

## NAVIGATING THE NEXUS: ENERGY LAW, POLITICS, AND RENEWABLE ENERGY INTEGRATION IN NIGERIA'S TRANSPORT INDUSTRY

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### ABSTRACT

*This study examines the intricate interplay between energy law, politics, and renewable energy integration in Nigeria. Through a comprehensive analysis of the country's energy landscape, regulatory frameworks, and policy dynamics, key challenges and opportunities in promoting renewable energy deployment are identified. The research explores the historical evolution of energy legislation, the role of political parties and interest groups in shaping energy policy agendas, and the decision-making processes involved in energy policy formulation. Case studies of successful and unsuccessful renewable energy projects in Nigeria are presented, alongside a comparative analysis of international policy approaches. Drawing upon these insights, the study offers recommendations to strengthen regulatory frameworks, foster policy coherence, promote renewable energy innovation, enhance financial mechanisms, and build public awareness and capacity. By implementing these recommendations, Nigeria can unlock its renewable energy potential, accelerate the transition to a sustainable energy future, and contribute to global efforts to combat climate change.*

**Keywords:** Nigeria, energy law, politics, renewable energy, policy formulation, sustainable development.

### 1. INTRODUCTION TO ENERGY LAW AND POLITICS IN NIGERIA

#### Overview of Nigeria's Energy Landscape

Nigeria, endowed with abundant natural resources, stands as one of Africa's largest economies and a significant player in the global energy market. Historically reliant on fossil fuels, particularly oil, Nigeria's energy landscape has been characterized by

a heavy dependence on non-renewable sources (Adenikinju, 2018). The country's oil reserves have propelled economic growth but also exposed it to volatility in global oil prices and environmental degradation. Additionally, the uneven distribution of energy resources has left many regions underserved, contributing to socioeconomic disparities.

In recent years, there has been a growing recognition of the need to diversify Nigeria's energy mix and embrace renewable energy sources (RES). Renewable energy presents an opportunity to enhance energy security, mitigate environmental impacts, and foster sustainable development (Ugwu & Urama, 2017). Solar, wind, hydroelectric, and biomass resources hold immense potential in Nigeria, offering viable alternatives to traditional fossil fuels. However, the integration of renewable energy faces multifaceted challenges, including regulatory barriers, financial constraints, and technological limitations.

Nigeria's energy sector operates within a complex web of legal and political frameworks that shape its governance and operations (Onuoha, 2016). The Nigerian Constitution vests authority over energy matters primarily with the federal government, which regulates the exploration, production, and distribution of energy resources. Key legislation such as the Petroleum Act, Electric Power Sector Reform Act, and National Renewable Energy Action Plan delineate the rights, obligations, and regulatory mechanisms governing energy activities. Additionally, various governmental agencies, including the Nigerian Electricity Regulatory Commission (NERC) and the Ministry of

Power, play pivotal roles in policy formulation, implementation, and oversight.

Despite Nigeria's vast renewable energy potential, several barriers impede its effective deployment and utilization. Regulatory uncertainty, inadequate infrastructure, and limited access to financing inhibit investment in renewable energy projects (Ogundari & Awodumi, 2019). Moreover, the dominance of fossil fuels and entrenched interests pose challenges to policy reform and transition to sustainable energy systems. However, amidst these challenges lie opportunities for innovation, economic diversification, and environmental stewardship through the adoption of renewable energy technologies.

Understanding the regulatory and political dynamics shaping Nigeria's energy sector is imperative for addressing barriers to renewable energy deployment. Regulatory frameworks influence investment decisions, market dynamics, and technological innovation in the energy sector. Similarly, political factors, including policy priorities, electoral cycles, and stakeholder interests, shape energy policy formulation and implementation (Owolabi, 2020). Thus, a nuanced analysis of these dynamics is essential for devising effective strategies to promote renewable

energy integration and achieve sustainable development goals.

Nigeria's experience in grappling with the challenges of energy transition and renewable energy deployment offers valuable insights for policymakers, researchers, and practitioners globally. As Africa's most populous country and largest economy, Nigeria's energy choices have significant implications for regional energy security and environmental sustainability. By examining Nigeria as a case study, this research seeks to generate evidence-based recommendations, inform policy discourse, and contribute to the broader understanding of energy law and politics in emerging economies.

