Ethical Implications of Environmental Policies and Practices







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Abstract

Purpose: The aim of this study was to investigate the ethical implications of environmental policies and practices.

Methodology: The study adopted a desktop research methodology. Desk research refers to secondary data or that which can be collected without fieldwork. Desk research is basically involved in collecting data from existing resources hence it is often considered a low cost technique as compared to field research, as the main cost is involved in executive's time, telephone charges and directories. Thus, the study relied on already published studies, reports and statistics. This secondary data was easily accessed through the online journals and library.

Findings: The findings reveal that there exists a contextual and methodological gap relating to the ethical implications of environmental policies and practices. Preliminary empirical review revealed that environmental decision-making is complex, involving trade-offs between competing values. It emphasized the importance of incorporating principles of justice and equity into governance processes, recognizing the disproportionate impact of environmental degradation on marginalized communities. The study identified gaps and shortcomings in current policies, highlighting the need for enhanced accountability and inclusivity. It advocated for a holistic and interdisciplinary approach to environmental governance, involving collaboration across diverse stakeholders to develop more effective and morally defensible strategies for addressing environmental challenges.

Unique Contribution to Theory, Practice and Policy: The Environmental Justice theory, Ethical Decision-Making theory and Sustainability theory may be used to anchor future studies on the ethical implications of environmental policies and practices. The study made several recommendations, contributing to theory, practice, and policy. It recommended integrating ethical frameworks into policy development, strengthening community engagement, promoting environmental justice and equity, enhancing transparency and accountability, implementing ethical education and training, and fostering international cooperation. These recommendations aimed to ensure that environmental policies reflected ethical considerations, empowered communities, addressed systemic inequalities, promoted democratic governance, enhanced ethical awareness, and facilitated collaborative solutions to global environmental challenges.

Keywords: Ethical Implications, Environmental Policies, Sustainability, Environmental Justice, Equity, Community Engagement, Transparency, Accountability, Policy Development, Participatory Governance, Democratic Deliberation, Environmental Inequalities, Ethical Frameworks, Education And Training, International Cooperation, Solidarity, Stakeholders, Decision-Making Processes, Global Environmental Challenges International Journal of Philosophy ISSN: 2958-244X (Online) Vol. 3, Issue No. 1, pp 37 - 50, 2024



1.0 INTRODUCTION

Ethical implications of environmental policies and practices are significant globally, reflecting the moral responsibilities of nations towards sustainability and justice. In the United States, environmental ethics intersect with issues of environmental justice, particularly concerning marginalized communities disproportionately affected by pollution and resource exploitation. According to Mohai and Saha (2015), minority and low-income populations in the US are more likely to reside in areas with higher levels of environmental hazards, leading to concerns about environmental racism and inequitable distribution of environmental benefits and burdens (Mohai & Saha, 2015). For instance, in Flint, Michigan, the water crisis exposed systemic failures in environmental governance, disproportionately impacting the predominantly African American population (Chow, 2016).

In the United Kingdom (UK), ethical considerations in environmental policies focus on sustainable development and climate change mitigation. The UK government has set ambitious targets to reduce greenhouse gas emissions, aiming for net-zero emissions by 2050 (HM Government, 2019). However, achieving these goals raises ethical dilemmas regarding the distribution of costs and benefits across society. Spash (2012) highlighted tensions between economic growth imperatives and environmental sustainability, with policies favoring market-based mechanisms often exacerbating social inequalities and environmental degradation (Spash, 2012). Additionally, debates over land use policies, such as fracking for shale gas extraction, raise questions about the trade-offs between energy security, environmental protection, and community rights (Mabon, Fraser & Cave, 2018).

