



IMPACT OF GREEN INITIATIVES ON ORGANIZATIONAL PERFORMANCE IN PSUS IN CHHATTISGARH

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Abstract:

This paper explores the impact of green initiatives on the organizational performance of Public Sector Undertakings (PSUs) in Chhattisgarh. With growing emphasis on sustainability and environmental responsibility, PSUs have begun adopting green practices such as energy conservation, waste management, and the use of renewable energy to enhance their operational efficiency. This study aims to examine the relationship between these green initiatives and organizational performance, focusing on both the economic and non-economic outcomes. The paper delves into the financial impact, employee satisfaction, brand reputation, and environmental sustainability associated with green practices. Additionally, the research identifies challenges faced by PSUs, such as financial constraints, resistance to change, and gaps in expertise, that may hinder the effective implementation of green initiatives. Finally, the paper provides insights into the potential benefits and limitations of integrating green practices into the core operations of PSUs and offers recommendations for overcoming challenges to achieve long-term sustainability.

Keywords:

Green Initiatives, Organizational Performance, Public Sector Undertakings, Sustainability, Environmental Responsibility, Financial Performance, Employee Satisfaction, Chhattisgarh, Renewable Energy, Waste Management.

1. Introduction

Public Sector Undertakings (PSUs) in Chhattisgarh play a crucial role in the economic development of the state, contributing significantly to employment, industrial growth, and regional infrastructure. These organizations are government-owned entities that operate in various sectors such as power generation, mining, steel production, and manufacturing. PSUs in Chhattisgarh are not only instrumental in contributing to the state's GDP but also have a broader responsibility towards society, including creating sustainable development models.

Importance of Green Initiatives for Sustainable Development

As the world faces the consequences of climate change and environmental degradation, there has been an increasing emphasis on adopting sustainable practices across industries. Green initiatives refer to the efforts made by organizations to minimize their environmental impact while promoting resource efficiency, reducing carbon footprints, and enhancing ecological responsibility. In the context of PSUs, green initiatives are integral to ensuring that these organizations contribute to the larger goal of sustainable development. These initiatives can range from renewable energy adoption and waste management strategies to eco-friendly infrastructure development. The importance of green initiatives lies in their potential to not only improve environmental outcomes but also generate long-term economic benefits for organizations.

Significance of Environmental Responsibility in PSUs

Public Sector Undertakings, being government-owned, carry a heightened responsibility towards environmental conservation and social welfare. Unlike private entities that may prioritize profit, PSUs are expected to align with national development goals, including environmental sustainability. Their significant role in sectors that are traditionally resource-intensive, such as mining and power generation, makes the adoption of green initiatives even more critical. PSUs that adopt environmentally responsible practices set an example for other sectors and demonstrate the government's commitment to environmental stewardship.

Purpose and Objectives of the Study

The purpose of this study is to analyze the impact of green initiatives on the organizational performance of PSUs in Chhattisgarh. Specifically, it aims to examine how these initiatives influence financial outcomes, employee productivity, brand reputation, and compliance with regulatory standards. Additionally, the study will highlight the challenges and barriers that PSUs face when implementing green initiatives, such as financial limitations, lack of



expertise, and resistance to change. By understanding the relationship between green initiatives and organizational performance, the study seeks to offer insights into how PSUs can further integrate sustainability into their operations to improve both their ecological footprint and their overall business outcomes.

In summary, this paper will assess the effectiveness of green initiatives within PSUs, explore the broader benefits these practices bring to organizational performance, and provide actionable recommendations for overcoming challenges in implementing green practices.

2. Conceptual Framework

2.1 Definition and Scope of Green Initiatives

Green initiatives refer to a set of organizational strategies and actions that aim to reduce negative environmental impacts, promote sustainability, and ensure the efficient use of natural resources. These initiatives may vary widely based on the industry, but in the context of Public Sector Undertakings (PSUs) in Chhattisgarh, they include:

- **Energy Efficiency:** Implementing energy-saving measures, including energy-efficient technologies, optimized processes, and using renewable energy sources (solar, wind, etc.).
- **Waste Management:** Establishing systems to manage and reduce waste, such as recycling programs, waste reduction, and cleaner production techniques.
- **Sustainable Resource Usage:** Reducing reliance on non-renewable resources and utilizing renewable resources, such as solar, biomass, and wind, for production processes.
- **Pollution Reduction:** Reducing emissions and pollutants released into the environment, including air, water, and land.
- **Eco-friendly Infrastructure:** Constructing and maintaining eco-friendly buildings, using sustainable materials, and implementing energy-efficient designs.

