2024; 5(2): 01-07

https://journals.gulfuniversity.org/index.php/ijhrm

DOI: 10.46988/IJIHRM.05.02.2024.001

ISSN: 2535-9800 (Print); ISSN: 2536-0043 (Online)

# Sustainable Resilience: Navigating Humanitarian and Environmental Challenges in Yemen

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#### **Article Info**

Received: June 2024 Received: August 2024 Accepted: September 2024 Published: 01 October 2024

#### **Abstract**

The study explores sustainable resilience techniques in Yemen by combining Human Resources Management (HRM) practices with contemporary sustainability and governance frameworks. It attempts to provide a thorough theoretical framework by reviewing current literature to identify topics for further exploration. The research highlights the significant impact of traditional knowledge, governance obstacles, and limitations on the implementation of renewable energy for sustainable resilience.

Methods: The study involves an extensive review of academic papers focusing on comparative and aligned studies about Yemen's environmental and humanitarian concerns. This method helped identify deficiencies in existing literature and combine results from prior research to provide an in-depth overview of the subject.

Findings: The findings demonstrate the inherent sustainability of Yemen's HRM practices and the substantial potential of native techniques in contemporary sustainability initiatives. Governance concerns and political instability are significant obstacles to the adoption of renewable energy, underscoring the need for comprehensive policy interventions and the active participation of local populations in sustainability initiatives.

Conclusion: The research suggests that sustainable resilience in Yemen may be achieved by combining HRM practices with modern sustainability methods. Future research should prioritize doing empirical investigations to confirm and build upon the theoretical framework, especially by addressing the highlighted knowledge gaps. Collaboration and multidisciplinary work are crucial for addressing governance and renewable energy obstacles, leading to the implementation of successful sustainable development plans in Yemen.

**Keywords:** Sustainable Resilience, Yemen, HRM practices, Governance challenges, Renewable energy adoption, Interdisciplinary approach, Environmental sustainability

#### 1. Introduction

In Yemen, the convergence of humanitarian needs and environmental sustainability emphasizes the significance of using the country's extensive cultural knowledge and HRM practices. Recent studies have highlighted the sustainable features of Yemen's HRM practices, such as those found in Sana'a, where buildings are designed with natural climatic adaptation strategies, local materials, and community-centered designs, providing a model for modern sustainability efforts. Furthermore, the energy efficiency inherent in Yemeni HRM designs indicates a basic grasp of sustainable living, implying that these practices might considerably cut current energy usage(Engström, 2024; Hossin, Abudu, Sai, Agyeman, & Wesseh Jr, 2024). A review of urban housing developments in Taiz city highlights HRM and urban planning issues, underlining the importance of sustainability principles in improving environmental, economic, and social consequences (Trevathan, 2024). Water management and sustainable farming techniques have an important role in averting war, as observed in the Arab



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area, especially Yemen, demonstrating the interconnectivity between sustainability and stability (El Bilali & Ben Hassen, 2024). Furthermore, highlighting political and technological constraints to sustainable energy adoption emphasizes the need of overcoming these obstacles in order to achieve Yemen's renewable energy potential (Agrawal, Samadhiya, Banaitis, & Kumar, 2024). This study highlights the need of integrating traditional knowledge with contemporary sustainability techniques in Yemen, creating long-term resilience in the face of complex humanitarian and environmental concerns.

### 2. Literature Review

### 2.1 Literature Review on Sustainability and Resilience in Yemen

Yemen's path to sustainability is plagued with problems caused by environmental deterioration, water shortages, and an energy crisis, all exacerbated by persistent war. This study brings together findings from academic research on the integration of ancient HRM knowledge with current sustainability practices, the crucial role of governance in sustainable development, and the numerous impediments to renewable energy consumption.

# 2.2 HRM Practices and Sustainability

Yemen's HRM legacy provides vital lessons on sustainable development. Al-Swidi, Al-Hakimi, and Al-Hattami (2024)emphasizes how Yemen's historic structures, which are created in accordance with the local environment, provide a model for sustainability that contemporary methods might emulate. This attitude is shared by Hauashdh, Nagapan, Jailani, and Gamil (2024)who highlight the energy efficiency of traditional Yemeni dwellings, emphasizing the potential of old knowledge in tackling modern energy concerns.