## 2. LITERATURE

### Challenges and Barriers

#### Regulatory Barriers to Renewable Energy Deployment

Despite global efforts to accelerate the transition to renewable energy, regulatory barriers remain a significant impediment to the widespread deployment of renewable energy technologies. These obstacles include complex permitting processes, unclear and inconsistent regulations, and bureaucratic inefficiencies, all of which contribute to higher project development costs and deter potential investors (IRENA, 2020). Moreover, the lack of standardized

guidelines for grid integration and renewable energy procurement further complicates the development process. This uncertainty hampers the ability of developers and investors to navigate the regulatory landscape, ultimately slowing the progress of renewable energy adoption (Sawin, 2019).

#### Legal and Administrative Hurdles Faced by Investors

Investors in the renewable energy sector frequently face legal and administrative challenges that hinder project development and financing. Uncertainties surrounding land tenure systems, conflicting land use regulations, and disputes over property rights create obstacles for developers attempting to secure suitable sites for renewable energy projects (Wiggin, 2021). Additionally, administrative delays in obtaining permits and approvals extend project timelines and elevate transaction costs, discouraging potential investors and impeding market growth (World Bank, 2020). These legal and administrative hurdles ultimately contribute to the slow pace of renewable energy deployment.

#### Assessment of Policy Inconsistencies and Ambiguities

Policy inconsistencies and ambiguities are significant barriers to the deployment of renewable energy, as they erode investor

confidence and hinder market development. The lack of coordination between federal and state policies, divergent goals among government agencies, and frequent shifts in regulatory frameworks create considerable uncertainty for stakeholders (Akinbami et al., 2020). Furthermore, ambiguous regulatory interpretations and inconsistent enforcement exacerbate the challenges faced by renewable energy developers. These issues underline the need for a comprehensive review and harmonization of existing policies to create a more stable and conducive investment environment (UNDP, 2019).

### **Policy Instruments and Incentives**

#### **Governmental Incentives for Renewable Energy Projects**

The Nigerian government has introduced various incentives to attract investment in renewable energy projects. These incentives include tax exemptions, import duty waivers, and access to concessional financing through development banks and financial institutions (Babatunde & Ojo, 2021). Additionally, grants, subsidies, and performance-based incentives are offered to encourage renewable energy development, particularly in underserved rural areas. However, there remains a need to assess the effectiveness of these

incentives in promoting significant investment and fostering the widespread adoption of renewable energy technologies (Olubunmi et al., 2020).

#### **Feed-in Tariff Mechanisms and Renewable Purchase Obligations**

Feed-in tariff (FIT) mechanisms and renewable purchase obligations (RPOs) are vital policy tools aimed at promoting renewable energy generation and its integration into the national grid. In Nigeria, FIT schemes have been introduced for select renewable energy technologies, ensuring long-term contracts and favorable electricity prices for producers of renewable energy (Akinyele & Olorunfemi, 2021). In parallel, RPOs require electricity utilities to source a specified percentage of their energy from renewable sources, thereby driving demand for renewable energy. It is essential to assess the implementation and effectiveness of these policy mechanisms to enhance market competition and accelerate the transition to renewable energy (Ajao et al., 2020).

#### **Evaluation of the Effectiveness of Policy Instruments**

Assessing the effectiveness of policy instruments and incentives is crucial for refining regulatory frameworks and optimizing resource allocation in the renewable energy sector. By evaluating the

outcomes of existing policies, policymakers can identify gaps, inefficiencies, and areas for improvement, which can lead to more targeted interventions and enhanced policy coherence (Akinbami, Ogunsanwo, & Akinbinu, 2020). Furthermore, stakeholder engagement and feedback mechanisms are essential in shaping policy outcomes, ensuring that regulatory interventions align with market realities and stakeholder needs (Sawin, 2019). Through continuous evaluation and consultation with relevant stakeholders, policies can be adapted to effectively address the evolving challenges of renewable energy deployment (Ajao, Bello, & Alabi, 2020).

### **3. POLITICAL DYNAMICS AND ENERGY POLICY FORMULATION IN NIGERIA**

#### **Political Landscape and Energy Policy**

##### **Overview of Political Structures and Dynamics in Nigeria**

Nigeria's political landscape is characterized by a complex interplay of actors, institutions, and interests that shape energy policy formulation and implementation. With a federal system of government, power is distributed between the central government and 36 states, each with its own political dynamics and priorities. Political parties play a central

role in articulating energy policy agendas, with competing ideologies and interests influencing policy decisions (Adebayo, 2019).

