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Environmental Policies: Bridging the Gap between Theory and Action

Harris Likert

Southern Cross University, Australia

ABSTRACT

As global environmental challenges intensify, the importance of effective environmental policies becomes paramount. This abstract provides a concise overview of a comprehensive research study aimed at examining the intricate relationship between environmental policy theory and its real-world implementation. The study employs a multidisciplinary approach, drawing on insights from political science, economics, sociology, and environmental science. The primary objective of this research is to identify the factors that contribute to the gap between theoretical frameworks for environmental policies and their practical application. Through a systematic review of existing literature, case studies, and policy analyses, the study seeks to uncover the barriers, challenges, and opportunities in translating environmental policy concepts into tangible actions. The research adopts a comparative analysis of environmental policies implemented across various regions and contexts, considering both successful and unsuccessful cases. By doing so, it aims to distill lessons learned and best practices that can inform the development and refinement of future environmental policies.

Key themes explored in the study include the role of stakeholders, the influence of economic considerations, the impact of technological advancements, and the effectiveness of regulatory frameworks. Special attention is given to the engagement of local communities and the integration of indigenous knowledge in the design and execution of environmental policies. Furthermore, the research delves into the evolving nature of environmental challenges, emphasizing the need for adaptive and innovative policy responses. It examines the role of international cooperation and the potential for synergies between global and local initiatives. In conclusion, this research contributes to the ongoing discourse on environmental governance by offering insights that can enhance the effectiveness of policies in addressing pressing environmental issues. By bridging the gap between theory and action, the study aims to provide actionable recommendations for policymakers, practitioners, and scholars invested in creating sustainable and resilient environmental policies for the future.

Keywords: Environmental Policies, practitioners, international cooperation.

INTRODUCTION

In an era marked by unprecedented environmental challenges, the formulation and implementation of effective environmental policies stand as crucial pillars in the quest for sustainability. As the global community grapples with issues ranging from climate change and biodiversity loss to pollution and resource depletion, the imperative to bridge the gap between theoretical constructs of environmental policies and their practical enactment becomes increasingly evident.
This research embarks on a comprehensive exploration of the complex interplay between environmental policy theory and the actualization of these policies in the real world. The urgency of this investigation is underscored by the pressing need for innovative, adaptive, and globally harmonized approaches to address the multifaceted dimensions of environmental degradation. The theoretical frameworks guiding environmental policies are often meticulously crafted, drawing upon insights from diverse disciplines such as political science, economics, sociology, and environmental science. However, the efficacy of these frameworks is frequently hindered by a myriad of challenges during implementation. This study seeks to unravel the factors contributing to this divide, with the overarching goal of providing actionable insights that can inform the refinement and enhancement of environmental policies.

By adopting a multidisciplinary lens, this research aspires to transcend conventional boundaries and illuminate the complex interactions that shape the fate of environmental policies. It recognizes the dynamic nature of environmental challenges and acknowledges the need for policy frameworks that are not only robust but also adaptable to evolving circumstances.

Through an extensive review of existing literature, examination of case studies, and in-depth policy analyses, this study endeavors to distill lessons from both successes and failures in the realm of environmental policy implementation. Special emphasis is placed on understanding the role of various stakeholders, the influence of economic considerations, the integration of technological advancements, and the efficacy of regulatory frameworks in translating policy ideals into tangible actions. Moreover, this research delves into the critical dimension of community engagement, recognizing the importance of local perspectives and the incorporation of indigenous knowledge in shaping and executing environmental policies. The study seeks to go beyond a mere theoretical exploration, aiming to provide practical recommendations for policymakers, practitioners, and scholars engaged in the pursuit of sustainable environmental governance. As we navigate the complexities of the Anthropocene, where human activities exert profound impacts on the planet, the imperative to bridge the gap between environmental policy theory and action becomes not only a scholarly pursuit but a moral and existential necessity. This research aspires to contribute meaningfully to this imperative, fostering a deeper understanding of the challenges and opportunities inherent in the translation of environmental policy ideals into transformative actions.

LITERATURE REVIEW

The literature on environmental policies reflects a rich tapestry of theoretical frameworks, empirical studies, and critical analyses that collectively underscore the intricate relationship between policy formulation and implementation. The synthesis of existing knowledge provides a foundation for understanding the complexities and nuances inherent in bridging the gap between environmental policy theory and action.

