

Exploring Green Human Resources, Corporate Social Responsibility, and Internal Organization Sustainability Strategy

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Abstract: The genesis of Corporate Social Responsibility (CSR), often interchangeably referred to as corporate citizenship or sustainability, can be traced back to the foundational 1987 Brundtland Report, a pivotal document commissioned by the United Nations. This report catalyzed a paradigm shift, positioning CSR as a multidimensional construct that necessitates the harmonious integration of an organization's economic, legal, ethical, and philanthropic imperatives. Over time, CSR has evolved into a framework that aligns corporate strategies, operations, and behaviors with the overarching goals of fostering sustainability, encapsulated in the triadic principles of planet, people, and profit. This paper delves into the intricate dynamics that compel organizations to embrace environmentally conscious or "green" organizational cultures. Research suggests that corporate entities often undergo transformative shifts in their philosophies to adapt to the demands of an ever-evolving global environment, heavily influenced by the imperatives of corporate sustainability initiatives. These green frameworks reconceptualize the strategic role of human resources, positioning it as a pivotal driver in cultivating organizational cultures that prioritize innovation and differentiate technical competencies. By embedding sustainability at the core of their operational ethos, organizations are not only enhancing their adaptability but are also fostering an ecosystem conducive to technological advancement and innovative excellence.

Keywords: Corporate Social Responsibility (CSR), organizational sustainability, green organizational cultures, green human resources

JEL Codes: M14, Q56, Q01, L21, O13

Introduction

The unprecedented surge in global industrial activities has precipitated a profound escalation in the consumption of natural energy resources and exacerbated global warming over recent decades (Shuja et al., 2017). Concurrently, technological advancements have introduced a transformative dimension to modern human lifestyles, redefining societal paradigms (Shuja et al., 2017). The proliferation of computing and information technology services has significantly increased energy demands, compelling organizations to reevaluate their environmental responsibilities alongside organizational climate and cultural frameworks (Shuja et al., 2017). The onset of the COVID-19 pandemic in early 2020 profoundly disrupted global economies, with corporations and their extensive workforce struggling to navigate heightened consumer demands. As economic imperatives dominate corporate agendas, many organizations have been compelled to furlough employees while prioritizing digital transformation and innovation as cost-saving imperatives (Cicea et al., 2022).

Amid the pandemic's pervasive disruptions, businesses have been pressed to swiftly adapt to emerging technologies, data management innovations, and significant organizational changes. Research underscores the importance of leveraging advancements to broaden organizational perspectives, identify existing knowledge gaps, draw insights from historical analyses, and align strategic contributions with broader cultural imperatives (Cicea et al., 2022; Susanto, Nadiroh, & Sigit, 2021). As technological developments accelerate, organizations face mounting pressure to address global environmental concerns related to

corporate operations (Gollnow, 2014; Shephard, 2016). Shrivastava (1994) aptly noted, “Organizations are a primary instrument by which humans impact their natural environment” (p. 705). The legitimacy of environmental consciousness has emerged as a critical determinant of safety, security, and performance within organizational cultures (Susanto et al., 2021). Environmental stewardship is increasingly regarded as an asset, driving organizations to innovate while fostering conceptual agility and relational synergies (Cicea et al., 2022; Prince & Forr, 2021). However, the energy-intensive nature of information technology operations poses significant environmental challenges. Butler (2011) reported that greenhouse gas (GHG) emissions attributable to IT operations rose from 2% in 2007 to 6% in 2020, reflecting the rapid expansion of data centers and server infrastructures. These facilities require substantial energy for both operation and cooling, with the demand escalating as networks and storage systems proliferate (Shephard, 2016; Gollnow, 2014). Maintaining these infrastructures around the clock not only consumes enormous energy resources but also imposes escalating financial costs (Gollnow, 2014; Shephard, 2016).

Despite these pressing environmental challenges, scholarly discourse on the role of human resource management in fostering systemic sustainability-driven transformations in technical organizations remains limited. Emerging research emphasizes the need to prioritize human capital in cultivating sustainable organizational cultures, yet practical models for embedding sustainability strategies within HR functions are scarce (Jackson & Seo, 2010). As green organizational cultures gain traction, corporations must embrace resource-conscious innovations to remain viable and competitive in evolving marketplaces (Susanto et al., 2021).

The concept of green human resources (Green HR) emerges as a strategic response to the environmental challenges posed by industrial growth, technological advancements, and the growing demand for sustainability. Green HR refers to the integration of environmentally conscious practices within the human resource management (HRM) framework, emphasizing the alignment of organizational goals with sustainability imperatives. Green HR encompasses a set of practices and policies designed to foster environmental stewardship, reduce the ecological footprint of corporate operations, and build a sustainability-driven organizational culture. This approach positions human capital as a pivotal driver for embedding green values into the organizational fabric.

Consequently, the development of organizational strategies centered on sustainability has become a vital focus for technical enterprises. The field of strategic management, from which much of this understanding originates, traditionally embraced normative and rational models, viewing strategy as a calculated path toward predefined objectives (Mintzberg, 1988). Historically tied to military concepts, strategy has been synonymous with deliberate, goal-oriented actions aimed at achieving desired outcomes, such as fostering sustainable cultural transformations within organizations (Ahmad, 2015). This perspective underscores the imperative for modern organizations to integrate sustainability into their strategic frameworks, ensuring alignment with environmental imperatives and long-term operational resilience.

