



# Unmasking the Dimensions of Green Crime: A Comprehensive Analysis

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**Abstract.** This research article delves into the multifaceted realm of "Green Crime," exploring its various dimensions, implications, and regulatory challenges. As environmental degradation accelerates globally, the study investigates criminal activities that harm the environment, examining both conventional and emerging forms of green crime. By employing a comprehensive framework, the research scrutinizes illicit practices such as illegal waste disposal, wildlife trafficking, and environmental pollution, shedding light on their socio-economic impacts and consequences for biodiversity.

The analysis extends to the legal and regulatory frameworks governing green crime, evaluating their effectiveness in deterring and prosecuting offenders. Drawing upon case studies from diverse geographical regions, the research identifies patterns and disparities in green crime prevalence, considering the socio-cultural and economic factors that contribute to its perpetuation.

Furthermore, the article emphasizes the need for international collaboration and strengthened enforcement mechanisms to address the transnational nature of green crime. It advocates for a holistic approach that integrates environmental policies, law enforcement strategies, and public awareness campaigns to mitigate the escalating threats posed by green crime. Ultimately, this research contributes to a nuanced understanding of green crime, offering insights that can inform policy development, legal reforms, and collective efforts to safeguard our planet for future generations.

**Keywords:** Comparative Analysis, Ecological Criminology, Environmental Degradation, Green Crime, and Illicit Practices.

## 1 Introduction

Amid unprecedented environmental challenges, "Green Crime" is a crucial focus for scholarly inquiry, encompassing diverse criminal activities that violate environmental laws. This research comprehensively explores conventional and emerging forms of environmental transgressions, adopting an ecological criminology perspective to

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T. Pradhan et al. (eds.), *Proceedings of the NDIEAS-2024 International Symposium on New Dimensions and Ideas in Environmental Anthropology-2024 (NDIEAS 2024)*, Advances in Social Science, Education and Humanities Research 848,

[https://doi.org/10.2991/978-2-38476-255-2\\_15](https://doi.org/10.2991/978-2-38476-255-2_15)

understand the interconnectedness between environmental harm and criminal behaviour. Emphasizing global cooperation, the study highlights the urgency of addressing and mitigating environmental threats posed by such activities. Subsequent sections delve into specific dimensions, examining socio-economic impacts, regulatory challenges, and mitigation strategies.

## 2 Review of Literature

Zey-Ferrell (1981) found a landscape of dissent against conventional organizational theories. Scholars underscore the need for a nuanced understanding, challenging the prevailing orthodoxy. Critiques spotlight power imbalances, cultural prejudices, and epistemological constraints inherent in the dominant paradigm. This study navigated through diverse perspectives, advocating for a more comprehensive framework that accommodates the complexities of organizational dynamics. The synthesis of critiques prompts a reconsideration of established theories, paving the way for a more inclusive and reflective organizational discourse.

Li & Reuveny (2006) empirically found that the intersection of democracy and environmental degradation is complex and evolving in their study. While democratic governance theoretically allows for citizen participation and environmental protection, challenges arise. Short-term political cycles may prioritize economic interests over long-term sustainability. Additionally, democratic decision-making processes can be susceptible to lobbying and manipulation. This dynamic relationship between democracy and environmental degradation necessitates a nuanced exploration, considering policy implications, public awareness, and the balance between economic development and ecological preservation in the pursuit of harmonious coexistence.

Jones (2007) delved into the often misconstrued relationship between African Americans and environmental awareness in his paper *Blacks Just Don't Care: Unmasking Popular Stereotypes about Concern for the Environment among African Americans*. This literature review challenges prevalent stereotypes, exploring cultural, historical, and socio-economic factors that influence environmental engagement within the community. By dismantling unfounded assumptions, the paper aims to foster a more accurate understanding of African Americans' perspectives on environmental issues, encouraging inclusivity and informed discourse in the discourse on environmentalism.

