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GREEN HUMAN RESOURCE MANAGEMENT PRACTICES AND ORGANIZATIONAL SUSTAINABILITY IN INDIA: A STRATEGIC IMPERATIVE FOR SUSTAINABLE DEVELOPMENT

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ABSTRACT

As environmental degradation accelerates globally, organizations are increasingly pressured to adopt sustainable practices across all functions—HR being no exception. Green Human Resource Management (GHRM) has emerged as a pivotal strategy integrating environmental consciousness into HR processes. This study investigates the role of GHRM in enhancing organizational sustainability within Indian enterprises. Employing a mixed methods approach, data were collected from 150 employees and 30 HR professionals across diverse sectors—manufacturing, IT, energy, and services—from urban (Delhi, Bangalore) and semiurban (Pune, Indore) centers. Findings reveal that organizations with structured GHRM practices—including green recruitment, training in sustainability, performance appraisal linked to ecoefficiency, and environmental rewards—exhibit significantly higher levels of employee engagement, innovation, and environmental compliance. Case studies of Tata Steel, Infosys, and Suzlon Energy illustrate the transformative impact of integrating green values into HR systems. However, challenges such as lack of policy clarity, resistance to change, and skill gaps persist. The study concludes that GHRM is not merely an ecological initiative but a strategic lever for sustainable competitive advantage in India's evolving business landscape. Recommendations include institutionalizing GHRM frameworks through government industry collaboration, developing green HR certifications, and embedding sustainability into organizational culture.

Keywords: Green HRM, Organizational Sustainability, Human Resource Management, Environmental Performance, Corporate Social Responsibility, India, Sustainable Development Goals (SDGs).

Introduction

India's rapid industrialization and urbanization have resulted in severe environmental consequences—air and water pollution, deforestation, waste accumulation, and rising carbon emissions. Despite being a signatory to the Paris Agreement and committing to netzero by 2070, India faces substantial challenges in aligning corporate practices with environmental sustainability (Ministry of Environment, Forest & Climate Change [MoEFCC], 2023). While regulatory frameworks such as the Companies Act 2013 (Section 135) mandate Corporate Social Responsibility (CSR), their implementation remains uneven and often detached from core operational functions.

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In this context, Green Human Resource Management (GHRM)—defined as the integration of environmental sustainability principles into all HR practices to foster ecofriendly organizational behavior—has emerged as a critical driver for sustainable development. GHRM is not limited to green job descriptions or recycling drives; it encompasses strategic processes such as green recruitment, environmental training, performance management linked to ecological outcomes, and rewards systems that incentivize sustainable behavior (O'Leary & Sureshchandar, 2018).

Despite growing global interest in GHRM (e.g., Zhang et al., 2020), its adoption in India remains under researched. This study fills the gap by analyzing how Indian organizations implement and benefit from GHRM practices to enhance sustainability outcomes.

Problem Statement

Although environmental regulations are evolving, most Indian firms still treat green initiatives as peripheral or symbolic (CSR driven) rather than integral to core HR functions. There is a critical lack of systematic integration between human resource management and environmental sustainability goals. Despite growing awareness, there remains minimal institutionalization of Green HRM practices in Indian organizations—particularly among midsized enterprises and SMEs. This disconnect leads to inconsistent performance in sustainability metrics, low employee engagement on green issues, and missed opportunities for innovation and long-term competitive advantage.

Background of the Problem

India ranks as one of the top three carbon emitters globally (World Bank, 2022). According to the World Economic Forum's Global Risks Report 2023, climate change is ranked among the top five global risks in terms of impact. Simultaneously, India's workforce—projected to reach 650 million by 2030 (ILO, 2021)—is increasingly environmentally conscious, especially in urban and techdriven sectors.

Yet, HR departments continue to focus on traditional metrics like productivity, cost reduction, and retention—with little emphasis on ecological impact. A study by Deloitte India (2022) found that only 38% of Indian companies have formal green policies embedded into their HR systems. Moreover, while large multinationals such as Tata Group or Infosys report robust sustainability commitments, many SMEs remain unaware of GHRM concepts.

This lack of integration poses a strategic risk: without employee buy in and systemic alignment through HR practices, environmental goals are difficult to achieve. For instance, an employee trained in energy saving techniques but not rewarded for it will likely revert to old habits—a phenomenon known as "greenwashing at the operational level."

Thus, the problem is twofold:

- Theoretical Gap: Absence of a comprehensive framework linking HR practices with sustainability outcomes in Indian organizational contexts.
- Practical Challenge: Poor implementation and scalability of GHRM across sectors, especially
 outside large corporations.

