



# International Journal of Research Publication and Reviews

Journal homepage: [www.ijrpr.com](http://www.ijrpr.com) ISSN 2582-7421

## GREEN HR STRATEGIES FOR SUSTAINABLE WORKFORCE MANAGEMENT

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### ABSTRACT:

The sustainable workforce management fosters a culture of responsibility, encouraging employees to align their values while ensuring long-term business success. The critical aspect of employee engagement strategies that promote environmental awareness and responsibility which includes initiative like sustainability workshops, Incentive programs etc., recognize and reward eco-friendly behaviours. It examines various green HR practices, such as eco-friendly recruitment process that prioritize candidates with environmental values and integration of sustainability criteria into performance appraisals. The organizations that have successfully integrate green HR strategies are provide real-world insights and best practices. “Green HRM Practices for sustainable workforce management” Investigate the intersection between human resource management and environmental sustainability. They explores innovative approaches that organizations can adopt to align their human resource practices with ecological principals, thereby forecasting a sustainable and eco-conscious workforce. Green HR strategies focuses on integrating environmental sustainability into human resource practices to build a workforce that supports eco-friendly goals. It determines into key dimensions of recruitment, training and development, performance management, employee engagement and workplace culture, emphasizing their pivotal role in promoting environmental stewardship.

**Keywords:** Sustainable Workforce, Eco-friendly Practices, Environmental Sustainability, Sustainable Talent Management, Corporate Social Responsibility (CSR), Workplace Sustainability Initiatives, Eco-conscious Leadership, Green Innovation, Carbon Footprint Reduction,

### INTRODUCTION

The Green Human Resource [HR] strategies focuses on integrating environmental into HR practices to promote sustainability within organizations. It involves adopting eco-friendly policies and practices that reduce the environmental impact of business operations while enhancing employee well-being and organizational performance. The Importance of green HR Strategies will aligning HR practices with environmental objectives to create a sustainable workforce. The Green HR also involves promoting a culture of sustainable within the organization by encouraging employees to adapt green behaviours both at work and in their personal lives. . This can lead to improved morale, productivity and retention rates. These initiatives can lead to a healthier and more satisfied workforce, By integrating sustainability into HR strategies, organizations and loyal workforce while also contributing to environmental conservation. The global concern over environmental degradation has propelled organizations to adapt sustainable workforce management extending beyond mere operational adjustments to encompass human resource management. By integrating into HR practices, organizations can build a resilient and responsible workforce that is prepared to address the challenges of the 21<sup>st</sup> century.

Organizations are realizing the investing in green HR is an investment in their long-term business success. The Green HR also involves promoting a culture of sustainable within the organization by encouraging employees to adapt green behaviours both at work and in their personal lives. By integrating sustainability into HR practices, organizations can not only reduce their environmental footprints but also enhance their reputation, attract and retain top talent, and improve overall business performance. Employees tend to experience higher job satisfaction when their organizations demonstrate a genuine commitment to environmental sustainability.

### IMPORTANCE

- Green HR encourages employees to adopt eco-friendly practices, making sustainability a core part of workplace culture.
- Modern employees, especially younger generations, prefer working with organizations that prioritize environmental and social values.
- Involving employees in green initiatives increases their sense of purpose and engagement at work.
- Green HR strategies help organizations comply with environmental laws and standards.
- By integrating environmental goals into HR practices, businesses ensure their long-term viability and competitiveness.

## OBJECTIVES OF THE STUDY

- .To understand the evolution of green HR strategies in modern organization at BHEL.
- To examine the effectiveness of current green HR policies and limitations.
- To assess emerging trends and technologies influencing green HR strategies.
- To identify the Role of HR promoting environmental sustainability within the organization.
- To evaluate the role of HR in driving organizational sustainability.

## REVIEW OF LITERATURE

### 1.Mathapathi et al. (2013)

In green HR practices, such as recruitment and selection, performance appraisals, compensation and benefits and training are designed in a manner to create a workforce that understands and promote green behaviour in a organization.