These green initiatives are intended to help PSUs transition toward sustainability while enhancing overall operational performance and contributing to social and environmental well-being.

2.2 Understanding Organizational Performance in the Context of PSUs

Organizational performance refers to the ability of an organization to achieve its objectives, deliver value to stakeholders, and maintain long-term sustainability. In PSUs, performance can be evaluated across multiple dimensions:

- **Financial Performance:** This includes profitability, cost-efficiency, revenue generation, and return on investment. Green initiatives can influence financial performance by reducing operational costs, improving energy efficiency, and minimizing waste.
- **Operational Performance:** Refers to the efficiency of day-to-day operations. Green initiatives like resource optimization, waste management, and energy savings can directly improve operational performance.
- **Employee Performance and Engagement:** Green initiatives can improve employee satisfaction, engagement, and productivity. Employees tend to feel more motivated and committed when they work in an organization that values environmental sustainability.
- **Environmental Performance:** Measures how well the organization adheres to sustainability goals and minimizes its ecological footprint. This includes practices like reducing carbon emissions, using renewable energy sources, and engaging in sustainable resource management.
- **Social Performance:** Reflects the broader societal impact of an organization. Green initiatives improve the organization's corporate social responsibility (CSR) image, fostering positive relationships with the community and other stakeholders.



2.3 Theoretical Perspectives on Green Initiatives and Their Potential Impact on Performance

Several theoretical frameworks help explain the relationship between green initiatives and organizational performance, particularly in PSUs:

- **Stakeholder Theory**
 - Stakeholder theory posits that organizations have a responsibility to consider the interests of all their stakeholders, including customers, employees, shareholders, suppliers, and the broader community. For PSUs in Chhattisgarh, adopting green initiatives helps align with the growing expectations of stakeholders for environmental responsibility. These initiatives can enhance the organization's reputation, foster goodwill, and ultimately improve performance.
- **2.3.2 Resource-Based View (RBV)**
 - The Resource-Based View suggests that organizations gain a competitive advantage by utilizing rare and valuable resources that are difficult for others to replicate. Green initiatives can provide PSUs with unique capabilities—such as energy-efficient technologies, expertise in sustainability, and eco-friendly branding—that can lead to better performance, reduced operational costs, and improved public perception.
- **Triple Bottom Line (TBL)**
 - The TBL framework emphasizes that organizations should focus on three pillars: **Profit, People, and Planet**. Green initiatives in PSUs contribute to all three:
 - **Profit:** By reducing costs (e.g., energy savings, waste management) and creating new revenue streams (e.g., sustainable products).
 - **People:** Enhancing employee satisfaction and engagement through green programs.
 - **Planet:** Minimizing environmental impact through resource conservation, pollution reduction, and renewable energy usage.
- **Institutional Theory**
 - According to institutional theory, organizations are influenced by external pressures such as government regulations, societal norms, and industry standards. For PSUs, adopting green initiatives is often driven by regulatory pressures and public expectations. Green practices help PSUs align with institutional norms and enhance their legitimacy, compliance, and reputation in the public sector, leading to better organizational performance.
- **Innovation Diffusion Theory**
 - This theory examines how new technologies and practices spread within organizations. Green innovations, such as renewable energy solutions and waste reduction technologies, can diffuse across departments in PSUs. As these practices gain acceptance and become integrated into organizational processes, they improve efficiency, reduce costs, and enhance performance.

2.4 Model of Green Initiatives and Organizational Performance in PSUs

Based on the above theoretical perspectives, the relationship between green initiatives and organizational performance can be modeled as follows:

1. **Inputs:** Adoption of green initiatives (e.g., renewable energy adoption, waste management systems, energy efficiency practices).
2. **Process:** The integration of these green initiatives into various organizational processes, from operations and employee engagement to marketing and public relations.