The Focus of this Research

The relentless expansion of global industrial activity has produced profound dual effects on both work-life equilibrium and the broader human environment (Shuja et al., 2017). Foremost, the escalating global population has precipitated an accelerated depletion of natural energy resources, exerting immense pressure on planetary reserves (Shuja et al., 2017). Concurrently, industrial growth has significantly elevated carbon emissions, compelling organizations to prioritize clean energy efficiency. These challenges underscore the critical importance of cultivating organizational cultures that champion sustainability, particularly within green enterprises. As carbon emissions intensify, the attendant repercussions, including escalating disease rates, global

warming, and ozone layer depletion, necessitate a paradigm shift in organizational priorities (Shuja et al., 2017).

Organizational culture, a cornerstone of institutional sustainability, is shaped by an interplay of internal and external determinants. Internally, key factors include employees, leadership, competence and support, operational focus, and the allocation of resources and technology (Cicea et al., 2022). Managing these dimensions requires tools to articulate a cohesive organizational vision. Employees, representing the human capital of organizations, bring distinct personality traits and capabilities that contribute to institutional dynamics (Cicea et al., 2022; Susanto et al., 2021). While organizations cannot exercise absolute control over individual actions, they can implement guidelines and metrics to establish robust internal controls (Cicea et al., 2022). Leadership, intrinsically linked to these internal dynamics, plays a pivotal role; ineffective leaders can erode organizational culture, while exemplary leadership fosters alignment and adherence to behavioral expectations (Susanto et al., 2021).

Competence and support further underpin organizational success, necessitating comprehensive training programs that equip employees to meet defined benchmarks (Cicea et al., 2022). Similarly, the operational focus, or activity field, involves aligning individual contributions with the organizational mission to ensure collective efficacy. Moreover, the strategic deployment of resources and technology has emerged as a critical determinant in the post-COVID-19 landscape, where resource-sharing inefficiencies can precipitate workforce discontent and impede cultural evolution.

Externally, political, economic, industrial, social, and technological factors profoundly shape organizational culture. Economic considerations have gained heightened salience in the pandemic era, where cost-cutting measures tied to production levels, consumer spending, and shifting needs disrupt daily operations (Cicea et al., 2022). These economic fluctuations often entail regressions as societal shifts compel organizations to recalibrate their sustainability strategies (Daryono, Wahyudi, & Suharnomo, 2022).

Industrial factors introduce another layer of complexity, as competitive pressures influence decision-making and impact long-term viability through supply-demand dynamics. Social factors, meanwhile, can pose existential challenges, with shifting societal norms and viral archetypes jeopardizing organizational reputation, consumer trust, and operational continuity (Daryono et al., 2022). Organizations attuned to social responsibility must integrate such elements into their cultural frameworks to maintain relevance and ensure success (Cicea et al., 2022).

Finally, technological factors represent a transformative force, such as continuous innovations, system upgrades, and cutting-edge advancements drive organizational adaptation and foster sustainable growth. The convergence of these internal and external influences necessitates an agile, responsive organizational culture, capable of navigating complexity while remaining steadfast in its commitment to sustainability and resilience. Through the deliberate cultivation of such cultural frameworks, organizations can effectively harmonize economic imperatives with environmental stewardship, ensuring their endurance in a dynamic global landscape.

The Aim of this Research

The role of human resources as a catalyst for fostering sustainable organizational culture is both significant and indispensable. Despite the growing recognition of sustainability as a strategic imperative, a discernible gap exists within the academic literature regarding the mechanisms and methodologies for embedding sustainability into the cultural fabric of technical organizations. This article seeks to bridge this scholarly void by elucidating the critical interplay between sustainability and organizational culture, with particular emphasis on the transformative potential of leadership.

At the core of this discourse is the concept of transformational leadership, which emerges as a pivotal driver of cultural evolution within organizations. Transformational leadership transcends conventional managerial paradigms, operating as a multidimensional construct that influences not only organizational culture but also key facets of employee engagement and innovation. Through its foundational pillars, intellectual stimulation, individualized consideration, idealized influence, and inspirational motivation, transformational leadership cultivates an environment conducive to progressive cultural shifts (Cicea et al., 2022).

Intellectual stimulation, for instance, challenges traditional ways of thinking, encouraging employees to adopt innovative approaches that align with sustainability objectives. Individualized consideration underscores the importance of recognizing and addressing the unique needs and aspirations of employees, thereby fostering a sense of personal investment in organizational goals. Idealized influence positions leaders as role models who exemplify the principles of sustainability, inspiring trust and commitment among their teams. Finally, inspirational motivation galvanizes the workforce, instilling a shared vision that unites organizational members in pursuit of a sustainable future (Cicea et al., 2022). By highlighting these interconnections, this article not only addresses a critical research gap but also underscores the transformative capacity of human resources and leadership in reshaping organizational culture to prioritize sustainability. This exploration lays a foundation for future studies aimed at operationalizing sustainability initiatives and measuring their long-term impact within technical organizations.

Novelty, Importance, and Originality of the Inquiry

The inquiry into the intersection of sustainability, organizational culture, and human resource management (HRM) is both novel and essential in addressing the complex challenges posed by industrialization, technological expansion, and global environmental concerns. The originality of this research lies in its focus on embedding sustainability within HRM practices, a domain that has traditionally been underexplored in scholarly discourse. While sustainability has been extensively studied in environmental sciences and strategic management, its integration into the operational and cultural frameworks of organizations, particularly through human capital strategies, remains a relatively untapped area. This research seeks to bridge this gap by investigating the mechanisms through which human resources can drive systemic, sustainability-focused transformations in organizations, emphasizing the critical role of leadership and cultural alignment.