### 2. Shueb ahmed et al. (2015)

It discusses the implementation of green HR practices across organizations, contributing to the understanding of how theses practices support environmental goals and offering recommendations for future green HR initiatives

### 3. Jabbar et al.(2015)

In this study, it finds that employees engaged in environmental initiatives achieve higher satisfaction and performance, highlighting the importance of training and involvement in promoting effective green HR practices

### 4. Zubair et al.(2019)

The adoption of green HR practices to support sustainable development. It discusses the global policies and the role of HR in promoting green practices, contributing to the broader understanding of how organizations can integrate sustainability into their operations.

### 5.Duggal et al.(2020)

It emphasizes the importance of implementing green environment within organization, highlighting the positive outcomes of such practices, for both environmental and employee well-being.

## 5 RESEARCH GAP

The significant research on green HR strategies in general there is a lack of sector- specific studies, Especially for large scale manufacturing organization like BHEL. There is a need in-depth exploration of how green HR practices can be tailored to the specific needs of BHEL, which face unique environmental challenges. Understanding the challenges and opportunities of embedding green HR into the organizational culture of BHEL to create a workforce that is committed to sustainability could be further explored. Specifically how do BHEL public sector mandates and social obligations influence the implementation and effectiveness of green HR practices compared to profit-driven private entities. Research is needed to explore the synergies between green HR strategies and CSR initiatives, especially in large organization like BHEL, to understand how these can be together to promote sustainable development. By addressing these gaps, your research could provide valuable insights into how BHEL can adopt and integrate green HR strategies for workforce sustainability, potentially leading to both improved employee outcomes and enhance corporate sustainability.

## NEED OF THE STUDY

This study will focuses on green HR strategies for sustainable workforce management is crucial for aligning HR practices with environmental goals. It fosters eco-friendly behaviours, enhances reputation, attracts talent, reduce costs and improves employee well-being such as strategies contribute to organizational sustainability, compliance with regulations, and achievement of corporate social responsibility [CSR]. Organizations that implement green HR practices are often seen as socially responsible, which can enhance their reputation and attract environmentally conscious customer and investors. By promoting eco-friendly practices which includes remote work, paperless offices and energy-efficient technologies, organizations can significantly reduce their carbon-footprint. By integrating sustainability into HR processes, organizations can foster innovation and develop new approaches to sustainable workforce management. It encourage employees to adopt sustainable behaviours, creating a culture of environmental responsibility within the organizations. The sustainable workforce management ensures the long-term viability of an organizations human capital, promoting continuous improvement and organizational sustainability.

## 7.PROBLEM STATEMENT

The growing global emphasis on sustainability, many organizations face challenges in integrating environmentally responsible practices into their human resource management systems. There is a lack of awareness, strategic planning, and employee involvement in adopting green HR initiatives, which hinders the development of a sustainable workforce. This gap results in missed opportunities to enhance organizational performance, reduce environmental impact, and align with sustainability goals. Therefore, it is essential to investigate how Green HR strategies can be effectively implemented to promote environmental consciousness, drive employee engagement, and ensure long-term organizational sustainability. In recent years, sustainability has become a critical issue for organizations worldwide due to climate change, resource scarcity, and increasing environmental regulations. While many

companies have adopted green practices in production and operations, the human resource function often lags behind in adopting eco-friendly strategies. This creates a disconnection between organizational sustainability goals and workforce management practices. Most traditional HR policies do not include sustainability principles, which limits their contribution to environmental goals. Employees and HR professionals may lack proper knowledge or training on how their actions impact the environment and what green practices can be adopted. Without leadership commitment, Green HRM lacks the necessary funding, support, and visibility to be effective. There is a lack of standardized tools or metrics to measure the impact of Green HR initiatives on employee behavior and organizational sustainability. Employees may resist shifting from traditional practices to new green approaches due to comfort, habits, or fear of additional responsibilities. Organizations may view green HR practices such as digitalization, sustainability training, or green benefits as an additional cost rather than a long-term investment.

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## 8.METHODOLOGY

### 1. Research Design

A descriptive and analytical research design, focusing on understanding and evaluating the impact of green HR strategies on sustainable development within BHEL.

### 2. DATA COLLECTION METHOD

#### A] PRIMARY DATA :

**SURVEY/QUESTIONNAIRE:** Design surveys or questionnaire targeting HR professionals, employees or industry experts to gather firsthand information about green HR practices

**FOCUS GROUP:** organize focus group with employees to get in-depth insights into the effectiveness of green HR policies and their contribution to sustainability goals.

