in Colombia [Arango-Manrique et al., 2021].
- **Market Dynamics and Energy Trading:** Research by Madler et al. (2023) highlights the economic benefits of peer-to-peer energy trading within microgrids, which can lower electricity costs and enhance economic resilience. This approach is particularly beneficial in decentralized energy markets [Madler et al., 2023].

Gaps in Research

- **Long-term Economic Impact Studies:** While many studies provide short-term economic analyses, there is a lack of longitudinal studies assessing the long-term economic impacts and sustainability of microgrids in South America.
- **Diverse Geographical Settings:** Research predominantly focuses on specific regions, leaving a gap in understanding the economic impacts across diverse geographical settings within South America.
- **Integration with National Grid Systems:** The economic implications of integrating microgrids with existing national grid systems remain underexplored, particularly in terms of regulatory challenges and economic benefits.
- **Comprehensive Policy Evaluations:** There is a need for comprehensive evaluations of existing policies and their economic impacts on microgrid development and deployment in the region.

Conclusion

Microgrids present a promising solution for addressing energy access and sustainability challenges in South America. The economic benefits, particularly when integrating renewable energy sources, are well-documented. However, further research is needed to understand long-term impacts, optimize integration strategies, and evaluate policy frameworks comprehensively.

Potential Hypotheses



1. Integration of microgrids with renewable energy sources significantly reduces operational costs compared to traditional energy systems.
2. Government incentives and supportive policies are crucial for the economic sustainability of microgrids in rural South American communities.
3. Peer-to-peer energy trading within microgrids enhances economic resilience and reduces electricity costs.
4. The economic benefits of microgrids are maximized when integrated with national grid systems, provided regulatory challenges are addressed.
5. Long-term economic impacts of microgrids vary significantly across different geographical and socio-economic contexts in South America.


Referenced Documents

- Aguilar-Jimenez, J. A., Islas-Pereda, S., & Perez de Alva, N. A. (2025). Technical and Economic Analysis of an Off-Grid Microgrid with Solar PV and Battery Storage: A Case Study for Rural Communities in Mexico. *Proceedings of the VII Ibero-American Congress of Smart Cities, ICSC-CITIES 2024*. [Aguilar-Jimenez et al., 2025]
- Ahmad, T., & Zhang, D. D. (2021). Renewable energy integration/techno-economic feasibility analysis, cost/benefit impact on islanded and grid-connected operations: A case study. *Renewable Energy*. [Ahmad and Zhang, 2021]
- Arango-Manrique, A., Lopez-Garcia, D., & Carvajal-Quintero, S. X. (2021). Business Model Proposal for Energy Transition towards Operational and Economic Sustainability for Rural Electrification: Colombian Case. *Sustainability*. [Arango-Manrique et al., 2021]
- Madler, J., Harding, S., & Weibelzahl, M. (2023). A multi-agent model of urban microgrids: Assessing the effects of energy-market shocks using real-world data. *Applied Energy*. [Madler et al., 2023]



Note: Some articles used for background information and context were not directly cited in this review but contributed to the comprehensive understanding of the topic.


Clarificarea și precizarea întrebării cu ajutorul ghidului de analiză a literaturii

 Create a detailed literature review about microgrids for power in south america 

 To create a detailed literature review on microgrids for power in South America, let's first refine your query to ensure we capture all relevant aspects of the topic. Microgrids can encompass various subtopics such as renewable energy integration, technological advancements, economic impacts, policy frameworks, and social implications.

Could you please specify if you are interested in any particular subtopics or aspects of microgrids in South America? This will help in tailoring the search strategy to your interests.

 economic impacts 

 Great! We'll focus on the economic impacts of microgrids for power in South America.

Here's a proposed search strategy to ensure we cover all relevant aspects:

- 1. Main Topic:** Microgrids
- 2. Subtopics:**
 - Economic impacts
 - Cost-benefit analysis
 - Economic sustainability
 - Financial models
 - Economic evaluation
- 3. Region Focus:** South America
- 4. Synonyms and Related Terms:**
 - Decentralized energy
 - Distributed energy systems
 - Renewable energy economics
 - Energy transition economics

Here's how the search query might look:
`(microgrids OR decentralized energy OR distributed energy systems) AND (economic impacts OR cost-benefit analysis OR economic sustainability OR financial models OR economic evaluation) AND (South America OR Latin America)`

Does this search strategy align with your expectations, or are there additional terms or topics you'd like to include?



Agentul nostru AI ajută cu:


- Definirea căutării
- Specificarea parametrilor
- Formularea interogării
- Determinarea rezultatului dorit
- Executarea căutării

Colectarea informațiilor esențiale din reviste cu ajutorul ghidului *Find a Journal*



- **Sincronizați** manuscrisele cu revistele relevante folosind analiza inteligentă a conținutului.
- **Explorați** opțiunile de reviste pe teme atunci când detaliile manuscrisului nu sunt disponibile.
- **Filtrați după criterii de publicare** pentru a viza revistele care îndeplinesc cerințe specifice.




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
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Here are several journals closely aligned with your manuscript topic, including their profiles, impact factors, and subject categories.

Would you like to apply any preferences for your next search?

- Country or region
- Preferred language
- Open access journals only
- Filter by the latest Journal Impact Factor (only the most recent JCR year is supported for filtering)
- Web of Science category (e.g., Environmental Sciences, Development Studies, etc.)
- Publication frequency

Additionally:

- Would you like to see some documents published in any of these journals related to your research area?
- Would you like to see some of the authors who have published in these journals on similar topics?

Please let me know which options you would like to explore next.

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Web of Science Research Assistant

2025/26 roadmap

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Search memory:

Ask follow-up questions and continue the conversation

Researcher profile summarization:

Identify experts via concise summaries of a researcher's achievements

Co-author maps:

Explore author collaboration networks

Literature Review 2.0:

Leverage agentic AI to synthesize the literature

Preprint discovery:

Quickly link out to relevant preprint records

Export options

Download the full report as a PDF and export references as a CSV file

Topic Explorer 2.0:

Leverage agentic AI and enhance your understanding of a topic

Find A Journal 2.0:

Leverage agentic AI to find best-fit journals for your paper

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Improve search relevancy and consistency

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