The importance of this inquiry is underscored by the escalating environmental pressures confronting organizations today. As technological advancements and industrial activities amplify energy consumption and greenhouse gas emissions, the role of organizational culture in fostering sustainable practices becomes increasingly vital. By examining how human resources can cultivate sustainability-driven cultural transformations, this study not only addresses a critical research void but also offers actionable insights for organizations striving to balance economic imperatives with environmental stewardship. Furthermore, this research contributes to the broader discourse on organizational resilience and adaptability in the face of global challenges, such as those highlighted by the COVID-19 pandemic. Through its innovative approach and strategic implications, this study lays the groundwork for a more comprehensive understanding of how organizations can harmonize operational objectives with sustainability goals, ensuring long-term viability and societal relevance.

Method

The research utilized a rapid literature review methodology to systematically analyze and synthesize relevant literature. This approach, designed to efficiently gather and evaluate a broad range of academic and non-academic sources, ensured the inclusion of high-quality evidence

within a condensed timeframe. The review process began with the identification of key search terms derived from the study's conceptual framework. These terms included "Green Human Resources," "Green IT," "Organizational Change," "Knowledge Management," "Employee Engagement," and "Organizational Sustainability Strategy." Boolean operators such as "AND," "OR," and "NOT" were employed to refine search queries and optimize retrieval accuracy.

The literature search encompassed a diverse array of databases and platforms to capture both peer-reviewed articles and grey literature from the last decade. The databases, along with their hosting platforms, included ABI Inform Complete (ProQuest), ResearchGate, Academia.edu, Business Source Premier (EBSCO), Google Scholar, ACM Digital Library, the European Reference Index for the Humanities and Social Sciences (ERIH), Baidu Scholar, and the Directory of Open Access Journals (DOAJ). Each database was selected based on its relevance to the topics under investigation and its capacity to provide interdisciplinary insights.

To ensure a rigorous inclusion strategy, the review incorporated predefined criteria for selecting articles. Peer-reviewed journal articles, conference proceedings, white papers, and organizational reports published within the last ten years were prioritized. Only sources available in English or translated into English were included to maintain consistency. Articles were assessed based on their relevance to the themes of sustainability, organizational culture, and green initiatives, with a particular focus on their empirical contributions and methodological robustness.

The rapid review method offered several advantages. Its streamlined approach facilitated the timely identification of high-quality sources while minimizing duplication of effort. The inclusion of grey literature broadened the scope of the review, capturing valuable perspectives that might not have been available in traditional academic databases. This comprehensive strategy ensured that the analysis incorporated a diverse range of viewpoints and reflected the latest advancements in the field. By employing this method, the study achieved a nuanced understanding of how sustainability strategies intersect with organizational culture and leadership practices, paving the way for actionable recommendations.

Green Human Resources and Sustainability

Green human resources and the integration of advanced technologies represent both an emergent global sector and a vital support system for businesses across industries (Shuja et al., 2017). The high-energy demands of the IT sector are a significant contributor to global energy consumption, accounting for an estimated 2.4% to 3% of worldwide electricity usage, with an alarming 20% annual growth rate (Shuja et al., 2017). Furthermore, the IT industry contributes approximately 2% to 2.5% of global carbon emissions, equivalent to 0.86 metric gigatons of carbon dioxide (Shuja et al., 2017). These statistics underscore the critical need for energy-efficient computing systems, necessitating a redefinition of existing practices, algorithms, and technologies to achieve energy sustainability and reduce environmental impact (Shuja et al., 2017). As a pivotal area of research, green computing has far-reaching implications for human resources and organizational climates, influencing strategic planning and operational efficiency (Shuja et al., 2017).

Human resources (HR) can play a transformative role in leading organizational shifts in priorities and focus, particularly in addressing the pressing need for sustainability and energy efficiency as outlined in the quoted text. The integration of green human resources and advanced technologies provides an opportunity for HR to not only support but also drive the alignment of organizational goals with sustainable practices. This leadership potential is evident in three critical areas: redefining cultural frameworks, addressing employee needs, and fostering adaptability. Human resources departments are uniquely positioned to influence and recalibrate organizational culture to prioritize sustainability. As the IT sector continues to place significant demands on global energy resources, accounting for 2.4% to 3% of

electricity consumption and contributing up to 2.5% of global carbon emissions, HR can guide organizations in embracing energy-efficient practices and technologies (Shuja et al., 2017). By integrating green computing principles into strategic planning, HR can champion initiatives that reduce carbon footprints, promote energy sustainability, and align operational practices with the broader mission and vision of the organization. This redefinition of culture necessitates a deliberate shift from static, outdated practices to innovative approaches that incorporate sustainability into daily operations and long-term goals.

An essential aspect of HR's leadership role is addressing the emotional and psychological well-being of employees while fostering a sense of purpose and inclusion. As the quoted text highlights, many organizations fail to adequately support their employees due to bureaucratic inertia and competing priorities, which can result in dissatisfaction and disengagement (Al-khrabsheh et al., 2022). HR can counteract these trends by implementing comprehensive support systems, such as training programs for green initiatives and clear communication of sustainability goals. By ensuring that employees feel valued and connected to the organization's mission, HR can cultivate a cohesive and motivated workforce that actively contributes to sustainability efforts.