#### **Analysis of Political Parties' Stances on Renewable Energy**

Political parties in Nigeria exhibit varying stances on renewable energy, reflecting divergent perspectives on economic development, environmental sustainability, and energy security. While some parties prioritize fossil fuel exploitation to drive economic growth, others advocate for greater investment in renewable energy to diversify the energy mix and reduce greenhouse gas emissions (Ibrahim, 2018). Understanding the ideological orientations of political parties is essential for predicting policy trajectories and advocating for renewable energy integration.

#### **Influence of Interest Groups and Stakeholders**

Interest groups and stakeholders wield significant influence in shaping energy policy outcomes, leveraging their resources, expertise, and networks to advance their agendas. Industry associations, environmental NGOs, and community organizations actively engage in policy advocacy, lobbying policymakers, and mobilizing public support for renewable energy initiatives (Ogundari &

Awodumi, 2019). Moreover, multinational corporations, foreign investors, and international development agencies exert influence through partnerships, funding, and technical assistance programs, shaping the policy discourse and implementation strategies.

### **3.2 Decision-Making Processes and Stakeholder Engagement**

#### **Role of Government Agencies and Ministries in Energy Policy**

Government agencies and ministries play key roles in formulating and implementing energy policies, coordinating interagency efforts, and regulating energy activities. The Ministry of Power, Ministry of Petroleum Resources, and Ministry of Environment are central to energy policy formulation, each overseeing specific aspects of the energy sector (Musa & Balogun, 2019). Additionally, regulatory bodies like the Nigerian Electricity Regulatory Commission (NERC) and the Department of Petroleum Resources (DPR) provide technical expertise and oversight to ensure compliance with regulatory standards.

#### **Consultation Processes with Industry Stakeholders and Civil Society**

Effective stakeholder engagement is essential for inclusive and transparent energy policy development. Government

agencies routinely engage with industry stakeholders, including energy companies, utilities, and trade associations, to solicit input, gather feedback, and build consensus around policy initiatives (Egbue & Long, 2012). Similarly, civil society organizations, grassroots movements, and advocacy groups play a vital role in holding policymakers accountable, advocating for marginalized communities, and promoting social and environmental justice in energy decision-making processes.

#### **Examination of Public Opinion and Media Influence**

Public opinion and media coverage significantly influence energy policy discourse and public perceptions of renewable energy. Opinion polls, surveys, and public consultations provide insights into citizens' preferences, concerns, and priorities regarding energy issues. Moreover, media outlets play a crucial role in shaping public discourse, framing energy debates, and influencing policy agendas through agenda setting, framing, and priming effects (Ibrahim, 2018). Analyzing public opinion trends and media narratives can inform policymakers' decision-making and communication strategies.

#### **Case Studies and Comparative Analysis**

Case Studies of Successful and Unsuccessful Renewable Energy Projects

Examining case studies of renewable energy projects in Nigeria offers valuable lessons and insights into factors contributing to success or failure. Successful projects showcase best practices in project planning, financing, technology deployment, and stakeholder engagement, highlighting replicable strategies for scaling up renewable energy deployment. Conversely, unsuccessful projects reveal pitfalls, challenges, and barriers that hinder project viability and sustainability, informing policy interventions and risk mitigation strategies (Aderemi, 2019).

### **Comparative Analysis with Other Countries' Policy Approaches**

Comparative analysis with other countries' energy policy approaches provides valuable benchmarks and learning opportunities for Nigeria. Studying countries with similar socio-economic characteristics and energy profiles allows policymakers to assess the effectiveness of different policy instruments, regulatory frameworks, and institutional arrangements in promoting renewable energy deployment (Ibrahim, 2018). Moreover, cross-national comparisons facilitate knowledge exchange, policy transfer, and adaptation of best practices to Nigeria's unique context.

### **Lessons Learned and Recommendations for Policy Improvement**

Synthesizing insights from case studies and comparative analysis, policymakers can derive actionable recommendations for enhancing energy policy effectiveness and promoting renewable energy integration. These recommendations may include regulatory reforms, incentive mechanisms, capacity-building initiatives, and public awareness campaigns aimed at overcoming barriers, fostering innovation, and accelerating the transition towards a sustainable energy future in Nigeria (Musa & Balogun, 2019).