In Japan, ethical implications of environmental policies are shaped by historical experiences such as the Fukushima nuclear disaster and the country's reliance on nuclear power for energy. The Fukushima incident underscored the risks associated with nuclear energy and prompted reevaluations of Japan's energy policy and disaster preparedness (Aldrich & Sawada, 2015). Ethical considerations include ensuring transparency, accountability, and public participation in decision-making processes related to energy generation and environmental protection (Matsuo, 2017). Efforts to transition towards renewable energy sources while addressing the legacy of nuclear contamination highlight the complex interplay between technological, economic, and ethical dimensions of environmental governance (Sovacool & Valentine, 2012).

In Brazil, ethical implications of environmental policies are closely linked to deforestation in the Amazon rainforest and indigenous land rights. Brazil has faced international scrutiny over its environmental policies, particularly under the administration of President Jair Bolsonaro, whose prodevelopment agenda has been criticized for promoting deforestation and undermining environmental protections (Nepstad, Stickler, Alencar, Azevedo, Bezerra, DiGiano & Nolte, 2020). Research by Gibbs et al. (2015) highlights the role of agribusiness expansion and land speculation as drivers of deforestation, with implications for biodiversity loss, carbon emissions, and indigenous rights (Gibbs, Munger, L'Roe, Barreto, Pereira, Christie, Amaral, Walker & Luiza, 2015). Ethical considerations revolve around balancing economic development with environmental conservation and respecting the rights and traditional knowledge of indigenous peoples (Fearnside, 2017).

In African countries, ethical implications of environmental policies encompass diverse challenges ranging from land degradation to climate change adaptation. According to the United Nations Environment Programme (UNEP), Africa is particularly vulnerable to the impacts of climate change, with increasing temperatures, changing precipitation patterns, and extreme weather events exacerbating food insecurity, water scarcity, and displacement (UNEP, 2019). Ethical dilemmas arise in the context of international climate negotiations, where African nations advocate for climate justice and support for adaptation and mitigation efforts (Okereke, 2012). However, resource constraints, political instability, and competing development priorities pose barriers to effective environmental

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governance and sustainable development (Adger, Arnell, Black, Dercon, Geddes & Thomas, 2019). Ethical implications of environmental policies and practices are multifaceted, reflecting complex interactions between social, economic, and environmental factors. Addressing these ethical challenges requires holistic approaches that prioritize equity, justice, and sustainability across national and global scales. By integrating ethical considerations into decision-making processes and fostering dialogue and collaboration among stakeholders, nations can advance towards more inclusive and resilient environmental governance frameworks.

Environmental policies encompass a wide range of regulations, laws, and initiatives aimed at managing human activities and their impacts on the environment. These policies often address issues such as pollution control, natural resource management, conservation, and climate change mitigation. One key aspect of environmental policies is their ethical dimension, which involves balancing the needs of current and future generations, promoting environmental justice, and considering the rights of both human and non-human entities. Environmental policies play a crucial role in addressing environmental challenges and promoting sustainability (Adams, 2018). By setting standards and guidelines for industries, governments can reduce pollution levels, protect ecosystems, and safeguard public health. For example, regulations on air and water quality help minimize harmful emissions and ensure access to clean resources, benefiting both humans and the environment (Tietenberg & Lewis, 2019). However, the implementation of these policies raises ethical questions regarding their distributional impacts and the trade-offs between environmental protection and economic development.

One ethical implication of environmental policies is their potential to exacerbate or alleviate environmental injustices. Marginalized communities, including low-income neighborhoods and indigenous populations, often bear the brunt of environmental degradation and pollution (Bullard, 2018). Environmental policies must address these disparities by ensuring equitable access to environmental resources and involving affected communities in decision-making processes (Bickerstaff & Walker, 2016). Failure to do so can perpetuate social inequalities and violate principles of environmental justice. Another ethical consideration in environmental policies is their effectiveness in safeguarding biodiversity and protecting vulnerable ecosystems. Loss of biodiversity threatens the stability and resilience of ecosystems, posing risks to human well-being and future generations (CBD, 2014). Environmental policies aimed at conserving biodiversity, such as protected area designations and species preservation programs, reflect ethical commitments to the intrinsic value of nature and the rights of non-human beings (Norton, 2015). However, these policies often face challenges in balancing conservation goals with competing land uses and economic interests (Sandbrook, Fisher, Holmes & Luque-Lora, 2015).

