



International Journal of Multidisciplinary Research and Growth Evaluation.

Legislative Responses to Climate Change: A Comparative Analysis of Nigeria and the USA

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Article Info

ISSN (online): 2582-7138

Volume: 05

Issue: 03

May-June 2024

Received: 08-05-2024

Accepted: 01-06-2024

Page No: 1053-1058

Abstract

Legislative responses to climate change vary significantly between countries, often reflecting a combination of political, economic, and social factors. A comparative analysis of Nigeria and the USA reveals distinct approaches shaped by their unique contexts, though both face similar challenges in addressing this global crisis. In Nigeria, a developing nation with a growing population and economy heavily dependent on fossil fuels, legislative efforts to combat climate change have been relatively nascent. The country faces a multitude of environmental challenges, including deforestation, desertification, and pollution, exacerbated by inadequate infrastructure and weak enforcement mechanisms. However, recent years have seen some progress, with the Nigerian government acknowledging the need for action through initiatives like the National Climate Change Policy and Response Strategy. Legislative measures such as the Climate Change Bill aim to institutionalize climate action, although implementation remains a challenge due to limited resources and competing priorities. Conversely, the USA, as one of the world's largest emitters of greenhouse gases, has a long history of climate policy debate and action. While federal efforts have fluctuated depending on the political landscape, individual states have taken significant strides in implementing climate legislation. States like California have enacted ambitious measures to reduce emissions, promote renewable energy, and enhance resilience to climate impacts. At the federal level, policies such as the Clean Air Act and the Paris Agreement (from which the USA had withdrawn but later rejoined) demonstrate a commitment to addressing climate change, although partisan divisions often hinder progress on comprehensive legislation. A key difference between the two countries lies in their levels of development and capacity to mitigate and adapt to climate change. While the USA possesses greater financial and technological resources, Nigeria grapples with structural challenges that impede effective climate action. Additionally, socio-economic disparities within each country influence the distribution of environmental risks and benefits, highlighting the importance of equity in climate policy. While Nigeria and the USA approach legislative responses to climate change from different perspectives, both face common obstacles in transitioning to a sustainable future. Effective climate policy requires not only legislative action but also international cooperation, technological innovation, and socio-economic transformation to mitigate the impacts of climate change and build resilience for future generations.

DOI: <https://doi.org/10.54660/IJMARGE.2024.5.3.1053-1058>

Keywords: Climate Change, Nigeria, USA, Legislative, Review

1. Introduction

The urgency of climate change is undeniable, with scientific consensus highlighting the existential threat it poses to the planet's ecosystems, societies, and economies (Upreti, 2023.). The consequences of rising global temperatures, extreme weather events,

melting ice caps, and sea-level rise are already being felt worldwide. Urgent action is required to mitigate these impacts and transition towards a sustainable future. Legislative responses play a pivotal role in addressing climate change by providing a framework for implementing policies, regulations, and incentives to reduce greenhouse gas emissions, promote renewable energy adoption, and enhance resilience to climate impacts. Effective legislation can drive systemic changes across sectors, mobilize resources, and catalyze innovation to tackle the multifaceted challenges posed by climate change (Ghorbani *et al.*,2023).

Nigeria and the USA serve as compelling case studies for comparative analysis due to their diverse socio-economic contexts, geographical characteristics, and legislative approaches to climate change (Odibo, 2023). Nigeria, as a developing nation in Africa, grapples with environmental challenges such as deforestation, desertification, and pollution, while also facing socio-economic disparities and infrastructure limitations. In contrast, the USA, as one of the world's largest economies and greenhouse gas emitters, navigates complex political dynamics, varying state-level initiatives, and federal policies that shape its response to climate change. By examining the legislative landscapes of these two countries, we can gain insights into the effectiveness, challenges, and opportunities inherent in addressing climate change at different scales and stages of development (Toimil *et al.*,2020).

2. Legislative Landscape in Nigeria

Nigeria faces a plethora of environmental challenges that are exacerbated by its rapidly growing population, urbanization, and industrialization (Yusuf, 2023). These challenges include deforestation, desertification, soil degradation, biodiversity loss, water pollution, and air pollution. These issues are further compounded by inadequate waste management practices, unsustainable agricultural practices, and weak environmental governance (Abubakar *et al.*,2022). The degradation of natural resources not only threatens the country's ecosystems and biodiversity but also undermines food security, public health, and socio-economic development.