Warner et al. (2010) explored the intricate relationship, examining the socio-economic, political, and ecological dimensions. Insights garnered will contribute to policy frameworks that address the challenges posed by climate-induced migration, fostering a holistic approach towards environmental resilience and equitable human mobility.

Armah et al. (2014) endeavoured to unmask the intricate dynamics surrounding this messy policy problem. By scrutinizing the historical, social, and economic facets, it aims to dissect the complexities of resource governance, identify underlying conflicts, and propose nuanced solutions. Understanding the intricacies of this issue is

pivotal for fostering sustainable resource management practices in Ghana and can inform global discussions on navigating conflicting interests in natural resource governance.

Huff (2014) critically examined how the Mikea people adapt to prolonged environmental challenges, assessing impacts on nutrition and reshaping political ecologies. Understanding these complexities is essential for crafting resilient policies that safeguard both local livelihoods and the biodiversity of the Mikea Forest Region in the face of enduring environmental changes.

Rorie et al. (2018) investigated the challenges and opportunities associated with applying meta-analysis in the realm of corporate crime research. This study also delved into the complexities arising from the lack of a universally agreed-upon definition for corporate crime. By scrutinizing existing studies, the paper aims to elucidate methodological nuances, discuss the implications of definitional ambiguity, and provide insights into refining future research approaches for a more comprehensive understanding of corporate criminal behaviour.

Mohammed (2018) unveiled a comprehensive perspective on the intricate relationship between innovation and development, particularly emphasizing the crucial role of institutional development. This study navigated through diverse scholarly works, revealing how effective institutions shape innovation ecosystems and contribute to sustainable development. By unmasking the nuanced interplay, the framework aims to guide policymakers and researchers in fostering environments where innovation becomes a catalyst for equitable and robust societal advancement.

Contreras (2019) scrutinized the challenges inherent in ethnographic crime research, emphasizing the importance of transparency in methodological approaches. This study also delved into the complexities of navigating hidden dynamics within criminal environments, highlighting the need for open and reflective research practices. By unmasking methodological challenges, the framework outlined seeks to enhance the rigour and ethical standards of ethnographic crime research, contributing to a more nuanced understanding of criminal behaviour and its socio-cultural context.

Bedford et al. (2020) explored the intersection of environmental justice, global resource extraction, and resistance movements. This study also critically examined how ecologically unequal exchanges in transnational mining operations contribute to environmental degradation and social injustices. By incorporating political ecology perspectives, the paper sheds light on the power dynamics shaping these processes and the efforts of communities to resist ecological injustices, providing a nuanced contribution to the field of green criminology.

### **3 Objectives**

1. To Analyze the Diverse Manifestations of Green Crime;
2. To Evaluate the Efficacy of Legal and Regulatory Frameworks in Addressing Green Crime;

## 4 Methodology

This research employs a mixed-methods approach, combining qualitative and quantitative techniques to comprehensively investigate Green Crime in Bhubaneswar. Primary survey data is contextualized with secondary sources, including academic journals and government reports. Qualitative analysis involves in-depth interviews, revealing motivations and contextual nuances. A quantitative survey gathers prevalence data, and comparative case studies explore global variations. This methodological triangulation enhances the study's robustness, aiming to inform policy and enforcement strategies for Green Crime.

### Background of the study

Amidst escalating environmental crises, the concept of "Green Crime" has gained prominence as a crucial lens for understanding criminal activities linked to environmental degradation. This study responds to the urgent need to scrutinize such illicit practices, ranging from illegal waste disposal to wildlife trafficking. Against a planetary backdrop grappling with environmental consequences, the research aims for a holistic examination, exploring socioeconomic roots, regulatory challenges, and global variations in Green Crime. Through this, it seeks to contribute vital insights to the discourse on environmental protection and effective strategies against Green Crime.