#### B] SECONDARY DATA:

Utilize case studies, published reports, academic papers, and organizational policies as supporting data.

### 3. SAMPLING METHOD:

The population employees across various departments at BHEL, HR managers, sustainability experts and decision-makers.

#### 1. SAMPLING TECHNIQUES:

The random sampling of BHEL operates across various regions and product lines {e.g., power, railways, transmission}.

#### 2. SAMPLE UNITS:

The sample unit of tangible outcome of BHEL green HR strategies such as reduced environmental impact, improve employee engagement and enhanced corporate reputation.

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## HYPOTHESIS OF THE STUDY

The Study of hypothesis on green HR strategies positively influences sustainable management practices in Bharat Heavy Electrical limited[BHEL], resulting in enhanced organizational efficiency, reduced environmental impact and improved employee engagement in sustainable initiatives.

**H1:** The implementation of green HR strategies at BHEL significantly enhanced employee engagement and organizational commitment towards sustainability goals.

**H2:** The Integration of green performance appraisals and reward systems at BHEL will positively influence employee adoption of sustainable behaviours.

## CASE STUDIES : SIEMENS-DRIVING SUSTAINABILITY THROUGH GREEN HR

**OVERVIEW:** Siemens, a global technology company, has integrated sustainability into its business strategy and has adopted green HR practices to drive environmental responsibility among its workforce.

### KEY STRATEGIES:

**EMPLOYEE ENGAGEMENT:** Siemens focus on educating and engaging employees on sustainability through training programs and awareness campaigns.

**SUSTAINABLE RECRUITMENT:** The company integrates environmental criteria into its recruitment process, hiring individuals who are aligned with the company's sustainability goals.

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**GREEN PERFORMANCE:** Siemens has developed performance management system that include sustainability metrics. Employees green contributions are also considered during appraisals.

**TELECOMMUNICATING AND FLEXIBLE WORK:** Siemens has adopted policies that encourage remote work and flexible schedules, reducing carbon emissions from communicating.

## ANAYSIS FOR GREEN HR STRATEGIES FOR WORKFORCE SUSTAINABLE MANAGEMENT IN BHEL.

### INTRODUCTION

BHEL, a leading engineering and manufacturing company, has been integrating sustainability into its operations, including HR functions. The company is adopting green HRM practices to promote environmental responsibility, enhance workforce engagement and achieve long-term sustainability.

#### KEY GREEN HR STRATEGIES IMPLEMENTED AT BHEL:

##### A] GREEN RECRUITMENT AND SELECTION:

- Focus on hiring employees with eco-conscious values.
- Preference with candidates with knowledge of sustainable practices.
- Digital application to reduce paperwork.

##### B] GREEN TRAINING AND DEVELOPMENT:

- Educating employees on sustainable workplace practices.
- Virtual training programs to minimize travel emissions.
- Employee awareness campaigns on environmental sustainability

##### C] GREEN PERFORMANCE MANAGEMENT:

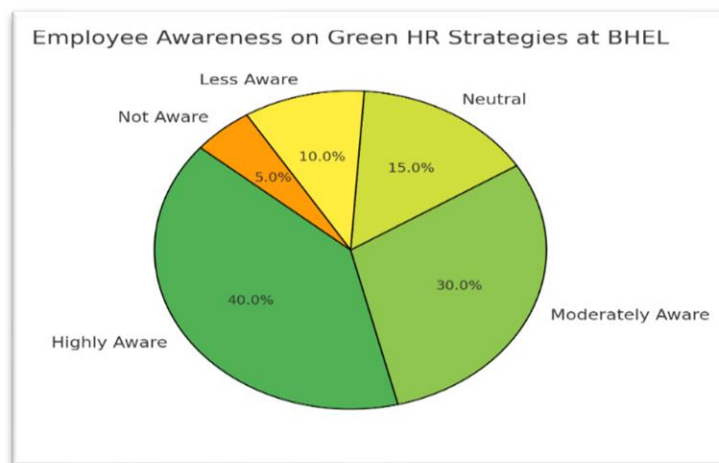
- Linking employee performance with sustainability goals.
- Incorporating sustainability metrics in employee performance appraisals.
- Incentives for employees contributing to eco-friendly initiatives.