Dynamic environments and unexpected challenges, such as external pressures or crises, require organizations to be flexible and resilient. Human resources can lead the way in creating adaptable frameworks that enable businesses to respond effectively to change. By emphasizing inclusivity and reducing inherent biases in organizational culture, HR can foster an environment that encourages innovation and transformative thinking (Al-khrabsheh et al., 2022). This adaptability is particularly crucial when sustainability objectives do not align with existing structures. HR can implement crisis management and recovery plans that incorporate sustainability metrics, ensuring that the organization remains agile and forward-thinking even in turbulent times (Daryono et al., 2022).

The role of HR extends beyond operational support to encompass strategic leadership. HR can develop and monitor metrics that measure the effectiveness of sustainability initiatives, using these insights to refine processes and align them with organizational goals. Furthermore, HR can act as a feedback conduit, facilitating communication between employees and leadership to identify gaps in sustainability efforts and address them proactively (Al-khrabsheh et al., 2022). By doing so, HR ensures that the organization remains committed to its sustainability objectives while continuously evolving to meet new challenges.

Change Management

Organizational change is a multifaceted and often fraught process, as highlighted by research underscoring the challenges of setting objectives, engaging stakeholders, and effectively implementing change initiatives (Burnes & Jackson, 2011; Kotter & Schlesinger, 2008; Roberts, 2017). Despite its necessity, change frequently falters, with approximately 70% of initiatives failing due to an inability to address resistance and embed cultural shifts (Burnes & Jackson, 2011). Central to overcoming these obstacles is the role of leadership and human resources (HR), which possess significant influence over employee acceptance and tolerance of change (Swearingen, 2019).

Leadership acts as a linchpin in the success of organizational change. Employees tend to mirror the attitudes of their managers, making the receptivity of top management to change pivotal for broader acceptance (Hwang et al., 2015). Effective communication is another cornerstone of successful change management. Clear, concise messaging facilitates understanding and reduces anxiety, while fostering dialogue between change managers and employees creates a sense of inclusion and mitigates resistance (Heckmann et al., 2016; Swearingen, 2019). Communication serves as both an inspirational and reinforcement tool, ensuring that employees remain engaged throughout the transformation process (Kuster et al.,

2015). Power dynamics within an organization further complicate change efforts. The distribution of authority and influence, both formal and informal, plays a critical role in shaping employee attitudes and behaviors (Kanter, 2008). Formal power, often associated with visible leadership roles, enables decision-making authority, while informal power stems from networks of influence that can galvanize support for change (Kanter, 2008). Managers must identify key influencers within the organization to secure buy-in and navigate the complex interplay of hierarchical and relational power structures (Kuster et al., 2015).

Kurt Lewin's Change Management Model

Kurt Lewin's Change Management Model offers a three-step framework—unfreeze, change, and refreeze—that is particularly relevant to the implementation of sustainability initiatives (Dzage, 2023). HR departments act as facilitators of cultural transformation by "unfreezing" existing norms and introducing new sustainability-focused behaviors and values. This involves preparing employees for change through training, communication, and the promotion of green initiatives. The "change" phase involves embedding resource efficiency and sustainable practices into operational processes. Finally, the "refreeze" phase ensures that these practices are institutionalized, solidifying a culture of environmental responsibility that persists over time.

Social Exchange Theory

Social Exchange Theory, which emphasizes reciprocal relationships between individuals and organizations, explains the critical connection between HR strategies, employee engagement, and corporate social responsibility (CSR) (Albasu & Nyameh, 2017). Employees are more likely to engage with sustainability initiatives when they perceive that their organization values their well-being and aligns with their personal values. HR's role in fostering a culture of reciprocity, through meaningful CSR activities, recognition programs, and opportunities for participation, enhances employee commitment and motivation. This reciprocal relationship fosters a workforce that is both engaged and invested in the organization's sustainability goals (Albasu & Nyameh, 2017).

The Competing Values Framework

The Competing Values Framework (CVF) provides insight into how organizations balance competing priorities such as flexibility, control, internal focus, and external focus (Prutina, 2015). In the context of sustainability, HR serves as a mediator between these dimensions. For example, HR may implement flexible training programs to foster innovation while maintaining structured systems for tracking energy use and carbon reduction. By navigating these competing values, HR aligns organizational culture with sustainability goals, creating a balanced and adaptable environment conducive to long-term success.

Resource-Based View (RBV)

The Resource-Based View emphasizes the strategic importance of leveraging internal resources, such as human capital and knowledge systems, for competitive advantage (Gallego-Álvarez et al., 2011). Green human resources strategies exemplify the RBV by positioning employees as key assets in achieving sustainability objectives. By providing green training and fostering a culture of innovation, HR maximizes the potential of human capital to drive resource efficiency, energy conservation, and environmental stewardship. This strategic alignment of resources with organizational goals ensures that sustainability becomes a core component of the organization's competitive advantage.

Kanter (2008) proposed six conditions essential for empowering employees during change: opportunities for advancement, access to information, access to support, access to resources, formal power, and informal power. These structural elements enable leaders to

mobilize resources effectively, aligning organizational goals with the cultural shifts required for successful change initiatives.

Employee engagement is indispensable for successful organizational change. Resistance often stems from a misalignment between change initiatives and the values, attitudes, and principles of employees (Burnes & Jackson, 2011). Creating a shared vision and involving employees in shaping the change process can positively influence attitudes and foster readiness for transformation (Rafferty et al., 2013; Roberts, 2017). As Roberts (2017) emphasized, the success of organizational change hinges on the willingness of individuals to adjust their behaviors, making participation and personal transformation fundamental.