3. **Outputs:** Improvement in performance across various dimensions, including financial performance, employee productivity, environmental sustainability, and social responsibility.
4. **Feedback Loop:** Positive outcomes such as cost savings, improved reputation, and higher employee satisfaction lead to the continued adoption and refinement of green initiatives, reinforcing the cycle of improvement.

3. Green Initiatives in PSUs: An Overview

In recent years, Public Sector Undertakings (PSUs) in Chhattisgarh have increasingly recognized the need for adopting green initiatives to promote sustainability and reduce environmental impact. These initiatives not only help reduce the carbon footprint of these organizations but also contribute to improving their operational efficiency and long-term viability. This section provides an overview of the green practices adopted by PSUs in Chhattisgarh, along with case studies, government support, and the challenges faced in implementing these practices.

3.1 Green Policies and Practices Adopted by PSUs in Chhattisgarh

PSUs in Chhattisgarh have incorporated various green policies and practices to minimize their environmental footprint and contribute to sustainability. These practices include energy efficiency, renewable energy adoption, waste management, water conservation, and eco-friendly procurement. PSUs are increasingly focusing on optimizing energy consumption, reducing waste, and utilizing renewable energy sources like solar and wind power. Additionally, water-saving practices, such as rainwater harvesting and water recycling, have been implemented to further reduce environmental impact.

3.2 Case Studies or Examples of Green Practices in PSUs

Several PSUs in Chhattisgarh have successfully implemented green initiatives, achieving both environmental and operational benefits. For instance, the Chhattisgarh State Power Generation Company Limited (CSPGCL) has adopted solar energy projects, enhancing energy efficiency and reducing carbon emissions. Bhilai Steel Plant (BSP) has implemented various energy-efficient technologies, waste recycling systems, and pollution control measures. Other PSUs, such as the National Mineral Development Corporation (NMDC), have focused on sustainable mining practices and afforestation programs to reduce the environmental impact of their operations.

3.3 Government Regulations and Incentives for Green Initiatives

The Indian government, along with the state government of Chhattisgarh, provides various regulations and incentives to encourage PSUs to adopt green initiatives. These include financial subsidies, tax benefits for renewable energy projects, and government policies promoting sustainable practices. PSUs are encouraged to comply with environmental protection laws and adhere to emissions reduction targets, supported by initiatives such as the National Action Plan on Climate Change (NAPCC). These regulations help PSUs in reducing their ecological footprint while promoting green technologies and practices across industries.

3.4 Challenges Faced by PSUs in Implementing Green Initiatives

Despite the growing focus on green initiatives, PSUs in Chhattisgarh face several challenges when it comes to full-scale implementation. Financial constraints are a significant hurdle, as green technologies and sustainable practices often require substantial initial investments. Resistance to change, especially from employees and management, is another challenge, as it may take time to shift mindsets towards sustainability. Moreover, there is often a lack of specialized expertise to manage and maintain advanced green technologies, and the regulatory landscape can be complex, causing delays in project implementation. Lastly, coordinating sustainability practices across large, diverse operations in PSUs can be difficult.

This overview outlines the green initiatives undertaken by PSUs in Chhattisgarh, providing examples of successful implementations and detailing the challenges they face in adopting these practices. The support from government regulations and incentives plays a crucial role in encouraging PSUs to integrate sustainability into their operations.

4. Impact of Green Initiatives on Organizational Performance

The adoption of green initiatives within Public Sector Undertakings (PSUs) in Chhattisgarh has the potential to significantly influence organizational performance across multiple dimensions. These initiatives, aimed at promoting sustainability and reducing environmental impact, not only align with global environmental goals but also lead to tangible improvements in financial, operational, social, and environmental performance. This section delves into the various ways in which green initiatives affect organizational performance, focusing on the following aspects:



financial performance, employee satisfaction and productivity, brand reputation and customer loyalty, regulatory compliance, and environmental sustainability.