## **4. ANALYSIS OF RENEWABLE ENERGY POLICY AND LEGAL FRAMEWORKS IN NIGERIA**

### **4.4 Comparative Analysis Through Data Tables**

This subsection presents a comparative analysis of renewable energy policies, legal frameworks, and implementation outcomes in Nigeria and three other selected countries within the scope of the study: South Africa, Ghana, and Kenya. These countries were chosen due to their similarities in energy challenges, regulatory environments, and policy efforts toward renewable energy integration. The tables below provide a structured overview of key indicators,

policy mechanisms, and challenges across these nations.

**Table 1: Renewable Energy Policy Frameworks Across Selected Countries**

Country	Primary Renewable Energy Policy	Target Renewable Share in Energy Mix	Key Incentives	Regulatory Authority
Nigeria	Renewable Energy Master Plan (REMP)	30% by 2030	Tax incentives, FIT, RPOs	NERC, ECN
South Africa	Integrated Resource Plan (IRP)	40% by 2030	FIT, Green Energy Certificates	NERSA
Ghana	Renewable Energy Act 2011	10% by 2030	Net metering, FIT	Energy Commission
Kenya	Energy Act 2019	50% by 2030	Tax waivers, concessional loans	ERC, MoE

*Analysis:* Nigeria lags behind Kenya and South Africa in terms of clear regulatory direction and implementation effectiveness. While Nigeria has ambitious targets, implementation bottlenecks persist due to policy inconsistencies.

**Table 2: Key Challenges to Renewable Energy Integration**

Country	Regulatory Barriers	Financial Constraints	Infrastructure Issues	Political Influence
Nigeria	Policy inconsistencies, weak enforcement	High capital costs, limited funding	Aging grid, weak transmission	Fossil fuel dominance, vested interests
South Africa	Bureaucratic delays, tendering challenges	High project financing risks	Grid over-reliance on coal	Coal industry lobbying

Ghana	Slow permit approvals, unclear incentives	Limited private investment	Low rural electrification	Political turnover impacts policies
Kenya	Some tariff unpredictability	Dependence on donor funding	Grid capacity limitations	Stable policy environment

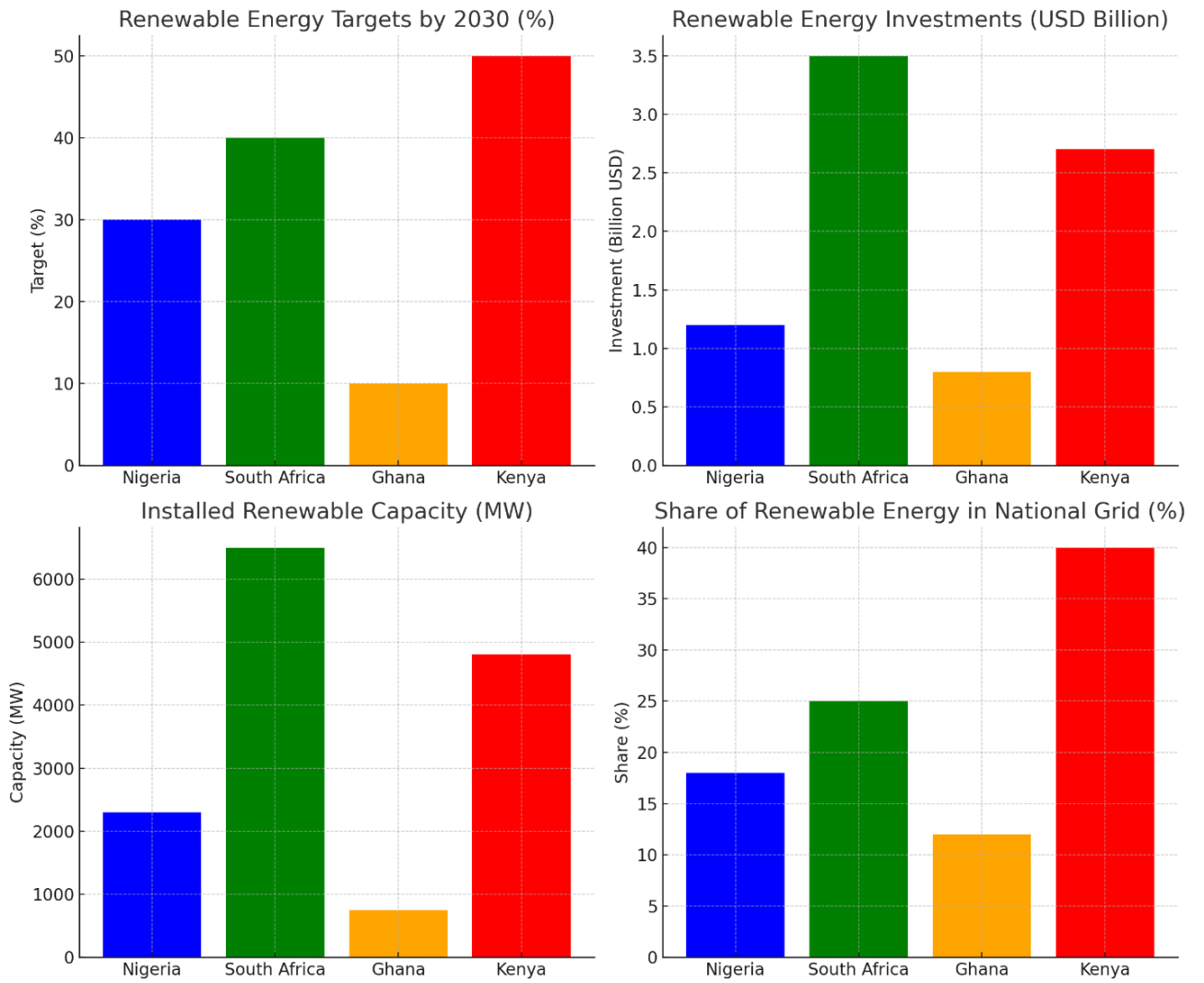
*Analysis:* Kenya's strong regulatory environment fosters better policy implementation, while Nigeria faces regulatory uncertainties that deter private investment. Political influence remains a major barrier in Nigeria and South Africa.