Human resources play a vital role in aligning strategies and policies to encourage sustainability and cultural adaptation. By fostering collective problem-solving, knowledge sharing, and innovative practices, HR can facilitate the emergence of environmentally responsible values and behaviors (Ahmad, 2015). The creation of new roles and responsibilities centered on sustainability further underscores HR's strategic importance in guiding organizations toward transformative change.

Effective strategy development and implementation require seamless communication and collaboration across all organizational levels (Quinn, 1978). HR departments are uniquely positioned to act as intermediaries, facilitating knowledge sharing and strategic alignment. This includes designing job roles that integrate sustainability into core functions such as IT, operations, and employee management (Ahmad, 2015). Collaborative, team-oriented approaches that prioritize proactive and innovative problem-solving have proven most effective in achieving sustainability goals (Harris & Crane, 2002).

The Pivotal Role of Human Resources in Cultivating Organizational Sustainability

The human resource (HR) department holds a critical position in shaping an organization's sustainability culture, directly aligning with its strategic objectives (Ahmad, 2015). Through intentional practices embedded at every stage of talent management, HR can effectively harmonize employees' actions with the organization's corporate social responsibility (CSR) strategy, particularly in advancing sustainability (Ahmad, 2015). The concept of green human resources encapsulates the use of every employee interaction point to advocate for sustainable practices, elevate awareness, and foster employee commitment to environmental stewardship (Ahmad, 2015). These approaches span recruitment messaging, hiring methodologies, training programs, employee development initiatives, performance evaluation systems, and reward structures, all designed to integrate sustainability and eco-consciousness into the organizational ethos (Ahmad, 2015). For instance, HR can promote sustainability by adopting paperless processes in areas such as recruitment, benefits administration, training, and internal communications, thereby reducing paper consumption and mitigating its environmental impact (Ahmad, 2015). This demonstrates how operational decisions, rooted in green HR principles, translate sustainability goals into actionable practices.

Strategic Decision-Making Across Organizational Systems

The successful implementation of sustainability-oriented HR strategies necessitates deliberate and informed decision-making at key junctures within the organizational framework (Ahmad, 2015). In modern technical organizations, decision-making operates at both macro and micro levels, each contributing uniquely to organizational performance and overarching strategy (Gollnow, 2014; Mintzberg, 1988). Green HR initiatives form a crucial subset of broader CSR programs and are characterized by two primary components: environmentally responsible HR practices and the preservation of intellectual capital (Ahmad, 2015). Recruitment practices that underscore sustainability through targeted messaging and initiatives are pivotal in reinforcing the organization's commitment to eco-friendly values and operations (Ahmad, 2015).

Leveraging Knowledge Management for Green Training and Development

The role of HR extends beyond traditional functions to include the stewardship of knowledge systems that enhance organizational processes (Milton & Lambe, 2016). While information technology systems generate vast reservoirs of knowledge and expertise, this resource is frequently underutilized in advancing sustainability objectives (Milton & Lambe, 2016). Developing robust knowledge management systems is imperative for enabling the dissemination of information and fostering green training and development initiatives. Green training and development encompass structured activities and programs aimed at equipping employees at all levels with the requisite knowledge, skills, and understanding to engage with sustainability initiatives within their roles and responsibilities (Ahmad, 2015). This process emphasizes the cultivation, sharing, and transfer of knowledge related to waste reduction, energy conservation, recycling, and other environmental improvements. Such initiatives empower employees to contribute meaningfully to organizational efforts aimed at sustainability, while simultaneously fostering a culture of environmental innovation and responsibility (Ahmad, 2015).

Creating a Foundation for Green Training and Knowledge Systems

For green training to thrive within an organization, it requires a dual commitment from HR and senior leadership to support the establishment and maintenance of comprehensive knowledge management systems (Ahmad, 2015). These systems serve as the backbone for integrating sustainability into business processes, enabling employees to identify opportunities for environmental improvement and actively participate in achieving them. By bridging the gap between organizational strategy and employee engagement, HR can act as a transformative force, driving sustainability through a well-structured, knowledge-driven approach. Human resources serve as a cornerstone in embedding sustainability within an organization's cultural and operational frameworks. Through the adoption of green HR practices, strategic decision-making, and knowledge management systems, HR can facilitate the development of an eco-conscious workforce aligned with CSR objectives. This multidimensional approach not only advances environmental goals but also strengthens the organization's overall strategy, ensuring long-term success in an increasingly sustainability-driven global landscape.

Knowledge Management Systems

Knowledge management (KM) is defined as “the process by which an organization creates, captures, acquires, and uses knowledge to support and improve the performance of the organization” (Kinney, 1998, p. 2). This concept extends beyond simple data handling to include the strategic exploitation and development of knowledge assets to advance organizational objectives (Metaxiotis et al., 2005). Effective KM involves a deliberate integration of practices and systems designed to optimize the utilization of knowledge for achieving organizational goals (Dalkir, 2017; Milton & Lambe, 2016). Organizations that thrive in competitive and dynamic environments are often those that excel in creating new knowledge, disseminating it effectively, and embedding it into innovative technologies and products (Metaxiotis et al., 2005).