Key Literature Reviewed

The Conceptual Foundations of Green HRM

The concept of GHRM was first introduced by Berman et al. (1999) as part of the broader environmental management framework. However, it gained academic traction in the early 2000s with works like Sureshchandar et al. (2007), who defined GHRM as "a set of HR practices that promote sustainability." Recent models by O'Leary and Sureshchandar (2018) conceptualize GHRM through five pillars:

- Green recruitment & selection
- Environmental training and development
- Sustainability linked performance appraisal
- Ecofriendly compensation and benefits
- Green career planning and worklife balance

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Global Evidence on GHRM Effectiveness

Studies from Europe (e.g., Lai et al., 2019) show that firms with mature GHRM systems report 35% lower carbon footprints and 28% higher innovation rates in green technologies. In China, Li & Wang (2021) found a direct correlation between employee environmental training and reduced waste generation.

• Contextual Challenges in Developing Economies

Research by Chakraborty et al. (2020) identifies key barriers in India: lack of policy mandates on GHRM, limited awareness among HR practitioners, insufficient green skill development infrastructure, and top management apathy toward sustainability.

Indian Contextual Studies

A study by Sharma & Singh (2019) surveyed 75 Indian firms and found that while 68% had CSR programs, only 23% integrated environmental goals into HR policies. Another qualitative case analysis of Reliance Industries (Kumar, 2021) revealed that green training was episodic rather than continuous—limiting longterm behavioral change.

• Theoretical Frameworks

This study is anchored in:

- Resource Based View (RBV): Sustainability as a source of competitive advantage through unique HR capabilities.
- Stakeholder Theory: Organizations must balance economic, environmental, and social interests to achieve legitimacy and longterm success (Freeman, 1984).
- **Triple Bottom Line (TBL):** Evaluating organizational performance via people, planet, and profit—aligning GHRM with TBL goals.

Methodology

Research Design

A mixed methods sequential explanatory design was adopted:

- Quantitative phase: Survey based data collection to assess the prevalence and impact of GHRM practices.
- Qualitative phase: In-depth interviews and case studies for contextual depth.

Population and Sampling

Target population: HR managers and employees from Indian organizations with sustainability initiatives (N = 1,000).

Stratified random sampling across sectors:

- Manufacturing (30%): Tata Steel, Bajaj Auto
- IT/ITeS (30%): Infosys, Wipro
- Renewable Energy (20%): Suzlon Energy, ReNew Power
- Services & Retail (20%): Flipkart, HDFC Bank
- Sample size: 150 employees and 30 HR practitioners, with a response rate of 89%.

Data Collection Instruments

Survey Questionnaire: Adapted from O'Leary & Sureshchandar (2018) and modified for Indian context. Measured GHRM practices on a 5point Likert scale.

Semi structured Interview Guide: For HR managers, focusing on:

- Motivations for adopting GHRM
- Challenges faced
- Outcomes observed

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Data Analysis Techniques

- Quantitative: Descriptive statistics (mean, SD), correlation analysis, and regression modeling using SPSS v28.
- Qualitative: Thematic coding via NVivo 14; triangulation of interviews with survey data.

Data Collection Methods

Primary Data

Online Surveys administered through Google Forms (n = 150) and email portals at partner organizations.

Face to Face & Virtual Interviews: Conducted with HR heads and sustainability officers of selected firms.

Secondary Data

- Government reports: MoEFCC, NITI Aayog's Sustainable Development Goals Report (2023).
- Company annual reports (Tata Group, Infosys, Suzlon Energy).
- Academic journals from Scopus and Web of Science (2015–2024).

Key Findings

Prevalence of GHRM Practices

GHRM Practice	% of Firms Adopting
Green Recruitment & Selection	42%
Environmental Training Programs	56%
Sustainability in Performance Appraisal	38%
Green Rewards/Incentives	31%
Career Development for Green Roles	27%

Note: High adoption seen only in large multinationals (e.g., Infosys, Tata Group); SMEs lag significantly.

Employee Perception of GHRM

- 68% of employees believe HR should play a greater role in environmental sustainability.
- Only 34% reported being trained on green practices within the last year.
- 52% felt that their performance appraisals were not linked to ecofriendly behaviors.

Performance Correlation

Regression analysis revealed:

- GHRM practices explained 61% of variance in organizational sustainability outcomes (p < .01).
- Green training and reward systems had the strongest positive impact (β = 0.42, p < .001).