Climate change mitigation is a central focus of contemporary environmental policies, with ethical implications for global equity and intergenerational justice (Gardiner, 2016). Policies aimed at reducing greenhouse gas emissions and transitioning to renewable energy sources seek to limit the impacts of climate change on vulnerable populations and future generations (IPCC, 2014). Ethical debates revolve around issues such as burden-sharing among nations, historical responsibility for emissions, and the rights of future generations to a stable climate (Gardiner, 2011). Addressing these ethical challenges requires international cooperation and collective action. Ethical considerations also arise in the context of natural resource management and sustainable development. Environmental policies must balance competing interests in resource extraction, land use, and economic growth while safeguarding ecosystems and maintaining ecological integrity (MEA, 2019). Sustainable development goals emphasize the need to promote social equity, economic prosperity, and environmental stewardship in policy-making processes (UN, 2015). Ethical frameworks such as the precautionary principle and the polluter-pays principle guide decision-making to minimize risks and externalities associated with human activities (Turnhout, Bloomfield, Hulme, Vogel & Wynne, 2013).

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Incorporating indigenous knowledge and traditional ecological wisdom into environmental policies is essential for promoting cultural diversity and enhancing ecological resilience (Berkes, 2018). Indigenous peoples' rights to land, resources, and self-determination are enshrined in international agreements such as the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP, 2007). Environmental policies that respect indigenous rights and incorporate traditional ecological knowledge contribute to more sustainable and equitable resource management practices (Ban, Frid, Reid, Edgar, Ling, Rocha & Satterfield, 2018). However, conflicts often arise between indigenous worldviews and dominant conservation paradigms, highlighting the need for greater recognition of diverse knowledge systems. Technological innovation and scientific advancements play a crucial role in shaping environmental policies and practices (Bromley & Paavola, 2013). From renewable energy technologies to bioremediation techniques, emerging solutions offer potential pathways for addressing environmental challenges (Finnveden, Hauschild, Ekvall, Guinée, Heijungs, Hellweg & Weidema, 2019). However, ethical considerations arise regarding the risks and unintended consequences of new technologies, as well as their equitable distribution and accessibility (Stilgoe, Lock & Wilsdon, 2013). Environmental policies must navigate these ethical dilemmas by fostering responsible innovation and ensuring that technological developments serve the common good.

Public participation and transparency are fundamental principles of democratic environmental governance (Arnstein, 1969). Environmental policies that engage stakeholders, including citizens, NGOs, and businesses, in decision-making processes enhance accountability and legitimacy (Leach, Mearns & Scoones, 2012). Ethical considerations revolve around ensuring meaningful participation, addressing power imbalances, and respecting diverse perspectives and knowledge systems (Rowe & Frewer, 2000). By fostering inclusive and transparent governance structures, environmental policies can better reflect the values and priorities of society as a whole. Environmental policies are imbued with ethical implications that reflect society's values, priorities, and responsibilities towards the environment and future generations. By considering principles of justice, equity, and sustainability, policymakers can develop more effective and morally defensible strategies for addressing environmental challenges.

1.1 Statement of the Problem

The ethical implications of environmental policies and practices represent a critical area of inquiry amidst growing concerns over sustainability and justice. Despite widespread recognition of the importance of ethical considerations in environmental governance, there remains a significant gap in understanding the specific ethical dilemmas posed by existing policies and practices. According to Mohai and Saha (2015), minority and low-income communities in the United States are disproportionately exposed to environmental hazards, highlighting systemic inequalities in the distribution of environmental benefits and burdens. This raises questions about the fairness and effectiveness of current policies in addressing environmental justice concerns. However, existing research often lacks a comprehensive analysis of the ethical dimensions of environmental policies across diverse geographic and socio-political contexts. This study seeks to address this gap by conducting a systematic examination of the ethical implications of environmental policies and practices on a global scale. By synthesizing existing literature and conducting case studies in various countries, this research aims to identify common ethical challenges and disparities, as well as unique contextual factors influencing ethical decision-making in environmental governance. By incorporating statistical analyses of environmental justice indicators, such as pollution levels, socio-economic demographics, and access to environmental resources, this study will provide empirical evidence to support its findings and recommendations. Additionally, qualitative methods such as interviews and focus groups will be utilized to capture diverse perspectives and experiences of stakeholders affected by environmental policies. The findings of this study will benefit a wide range of stakeholders,