Tacit and Explicit Knowledge: Foundations of Knowledge Management

The dual nature of knowledge, tacit and explicit, is central to KM processes. Tacit knowledge, characterized by its personalized and experiential nature, often remains undocumented and is transmitted informally through interpersonal interactions (Dalkir, 2017; Milton & Lambe, 2016). In contrast, explicit knowledge is codified, formalized, and easily shared through structured systems such as manuals and databases. Effective KM strategies require mechanisms to facilitate the conversion of tacit knowledge into explicit forms and vice versa, ensuring accessibility and utility across the organization (Dalkir, 2017). Nonaka and Takeuchi (1995) describe knowledge construction as a five-step process, beginning with the sharing of tacit knowledge among

individuals and culminating in the dissemination of validated, actionable knowledge throughout the organization. This cyclical process highlights the dynamic interplay between individual expertise and collective organizational understanding.

Knowledge Systems and Organizational Integration

The conceptual framework of knowledge systems provides a comprehensive lens for examining how knowledge is created, shared, and utilized within organizations. This approach emphasizes the institutionalization of KM processes that shape behavior and decision-making in complex environments (Holzner & Marx, 1979; Dalkir, 2017). These processes, encompassing the creation, organization, distribution, and application of knowledge, are critical for fostering a sustainable culture within organizations (Milton & Lambe, 2016). The effective implementation of knowledge systems requires robust strategies that align with organizational objectives while promoting sustainable practices. Human resources (HR) departments play a pivotal role in designing and executing these strategies, functioning as both enablers and regulators of KM practices (Ahmad, 2015).

Codification and Personalization: Dual Strategies for Knowledge Management

Hansen et al. (1999) identify two primary strategies for KM: codification and personalization. Codification emphasizes the structured documentation and storage of explicit knowledge, enabling its reuse across various organizational contexts. This “people-to-document” approach relies heavily on technological infrastructure to categorize, store, and retrieve knowledge efficiently (Milton & Lambe, 2016). For instance, organizations employing a codification strategy invest in databases, procedural libraries, and policy repositories to standardize decision-making and improve operational consistency.

In contrast, personalization focuses on the interpersonal transfer of tacit knowledge through dialogue, collaboration, and shared experiences. This “person-to-person” approach is exemplified by the cultivation of communities of practice, networks that facilitate the exchange of expertise, best practices, and innovative ideas among individuals with shared interests (Wenger, 2002; Brown & Duguid, 2001). Communities of practice extend beyond organizational boundaries, fostering interdisciplinary collaboration and innovation. HR departments are instrumental in establishing and nurturing these communities, particularly in areas such as sustainability, where collective problem-solving can drive significant environmental advancements (Ahmad, 2015).

The connection between successful organizational sustainability strategies and knowledge management lies in the ability to systematically capture, retain, and utilize organizational memory, history, and performance data to inform and guide sustainability practices. Organizational knowledge management (KM) serves as the foundation for creating a repository of institutional knowledge, ensuring that past experiences and best practices contribute to the development and refinement of sustainability initiatives. This interplay ensures that sustainability efforts are not only strategic but also grounded in the organization's historical context and collective wisdom.

Organizational memory is the accumulation of knowledge, processes, and experiences retained within an organization over time. It encompasses both tacit knowledge, such as employee expertise and informal networks, and explicit knowledge, including documented policies, procedures, and performance metrics. In the context of sustainability, organizational memory allows companies to build on past successes and learn from prior challenges. For instance, data from previous sustainability initiatives, such as energy efficiency programs or waste reduction efforts, can be stored in knowledge management systems to guide future strategies. By leveraging organizational memory, businesses can avoid redundancies, refine practices, and improve overall efficiency.

Organizational history provides a narrative of past actions, decisions, and outcomes, offering valuable insights into the evolution of sustainability strategies. This historical perspective enables organizations to identify patterns, track progress, and understand the factors that contributed to previous successes or failures. For example, documenting the timeline and outcomes of a long-term sustainability initiative can help identify critical inflection points and decision-making processes that shaped its trajectory. Such historical insights not only inform current practices but also enhance organizational credibility by demonstrating a sustained commitment to environmental and social responsibility.

Tracking the elements of organizational success in sustainability is integral to continuous improvement. Knowledge management systems facilitate the systematic documentation and analysis of key performance indicators (KPIs), milestones, and innovations that drive sustainability outcomes. These systems can store data on energy consumption, carbon emissions, waste management, and employee engagement, providing a comprehensive view of organizational performance. Additionally, by integrating advanced analytics, organizations can identify correlations between specific practices and successful outcomes, enabling more informed decision-making.

For instance, a company might use KM tools to analyze the impact of transitioning to renewable energy sources across multiple facilities. By tracking metrics such as cost savings, emissions reductions, and employee perceptions, the organization can determine the efficacy of its approach and replicate it in other areas. This process not only enhances operational efficiency but also reinforces a culture of accountability and evidence-based decision-making.

Successful integration of KM and sustainability strategies requires a proactive approach to capturing and utilizing knowledge. This includes creating mechanisms for knowledge transfer, such as mentoring programs, sustainability-focused training, and collaborative platforms like communities of practice. These initiatives ensure that knowledge is not siloed but shared across the organization, fostering innovation and collaboration. Furthermore, embedding sustainability metrics into organizational dashboards and reports ensures that sustainability becomes an integral part of organizational decision-making, rather than an ancillary goal.