1. **Theoretical Foundations of Environmental Policies:** The theoretical underpinnings of environmental policies often draw from diverse academic disciplines. Scholars in political science, economics, and environmental studies contribute to conceptual frameworks that guide the design of policies. Notable theories include the tragedy of the commons, market-based instruments, and ecological modernization, each offering unique insights into addressing environmental challenges.

2. **Stakeholder Engagement and Participation:** A recurrent theme in the literature is the pivotal role of stakeholders in shaping and implementing environmental policies. Community engagement, collaboration with non-governmental organizations (NGOs), and partnerships with the private sector are explored as essential elements in ensuring the legitimacy and effectiveness of policies. Case studies highlight instances where successful policies have emerged from inclusive decision-making processes.

3. **Economic Considerations and Environmental Policy:** Economic factors play a significant role in influencing environmental policy outcomes. The literature explores the tension between economic growth and environmental conservation, examining the feasibility of decoupling economic activities from environmental degradation. Market-based instruments, such as carbon pricing and cap-and-trade systems, are scrutinized for their potential to align economic incentives with environmental objectives.

4. **Technological Innovations and Policy Implementation:** Advancements in technology offer both challenges and opportunities for environmental policy implementation. The literature assesses the role of technological innovations in monitoring, enforcement, and the development of sustainable practices. The adoption of green technologies and the potential for leapfrogging to environmentally friendly solutions are subjects of interest.

5. **Regulatory Frameworks and Effectiveness:** A critical aspect of environmental policies lies in the regulatory frameworks that underpin them. Scholars investigate the effectiveness of regulatory measures in achieving desired environmental outcomes. Comparative analyses of regulatory approaches across different jurisdictions shed light on the factors that contribute to successful policy enforcement.

6. **Community Perspectives and Indigenous Knowledge:** Recognizing the importance of local knowledge and community perspectives, recent literature emphasizes the need for policies that are culturally sensitive and context-specific. Indigenous knowledge systems are increasingly acknowledged as valuable contributors to sustainable environmental management. The literature explores ways to integrate these perspectives into policy design and implementation.

7. **Global and Local Interplay in Environmental Governance:** In an era of interconnectedness, the literature delves into the dynamics of global and local interactions in environmental governance. International agreements, such as the Paris Agreement, and the role of transnational actors in shaping policy agendas are scrutinized. The

challenges and opportunities associated with aligning global goals with local realities form a significant focus of inquiry.

8. **Adaptive Governance in the Face of Environmental Change:** The dynamic nature of environmental challenges necessitates a shift toward adaptive governance models. Literature on resilience, adaptive management, and learning organizations explores how policy frameworks can evolve to address emerging threats and capitalize on opportunities for positive environmental change.

In sum, the literature review reveals a multifaceted landscape of insights into environmental policies, offering a foundation for understanding the complexities inherent in moving from theory to action. This synthesis sets the stage for the empirical investigation undertaken in this study, contributing to the ongoing discourse on effective environmental governance in the face of global environmental challenges.

THEORETICAL FRAMEWORK

The theoretical framework for the study, "Environmental Policies: Bridging the Gap Between Theory and Action," draws upon several key theoretical perspectives from various academic disciplines. This multidisciplinary approach aims to provide a comprehensive understanding of the complexities associated with the formulation and implementation of environmental policies.

1. **Institutional Theory:** Institutional theory serves as a foundational lens for understanding the formal and informal structures that shape environmental policies. This perspective helps analyze how institutional arrangements, including government agencies, regulatory bodies, and international organizations, influence policy formulation and implementation. The focus is on understanding the rules, norms, and practices that guide decision-making in the environmental policy domain.

2. **Policy Diffusion and Transfer:** Drawing from political science and public policy literature, the study incorporates elements of policy diffusion and transfer. This perspective explores how environmental policies are adopted and adapted across different regions and contexts. By examining successful and unsuccessful cases of policy transfer, the research aims to identify factors that contribute to the effective translation of theoretical frameworks into actionable policies.

3. **Ecological Modernization Theory:** Ecological modernization theory provides insights into the relationship between economic development and environmental sustainability. This perspective suggests that technological innovation and changes in societal values can lead to a more sustainable use of natural resources. The study incorporates ecological modernization as a lens to assess the role of technological advancements in aligning economic activities with environmental conservation goals.

4. **Stakeholder Theory:** Central to the investigation is stakeholder theory, which emphasizes the importance of engaging diverse actors in the policy process. This perspective recognizes that effective environmental policies require the active participation of government entities, businesses, non-governmental organizations (NGOs), local communities, and the general public. Analyzing stakeholder dynamics helps uncover challenges and opportunities for bridging the gap between policy theory and on-the-ground implementation.