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including policymakers, environmental advocates, community organizations, and academia. Policymakers will gain insights into the ethical implications of their decisions and recommendations for improving the fairness, transparency, and effectiveness of environmental policies. Environmental advocates and community organizations can use the findings to advocate for greater equity and accountability in environmental governance and mobilize support for policy reform initiatives. Academia will benefit from a deeper understanding of the complex ethical dilemmas inherent in environmental policies and practices, contributing to theoretical debates and informing future research agendas. Ultimately, the aim is to promote more ethical and sustainable approaches to environmental governance that prioritize the well-being of both people and the planet.

2.0 LITERATURE REVIEW

2.1 Theoretical Review

2.1.1 Environmental Justice Theory

Environmental Justice Theory originated in the 1980s and 1990s as a response to the recognition that certain communities, particularly those composed of marginalized groups such as low-income and minority populations, disproportionately bear the burden of environmental hazards and pollution (Bullard, 1990). The main theme of this theory is the pursuit of equity and fairness in the distribution of environmental benefits and burdens, emphasizing the right of all individuals and communities to a clean and healthy environment. Environmental Justice Theory highlights the interconnectedness of social inequalities and environmental degradation, arguing that environmental policies and practices should prioritize the needs and voices of marginalized communities to ensure greater inclusivity and accountability in decision-making processes. In the context of the suggested research on the ethical implications of environmental policies and practices, Environmental Justice Theory provides a critical lens through which to examine the distributional impacts of existing policies and identify strategies for addressing environmental injustices.

2.1.2 Ethical Decision-Making Theory

Ethical Decision-Making Theory explores the cognitive processes and moral frameworks that individuals and organizations use to make ethical judgments and choices (Rest, 1986). Originating in psychology and moral philosophy, this theory emphasizes the role of moral reasoning, values, and principles in guiding ethical behavior. The main theme of Ethical Decision-Making Theory is the examination of factors that influence ethical judgments, including individual characteristics, situational factors, and contextual norms. By understanding how ethical decisions are made, researchers can identify opportunities for improving ethical awareness and accountability in environmental policies and practices. This theory is relevant to the suggested research as it provides a theoretical framework for analyzing the ethical dimensions of policy-making processes and assessing the ethical implications of different policy options.

2.1.3 Sustainability Theory

Sustainability Theory emerged in response to growing concerns over the long-term viability of human societies and the natural environment (WCED, 1987). Originating from the Brundtland Commission's definition of sustainable development as "development that meets the needs of the present without compromising the ability of future generations to meet their own needs," Sustainability Theory emphasizes the interconnectedness of social, economic, and environmental systems (WCED, 1987). The main theme of this theory is the promotion of holistic and integrated approaches to decision-making that balance economic prosperity, social equity, and environmental stewardship. In the context of the suggested research, Sustainability Theory provides a normative framework for evaluating the ethical implications of environmental policies and practices, emphasizing the importance of

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considering intergenerational equity, ecological integrity, and social justice in policy formulation and implementation.

2.2 Empirical Review

Schlosberg & Collins (2014) investigated the ethical dimensions of environmental justice movements and their implications for environmental policies and practices. The authors conducted a qualitative analysis of environmental justice campaigns and advocacy efforts, drawing on interviews, participant observations, and document analysis. The study identified a range of ethical principles underlying environmental justice activism, including principles of fairness, equity, and democracy. Environmental justice movements often challenge existing power structures and advocate for more inclusive and participatory decision-making processes in environmental justice into policy-making processes to address systemic inequalities and ensure greater transparency and accountability.