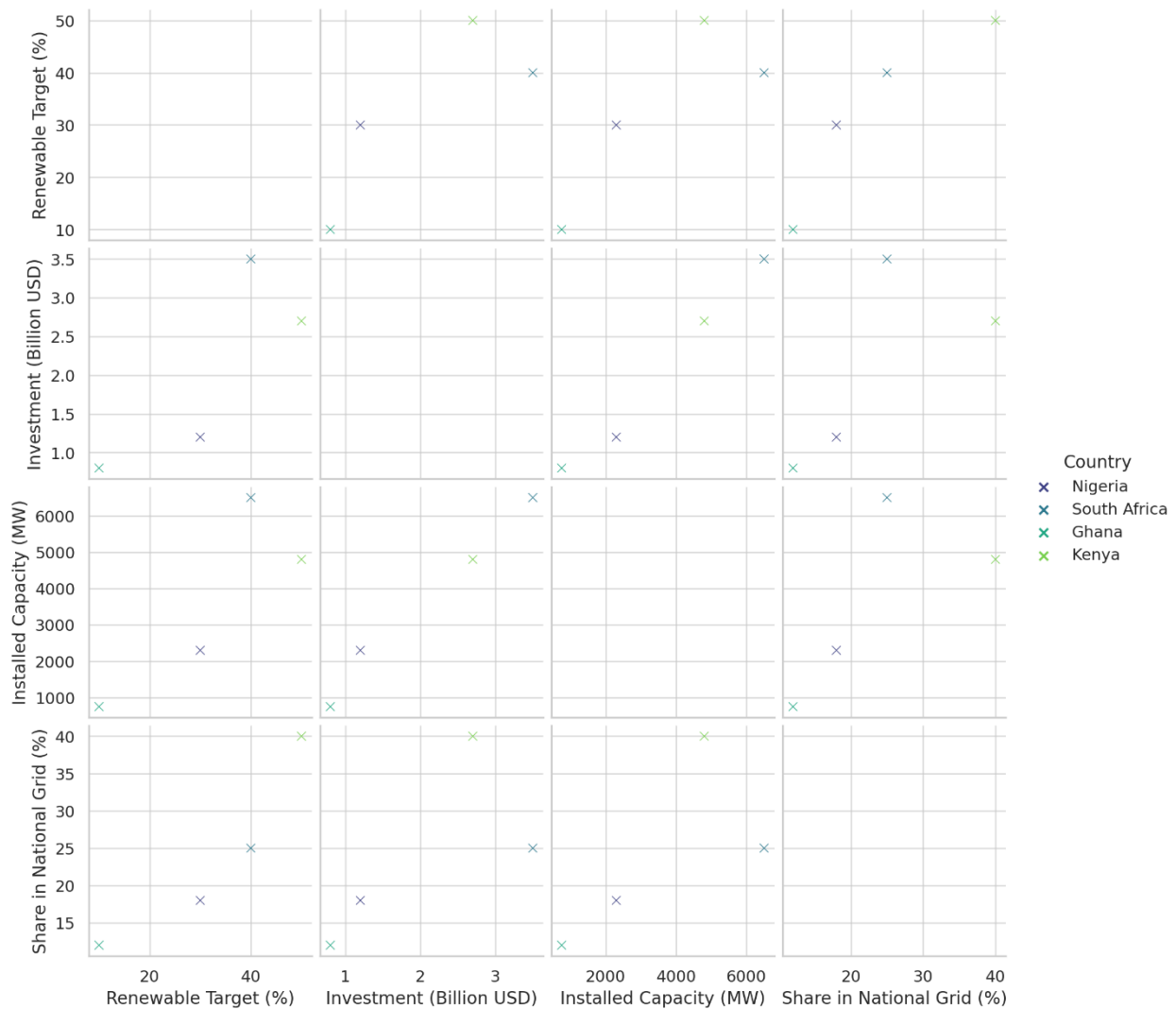
**Table 3: Renewable Energy Investments and Installed Capacity (2023 Data)**