The Transformative Potential of Knowledge Management in Advancing Sustainability

The integration of knowledge management (KM) into sustainability initiatives underscores its profound transformative capacity to reshape organizational practices. Green training and development programs exemplify this potential by equipping employees with the expertise to engage in waste reduction, energy conservation, and recycling while empowering them to implement environmentally responsible behaviors (Ahmad, 2015). Human Resources (HR) departments, bolstered by the support of senior leadership, play a pivotal role in establishing and maintaining knowledge systems that facilitate the dissemination and application of sustainability-oriented information. For instance, information technology (IT) communities of practice may collaborate on innovative methods, such as adopting renewable energy solutions for server facilities, utilizing storage tiering, and implementing data virtualization techniques. These approaches optimize resource allocation and usage, thereby minimizing environmental impact while aligning KM practices with broader corporate social responsibility (CSR) imperatives.

Human Resources as Catalysts for Knowledge Management and Cultural Transformation

The role of HR in KM extends beyond mere facilitation, encompassing the strategic alignment of organizational policies with sustainability goals. By embedding KM into critical talent management processes, HR ensures that employees are equipped with the requisite tools,

resources, and expertise to advance the organization's overarching strategic objectives (Ahmad, 2015). This integration fosters a culture of continuous learning, incentivizes active participation in KM initiatives, and embeds sustainability considerations into recruitment practices, training programs, and performance evaluation frameworks. For example, HR can design recruitment strategies that prioritize candidates with a demonstrated commitment to sustainability or introduce evaluation criteria that measure employee contributions to green initiatives. These efforts collectively strengthen the organization's capacity to achieve its sustainability objectives.

Effective KM strategies, supported by visionary HR leadership, are indispensable for cultivating organizational sustainability and fostering enduring cultural change. Organizations that leverage both codification and personalization strategies can establish dynamic KM systems that drive innovation, reinforce CSR objectives, and promote long-term organizational success. Codification strategies focus on capturing and storing explicit knowledge in accessible formats, enabling knowledge reuse and institutional memory retention. Conversely, personalization strategies emphasize the interpersonal transfer of tacit knowledge through collaboration, dialogue, and mentorship. The synergy between these approaches enables organizations to build robust KM frameworks that align closely with sustainability goals.

HR's strategic involvement in KM processes highlights its critical role in cultivating green cultures within organizations. By championing KM initiatives and fostering employee engagement, HR serves as the linchpin connecting sustainability objectives with actionable organizational practices. This alignment empowers organizations to not only meet but exceed their CSR commitments, ensuring resilience in an increasingly sustainability-driven global marketplace.

The integration of robust KM practices into sustainability strategies has the potential to transform organizational operations and cultures. By empowering employees through green training and fostering collaborative innovation, HR departments play an instrumental role in embedding sustainability into the organizational fabric. Through strategic KM processes, organizations can harness knowledge as a catalyst for environmental stewardship and operational excellence, positioning themselves as leaders in the global sustainability movement. Ultimately, the confluence of KM and sustainability represents a powerful avenue for achieving both environmental responsibility and sustained organizational success.

Burrell and Alemu Framework for Integrating Sustainability into Organizational Culture (2025)

Component	Description	Role of Human Resources (HR)	Outcomes/Impact
The Role of Organizational Management in Sustainability	Management allocates resources, sets goals, and devises strategies for embedding sustainability into organizational priorities. Aligns sustainability with the organization's mission and values to create a cohesive vision.	Collaborates with HR to bridge strategic planning and actionable initiatives.	Realistic and impactful sustainability objectives integrated into organizational priorities.
Policy and Strategy as Drivers of Cultural Transformation	Policies and strategies convert organizational aspirations into actionable plans. Sustainability is embedded in recruitment, training, and performance metrics.	Designs and implements policies aligned with environmental stewardship.	Fosters accountability, innovation, and alignment between employee behavior and organizational sustainability goals.

Optimizing Organizational Structure for Sustainability	Hierarchies and structural dynamics influence sustainability initiatives. Adjustments improve operational efficiency and support sustainability goals.	Recommend structural changes such as creating sustainability-focused roles or streamlining communication pathways.	Enhance adaptability, collaboration, and alignment with sustainability priorities.
Transforming Organizational Systems for Cohesion	Formal and informal mechanisms synchronize actions, policies, and behaviors to support sustainability. Systems ensure sustainability efforts are measurable and actionable.	Refine systems by implementing tracking mechanisms for energy usage and waste reduction.	Improves organizational efficiency and reinforces commitment to sustainability.
Shaping Organizational Culture Toward Sustainability	Organizational culture fosters employee engagement with sustainability through shared values and norms.	Initiates green training programs and recognition systems for eco-friendly behaviors to embed sustainability into the organizational ethos.	Creates a culture prioritizing environmental stewardship and long-term sustainability goals.
Human Resources as Architects of Sustainability	HR aligns knowledge management and employee engagement with sustainability objectives, equipping employees with tools to contribute effectively.	Implement green training and develop knowledge systems to support sustainability.	Embeds sustainability as a central pillar of operations and enhances employee capacity to contribute to environmental goals.
The Power of Employee Engagement in CSR and Sustainability	Employee engagement aligns organizational values with personal priorities, fostering motivation and loyalty. CSR activities enhance employee participation in sustainability initiatives.	Engages employees by understanding their priorities and offering meaningful participation opportunities in sustainability projects.	Increases organizational loyalty, innovation, and commitment to CSR and sustainability initiatives.