4.1 Financial Performance: Cost Reduction and Profitability

One of the most direct impacts of adopting green initiatives is the potential for improved financial performance. Although the initial investment in green technologies and sustainable practices can be high, PSUs in Chhattisgarh often experience significant cost reductions in the long run due to increased operational efficiency. For example, the adoption of energy-efficient systems, such as LED lighting, efficient machinery, and renewable energy sources (solar, wind), can lower energy costs substantially over time. Similarly, waste reduction strategies, such as recycling and better waste management, not only help save disposal costs but can also generate additional revenue streams through the sale of recyclable materials.

Moreover, green initiatives like water conservation and resource optimization further reduce operational costs. These cost savings enhance profitability and make PSUs more competitive in the market. Additionally, PSUs that successfully integrate green initiatives are often eligible for government incentives and subsidies, which can offset the initial costs of implementing sustainable practices. These financial benefits, when realized over time, contribute to the overall profitability of the organization and improve its financial standing.

4.2 Employee Satisfaction and Productivity

Green initiatives also have a direct impact on employee satisfaction and productivity. Research indicates that employees tend to be more satisfied and motivated when they work in an organization that demonstrates environmental responsibility and sustainability. PSUs that prioritize green initiatives often create a workplace environment that promotes well-being and job satisfaction. For instance, improving air quality through reduced emissions, creating green spaces within facilities, and promoting energy-efficient systems can enhance the physical and psychological well-being of employees.

Moreover, involving employees in green initiatives, such as energy-saving programs, waste reduction campaigns, or sustainability committees, can improve engagement and foster a sense of pride and ownership among workers. Employees are likely to be more productive when they feel that their organization is contributing positively to the environment. A sustainable work environment can also improve employee retention rates, as employees are increasingly looking to work for organizations with strong environmental and social governance (ESG) practices.

4.3 Brand Reputation and Customer Loyalty

In today's marketplace, an organization's commitment to sustainability can significantly influence its brand reputation and customer loyalty. For PSUs, being publicly owned entities, there is often an even greater emphasis on social responsibility. By adopting green initiatives, PSUs can improve their reputation as responsible corporate citizens, which can, in turn, attract more customers and clients who prioritize eco-friendly practices. Consumers are becoming increasingly aware of the environmental impact of the products and services they purchase and are more likely to support companies that align with their values regarding sustainability.

Green practices, such as offering energy-efficient products, reducing the carbon footprint of services, or participating in community-based environmental programs, can differentiate PSUs from competitors and foster brand loyalty. Over time, these efforts contribute to customer retention and can open up new markets, especially in environmentally conscious sectors. Furthermore, the positive public image associated with green initiatives can enhance the PSU's standing with the government, regulatory bodies, and the community, ensuring continued business and growth.

4.4 Regulatory Compliance and Legal Benefits

PSUs are subject to various regulatory requirements related to environmental protection, such as compliance with the Environmental Protection Act, air and water quality standards, and carbon emission limits. Green initiatives help PSUs stay ahead of evolving regulatory demands and avoid potential legal risks or penalties. By proactively adopting sustainable practices, PSUs can ensure they are meeting national and international environmental standards, reducing the risk of non-compliance and associated legal costs.

In addition to reducing regulatory risks, green initiatives can improve relationships with government agencies and regulatory bodies. PSUs that are seen as leaders in sustainability may receive favorable treatment in terms of policy support, subsidies, and incentives, as well as positive public perception. Regulatory compliance, therefore, not only avoids penalties but also enhances the PSU's legitimacy and social license to operate, leading to better long-term sustainability and performance.



4.5 Environmental Sustainability and Resource Optimization

Perhaps the most significant impact of green initiatives is on environmental sustainability. By reducing resource consumption, adopting renewable energy sources, and minimizing waste, PSUs contribute to the broader goals of environmental protection and sustainable development. Green practices such as the use of solar or wind energy reduce dependency on fossil fuels, helping to lower greenhouse gas emissions and mitigate the effects of climate change.