Analysis and Interpretation of Data

Sectoral Differences

- IT & Services: Highest adoption due to digital infrastructure enabling green operations (e.g., paperless offices, virtual meetings).
- Manufacturing: High environmental impact but lower GHRM maturity—despite being resource intensive.
- Energy Sector (Renewable): Strongest alignment with GHRM; Suzlon Energy reported a 35% reduction in energy consumption post GHRM implementation.

Case Studies

Case Study 1: Infosys - Green HR as Culture

Infosys integrates sustainability into its HR lifecycle:

- Green Recruitment: Prioritizes candidates with environmental certifications (e.g., LEED, ISO 14001).
- Training: Mandatory "Sustainability & Innovation" module for all employees.
- Performance Appraisal: Includes KPIs like carbon footprint reduction per department.
- Rewards: Annual "Green Innovator Award" with monetary and recognition benefits.

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 Outcome: Infosys achieved a 56% reduction in CO₂ emissions (2018–2023), ranking among the top 10 greenest IT companies globally (CDP Climate Change Report, 2023).

Case Study 2: Tata Steel - From Compliance to Culture

Tata Steel launched its "Green HR Initiative" in 2020:

- Introduced "EcoLeadership" role in middle management.
- Trained over 12,000 employees on sustainable practices via elearning portals.
- Revised performance appraisal to include waste reduction and energy efficiency targets.

Result: Reduced water usage by 41%, achieved ISO 14001 certification across all plants (Tata Steel Sustainability Report, 2023).

Case Study 3: Suzlon Energy – Green Careers & Talent Pipeline

- Suzlon created a dedicated "Green Career Pathway":
- Employees can transition into roles focused on wind energy efficiency or circular economy.
- Offers sabbaticals for green research and community environmental projects.

Impact: 70% of new hires in R&D are now from sustainability focused backgrounds; innovation in turbine design led to 23% increase in output efficiency (2021–2023).

Barriers Identified

- Top Management Resistance: 45% of HR practitioners cited lack of leadership buyin.
- Skill Gaps: Only 29% of HR teams had formal training on green HRM.
- Lack of Standardization: No national guidelines or certification for GHRM in India.
- Cost Concerns: 60% of SMEs felt that green training and incentives were financially burdensome.

Summary of Findings

- Indian organizations are beginning to adopt Green HRM, but adoption remains uneven concentrated among large multinationals.
- GHRM practices significantly correlate with improved environmental performance, innovation, and employee engagement.
- Sectoral disparities exist: IT & renewable energy lead; manufacturing lags behind despite high ecological footprint.
- Case studies confirm that when integrated strategically into HR systems, GHRM drives tangible sustainability outcomes.
- Key challenges include leadership resistance, skill gaps, financial constraints, and lack of regulatory guidance.

Conclusions

Green Human Resource Management is not a peripheral initiative but an essential strategic function for achieving organizational sustainability in India. This study confirms that integrating environmental values into HR processes—recruitment, training, performance management, rewards, and career development—results in measurable improvements in ecological performance, innovation, and employee motivation.

The success of firms like Infosys, Tata Steel, and Suzlon Energy demonstrates that GHRM is both feasible and profitable. It transforms employees from passive participants to active stewards of sustainability, aligning individual behavior with organizational goals.

However, India's broader adoption remains hindered by fragmented policies, limited HR capacity, and inadequate support systems—especially for SMEs.

Recommendations

Policy & Regulatory Intervention

 The Ministry of Labour & Employment should collaborate with MoEFCC to draft a national Green HRM Framework. Inspira- Journal of Modern Management & Entrepreneurship (JMME), Volume 15, No. 03, July-September, 2025

 Integrate GHRM into the National Skills Qualification Framework (NSQF) and offer certification courses.

Corporate Action

- Large organizations must institutionalize GHRM as part of core strategy, not just CSR.
- Develop Sustainability KPIs for HR functions, including green training completion rates and employee participation in ecoinitiatives.

Capacity Building

- Establish a National Green HR Academy (publicprivate partnership) offering:
- Shortterm certification programs
- Faculty development grants for sustainability focused pedagogy

Support for SMEs

- Offer government subsidies or tax incentives for SMEs adopting GHRM.
- Create digital toolkits and webinars to lower entry barriers.

Academic & Research Engagement

- Universities should include GHRM in MBA/HR curricula.
- Encourage interdisciplinary research linking HR, sustainability, and technology (e.g., Aldriven green performance analytics).

Future Research Directions

- Longitudinal studies on the ROI of GHRM investments.
- Cross-cultural comparisons between India and Southeast Asian nations.
- Impact of remote work trends on green HRM (e.g., reduced commuting).
- Role of digital platforms in scaling GHRM practices.

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