Recognizing the urgent need to address climate change, Nigeria developed the National Climate Change Policy and Response Strategy (NCCPRS) in 2012 (ORADI, 2020). The NCCPRS provides a comprehensive framework for coordinating climate change activities across various sectors and levels of government. It aims to mainstream climate change considerations into national development planning and promote climate-resilient pathways for sustainable development. The policy outlines strategies for mitigation, adaptation, capacity-building, technology transfer, and financing to address the impacts of climate change (Hallegatte,2020).

In 2017, Nigeria introduced the Climate Change Bill to provide a legal framework for addressing climate change issues comprehensively (Izoukumor, 2022). The bill seeks to establish a Climate Change Commission responsible for coordinating climate change activities, developing climate change mitigation and adaptation plans, and facilitating climate finance mechanisms. It also proposes measures to promote renewable energy, enhance energy efficiency, reduce greenhouse gas emissions, and mainstream climate change considerations into sectoral policies and programs (Karimipour *et al.*,2021).

Despite the existence of legislative frameworks such as the NCCPRS and the Climate Change Bill, Nigeria faces significant challenges in implementing and enforcing climate change policies (Amuda,2023). Limited institutional capacity, inadequate funding, political instability, corruption, and bureaucratic inefficiencies hinder effective implementation. There is also a lack of awareness and technical expertise at the grassroots level, which poses barriers to community engagement and participation in climate action initiatives (Boyle *et al.*,2022). Additionally, the decentralized nature of governance in Nigeria complicates coordination and collaboration among different government agencies and stakeholders (Adekola *et al.*,2020). Socio-economic factors play a crucial role in shaping Nigeria's legislative responses to climate change (Ogah, 2021). The country's heavy reliance on fossil fuels, particularly oil and gas, for revenue generation and economic development presents a challenge to transitioning towards low-carbon alternatives. The extractive industries contribute significantly to greenhouse gas emissions and environmental degradation, making it politically challenging to enact policies that may threaten vested interests and economic growth (Pouresmaeili *et al.*,2023). Moreover, poverty, inequality, and limited access to basic services exacerbate vulnerability to climate change impacts, particularly among marginalized communities. Addressing these socio-economic disparities requires holistic approaches that prioritize social equity, inclusive development, and sustainable resource management.

2.1 Legislative Landscape in the USA

The United States is one of the world's largest emitters of greenhouse gases, primarily due to its reliance on fossil fuels for energy production, transportation, and industrial activities (Yoro and Daramola, 2020). The country's high per capita emissions contribute significantly to global climate change, despite representing a relatively small fraction of the world's population. The USA's historical contribution to carbon emissions and its continued reliance on carbon-intensive industries underscore the importance of robust climate policies at the national and subnational levels (Song *et al.*, 2023).

The USA has a complex history of climate policy debate and action, characterized by partisan divisions, lobbying from industry interests, and fluctuations in political will (Basseches *et al.*,2022). While efforts to address climate change have been underway for decades, progress has been uneven and subject to political priorities and leadership changes. The passage of landmark legislation such as the Clean Air Act in 1970 laid the groundwork for regulating air pollutants, including greenhouse gases (Richardson, 2020). However, subsequent policy developments have been marked by contentious debates over the scientific consensus on climate change, the role of government regulation, and the trade-offs between environmental protection and economic growth.

In the absence of comprehensive federal action, several states have taken the lead in implementing ambitious climate policies to reduce emissions, promote renewable energy, and enhance resilience to climate impacts (Shi and Moser, 2021). California, in particular, has emerged as a global leader in climate action, with pioneering initiatives such as the Global Warming Solutions Act (AB 32) and the establishment of a cap-and-trade program to limit greenhouse gas emissions

from major sources. Other states, such as New York, Massachusetts, and Washington, have also adopted aggressive climate targets and implemented various measures to transition towards a low-carbon economy (Semmler *et al.*, 2021).

At the federal level, the USA has enacted several landmark environmental laws that provide the legal framework for addressing climate change (Lazarus, 2023). The Clean Air Act, originally passed in 1970 and subsequently amended, authorizes the Environmental Protection Agency (EPA) to regulate air pollutants, including greenhouse gases. The USA also played a key role in negotiating the Paris Agreement, a landmark international treaty aimed at limiting global warming to well below 2 degrees Celsius above pre-industrial levels. However, the USA's commitment to climate action has been subject to political shifts, with the decision to withdraw from the Paris Agreement under the Trump administration and subsequent re-engagement under the Biden administration highlighting the partisan dynamics surrounding climate policy (Alvarez, 2020).

