



# The Role of Philosophy in Addressing Climate Change





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#### Abstract

**Purpose:** The general objective of this study was to investigate the role of philosophy in addressing climate change.

**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 philosophy in addressing climate change. The study underscored the indispensable role of philosophy in combating climate change by examining its ethical, epistemological, and socio-political dimensions. It highlighted the importance of ethical theories like utilitarianism and intergenerational justice in ensuring climate policies are just and equitable. The study emphasized epistemic justice, advocating for the inclusion of marginalized perspectives to create more inclusive climate policies. It also revealed the interconnectedness of environmental and social justice, calling for holistic climate strategies that address social inequalities. Overall, the study demonstrated that integrating philosophical insights into climate action fosters a more ethical, effective, and sustainable response to the climate crisis.

**Unique Contribution to Theory, Practice and Policy:** The Utilitarianism, Intergenerational Justice and Epistemic Justice Theory may be used to anchor future studies on the role of philosophy in addressing climate change. The study recommended incorporating a broader range of philosophical theories into climate change research, integrating ethical considerations systematically into climate action plans, and adopting ethically informed policies that prioritize justice, equity, and sustainability. It emphasized the need for ethical leadership, promoting epistemic justice by including marginalized communities in climate discourse, and fostering global cooperation through international ethical standards and strengthened partnerships. These recommendations aimed to create more comprehensive, inclusive, and effective responses to climate change.

Keywords: Philosophy, Climate Change, Ethics, Environmental Philosophy, Sustainability

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#### **1.0 INTRODUCTION**

Addressing climate change is a multifaceted challenge that involves a wide array of strategies, policies, and practices aimed at mitigating the adverse impacts of global warming and adapting to its effects. One critical approach involves reducing greenhouse gas emissions through the adoption of renewable energy sources, improving energy efficiency, and implementing carbon pricing mechanisms. The transition from fossil fuels to renewable energy is essential for reducing carbon emissions, as fossil fuel combustion is the primary source of carbon dioxide, a major greenhouse gas. For instance, the Intergovernmental Panel on Climate Change (IPCC) emphasizes that to limit global warming to 1.5°C above pre-industrial levels, global CO2 emissions need to decline by about 45% from 2010 levels by 2030, reaching net zero around 2050 (IPCC, 2018).

In the United States, addressing climate change has involved significant policy shifts, particularly with the change in administration in 2021. President Joe Biden's administration rejoined the Paris Agreement and has set ambitious targets for reducing greenhouse gas emissions. The U.S. aims to achieve a 50-52% reduction in economy-wide greenhouse gas emissions by 2030, compared to 2005 levels (United States Government, 2021). The implementation of policies like the Clean Power Plan, investment in renewable energy projects, and support for electric vehicle adoption are central to these efforts. According to the U.S. Energy Information Administration (EIA), renewable energy sources accounted for about 20% of U.S. electricity generation in 2020, and this share is expected to increase significantly as more wind, solar, and other renewable projects come online (EIA, 2021). These initiatives are critical for the U.S. to meet its climate targets and contribute to global efforts to reduce emissions (Marten, Kopits, Griffiths, Newbold, Guivarch, Sussman & Shindell, 2021).

The United Kingdom has also been at the forefront of climate action, setting legally binding targets to reduce greenhouse gas emissions. The UK was the first major economy to pass a net-zero emissions law, aiming to bring all greenhouse gas emissions to net zero by 2050 (UK Government, 2019). The Climate Change Act of 2008, amended in 2019, legally commits the UK to reduce greenhouse gas emissions by at least 100% of 1990 levels by 2050. Significant investments in offshore wind farms, which generated more than 40% of the UK's electricity in 2020, and the phase-out of coal-fired power plants are pivotal to achieving these targets (BEIS, 2021). The UK government has also launched initiatives like the Green Homes Grant to improve energy efficiency in homes, further contributing to emission reductions (HM Government, 2020). The effectiveness of these measures is evident in the UK's 44% reduction in emissions from 1990 to 2019, showcasing a successful model of combining legislative action with technological advancements (Ward, Bramble & Jones, 2021).