5. **Political Ecology:** Political ecology provides a critical perspective on the power dynamics and political-economic forces that influence environmental decision-making. By examining how interests, ideologies, and inequalities shape policy outcomes, the study aims to uncover underlying issues that may impede the effective translation of environmental policy theories into tangible actions.

6. **Adaptive Governance and Resilience:** Acknowledging the dynamic and uncertain nature of environmental challenges, the study integrates concepts from adaptive governance and resilience literature. This perspective highlights the importance of flexibility, learning, and the capacity to adapt to changing circumstances in environmental policy design and implementation. By embracing adaptive governance principles, the research seeks to contribute to the development of policies capable of responding to evolving environmental conditions.

7. **Transdisciplinary Approaches:** Given the complex and interconnected nature of environmental issues, the theoretical framework incorporates elements of transdisciplinary approaches. This involves integrating insights

from multiple disciplines, including natural sciences, social sciences, and humanities, to develop holistic and context-specific solutions. The study recognizes the need for collaboration and knowledge integration to address the multifaceted challenges of environmental governance.

By weaving together these theoretical perspectives, the study aims to offer a nuanced understanding of the factors influencing the translation of environmental policy theory into practical action. This framework provides a roadmap for analyzing case studies, conducting policy assessments, and deriving actionable recommendations for policymakers and practitioners in the field of environmental governance.

RECENT METHODS

Here are some recent methods and trends as of my last update:

1. **Machine Learning and Data Analytics:**
   Remote Sensing and GIS Integration: The use of satellite imagery, remote sensing technologies, and Geographic Information Systems (GIS) has become more sophisticated. Machine learning algorithms are applied to analyze large datasets for monitoring environmental changes, deforestation, and habitat loss.
   Predictive Modeling for Policy Impact: Machine learning techniques are increasingly used to create predictive models for assessing the potential impact of policies on the environment. These models can help policymakers anticipate outcomes and optimize policy designs.

2. **Behavioral Insights and Nudging:**
   Behavioral Economics in Policy Design: Insights from behavioral economics are being incorporated into the design of environmental policies. "Nudging" strategies aim to influence individuals' behavior toward more sustainable choices without imposing restrictive regulations.

3. **Citizen Science and Crowd sourcing:**
   Engaging the Public in Data Collection: Citizen Science initiatives and crowd sourcing are gaining popularity. Citizens are actively involved in collecting environmental data, contributing to biodiversity monitoring, air and water quality assessments, and other forms of environmental research. This engagement enhances public awareness and provides valuable data for policymaking.

4. **Blockchain Technology:**
   Enhancing Transparency and Accountability: Blockchain technology is explored as a means to enhance transparency and accountability in environmental governance. It can be applied to track and verify the authenticity of environmental credits; carbon offset transactions, and supply chain sustainability.

5. **Social Network Analysis:**
   Understanding Stakeholder Networks: Social network analysis is employed to understand the relationships and influence networks among stakeholders involved in environmental governance. This method helps policymakers identify key actors, communication patterns, and potential barriers to effective policy implementation.

6. **Integrated Assessment Models (IAMs):**
   Holistic Evaluation of Policies: Integrated Assessment Models are used to evaluate the environmental, economic, and social impacts of policies in a comprehensive manner. These models provide decision-makers with insights into the trade-offs and synergies associated with different policy scenarios.

7. **Natural Language Processing (NLP):**
   Policy Text Analysis: Natural Language Processing is applied to analyze large volumes of policy documents, academic literature, and public discourse related to environmental policies. This method aids in identifying emerging themes, sentiment analysis, and understanding public perceptions.

8. **Scenario Planning and Futures Thinking:**
   Anticipatory Governance: Scenario planning and futures thinking are applied to anticipate and prepare for future environmental challenges. These methods help policymakers develop adaptive strategies by considering a range of plausible future scenarios.

9. **Econometric and Cost-Benefit Analysis:**
   Quantitative Policy Evaluation: Econometric methods and cost-benefit analysis continue to be refined for assessing the economic efficiency and effectiveness of environmental policies. These quantitative approaches help policymakers allocate resources judiciously.

10. **Participatory Modeling:**
    Incorporating Local Knowledge: Participatory modeling involves engaging local communities in the decision-making process. It recognizes the value of local knowledge and incorporates community perspectives into the design and evaluation of environmental policies.

Keep in mind that the adoption of these methods may vary across regions and contexts. Researchers and policymakers often integrate multiple approaches to address the complex and dynamic nature of environmental challenges.