The relationship between HR and organizational sustainability is both multifaceted and transformative. Through strategic collaboration with management, the development of comprehensive policies, the optimization of structures, and the cultivation of a culture centered on environmental responsibility, HR drives the integration of sustainability into the core of organizational operations. By fostering employee engagement and leveraging knowledge systems, HR ensures that sustainability initiatives are actionable, measurable, and enduring. This alignment between organizational values, priorities, and practices positions organizations to thrive in an increasingly sustainability-focused global landscape while contributing to a more sustainable future.

Conclusions

Green human resources approaches have become instrumental in transforming organizational operations to meet sustainability demands. These demands are reshaping organizational culture by emphasizing resource efficiencies, promoting the reuse of energy and materials, and adopting sustainable manufacturing practices. Additionally, green human resources facilitate the implementation of initiatives that extend beyond organizational boundaries, supporting sustainability efforts across industries through advanced monitoring and management systems

(Shuja et al., 2017). While renewable energy-based operations present challenges such as performance unpredictability and resource trade-offs, energy-efficient systems and practices mitigate these issues by reducing overall consumption and carbon footprints. Human resources must navigate the delicate balance between energy performance and resource utilization, fostering organizational cultures that embrace energy-efficient designs, improved applications, and comprehensive sustainability strategies. Beyond self-contained efforts, the goal of green human resources is to promote environmentally responsible practices, not only within the organization but also across broader industrial ecosystems (Shuja et al., 2017).

Corporate social responsibility (CSR) research has expanded significantly, providing a deeper understanding of how organizational culture influences employee engagement and well-being (Glavas, 2016). Despite this progress, many organizations still fail to recognize the critical connection between human resources, CSR initiatives, and employee experiences. Low levels of engagement often hinder the successful implementation of sustainability practices, underscoring the need for strategic human resource involvement to address these gaps (Glavas, 2016). High-performing organizations may have clearly defined sustainability strategies, yet their failure to engage employees in these efforts reveals a missed opportunity to integrate human resources into the cultural transformation process (Lawler & Mohrman, 2014). Effective human resource management requires adaptive approaches that acknowledge the diverse and complex needs of employees, rather than relying on standardized, one-size-fits-all solutions (Daryono et al., 2022).

Human resources play a pivotal role in fostering leadership development and aligning it with sustainability objectives. By emphasizing productivity without sacrificing efficacy, HR ensures that employees are equipped with the skills and knowledge necessary for transformational and transitional growth. Training programs and job development initiatives foster productive interactions across all organizational levels, strengthening the bonds between managers and employees and enhancing overall performance (Al-khrabsheh et al., 2022). Moreover, HR's focus on human capital extends to critical areas such as work-life balance, performance evaluations, and the identification of candidates for leadership roles. Through these practices, HR drives the development of leaders who can effectively champion sustainability within the organizational framework (Daryono et al., 2022).

Organizational culture represents a set of shared values and principles that guide employee behavior and decision-making. Human resources are essential in shaping this culture to align with sustainability goals, embedding environmental consciousness into the organizational identity (Al-khrabsheh et al., 2022). This alignment involves creating opportunities and establishing guidelines that foster a climate of innovation and commitment to sustainability. However, current systems for measuring organizational culture often fail to capture the nuanced challenges associated with cultural transformation, addressing issues superficially rather than systemically (Prince & Forr, 2021). Leaders seeking to influence cultural change must be attentive to the formal and informal communication within the organization, as language significantly shapes employee attitudes and behaviors (Prince & Forr, 2021). By strategically addressing these dynamics, HR can guide organizations toward a culture that prioritizes sustainability as a core value.

Human resources serve as a bridge between sustainability initiatives and organizational practices, ensuring that policies, systems, and cultures are aligned with long-term environmental goals. By leveraging green human resource strategies, HR enables organizations to optimize resources, adopt energy-efficient practices, and foster a culture of sustainability. Additionally, HR's role in leadership development and employee engagement ensures that sustainability initiatives are supported by a motivated and informed workforce. Through these efforts, HR not only advances organizational priorities but also establishes a framework for meaningful cultural transformation that extends beyond the organization to influence industry-wide sustainability practices. This

comprehensive approach positions human resources as a key driver of organizational excellence in the pursuit of a sustainable future.

Practical Contribution to Knowledge in the Field

This inquiry makes a significant practical contribution to the field by elucidating the integral role of human resources (HR) in driving organizational sustainability through comprehensive strategies that align cultural, operational, and leadership frameworks with environmental objectives. The findings demonstrate how HR can serve as the nexus for embedding sustainability into organizational practices by fostering a culture of environmental stewardship, optimizing resource utilization, and equipping employees with the skills to champion green initiatives. By integrating sustainability into core HR functions such as recruitment, training, and performance management, organizations can bridge the gap between corporate social responsibility (CSR) strategies and employee engagement, addressing a critical barrier to the effective implementation of sustainability practices.

Moreover, this inquiry highlights the transformative potential of HR in shaping leadership development programs that align with sustainability objectives, ensuring the cultivation of leaders who can navigate complex environmental challenges. Through targeted training programs, job development initiatives, and a focus on work-life balance, HR facilitates the creation of a motivated, informed workforce that actively supports organizational sustainability goals. The research further underscores the role of HR in establishing industry-wide benchmarks for sustainability, extending the influence of green practices beyond individual organizations to foster systemic change across industrial ecosystems. This multifaceted approach not only advances organizational priorities but also contributes to a broader understanding of how HR can serve as a key driver in addressing the pressing global challenges of environmental degradation and resource scarcity.

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