Pastorella & Markowitz (2017) examined the ethical considerations in the implementation of marine conservation policies, particularly focusing on marine protected areas (MPAs). The authors conducted a mixed-methods study, combining quantitative surveys of stakeholders involved in marine conservation efforts with qualitative interviews and focus groups. The study found that while MPAs are effective tools for biodiversity conservation, their establishment and management often raise ethical dilemmas related to displacement of local communities, fishing rights, and indigenous land claims. Stakeholders expressed concerns about the fairness and transparency of decision-making processes. The authors recommended that policymakers engage in meaningful consultation with affected communities, incorporate traditional ecological knowledge into MPA planning, and establish mechanisms for equitable benefit-sharing.

Doberstein & Greenberg (2019) assessed the ethical implications of municipal waste management policies, with a focus on waste-to-energy incineration technologies. The authors conducted a comparative case study analysis of waste management policies in several cities, combining quantitative data on waste generation and disposal rates with qualitative interviews and stakeholder analysis. The study found that while waste-to-energy incineration can reduce landfill emissions and generate renewable energy, it also raises ethical concerns related to air pollution, public health risks, and social justice. Disproportionate siting of incinerators in low-income and minority communities exacerbates environmental inequalities. The authors recommended that policymakers adopt a precautionary approach to waste management, prioritize waste reduction and recycling initiatives, and engage communities in decision-making processes to address environmental justice concerns.

Lemos & Agrawal (2020) explored the ethical dimensions of climate change adaptation policies in developing countries, with a focus on community-based adaptation initiatives. The authors conducted a comparative analysis of community-based adaptation projects in several countries, using a mixed-methods approach that included surveys, interviews, and participatory assessments. The study found that community-based adaptation strategies can enhance resilience and empower local communities to cope with climate change impacts. However, they also raise ethical questions about resource allocation, social inclusion, and cultural integrity. The success of adaptation policies depends on addressing power imbalances and promoting social justice. The authors recommended that policymakers prioritize community participation and ownership in adaptation planning, provide adequate resources and support for vulnerable communities, and integrate indigenous knowledge and practices into adaptation strategies.

Walker & Day (2018) investigated the ethical implications of carbon offsetting schemes as climate change mitigation strategies. The authors conducted a meta-analysis of existing literature on carbon offsetting, synthesizing findings from empirical studies and policy analyses. study found that while

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carbon offsetting can contribute to emissions reductions and promote sustainable development initiatives, it also raises ethical concerns about additionality, permanence, and equity. Offsetting projects often fail to deliver promised benefits to local communities and may perpetuate environmental injustices. The authors recommended that policymakers establish transparent and accountable offsetting mechanisms, prioritize emissions reductions at the source, and ensure that offset projects adhere to ethical principles of fairness, participation, and co-benefits.

Jinnah & Solitander (2016) examined the ethical implications of international climate finance mechanisms, particularly focusing on the Green Climate Fund. The authors conducted a policy analysis of climate finance mechanisms, reviewing official documents, reports, and evaluations from international organizations and donor countries. The study found that while international climate finance plays a crucial role in supporting climate adaptation and mitigation efforts in developing countries, it also raises ethical questions about accountability, transparency, and conditionality. There is a need for greater alignment between climate finance mechanisms and principles of justice, equity, and sustainable development. The authors recommended that policymakers enhance the governance and effectiveness of climate finance mechanisms, prioritize support for vulnerable countries and communities, and ensure that funds are allocated and utilized in a transparent and participatory manner.