Partisan divisions and ideological differences have long been obstacles to comprehensive climate legislation in the USA (Doell *et al.*, 2021). Political polarization, coupled with lobbying from fossil fuel industries and skepticism towards government intervention, have hindered efforts to enact ambitious climate policies at the federal level. While there is growing bipartisan recognition of the need to address climate change, disagreements persist over the appropriate role of government, the balance between environmental protection and economic growth, and the distribution of costs and benefits associated with climate policies. Overcoming these challenges will require bipartisan cooperation, public engagement, and leadership at all levels of government to advance meaningful climate action (Raymond, 2023).

In conclusion, the legislative landscapes of Nigeria and the USA reflect the diverse challenges, opportunities, and dynamics shaping climate policy responses in different contexts (Okoye *et al.*, 2024; Lamb and Minx, 2020). While both countries face significant obstacles in addressing climate change, they also demonstrate varying degrees of commitment, innovation, and resilience in tackling this global crisis. By examining the legislative approaches of Nigeria and the USA, policymakers, researchers, and practitioners can identify lessons learned, best practices, and areas for collaboration to accelerate progress towards a sustainable and climate-resilient future (Van *et al.*, 2021).

2.2 Comparative Analysis

Nigeria and the USA represent starkly different levels of development and capacity, which significantly influence their respective approaches to climate policy (Akindejoye and Ilugbusi, 2019; Megarry *et al.*, 2024). The USA, as a highly industrialized and technologically advanced nation, possesses greater financial resources, institutional capacity, and technological expertise to address climate change (Jewell and Cherp, 2020; Okoye *et al.*, 2024). Its robust infrastructure, research institutions, and regulatory frameworks provide a solid foundation for implementing and enforcing climate policies. In contrast, Nigeria, as a developing country with limited resources and infrastructure, faces significant challenges in responding to climate change (Shiru *et al.*, 2020). The country's weak governance structures, inadequate funding, and institutional capacity constraints hinder its ability to effectively mitigate and adapt to climate

change impacts (Omukuti, 2020; Ahmad *et al.*, 2024).

Socio-economic disparities play a critical role in shaping the effectiveness of climate policies in both Nigeria and the USA (Evans *et al.*, 2023; Ismail *et al.*, 2022). In Nigeria, poverty, inequality, and limited access to basic services exacerbate vulnerability to climate change impacts, particularly among marginalized communities. These disparities hinder the equitable distribution of resources and opportunities for climate adaptation and resilience-building efforts (Kundu *et al.*, 2020). Similarly, in the USA, socio-economic inequalities intersect with environmental injustices, with low-income and minority communities disproportionately bearing the burden of pollution and climate impacts. Addressing these disparities requires targeted interventions that prioritize social equity, community empowerment, and inclusive decision-making processes in climate policy development and implementation (Bell and Reed, 2022).

Despite their differences in levels of development and capacity, Nigeria and the USA share some commonalities in their legislative approaches to climate change (Murali, 2021). Both countries have developed national policies and strategies to address climate change, albeit with varying degrees of implementation and enforcement. Nigeria's National Climate Change Policy and Response Strategy and the USA's federal legislation, such as the Clean Air Act and the Paris Agreement, demonstrate a commitment to reducing greenhouse gas emissions and promoting sustainable development (Lima *et al.*, 2020). However, the USA's decentralized governance structure allows for greater flexibility and innovation at the state level, leading to the adoption of diverse climate policies and initiatives, such as California's cap-and-trade program and renewable energy mandates (Louis, 2022).

International cooperation plays a crucial role in advancing climate action and addressing global challenges such as climate change (Klenert, 2020). Both Nigeria and the USA are parties to international agreements and treaties aimed at mitigating greenhouse gas emissions, promoting clean energy transitions, and enhancing climate resilience. The Paris Agreement, in particular, provides a framework for countries to collaborate and coordinate their efforts to limit global warming and adapt to its impacts. However, challenges remain in translating international commitments into meaningful action, particularly in the face of geopolitical tensions, trade disputes, and competing national interests (Crochet and Zhou, 2024). Effective international cooperation requires sustained diplomatic engagement, financial support, and technology transfer to support climate action in developing countries like Nigeria and ensure a just and equitable transition to a low-carbon future.