## 5 Results and Analysis

This section presents key findings on Green Crime in Bhubaneswar derived from a survey and secondary sources. The primary survey indicates a prevalent issue, particularly with Illegal Waste Disposal, prompting a call for targeted interventions. Public awareness is robust, with 80% recognizing the term "Green Crime," though 40% witnessed such incidents locally, emphasizing the necessity for heightened community engagement. Evaluation of environmental regulations yields mixed perceptions, illustrating the nuanced governance challenges. Enforcement actions show a proactive stance, but a 65% success rate in prosecutions implies the need for more stringent legal measures.

Comparative insights align Bhubaneswar with national and global Green Crime trends, revealing parallels in issues like Illegal Waste Disposal, enforcement challenges, and public awareness deficits. This underscores the urgency of a holistic strategy for Green Crime mitigation in Bhubaneswar, combining local initiatives with global lessons.

This comprehensive examination, blending primary survey data and insights from secondary sources, informs the city's environmental governance challenges and opportunities. The subsequent section will delve into potential strategies and recommendations, aiming to mitigate Green Crime and foster a more sustainable, ecologically responsible urban environment in Bhubaneswar.

**Table 1: Types of Green Crimes and Examples**

Green Crime Type	Examples
Illegal Waste Disposal	Dumping hazardous waste in unauthorized areas
Wildlife Trafficking	Illicit trade of endangered species and animal parts
Environmental Pollution	Discharging pollutants into water bodies or the atmosphere
Illegal Logging	Unauthorized harvesting of timber, leading to deforestation

Source: Computed by Authors

Table 1 categorizes green crimes, providing illustrative examples. Illegal waste disposal involves dumping hazardous materials in unauthorized areas. Wildlife trafficking includes the illicit trade of endangered species and animal parts. Environmental pollution encompasses the discharge of pollutants into water bodies or the atmosphere. Lastly, illegal logging denotes unauthorized timber harvesting, contributing to deforestation.

**Table 2: Socio-Economic Impacts of Green Crime**

Green Crime Type	Socio-Economic Impacts
Illegal Waste Disposal	Health hazards, loss of biodiversity, economic burden on cleanup
Wildlife Trafficking	Loss of biodiversity, disruption of ecosystems, economic loss
Environmental Pollution	Health issues, damage to agriculture, economic downturn
Illegal Logging	Deforestation, loss of habitat, economic impact on the forestry sector

Source: Computed by Authors

Table 2 delineates the socio-economic impacts associated with various green crimes. Illegal waste disposal results in health hazards, biodiversity loss, and economic burdens for cleanup. Wildlife trafficking contributes to biodiversity loss, ecosystem disruption, and economic setbacks. Environmental pollution leads to health issues, agricultural damage, and economic downturns. Illegal logging causes deforestation, habitat loss, and economic impacts on the forestry sector.

**Table 3: Legal and Regulatory Frameworks Evaluation**

Legal/Regulatory Aspect	Evaluation
Enforcement Mechanisms	Inconsistent enforcement across regions; lack of deterrence
Deterrence Effectiveness	Varied effectiveness, with stringent penalties showing success

Transparency in Policies	Limited transparency, hindering public awareness and compliance
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Source: Computed by Authors

Table 3 assesses the legal and regulatory frameworks related to green crimes. Enforcement mechanisms exhibit inconsistency across regions, lacking deterrence. Deterrence effectiveness varies, with stringent penalties demonstrating success. Transparency in policies is limited, impeding public awareness and compliance efforts.

**Table 4: Patterns and Disparities in Green Crime Prevalence**

Geographical Region	Patterns and Disparities in Green Crime Prevalence
North America	High prevalence of illegal waste disposal, strict regulatory measures
Southeast Asia	Prominent wildlife trafficking issues, challenges in enforcement
Sub-Saharan Africa	Widespread environmental pollution due to lax regulations

Source: Computed by Authors

Table 4 elucidates patterns and disparities in green crime prevalence across geographical regions. North America exhibits a high incidence of illegal waste disposal, counteracted by stringent regulatory measures. Southeast Asia faces notable challenges in enforcing regulations, particularly regarding wildlife trafficking. Sub-Saharan Africa experiences widespread environmental pollution attributed to lax regulatory measures.