Faria & Maciel (2013) assessed the ethical dimensions of biodiversity conservation policies in Brazil, focusing on protected area management and indigenous land rights. The authors conducted a case study analysis of conservation policies and practices in the Brazilian Amazon region, combining qualitative interviews with stakeholders and field observations. The study found that while protected areas play a crucial role in preserving biodiversity and ecosystem services, their establishment often conflicts with indigenous land rights and traditional livelihoods. Conservation policies must address underlying power dynamics and recognize indigenous peoples' rights to land, resources, and self-determination. The authors recommended that policymakers adopt a rights-based approach to conservation, respect indigenous knowledge and governance systems, and promote collaborative management arrangements that empower local communities and ensure equitable benefit-sharing.

3.0 METHODOLOGY

The study adopted a desktop research methodology. Desk research refers to secondary data or that which can be collected without fieldwork. Desk research is basically involved in collecting data from existing resources hence it is often considered a low cost technique as compared to field research, as the main cost is involved in executive's time, telephone charges and directories. Thus, the study relied on already published studies, reports and statistics. This secondary data was easily accessed through the online journals and library.

4.0 FINDINGS

This study presented both a contextual and methodological gap. A contextual gap occurs when desired research findings provide a different perspective on the topic of discussion. For instance, Schlosberg & Collins (2014) investigated the ethical dimensions of environmental justice movements and their implications for environmental policies and practices. The authors conducted a qualitative analysis of environmental justice campaigns and advocacy efforts, drawing on interviews, participant observations, and document analysis. The study identified a range of ethical principles underlying environmental justice activism, including principles of fairness, equity, and democracy. Environmental justice movements often challenge existing power structures and advocate for more inclusive and participatory decision-making processes in environmental justice into policy-making processes to address systemic inequalities and ensure greater transparency and accountability. On the other hand, the current study focused on ethical implications of environmental policies and practices.

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Secondly, a methodological gap also presents itself, for example, Schlosberg & Collins (2014) conducted a qualitative analysis of environmental justice campaigns and advocacy efforts, drawing on interviews, participant observations, and document analysis- in investigating the ethical dimensions of environmental justice movements and their implications for environmental policies and practices. Whereas, the current study adopted a desktop research method.

5.0 CONCLUSION AND RECOMMENDATIONS

5.1 Conclusion

After a comprehensive examination of the ethical implications of environmental policies and practices, several key conclusions can be drawn. Firstly, it is evident that environmental decision-making is inherently complex, involving trade-offs between competing values, interests, and priorities. Environmental policies must navigate a multitude of ethical considerations, including fairness, justice, sustainability, and respect for human and non-human rights. The studies reviewed have highlighted the diverse ways in which environmental policies can impact communities, ecosystems, and future generations, underscoring the need for a nuanced and context-specific approach to ethical decision-making.

Secondly, the findings underscore the importance of incorporating principles of justice and equity into environmental governance processes. Marginalized communities, indigenous peoples, and vulnerable populations often bear the brunt of environmental degradation and pollution, yet have limited access to decision-making power and resources. Environmental policies must address these disparities by ensuring meaningful participation, recognizing diverse knowledge systems, and promoting distributive justice. Moreover, there is a growing recognition of the need to integrate environmental justice considerations into broader policy frameworks, such as climate change adaptation, marine conservation, and biodiversity conservation.

Thirdly, the studies reviewed have identified significant gaps and shortcomings in current environmental policies and practices. From the disproportionate siting of waste incinerators in lowincome neighborhoods to the inadequacies of international climate finance mechanisms, there are numerous instances where ethical principles are not adequately reflected in policy outcomes. Addressing these gaps requires a concerted effort to enhance accountability, transparency, and inclusivity in environmental decision-making. It also requires policymakers to critically evaluate the underlying values and assumptions that shape environmental policies, challenging dominant narratives and advocating for more just and sustainable alternatives.

Lastly, the conclusion drawn from this study is that promoting ethical environmental governance requires a holistic and interdisciplinary approach that integrates insights from ethics, law, social sciences, natural sciences, and indigenous knowledge systems. By fostering dialogue and collaboration across diverse stakeholders, including governments, civil society organizations, academia, and local communities, it is possible to develop more effective and morally defensible strategies for addressing environmental challenges. Ultimately, the goal is to ensure that environmental policies and practices uphold the principles of justice, fairness, and sustainability, thereby safeguarding the well-being of both present and future generations and fostering harmonious relationships between humans and the natural world.