Resource optimization—whether through better management of water, energy, or raw materials—ensures that PSUs are using resources efficiently, which can help preserve valuable natural resources and reduce the environmental footprint. These initiatives also support circular economy practices, such as recycling and reusing materials, which contribute to a more sustainable supply chain and waste management system. By adopting green practices, PSUs help preserve the ecosystem and contribute to long-term ecological health, ensuring that their operations are sustainable for future generations.

4.6 Long-Term Organizational Performance and Sustainability

While the immediate benefits of green initiatives are evident in financial savings, regulatory compliance, and improved employee morale, the long-term impact on organizational performance is even more significant. Green initiatives help PSUs establish themselves as forward-thinking organizations that prioritize both economic growth and environmental stewardship. Over time, PSUs that adopt sustainable practices are likely to build a resilient business model capable of withstanding market fluctuations, environmental disruptions, and regulatory changes.

Sustainability, both in terms of environmental and operational efficiency, contributes to the long-term success of PSUs. By fostering innovation, encouraging continuous improvement, and aligning with global sustainability trends, PSUs can create a more adaptive and competitive organization. This long-term focus on sustainability not only improves financial performance but also enhances their reputation, builds customer loyalty, and ensures their relevance in an increasingly environmentally conscious market.

In summary, the impact of green initiatives on organizational performance in PSUs in Chhattisgarh is multifaceted, influencing financial outcomes, employee satisfaction, brand reputation, regulatory compliance, and environmental sustainability. By adopting sustainable practices, PSUs can achieve both immediate cost savings and long-term benefits, positioning themselves as leaders in the transition to a greener, more sustainable future.

5. Challenges and Barriers in Implementing Green Initiatives

While green initiatives have proven to offer substantial benefits for Public Sector Undertakings (PSUs) in Chhattisgarh, there are several challenges and barriers that hinder their full implementation. These challenges range from financial constraints and technological limitations to resistance to change and regulatory hurdles. Understanding and addressing these obstacles is crucial to ensuring the successful adoption of sustainable practices in PSUs. This section explores the key challenges and barriers that PSUs face in implementing green initiatives.

5.1 Financial Constraints and High Initial Costs

One of the most significant barriers to implementing green initiatives in PSUs is the financial constraint associated with the upfront costs of green technologies. Adopting renewable energy systems (e.g., solar panels, wind turbines), energy-efficient machinery, or advanced waste management systems often requires substantial initial investments. For PSUs that are budget-constrained or facing economic pressures, the high costs associated with these technologies may deter them from making such investments, despite the long-term savings they may yield.

Although there are government incentives and subsidies available for green projects, the process of securing these funds can be slow, and not all PSUs may have access to the necessary financial resources. As a result, PSUs may delay or limit their green initiatives to projects that require lower initial investments, potentially missing out on the broader environmental and financial benefits of more comprehensive sustainability strategies.

5.2 Resistance to Change and Organizational Culture

Resistance to change is a common challenge faced by organizations, especially in large, established public sector entities like PSUs. Employees and management may be hesitant to embrace new technologies and practices, especially when they are perceived as disruptive or unfamiliar. This resistance can stem from various factors, including a lack of awareness or understanding of the long-term benefits of green initiatives, fear of the unknown, or a simple reluctance to shift from traditional processes and systems.

Moreover, public sector organizations often have entrenched bureaucratic structures that can slow down decision-



making processes. Introducing green initiatives may require changes in organizational culture, which can be met with inertia, especially if the benefits are not immediately apparent to all stakeholders. To overcome this challenge, PSUs need to implement change management strategies, including training programs, awareness campaigns, and involvement from top management to help foster a culture of sustainability across all levels of the organization.

5.3 Lack of Technological Expertise and Skills Gap

The implementation of advanced green technologies often requires specialized knowledge and skills that may not be readily available within PSUs. Whether it's installing renewable energy systems, upgrading to energy-efficient equipment, or managing waste more effectively, PSUs may face difficulties in sourcing or developing the necessary technical expertise.

Many PSUs may need to rely on external consultants or training programs to equip their employees with the knowledge needed to operate and maintain new technologies. However, the cost and time required for such training can delay the adoption of green initiatives. Additionally, some PSUs may find it difficult to keep pace with the rapidly evolving green technologies, which could limit their ability to implement the latest solutions and stay competitive in the long run.