2.3 Challenges and Opportunities

Both Nigeria and the USA face common obstacles in transitioning to sustainable practices and addressing climate change (Adewuyi *et al.*, 2020). These challenges include political resistance, vested interests, inadequate funding, and technological barriers. In Nigeria, political instability, corruption, and weak governance hinder effective policy implementation and enforcement. Limited access to finance, technology, and expertise further exacerbates challenges in adapting to climate impacts and transitioning to clean energy sources (Suman, 2021). Similarly, in the USA, partisan divisions, lobbying from fossil fuel industries, and regulatory rollbacks undermine efforts to advance ambitious climate

policies and reduce greenhouse gas emissions. Overcoming these obstacles requires political leadership, public mobilization, and cross-sectoral collaboration to drive transformative change towards sustainability (Allen *et al.*,2023).

Despite the challenges they face, Nigeria and the USA also have opportunities for learning and collaboration in addressing climate change (Okon *et al.*,2021). Both countries can share experiences, best practices, and lessons learned in implementing climate policies, building resilience, and promoting sustainable development. Nigeria can benefit from the USA's technical expertise, research capabilities, and innovative approaches to climate mitigation and adaptation. In return, the USA can learn from Nigeria's experiences in community-based adaptation, traditional knowledge systems, and resilience strategies tailored to local contexts. Collaboration between nations, including through bilateral partnerships, knowledge exchange platforms, and joint research initiatives, can amplify the impact of climate action and accelerate progress towards shared goals.

Equity and justice considerations are integral to effective climate policy and sustainable development (Chu and Cannon, 2021). Both Nigeria and the USA must prioritize the needs and rights of vulnerable and marginalized communities in their climate policies and decision-making processes. This includes ensuring equitable access to resources, opportunities, and benefits of climate action, as well as addressing historical injustices and systemic inequalities that exacerbate climate vulnerability. In Nigeria, efforts to mainstream gender equality, social inclusion, and community participation in climate policy can enhance resilience and promote sustainable development. Similarly, in the USA, advancing environmental justice, indigenous rights, and equitable access to clean air, water, and land is essential for building a more just and sustainable society. By integrating equity and justice considerations into climate policy, Nigeria and the USA can foster inclusive and resilient communities that thrive in a changing climate.

2.4 Future Direction

As the world grapples with the urgent challenges of climate change, Nigeria and the USA must chart a course towards a more sustainable and resilient future. The future direction of climate policy in both countries should prioritize ambitious action, equitable solutions, and global cooperation to address this pressing global crisis.

In Nigeria, future climate policy should focus on enhancing institutional capacity, improving governance structures, and mobilizing resources to effectively implement and enforce existing legislation. Strengthening coordination among government agencies, fostering multi-stakeholder partnerships, and promoting community-led initiatives can enhance resilience and adaptation efforts at the grassroots level. Investing in renewable energy infrastructure, sustainable agriculture practices, and nature-based solutions can help mitigate greenhouse gas emissions and promote sustainable development.

Similarly, in the USA, future climate policy should build on existing commitments and leverage state-level initiatives to drive ambitious action at the federal level. Advancing clean energy transitions, phasing out fossil fuel subsidies, and promoting energy efficiency measures can accelerate progress towards decarbonization and reduce dependence on carbon-intensive industries. Strengthening environmental

regulations, enhancing climate resilience in vulnerable communities, and prioritizing equity and justice considerations can ensure that climate action benefits all Americans and leaves no one behind.

3. Recommendations and Conclusion

In conclusion, the comparative analysis of climate legislation in Nigeria and the USA reveals both common challenges and distinct approaches to addressing climate change. While Nigeria faces significant barriers in implementing and enforcing climate policies due to its socio-economic constraints and governance challenges, the USA grapples with political divisions, vested interests, and regulatory uncertainties. However, both countries share a commitment to combating climate change and transitioning towards a sustainable future.

The urgency of climate change requires robust legislative responses that prioritize mitigation, adaptation, and resilience-building efforts. Nigeria and the USA must enact and enforce ambitious climate policies that align with international commitments, scientific evidence, and equity considerations. Legislative frameworks should provide clear targets, timelines, and mechanisms for monitoring progress and holding governments accountable for their climate action commitments.

Addressing climate change requires collective action and international cooperation at all levels. Nigeria and the USA must collaborate with other nations, civil society organizations, and the private sector to mobilize resources, share knowledge, and scale up climate solutions. By working together, countries can leverage their respective strengths, overcome common challenges, and accelerate progress towards a sustainable and resilient future for all.

In conclusion, climate change is a defining challenge of our time that requires bold and decisive action from governments, businesses, and communities around the world. Nigeria and the USA have a shared responsibility to lead the way in combating climate change, advancing sustainable development, and building a more prosperous and equitable future for generations to come.

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