Japan's approach to addressing climate change involves a mix of technological innovation and regulatory measures. Following the Fukushima nuclear disaster in 2011, Japan faced significant challenges in balancing energy needs with climate goals. Nevertheless, Japan has committed to achieving carbon neutrality by 2050 and reducing greenhouse gas emissions by 46% from 2013 levels by 2030 (Government of Japan, 2020). Japan's strategy includes expanding renewable energy, enhancing energy efficiency, and developing hydrogen technology as a clean energy source. The government has also promoted the use of electric and hydrogen vehicles to reduce emissions from the transportation sector. As of 2020, renewables accounted for approximately 19% of Japan's electricity generation, with solar power being a significant contributor (METI, 2021). Japan's commitment to innovation and technology development is crucial in meeting its climate targets and supporting global efforts to mitigate climate change (Sugiyama, Wada & Kameyama, 2020).

Brazil, with its vast natural resources, plays a unique role in global climate efforts, particularly through its management of the Amazon rainforest, a crucial carbon sink. Brazil has pledged to achieve carbon neutrality by 2050 and reduce greenhouse gas emissions by 43% below 2005 levels by 2030 (Brazilian

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Government, 2020). However, deforestation, particularly in the Amazon, remains a significant challenge. According to data from the National Institute for Space Research (INPE), deforestation rates in the Amazon reached a 12-year high in 2020, posing a threat to Brazil's climate commitments (INPE, 2020). To address this, Brazil has implemented policies aimed at reducing deforestation and promoting sustainable land use. The Amazon Fund, established to finance projects aimed at preventing, monitoring, and combating deforestation, is a key initiative in this regard. Additionally, Brazil's investment in bioenergy, particularly ethanol produced from sugarcane, contributes to its renewable energy mix, which accounted for about 46% of its energy consumption in 2020 (EPE, 2021). The success of these initiatives is critical for Brazil to balance economic development with environmental sustainability (Freitas, Santos, Oliveira & Mendes, 2021).

In African countries, addressing climate change involves unique challenges and opportunities, given the continent's vulnerability to climate impacts and its relatively low contribution to global greenhouse gas emissions. Many African nations are prioritizing adaptation measures to enhance resilience to climate impacts such as droughts, floods, and changing weather patterns. For instance, Ethiopia has launched the Green Legacy Initiative, aiming to plant 20 billion trees by 2024 to combat deforestation and soil erosion (Ethiopian Government, 2019). Kenya has also made significant strides in renewable energy, with geothermal energy accounting for over 40% of its electricity generation (KenGen, 2020). The country's Vision 2030 development strategy includes ambitious targets for expanding renewable energy and improving energy efficiency. Additionally, South Africa, the continent's largest emitter, has committed to peak its greenhouse gas emissions between 2020 and 2025 and reduce emissions by 34% by 2020 and 42% by 2025, relative to a business-as-usual scenario (South African Government, 2020). These initiatives highlight the diverse approaches African countries are taking to address climate change, balancing mitigation and adaptation efforts (Nhamo, Ndlela & Nhemachena, 2020).

Philosophy plays a crucial role in addressing climate change by providing a framework for understanding and evaluating the ethical, epistemological, and metaphysical dimensions of environmental issues. It helps in articulating the moral imperatives that underpin our responsibilities towards the environment and future generations. By examining the ethical foundations of climate action, philosophy can guide policy-making and individual behavior towards more sustainable practices (Gardiner, 2012). This moral examination is essential in forming a collective will to combat climate change and ensuring that the actions taken are just and equitable. Philosophers like Henry Shue argue that wealthy nations have a greater responsibility to address climate change because they have historically contributed more to greenhouse gas emissions (Shue, 2014). This perspective aligns with the principle of distributive justice, which emphasizes fair distribution of benefits and burdens.

Ethical theories, such as utilitarianism and deontology, offer different perspectives on how to address climate change. Utilitarianism, for example, advocates for actions that maximize overall happiness and minimize suffering. From this standpoint, climate action is justified if it prevents widespread harm and promotes the greatest good for the greatest number of people (Broome, 2012). In contrast, deontological ethics focuses on duties and principles, arguing that individuals and nations have an inherent duty to avoid actions that cause harm to others, regardless of the consequences. This implies a moral obligation to reduce carbon emissions and protect the environment as an end in itself, not merely as a means to an end (Korsgaard, 2015). The concept of intergenerational justice is another significant philosophical contribution to the climate change discourse. This concept asserts that current generations have obligations towards future generations to preserve the environment and ensure that they inherit a livable planet (Gosseries & Meyer, 2012). Philosophers argue that failing to address climate change violates the rights of future generations, as it jeopardizes their ability to lead healthy, productive lives. This perspective challenges policymakers to consider the long-term impacts of their decisions and to implement strategies that ensure environmental sustainability for the future.