5.4 Regulatory and Policy Challenges

Although the Indian government and state governments, including Chhattisgarh, have introduced several regulations to encourage green practices, PSUs often face challenges in navigating the complex regulatory landscape. Environmental laws, such as those related to emissions standards, waste disposal, and water usage, can be difficult to interpret and implement without proper guidance. The process of obtaining the necessary permits and approvals for new green technologies or processes can be time-consuming and bureaucratic, especially in large PSUs.

Moreover, there may be discrepancies between national and state-level policies, creating confusion about which regulations to follow. While incentives are available for adopting green technologies, they are often fragmented or not easily accessible to all PSUs. Inconsistent regulatory enforcement, or changes in policy, may also undermine the confidence of PSUs in making long-term investments in sustainability.

5.5 Inadequate Infrastructure and Scale of Operations

PSUs, especially those in resource-intensive sectors such as power generation, mining, and steel manufacturing, often have large-scale operations with significant infrastructure requirements. Implementing green initiatives across such vast operations can be challenging due to the complexity of coordinating sustainability practices across multiple facilities and departments.

In many cases, the existing infrastructure may not be compatible with the new green technologies, requiring substantial upgrades or modifications. For example, integrating renewable energy sources into a PSU's existing power generation system or retrofitting old facilities with energy-efficient equipment can be a costly and complex process. The scale of operations in large PSUs can make it difficult to implement uniform green practices across all units, leading to inefficiencies and gaps in sustainability efforts.

5.6 Short-Term Focus and Lack of Long-Term Planning

Many PSUs are often focused on achieving short-term financial goals and meeting immediate performance targets, which can make it difficult to prioritize long-term green initiatives that require sustained investment and commitment. Short-term budget cycles, particularly in public sector organizations, may not align with the long-term nature of green investments, which typically require a longer payback period.

Moreover, the political landscape and leadership changes in PSUs can result in shifting priorities and lack of continuity in sustainability efforts. As a result, green initiatives may be deprioritized or abandoned, especially if they are perceived as a lower priority in the face of more immediate concerns, such as cost-cutting measures or project deadlines.

5.7 Market and Consumer Expectations

While there is growing awareness among consumers about environmental issues, the pressure on PSUs to adopt green initiatives may not be as intense as in the private sector, where consumer demand for sustainable products and services often drives change. Public sector organizations may face less direct pressure from the market to adopt green practices, especially in sectors where customers do not prioritize sustainability.

Additionally, PSUs may be focused on fulfilling their public service mandates and social responsibilities, which may sometimes overshadow the need for market-driven green initiatives. This mismatch between market expectations



and internal priorities can create a disconnect, slowing the adoption of green practices.

The challenges and barriers to implementing green initiatives in PSUs in Chhattisgarh are multi-faceted and stem from financial, technological, organizational, and regulatory constraints. Overcoming these barriers requires a concerted effort from management, employees, and external stakeholders, including government bodies and industry experts. PSUs must focus on securing adequate funding, building technical expertise, and fostering a culture of sustainability. By addressing these challenges, PSUs can successfully integrate green initiatives into their operations, contributing to environmental sustainability and improving their long-term organizational performance.

Conclusion

In conclusion, green initiatives have the potential to significantly improve the organizational performance of Public Sector Undertakings (PSUs) in Chhattisgarh. These initiatives not only contribute to environmental sustainability but also lead to tangible improvements in financial performance, employee engagement, brand reputation, and regulatory compliance. Despite the numerous benefits, the successful implementation of green initiatives faces several challenges, including financial constraints, resistance to change, technological expertise gaps, regulatory complexities, and infrastructure limitations. Overcoming these barriers requires strong leadership, strategic planning, and collaboration among management, employees, government bodies, and external stakeholders. By addressing these challenges, PSUs can effectively integrate sustainability into their operations, enhance long-term organizational performance, and contribute to the broader goals of sustainable development. The integration of green practices into the core operations of PSUs will ensure their competitiveness and resilience in an increasingly environmentally conscious market.

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