##### D] GREEN WORKPLACE PRACTICES:

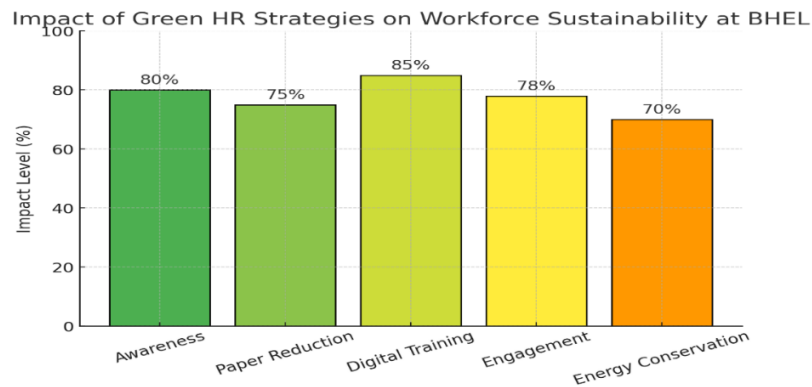
- Implementing energy-efficient office practices.
- Encouraging carpooling and public transport among employees.
- Paperless office initiatives.

#### IMPACT OF GREEN HR STRATEGIES ON WORKFORCE SUSTAINABILITY AT BHEL

FACTOR	IMPACT LEVEL (%)
Employee awareness on sustainability	80%
Reduction in paper usage	75%
Adoption of Digital training	85%
Increase in employee engagement	78%
Energy conservation in workplace	70%



Here, is a pie chart showing employee awareness of green HR strategies at BHEL. Now I generate a bar graph to visualize the impact of these strategies on workforce sustainability.



Here, is a bar graph displaying the impact of green HR strategies on workforce sustainability at BHEL. It highlights key areas such as employee awareness, paper reduction, digital training adoption, engagement and energy conservation.

## FINDINGS

- BHEL collaborates with various environmental organizations and government agencies to stay updated on best green HR practices and it also joined global sustainability network to align its HR strategies with global environmental standards.
- BHEL has introduced training programs aimed to building “knowledge of sustainable practices with their roles.
- The Employees who are engaged in green initiatives feel a stronger connection to their employer and are more likely to stay with the organization long-term.
- It provides inclusive in green initiatives can enhance workforce morale and productivity at BHEL and it implements to promote eco-friendly practices within the workplace , and encouraging green behavior’s in daily operations.

## RECOMMENDATIONS

- To Develop remote and hybrid work options to reduce carbon footprint from employee commuting.
- Introducing mandatory sustainability modules for employees and leadership development programs to embed green values in decision-making.
- Organize “ green employee of the month awards to recognize sustainable work habit.
- Establish a green zones within the workplace, incorporating plants and natural lighting to improve air quality and employee well-being areas.
- Establish a sustainability commitment to periodically review and refine green HR policies.
- Conduct annual sustainability audits to assess the effectiveness of green HR strategies and identify areas for improvement.

## 11.CONCLUSION

The study on “ Green HR strategies for workforce sustainable management ” at Bharat heavy electricals limited[BHEL]highlights the crucial role of sustainable HR practices in fostering an environmentally responsible and engaged workforce. BHEL has made strides in integrating green HRM into its corporate strategy, emphasizing eco-friendly policies, sustainable workplace practices and employee engagement in green HR practices. By integrating sustainability into its HR practices, the company not only achieve its environmental goals but also enhances employee productivity, satisfaction and retention. Moving forward, expanding green HR initiatives could further strengthened BHEL position and enhance effectiveness of green HR strategies. It has focused the multi-mediating mechanism of green HR practices and green behaviour of employees. So, Ultimately, green HR strategies empower BHEL to achieve long-term sustainability goal while maintaining a highly engaged, motivated and productive workforce.

By integrating sustainability into HR practices, organization not only improve their environmental performance but also enhance employee morale, retention and innovation. This alignment supports long-term organizational resilience, social responsibility, and a competitive edge in a sustainability – conscious market. Ultimately green HR is a strategic driver of sustainable workforce management , enabling businesses to thrive while contributing positively to the environment and society.

## 12..REFERENCE LINKS

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