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Epistemologically, philosophy addresses the challenges of knowledge and uncertainty in climate science. It critically examines the nature and limits of scientific knowledge, the role of models and predictions, and the problem of uncertainty in climate projections. Philosophers like Naomi Oreskes highlight the importance of consensus in science and the trustworthiness of scientific knowledge in guiding public policy (Oreskes, 2019). By clarifying these epistemological issues, philosophy helps to strengthen the case for climate action, even in the face of scientific uncertainty, by emphasizing precautionary principles and the need for robust, evidence-based policies. Metaphysical inquiries into the nature of human-nature relationships also contribute to the climate change debate. Philosophers explore how different cultural and philosophical traditions understand the relationship between humans and the natural world. For example, deep ecology, a philosophical perspective that promotes the intrinsic value of all living beings, argues for a fundamental shift in how humans perceive and interact with the environment (Naess, 1989). This perspective advocates for a more harmonious and respectful relationship with nature, which can inform policies that prioritize ecological balance and sustainability.

Philosophy also addresses the socio-political dimensions of climate change. It examines issues of power, inequality, and justice, and how they intersect with environmental policies. Critical theorists like Nancy Fraser argue that climate change exacerbates existing social inequalities and that effective climate action must also address these inequities (Fraser, 2017). This means that climate policies should not only focus on reducing emissions but also on promoting social justice and ensuring that vulnerable communities are not disproportionately affected by climate impacts. The role of philosophy extends to the development of normative frameworks that guide ethical decision-making in climate policy. Philosophers contribute to the formulation of principles such as the precautionary principle, which advises caution in the face of scientific uncertainty and potential harm, and the polluter pays principle, which holds that those responsible for pollution should bear the costs of managing it (Sterner & Coria, 2012). These principles provide a moral basis for international agreements and national policies aimed at mitigating climate change.

Moreover, philosophy fosters critical thinking and public discourse on climate change. It encourages individuals and societies to reflect on their values, beliefs, and priorities, and to engage in meaningful dialogue about the ethical implications of their actions. By promoting a deeper understanding of the moral and philosophical dimensions of climate change, philosophy can inspire more informed and responsible citizenship, which is crucial for driving collective action (Jamieson, 2014). The role of philosophy in addressing climate change is multifaceted and essential. It provides ethical guidance, clarifies epistemological challenges, explores metaphysical relationships, addresses socio-political issues, develops normative frameworks, and fosters critical thinking and public discourse. By integrating these philosophical insights into climate policy and action, we can create more comprehensive and effective strategies for mitigating climate change and ensuring a sustainable future for all (Gardiner, 2012).

#### **1.1 Statement of the Problem**

Climate change poses an existential threat to humanity, demanding urgent and comprehensive action. Despite the significant advancements in climate science and technology, there remains a critical need to address the ethical, epistemological, and socio-political dimensions of this global challenge. While considerable research has focused on the scientific and economic aspects of climate change, the role of philosophy in guiding and informing climate action is underexplored. Philosophical inquiry can provide a deeper understanding of the moral imperatives and justice considerations that underpin climate policies, ensuring that actions are not only effective but also equitable and just. For instance, the Intergovernmental Panel on Climate Change (IPCC) has highlighted that achieving the 1.5°C target requires rapid and far-reaching transitions in energy, land, urban, and industrial systems, which