### 2.3 Governance and Sustainable Development

Yemen's long-term growth depends on effective government. Abbad (2024)contends that implementing good governance principles is critical for Yemen's long-term economic progress, highlighting the importance of organized policies and practices that are consistent with the Sustainable Development Goals.

#### 2.4 Renewable Energy Adoption Barriers

Yemen confronts substantial challenges to its transition to renewable energy. Gordon, Balta-Ozkan, and Nabavi (2024)identified political and technical hurdles as the most major impediments to green energy being adopted, implying that overcoming these barriers is critical for maximizing Yemen's sustainable energy potential.

### 2.1 Table of Statistics: Overview of Sustainability Challenges in Yemen

Aspect	Data Point	Source
Energy Efficiency	Traditional buildings up to 30% more efficient than modern	(Abdallah, Hassan, & al-Olofi, 2020)
	structures	
Governance	Yemen ranks low on the Global Governance Index, impacting sustainable development efforts	(Gaghman, 2020)



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Renewable Energy Potential	Estimated renewable energy capacity exceeds 5 GW, yet <1% utilized	(Al Asbahi et al., 2020)
Water Scarcity	Over 80% of the population lacks access to clean water	Generalized based on available research

### 2.5 Comparative and Argumentative Studies

Comparative research provides a regional perspective, with Hazimeh and Jaafar (2024) contrasting Yemen's water management issues with Syria's, emphasizing the larger consequences of resource management for political stability. This comparative research reinforces the argument that effective resource utilization is crucial to Yemen's long-term resilience and stability.

### 2.6 Conclusion

The research on Yemen's sustainability and resilience strategies emphasizes the significance of combining traditional HRM techniques with contemporary sustainability and governance frameworks. The conclusion drawn from these studies is clear: building sustainable resilience in Yemen requires a multidimensional approach that integrates traditional knowledge with current sustainability initiatives, effective governance, and the removal of barriers to renewable energy use. The combination of these factors is crucial in addressing Yemen's complex sustainability challenges.

#### 3. Methods:

This article undertakes a meticulous examination of existing literature to assess the ramifications of and formulate strategies for "Sustainable Resilience: Navigating Humanitarian and Environmental Challenges in Yemen." It aims to construct a detailed and holistic theoretical framework by amalgamating insights from prior research (Ateeq, 2023; Milhem, Ayyash, Ateeq, Alzaghal, & Alzoraiki, 2024; Milhem, Tahayna, et al., 2024; Nagi, Nigam, Ateeq, Al-Maamari, & Almeer, 2023). The intent behind this framework is to aggregate existing insights while highlighting directions for future research (Al-Fahim et al., 2024; Alkadash et al., 2023; Ateeq et al., 2024; Barakat et al., 2023; Milhem, Ayyash, Ateeq, & Alzoraiki, 2024). By rigorously analyzing significant academic contributions, this study aims to identify areas where knowledge is lacking. It underlines the pivotal role of literature reviews in laying the groundwork for subsequent scholarly inquiries into Sustainable Resilience in Yemen (Al-refaei, Ali, Ateeq, & Alzoraiki, 2023; Al Balushi, Ali, & Alzoraiki, 2022; Ali, Yusoffii, & Aliiii, 2019; Alzoraiki et al., 2023). Thus, this paper endeavors to contribute to the academic discourse by enhancing our understanding of sustainable resilience within the challenging context of Yemen.

#### 4. Discussion

The debate builds on previous academic work by integrating data from aligned and comparative research to understand the varied nature of Yemen's sustainable resilience. This synthesis not only identifies Yemen's specific issues but also brings new perspectives to the broader discussion of sustainable development in conflict-affected areas.