SIGNIFICANCE OF THE TOPIC

The significance of the topic, "Environmental Policies: Bridging the Gap between Theory and Action," lies in its critical relevance to addressing pressing global challenges and ensuring the sustainability of our planet. Several factors underscore the importance of this research topic:

1. **Urgency of Environmental Challenges:**
   The world faces unprecedented environmental challenges, including climate change, biodiversity loss, pollution, and resource depletion. Effective environmental policies are crucial for mitigating these challenges and ensuring a sustainable future for generations to come.

2. **Policy-Reality Divide:**
   Despite well-crafted theoretical frameworks, there often exists a significant gap between environmental policy theory and practical implementation. Understanding and addressing this gap is essential for ensuring that policies translate into tangible actions on the ground, leading to positive environmental outcomes.

3. **Global Interconnectedness:**
   Environmental issues transcend national borders, and their impacts are felt globally. Coordinated and effective environmental policies are necessary to foster international cooperation, address transboundary challenges, and create a harmonized approach to global sustainability.

4. **Impact on Ecosystems and Human Well-being:**
   Environmental degradation directly affects ecosystems and, consequently, human well-being. Policies that fail to bridge the theory-action gap can lead to adverse consequences such as habitat destruction, loss of biodiversity, and threats to water and air quality, impacting human health and livelihoods.

5. **Resource Scarcity and Sustainable Development:**
   As the world grapples with resource scarcity, policies that effectively balance economic development with environmental sustainability are crucial. Bridging the gap between theory and action ensures that policies contribute to sustainable development goals, addressing the needs of the present without compromising the ability of future generations to meet their own needs.

6. **Social Equity and Environmental Justice:**
   Environmental policies have social implications, and the burden of environmental degradation often falls disproportionately on marginalized communities. Bridging the theory-action gap is vital for ensuring that policies promote social equity, environmental justice, and the inclusion of diverse perspectives in decision-making processes.

7. **Technological Opportunities and Risks:**
   Advances in technology present both opportunities and risks for environmental sustainability. Policies must be adaptive and responsive to technological innovations, ensuring that they contribute positively to environmental goals without inadvertently causing harm or exacerbating existing challenges.

8. **Resilience to Environmental Uncertainties:**
   The dynamic nature of environmental challenges requires policies that are resilient and adaptable. Bridging the gap between theory and action involves developing policies that can respond effectively to uncertainties, emerging threats, and changing ecological conditions.

9. **Policy Innovation and Learning:**
   By understanding the factors contributing to the theory-action gap, policymakers can innovate and learn from both successes and failures. This research contributes to a knowledge base that informs the design of more effective, evidence-based environmental policies.

10. **International Commitments and Agreements:**
    Many countries have committed to international agreements and frameworks aimed at addressing environmental issues. Bridging the gap between theory and action is essential for meeting these commitments, such as those outlined in the Paris Agreement, the Convention on Biological Diversity, and the Sustainable Development Goals.

In summary, the significance of the topic lies in its potential to inform and improve the design, implementation, and evaluation of environmental policies. Bridging the gap between theory and action is fundamental to achieving global sustainability goals and addressing the complex challenges facing our planet.

LIMITATIONS & DRAWBACKS

While addressing the gap between environmental policy theory and action is crucial, it's important to recognize and acknowledge the limitations and drawbacks associated with studying this complex and multifaceted topic. Some key limitations include:

1. **Contextual Variability:**
   Environmental policies operate within diverse social, economic, and ecological contexts. What works well in one region or under specific conditions may not be directly applicable in another. The study may face challenges in generalizing findings across diverse contexts.

2. **Temporal Dynamics:**
   Environmental issues and policy landscapes are dynamic and evolve over time. The effectiveness of policies may be influenced by changes in political, economic, and environmental conditions. Long-term assessments are necessary, but they can be challenging due to the time required to observe and analyze policy outcomes.

3. **Interdisciplinary Complexity:**
   Bridging the gap between theory and action in environmental policies requires an interdisciplinary approach. However, navigating the complexities of integrating insights from political science, economics, sociology, and environmental science poses challenges. Achieving a comprehensive understanding may be constrained by disciplinary boundaries.

4. **Data Limitations:**
   Availability and quality of data can be a constraint, especially in the assessment of policy impacts. Comprehensive data on environmental outcomes, stakeholder behaviors, and policy implementation may be lacking or unevenly distributed, impacting the depth and accuracy of the analysis.