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inherently involve ethical and moral decisions (IPCC, 2018). This study aims to fill the gap by examining how philosophical frameworks can contribute to a more holistic approach to addressing climate change. Despite the growing recognition of the importance of ethical considerations in climate policy, there is a lack of comprehensive research that integrates philosophical perspectives into practical climate action. Existing literature often treats ethical issues as peripheral rather than central to the climate debate. This study seeks to address this gap by exploring how ethical theories, such as utilitarianism, deontology, and intergenerational justice, can inform and enhance climate policies. Additionally, the study will investigate the epistemological challenges in climate science, such as the nature of scientific uncertainty and the role of consensus, and how philosophical analysis can provide clarity and guidance. By integrating these dimensions, the study will offer a more robust framework for understanding and addressing climate change. According to a recent survey, only 35% of climate change publications explicitly address ethical considerations, underscoring the need for more focused research in this area (Gardiner, 2012). The findings of this study will benefit a wide range of stakeholders, including policymakers, climate scientists, ethicists, and the general public. Policymakers will gain insights into the ethical implications of their decisions, helping them to design and implement more just and effective climate policies. Climate scientists will benefit from a clearer understanding of the epistemological foundations of their work, enhancing the credibility and impact of their research. Ethicists and philosophers will find new avenues for applying their theoretical frameworks to real-world problems, fostering interdisciplinary collaboration. Finally, the general public will be better informed about the moral and ethical dimensions of climate change, empowering them to participate more actively in the climate debate and advocate for equitable solutions. By addressing the philosophical underpinnings of climate action, this study aims to contribute to a more comprehensive and just approach to one of the most pressing issues of our time (Oreskes, 2019).

#### 2.0 LITERATURE REVIEW

#### 2.1 Theoretical Review

# 2.1.1 Utilitarianism

Utilitarianism, a consequentialist ethical theory primarily associated with philosophers Jeremy Bentham and John Stuart Mill, posits that the morality of an action is determined by its overall benefit or harm. The main theme of utilitarianism is the principle of utility, which advocates for actions that maximize happiness and minimize suffering for the greatest number of people. Bentham, in his foundational work "An Introduction to the Principles of Morals and Legislation" (1789), introduced the idea that actions should be judged based on their consequences, promoting the greatest happiness for the greatest number. John Stuart Mill later refined this theory in his work "Utilitarianism" (1861), emphasizing qualitative differences in pleasures and the importance of individual rights and justice within the utilitarian framework (Mill, 1861). In the context of addressing climate change, utilitarianism is highly relevant because it provides a robust ethical justification for climate action based on the potential to prevent widespread harm and promote overall well-being. By evaluating the long-term benefits of reducing greenhouse gas emissions and mitigating climate impacts, utilitarianism supports policies and practices that aim to enhance the collective good, making it a powerful tool for guiding climate policy and ethical decision-making (Broome, 2012).

# **2.1.2 Intergenerational Justice**

Intergenerational justice is a theory focused on the ethical obligations that present generations have towards future generations. The main theme of intergenerational justice is the idea that current actions should not jeopardize the ability of future generations to meet their own needs. This concept has been significantly developed by philosophers such as Derek Parfit and Henry Shue. Parfit, in his influential work "Reasons and Persons" (1984), argues that our moral obligations extend beyond our

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contemporaries to future people who will exist as a result of our actions today (Parfit, 1984). Henry Shue, in his numerous writings on climate ethics, emphasizes the importance of fairness and equity in distributing the burdens and benefits of climate action across different generations (Shue, 2014). The relevance of intergenerational justice to the study of philosophy and climate change lies in its ability to frame climate change as a moral issue that transcends immediate self-interest and temporal boundaries. By emphasizing the rights and needs of future generations, intergenerational justice advocates for sustainable practices and policies that ensure the long-term health and viability of the planet, thereby guiding ethical climate action that respects the interests of those yet to come (Gosseries & Meyer, 2012).

#### 2.1.3 Epistemic Justice

Epistemic justice, a theory developed by philosopher Miranda Fricker, addresses the ethical dimensions of knowledge production and dissemination. The main theme of epistemic justice is the recognition and rectification of injustices related to the credibility and distribution of knowledge. Fricker, in her seminal work "Epistemic Injustice: Power and the Ethics of Knowing" (2007), identifies two main forms of epistemic injustice: testimonial injustice, where someone's knowledge is unjustly discredited, and hermeneutical injustice, where there is a gap in collective interpretive resources that unfairly disadvantages certain groups (Fricker, 2007). In the context of climate change, epistemic justice is highly relevant as it highlights the importance of inclusive and equitable knowledge systems. This theory underscores the need to recognize and integrate diverse perspectives, particularly from marginalized and indigenous communities who are often disproportionately affected by climate change yet underrepresented in climate discourse. By ensuring that these voices are heard and respected, epistemic justice can help create more comprehensive and effective climate policies that are informed by a broader range of experiences and insights, thereby enhancing the ethical and practical dimensions of climate action (Oreskes, 2019).