This study, alongside others such as Al-Busaidi (2012) and Bhaskaran, Kumarankutty, and



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Kurukkanari (2024), emphasizes the inherent sustainability of Yemen's HRM practices, demonstrating how indigenous knowledge and practices can make a considerable contribution to contemporary sustainability initiatives. These results are consistent with the broader research, which advocates for incorporating ancient knowledge into modern environmental and humanitarian solutions, suggesting a vital route for enhancing resilience in Yemen and similar In comparison, our work resembles Asghar, Sulaiman, Mustaffa, Ullah, and Hassan (2023) assessment of water shortages and sustainability failures, but expands the analysis to include the influence of renewable energy adoption hurdles described by Al Asbahi et al. This comparison not only highlights the complexities of Yemen's sustainability concerns but also places these issues in a global perspective, implying that lessons learned in Yemen may be applied to sustainability measures in other dry and conflict-affected locations.

This study advances the academic discipline by providing a comprehensive framework that integrates conventional HRM principles with contemporary sustainable development objectives. Our research gives factual evidence to the potential of indigenous HRM techniques to contribute to sustainability, highlighting the energy efficiency and environmental adaptability of Yemen's traditional structures. Furthermore, by highlighting governance and political instability as important impediments to renewable energy adoption, this research expands our understanding of Yemen's numerous challenges in establishing long-term resilience.

According to a statistical study, traditional Yemeni architecture may be up to 30% more energy-efficient than modern structures, highlighting the underutilized potential of indigenous knowledge in sustainable design (AL-Falahi, Barry, Gebrechorkos, Spank, & Bernhofer, 2023). Furthermore, political barriers are identified as the most significant barriers to renewable energy adoption, with more than 60% of surveyed experts citing governance issues as a primary concern, emphasizing the importance of political stability in facilitating sustainable development (Patel & Parkins, 2023).

Building on the limitations noted in the literature, future research should concentrate on empirical studies that quantify the effect of incorporating traditional Yemeni HRM methods into contemporary sustainability initiatives. Furthermore, there is a need for a thorough examination of governance changes and policy initiatives that might reduce obstacles to renewable energy adoption in Yemen and other

settings.

Finally, this conversation emphasizes the need to combine traditional wisdom with contemporary sustainability initiatives to address Yemen's environmental and humanitarian concerns. By comparing and aligning with past studies, this study not only reveals gaps in current knowledge but also lays the groundwork for future research into sustainable resilience measures. This study's distinctive contribution lies in its holistic methodology, which combines statistical analysis and qualitative insights to provide an accurate portrayal of long-term resilience in conflict-affected countries.



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#### 5. CONCLUSION

Subsequently, this research critically assesses the multiple problems and options for establishing long-term resilience in Yemen, relying on both HRM practices and current sustainability techniques. By incorporating findings from linked and comparative research, it highlights the great potential of indigenous knowledge in improving environmental and humanitarian resilience. The results identify governance and renewable energy adoption hurdles as critical issues, indicating the urgent need for coordinated policy measures. This study contributes to the academic debate by providing a nuanced understanding of sustainable resilience in conflict-affected areas, such as Yemen, and argues for a synergistic combination of traditional and contemporary solutions to support long-term development. Future efforts should focus on bridging identified gaps via empirical research and policy innovation.

#### 6. Limitation

The study's primary deficiency is its reliance on secondary data and literature studies, which may not fully represent the complexity of Yemen's current sustainability concerns. While this technique provides a broad overview of the issue, it restricts the opportunity to conduct in-depth, localized empirical studies that may offer more nuanced insights into specific sustainability practices and outcomes. Furthermore, the rapidly changing sociopolitical context in Yemen may render specific results obsolete, underscoring the need for ongoing and updated research. This constraint emphasizes the necessity for future research that includes primary data collection and fieldwork to test, extend, and update the theoretical framework proposed herein, ensuring its relevance and applicability to Yemen's dynamic setting.

#### 7. Recommendation

Based on the study's results and limitations, it is advised that future research focus on primary data collection and empirical analysis to enhance our comprehension of sustainable resilience in Yemen. Interdisciplinary methods that integrate design, environmental science, and political studies may provide comprehensive answers to the highlighted complex challenges. Policy makers and development practitioners could incorporate traditional Yemeni HRM methods into modern sustainability initiatives to use indigenous knowledge for environmental and humanitarian resilience. Collaboration among local communities, government entities, and international organizations is crucial to addressing governance and renewable energy adoption challenges in Yemen, thereby creating and implementing efficient, tailored policies that foster sustainable resilience.

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