5. **Policy Implementation Challenges:**
   The translation of policies into action often faces hurdles related to bureaucratic inefficiencies, political opposition, resource constraints, and conflicting interests among stakeholders. These challenges may hinder the successful execution of even well-designed policies.

6. **Unintended Consequences:**
   Policies designed to address specific environmental issues may have unintended consequences. These unintended outcomes could result from inadequate understanding of complex ecosystems or unforeseen interactions between different policy measures, potentially exacerbating environmental problems.

7. **Power Dynamics and Inequalities:**
   Power dynamics and inequalities within and among stakeholder groups can influence policy outcomes. Certain groups may have more influence in shaping policies, while marginalized communities may bear the disproportionate burden of environmental degradation. Bridging the gap requires addressing underlying power imbalances.

8. **Policy Resistance and Opposition:**
   Resistance from vested interests, industries, or political groups can hinder the successful implementation of environmental policies. Understanding and overcoming opposition to policy change is a critical aspect that the study may need to navigate.

9. **Inadequate Indigenous and Local Inclusion:**
   Despite increasing recognition of the importance of indigenous knowledge and local perspectives, there may still be inadequacies in incorporating these insights into policy frameworks. The study may encounter challenges in ensuring the meaningful inclusion of diverse voices in the policy process.

10. **Complexity of Environmental Challenges:**
    Environmental issues are inherently complex and interconnected. Addressing one aspect of a problem may lead to unintended consequences in another. The study may grapple with the challenge of disentangling these complexities to offer actionable recommendations.

Acknowledging these limitations is essential for a nuanced understanding of the study's scope and potential constraints. While striving to bridge the gap between theory and action in environmental policies, researchers and policymakers must navigate these challenges to enhance the effectiveness of future policy interventions.

CONCLUSION

In conclusion, the study on "Environmental Policies: Bridging the Gap between Theory and Action" holds immense significance in the face of escalating global environmental challenges. The journey through this research has unearthed a diverse array of theoretical frameworks, methodologies, and perspectives that collectively contribute to a deeper understanding of the complexities inherent in environmental policy formulation and implementation. The urgency of addressing environmental issues on a global scale cannot be overstated. Despite the well-crafted theoretical foundations, the persistent gap between environmental policy theory and practical realization remains a critical obstacle. This research has delved into various dimensions, examining institutional structures, stakeholder dynamics, economic considerations, and the transformative potential of technological innovations. As highlighted in the literature review, recent methods, including machine learning, behavioral insights, citizen science, and blockchain technology, are bringing new possibilities to the realm of environmental governance. However, these methods also pose challenges and require careful consideration in their application to ensure ethical, inclusive, and effective policy outcomes.

The limitations and drawbacks identified underscore the complexity of the task at hand. The contextual variability, interdisciplinary nature, and temporal dynamics of environmental policies necessitate a nuanced and adaptive approach. The acknowledgment of power dynamics, inequalities, and unintended consequences is crucial for designing policies that are not only theoretically sound but also attuned to the intricacies of real-world implementation. In navigating these challenges, the theoretical framework, encompassing institutional theory, policy diffusion, ecological modernization, stakeholder theory, and others, has provided a comprehensive lens through which to analyze and understand the dynamics of environmental governance. This multidisciplinary approach is essential for capturing the holistic nature of environmental challenges and ensuring that policy interventions are effective, equitable, and sustainable. As we move forward, the study advocates for a continuous dialogue between researchers, policymakers, and communities. Bridging the gap between theory and action requires a collaborative effort, drawing on the wisdom of diverse stakeholders, including local communities, indigenous groups, and the wider public. Participatory approaches, informed by recent methods such as social network analysis and participatory modeling, can contribute to more inclusive and robust policy processes.

In shaping the future of environmental policies, an adaptive governance approach is indispensable. Policies must evolve in response to changing conditions and emerging threats. The study's insights into scenario planning, adaptive management and resilience contribute to the development of policies that are not only forward-thinking but also capable of withstanding environmental uncertainties. In essence, this research serves as a stepping stone in the ongoing journey toward sustainable

environmental governance. The significance of bridging the gap between theory and action lies not only in the academic realm but also in its potential to effect tangible change on the ground. By navigating the limitations and drawing on the strengths of recent methods and theoretical frameworks, this study contributes to the collective effort to safeguard our planet for current and future generations. As we stand at the intersection of theory and action, the insights gleaned from this research pave the way for a more informed, adaptive, and impactful approach to environmental policy-making.

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