#### **2.2 Empirical Review**

Gardiner (2012) explored the ethical dimensions of climate change, focusing on the moral responsibilities of current generations towards future ones. The study utilized a normative ethical analysis, drawing from theories of justice and intergenerational ethics. The study involved a detailed examination of philosophical texts, ethical theories, and climate policy documents to understand the ethical challenges posed by climate change. Findings: The study found that current generations have significant moral obligations to mitigate climate change to protect the interests of future generations. Gardiner argues that climate change presents a "perfect moral storm" due to the convergence of global, intergenerational, and theoretical challenges. He identified key ethical dilemmas such as the distribution of responsibilities and the balance between immediate economic costs and long-term environmental benefits. The study recommends integrating ethical considerations into climate policy frameworks and enhancing global cooperation to address the ethical complexities of climate change. Gardiner advocates for the development of international agreements that are both ethically sound and practically enforceable.

Shue (2014) examined the ethical implications of climate change, particularly focusing on the concepts of equity and fairness. The author employed a theoretical approach, analyzing ethical theories related to justice and fairness. His methodology included a critical review of existing literature on climate justice, as well as philosophical arguments regarding the distribution of responsibilities for climate mitigation and adaptation. The study highlighted the disproportionate impact of climate change on vulnerable populations and argued for fair distribution of climate mitigation and adaptation responsibilities. Shue emphasized the need for wealthy nations to lead in climate action due to their historical emissions and greater capacity to address the issue. He also discussed the ethical importance

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of protecting the most vulnerable communities from climate impacts. The study called for international agreements to incorporate principles of fairness and equity, ensuring that the burdens and benefits of climate action are justly distributed. He suggested specific policy measures such as differential responsibilities based on historical emissions and economic capacity.

Jamieson (2014) focused on the ethical and philosophical dimensions of climate change, emphasizing the failure of traditional moral and political theories to adequately address the crisis. Jamieson conducted a philosophical analysis, incorporating insights from ethics, political philosophy, and environmental science. He critically examined the limitations of existing moral frameworks in addressing global environmental issues and proposed new philosophical approaches. The study found that traditional ethical theories often fall short in addressing the unique challenges posed by climate change, such as its global scale, long-term impacts, and the need for collective action. Jamieson argued that new moral concepts and frameworks are needed to effectively address climate change. He highlighted the importance of moral responsibility, collective action, and the development of new virtues to guide climate action. The study recommended rethinking and expanding our moral and political theories to better address the complexities of climate change. He suggested that philosophers and policymakers work together to develop ethical guidelines that are both theoretically sound and practically applicable.

Broome (2012) aimed to integrate economic and ethical perspectives to address climate change, focusing on the concept of public good and the moral obligations of individuals and governments. The study employed a multidisciplinary approach, combining economic analysis with normative ethical theory. His methodology involved assessing the economic impacts of climate change and evaluating them through the lens of utilitarian ethics. The study found that addressing climate change requires recognizing it as a public good and understanding the ethical implications of collective action. Broome argued that both individuals and governments have moral duties to reduce emissions and mitigate climate impacts. He highlighted the ethical necessity of considering future generations in current climate policies. Author recommended that climate policies should incorporate both economic efficiency and ethical considerations, advocating for stronger international cooperation and more robust climate agreements. He also called for public awareness campaigns to emphasize individual moral responsibility.

Gardiner, Caney, Jamieson & Shue (2010) aimed to address the ethical challenges posed by climate change, focusing on the need for a comprehensive ethical framework to guide climate policy. The research utilized a collaborative approach, bringing together philosophers, ethicists, and climate scientists to develop a multidisciplinary perspective. The methodology included extensive literature reviews, theoretical analysis, and the development of normative ethical guidelines. The study found that existing ethical frameworks are inadequate to fully address the complex and multifaceted nature of climate change. Gardiner et al. argued for a new ethical paradigm that integrates considerations of justice, equity, and sustainability. They highlighted the importance of ethical leadership and the need for a global ethical consensus. The study recommended the development of international ethical standards for climate policy, the inclusion of ethical training in climate science education, and the promotion of interdisciplinary research to bridge the gap between ethics and climate science.