5.2 Recommendations

One of the key recommendations of the study is to integrate ethical frameworks into the development and implementation of environmental policies. By drawing on principles of environmental justice, sustainability, and ethical decision-making, policymakers can ensure that policies reflect ethical considerations and promote equitable and sustainable outcomes. This recommendation contributes to

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theory by advancing the understanding of the ethical dimensions of environmental governance and providing a normative framework for policy analysis. In practice, it encourages policymakers to prioritize ethical considerations in decision-making processes and engage stakeholders in meaningful dialogue and consultation. From a policy perspective, integrating ethical frameworks into policy development can enhance the legitimacy, effectiveness, and accountability of environmental policies, leading to more equitable and environmentally responsible outcomes.

Another recommendation is to strengthen community engagement and participation in environmental decision-making processes. By involving affected communities in policy formulation, implementation, and evaluation, policymakers can ensure that policies reflect local needs, values, and knowledge systems. This recommendation contributes to theory by highlighting the importance of participatory governance and democratic deliberation in addressing environmental challenges. In practice, it empowers communities to advocate for their rights and interests and fosters collaborative partnerships between governments, civil society, and indigenous peoples. From a policy perspective, strengthening community engagement can enhance the legitimacy and effectiveness of environmental policies by fostering trust, social cohesion, and ownership among stakeholders.

The study recommends promoting environmental justice and equity as guiding principles in environmental policy-making. This involves addressing systemic inequalities in the distribution of environmental benefits and burdens, as well as recognizing and redressing historical injustices. This recommendation contributes to theory by highlighting the interconnections between social justice, environmental sustainability, and ethical governance. In practice, it calls for targeted interventions to mitigate environmental inequalities and ensure that vulnerable communities have access to clean air, water, and natural resources. From a policy perspective, promoting environmental justice requires policymakers to adopt proactive measures such as environmental impact assessments, cumulative impact analyses, and environmental health monitoring to identify and address disparities in environmental quality and exposure.

The study recommends enhancing transparency and accountability in environmental governance processes. This involves improving access to information, facilitating public participation, and ensuring that decision-making processes are transparent, inclusive, and accountable. This recommendation contributes to theory by emphasizing the importance of democratic governance and procedural justice in environmental decision-making. In practice, it promotes greater openness and responsiveness in government decision-making processes and fosters public trust and confidence in environmental institutions. From a policy perspective, enhancing transparency and accountability can strengthen the legitimacy and effectiveness of environmental policies by promoting public scrutiny, oversight, and accountability.

The study suggests implementing ethical education and training programs for policymakers, practitioners, and stakeholders involved in environmental governance. By enhancing ethical awareness and capacity-building, these programs can empower individuals to recognize and address ethical dilemmas in their decision-making processes. This recommendation contributes to theory by highlighting the role of education and learning in fostering ethical behavior and responsible citizenship. In practice, it provides tools and resources for individuals to navigate complex ethical issues and make informed decisions in their professional roles. From a policy perspective, investing in ethical education and training can cultivate a culture of integrity, professionalism, and ethical leadership in environmental governance, leading to more ethical and effective policy outcomes.

Lastly, the study recommends fostering international cooperation and solidarity to address global environmental challenges. This involves promoting dialogue, collaboration, and knowledge-sharing among nations, regions, and stakeholders to develop shared solutions to common environmental

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problems. This recommendation contributes to theory by emphasizing the interconnectedness of environmental issues and the importance of collective action and global citizenship. In practice, it encourages countries to work together to address transboundary environmental issues such as climate change, biodiversity loss, and pollution. From a policy perspective, fostering international cooperation can strengthen the effectiveness and legitimacy of environmental policies by promoting mutual respect, understanding, and cooperation among nations and fostering a sense of shared responsibility for the planet's well-being.

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