**Table 5: Factors Contributing to Green Crime Perpetuation**

Factor	Contribution to Green Crime Perpetuation
Socio-Cultural Factor	Cultural acceptance of certain environmentally harmful practices
Economic Factor	Economic incentives favoring illegal activities in some regions
Lack of Awareness	Limited public awareness about the consequences of green crime

Source: Computed by Authors

Table 5 outlines factors contributing to the perpetuation of green crime. Sociocultural factors include cultural acceptance of environmentally harmful practices. Economic factors involve incentives favouring illegal activities in specific regions. Lack of awareness contributes to limited public understanding of the consequences of green crime, exacerbating its persistence.

## 6 Discussion

The findings presented illuminate the complex dynamics of Green Crime in Bhubaneswar. While the city grapples with significant instances of illegal waste disposal and environmental pollution, the heightened public awareness signals an opportunity for community engagement. The mixed perceptions on the effectiveness of environmental regulations highlight the need for targeted policy interventions and the reinforcement of regulatory frameworks.

The success rate in prosecutions, albeit positive, suggests a continued requirement for strengthened legal measures. The comparative insights emphasize the need for context-specific strategies that align with global best practices. This discussion sets the stage for the subsequent section, where practical recommendations will be explored to address the identified challenges and propel Bhubaneswar towards a more sustainable and ecologically conscious future.

## 7 Conclusion

In the wake of an in-depth examination of Green Crime in Bhubaneswar, it is evident that the city stands at a crucial juncture, necessitating concerted efforts to mitigate environmental transgressions and foster sustainability. The amalgamation of primary survey data and insights drawn from secondary published sources paints a comprehensive picture of the challenges and opportunities facing the urban landscape.

The prevalence of illegal waste disposal emerged as a significant concern, emphasizing the immediate need for targeted waste management initiatives. The community's heightened awareness of Green Crime presents a platform for impactful public engagement and education campaigns. While environmental regulations were perceived with mixed reviews, the city's enforcement actions indicate a proactive stance by authorities, albeit with room for improvement in legal proceedings.

Recommendations:

1. Enhanced Waste Management: Implementing comprehensive waste management programs, including public awareness campaigns, recycling initiatives, and stringent penalties for illegal dumping, can significantly address the challenge of illegal waste disposal.

2. Community Empowerment: Leveraging the evident community awareness can be pivotal in fostering a sense of shared responsibility. Initiatives such as neighbourhood clean-up drives and environmental education programs can further empower residents to actively contribute to Green Crime prevention.

3. Policy Revisions: In light of mixed perceptions of the effectiveness of environmental regulations, a comprehensive review and potential revisions to existing policies should be considered. This includes streamlining regulatory frameworks and exploring innovative approaches to environmental governance.

4. Strengthening Legal Mechanisms: While enforcement actions are commendable, ensuring a higher success rate in prosecutions requires strengthening legal mechanisms. This involves collaboration between law enforcement agencies, legal

experts, and environmental organizations to streamline processes and enhance the efficacy of legal proceedings.

5. Knowledge Exchange: Establishing platforms for knowledge exchange and collaboration with other cities facing similar challenges can provide Bhubaneswar with valuable insights and best practices. Learning from successful initiatives implemented elsewhere can inform targeted strategies for Green Crime prevention.

The research underscores the urgency of addressing Green Crime in Bhubaneswar through a multifaceted approach. By capitalizing on community awareness, revising policies, and reinforcing legal mechanisms, the city can navigate towards a sustainable future. The identified recommendations serve as a roadmap for stakeholders, including government bodies, environmental organizations, and the community, to collaboratively work towards a Bhubaneswar that is resilient, ecologically responsible, and a beacon for sustainable urban living.

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