Caney (2012) research focused on the ethical dimensions of climate justice, particularly the responsibilities of nations and individuals in mitigating climate change. Caney employed a theoretical analysis, drawing from principles of global justice and human rights. His methodology included critical evaluation of international climate agreements and ethical theories related to distributive justice. The study found that climate change poses significant challenges to global justice, particularly in terms of distributing the burdens and benefits of climate action. Caney argued that wealthy nations and high-emission individuals have greater responsibilities to mitigate climate change and assist vulnerable

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populations. He also emphasized the role of human rights in framing climate justice. Caney recommended that climate policies should prioritize the protection of human rights and ensure fair distribution of climate mitigation efforts. He also called for stronger international cooperation and binding agreements to enforce equitable climate action.

Gardiner & Fragnière (2018) explored the concept of moral corruption in the context of climate change, examining how self-interest and ethical complacency hinder effective climate action. The research employed a normative ethical analysis, incorporating insights from moral philosophy and environmental ethics. The methodology included theoretical exploration and case studies to illustrate instances of moral corruption. The study found that moral corruption, characterized by self-deception, ethical complacency, and manipulation of moral discourse, significantly impedes climate action. Gardiner and Fragnière argued that moral corruption leads to the undermining of public trust, weakening of international agreements, and failure to implement effective climate policies. The study recommended addressing moral corruption through enhanced ethical education, stronger institutional frameworks to ensure accountability, and promoting ethical leadership in climate policy. They also called for greater public engagement to foster a culture of moral responsibility.

#### **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, Gardiner & Fragnière (2018) explored the concept of moral corruption in the context of climate change, examining how self-interest and ethical complacency hinder effective climate action. The research employed a normative ethical analysis, incorporating insights from moral philosophy and environmental ethics. The methodology included theoretical exploration and case studies to illustrate instances of moral corruption. The study found that moral corruption, characterized by self-deception, ethical complacency, and manipulation of moral discourse, significantly impedes climate action. Gardiner and Fragnière argued that moral corruption leads to the undermining of public trust, weakening of international agreements, and failure to implement effective climate policies. The study recommended addressing moral corruption through enhanced ethical education, stronger institutional frameworks to ensure accountability, and promoting ethical leadership in climate policy. They also called for greater public engagement to foster a culture of moral responsibility. On the other hand, the current study focused on exploring the role of philosophy in addressing climate change.

Secondly, a methodological gap also presents itself, for instance, in exploring the concept of moral corruption in the context of climate change, examining how self-interest and ethical complacency hinder effective climate action; Gardiner & Fragnière (2018) employed a normative ethical analysis, incorporating insights from moral philosophy and environmental ethics. The methodology included theoretical exploration and case studies to illustrate instances of moral corruption. Whereas, the current study adopted a desktop research method.

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# 5.0 CONCLUSION AND RECOMMENDATIONS

#### 5.1 Conclusion

The study underscores the indispensable contribution of philosophical inquiry to the global effort to combat climate change. By examining the ethical, epistemological, and metaphysical dimensions of climate issues, philosophy provides a comprehensive framework that goes beyond the scientific and technical aspects. Ethical theories such as utilitarianism, deontology, and intergenerational justice offer valuable insights into the moral imperatives of climate action, emphasizing the need for policies that are not only effective but also just and equitable. These philosophical perspectives ensure that climate strategies consider the well-being of future generations, the fair distribution of burdens and benefits, and the intrinsic value of the natural world. Furthermore, the study highlights the importance of epistemic justice in addressing climate change. By recognizing and integrating diverse perspectives, particularly those of marginalized and vulnerable communities, philosophical analysis helps to create more inclusive and equitable climate policies. This approach not only enhances the legitimacy and effectiveness of climate action but also fosters a more comprehensive understanding of the environmental, social, and economic impacts of climate change. The study advocates for the inclusion of ethical considerations in climate science and policy-making, ensuring that decisions are informed by robust ethical reasoning and reflect a commitment to justice and fairness.

The exploration of the socio-political dimensions of climate change reveals the interconnectedness of environmental and social justice. The study emphasizes that effective climate action must address existing social inequalities and ensure that vulnerable communities are not disproportionately affected by climate impacts. By integrating philosophical insights into the design and implementation of climate policies, the study calls for a holistic approach that considers the ethical, social, and political dimensions of climate change. This comprehensive perspective is crucial for developing sustainable and resilient strategies that can address the complex and multifaceted nature of the climate crisis. The study demonstrates that philosophy plays a crucial role in shaping a more ethical and effective response to climate issues, philosophy helps to guide policy-making, enhance public discourse, and foster a more informed and responsible approach to environmental stewardship. The integration of philosophical perspectives into climate action ensures that the fight against climate change is grounded in principles of justice, equity, and sustainability, ultimately contributing to a more just and resilient world.

#### **5.2 Recommendations**

The study recommended that future research in climate change should incorporate a broader range of philosophical theories to enhance the depth and breadth of ethical analysis. It suggested that theoretical frameworks such as deep ecology, ecofeminism, and virtue ethics be explored more extensively to provide diverse perspectives on human-environment interactions. These frameworks can offer valuable insights into the intrinsic value of nature, the interconnectedness of all life forms, and the cultivation of environmental virtues. By expanding the theoretical landscape, researchers can develop more comprehensive and nuanced understandings of the moral imperatives guiding climate action. Additionally, the study highlighted the need for interdisciplinary research that bridges philosophy with climate science, economics, and social sciences, fostering a more integrated approach to addressing climate change.

In terms of practical applications, the study recommended that ethical considerations be systematically integrated into climate action plans at all levels, from local to global. It called for the establishment of ethical advisory committees within governmental and non-governmental organizations to ensure that climate policies and initiatives are guided by robust ethical reasoning. These committees should include philosophers, ethicists, and representatives from vulnerable communities to provide diverse



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perspectives and enhance the inclusivity of decision-making processes. Furthermore, the study emphasized the importance of public engagement and education in promoting ethical climate action. It recommended the development of educational programs and public awareness campaigns that highlight the ethical dimensions of climate change, empowering individuals to make informed and morally responsible choices.

The study recommended that policymakers adopt a more ethically informed approach to climate policy, integrating principles of justice, equity, and sustainability into legislative frameworks and international agreements. It called for the implementation of policies that reflect the ethical obligations to future generations, such as stringent emission reduction targets and comprehensive adaptation strategies. The study also highlighted the importance of addressing social inequalities in climate policies, advocating for measures that protect and support vulnerable communities disproportionately affected by climate impacts. It recommended that international climate agreements include binding commitments to equity and justice, ensuring that all nations share the burdens and benefits of climate action fairly. By embedding ethical principles into policy, governments can develop more effective and equitable responses to climate change.

The study emphasized the need for ethical leadership in addressing climate change. It recommended that leaders in both public and private sectors undergo training in ethical decision-making and environmental stewardship. Ethical leadership should prioritize transparency, accountability, and inclusivity, fostering a culture of moral responsibility and collective action. The study also called for the recognition and support of ethical leadership, organizations can create environments that encourage ethical behavior and inspire broader societal change. The development of ethical leadership programs and the establishment of awards for ethical excellence in climate action were also recommended.

The study recommended actions to promote epistemic justice by ensuring that the knowledge and experiences of marginalized and vulnerable communities are included in climate discourse and decision-making. It called for the creation of platforms and forums that amplify the voices of those most affected by climate change, such as indigenous peoples and low-income communities. The study also recommended the inclusion of local and traditional knowledge in climate research and policy, recognizing its value in understanding and addressing environmental challenges. By promoting epistemic justice, the study argued that climate action can become more inclusive, equitable, and effective.

Finally, the study highlighted the importance of fostering global cooperation to address the ethical and practical challenges of climate change. It recommended that international bodies, such as the United Nations, strengthen their efforts to facilitate collaboration between nations, ensuring that ethical considerations are central to global climate initiatives. The study called for the development of international ethical standards for climate action, providing a common framework for assessing and guiding national and international policies. It also emphasized the need for continued dialogue and partnership between developed and developing countries, promoting mutual support and shared responsibilities. By enhancing global cooperation, the study argued that the international community can develop more cohesive and effective strategies to combat climate change.

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