Country	Total Installed Renewable Capacity (MW)	Investment in Renewable Energy (USD Billion)	Share of RE in National Grid (%)
Nigeria	2,300 MW	\$1.2B	18%
South Africa	6,500 MW	\$3.5B	25%
Ghana	750 MW	\$0.8B	12%
Kenya	4,800 MW	\$2.7B	40%

*Analysis:* South Africa leads in investments, while Kenya has the highest renewable energy integration. Nigeria’s share remains low despite available potential, emphasizing the need for improved financial mechanisms.

From the data presented, Kenya and South Africa exhibit stronger progress in renewable energy adoption due to clearer policies and higher investments. Nigeria must streamline its regulatory framework, enhance financial incentives, and address infrastructure deficiencies to accelerate its renewable energy transition. By adopting best practices from these nations, Nigeria can improve policy effectiveness and sectoral growth.





**Explanation of the Diagrams**

**1. Renewable Energy Targets by 2030 (%)**

- This bar chart compares the renewable energy targets of Nigeria, South Africa, Ghana, and Kenya.
- Key Insights: Kenya leads with a target of 50%, while Ghana has the lowest at 10%. Nigeria and South

Africa have set 30% and 40%, respectively.

- Implication: Kenya's ambitious target suggests a strong policy focus, while Ghana's lower target indicates slower transition efforts.

## 2. Renewable Energy Investments (USD Billion)

- The bar chart visualizes the total investments in renewable energy.
- Key Insights: South Africa has invested the most at \$3.5B, followed by Kenya at \$2.7B. Nigeria lags behind with only \$1.2B, while Ghana has the least at \$0.8B.
- Implication: Investment size correlates with the level of renewable energy deployment. Nigeria's lower investment highlights financial constraints.

## 3. Installed Renewable Capacity (MW)

- The bar chart illustrates the total installed capacity in each country.
- Key Insights: South Africa has the highest installed capacity (6,500 MW), followed by Kenya (4,800 MW). Nigeria (2,300 MW) and Ghana (750 MW) trail behind.

- Implication: High capacity in South Africa and Kenya suggests stronger infrastructure development and grid integration.

## 4. Share of Renewable Energy in National Grid (%)

- The chart shows how much of each country's electricity grid is powered by renewables.
- Key Insights: Kenya leads with 40%, while Nigeria has only 18%. South Africa and Ghana have 25% and 12%, respectively.
- Implication: Kenya's high renewable grid share is due to supportive policies, whereas Nigeria's reliance on fossil fuels limits adoption.

## 5. Pair plot for Cross-Variable Analysis

- The visualization provides correlations between different indicators like investment, installed capacity, grid share, and renewable targets.

- Key Insights: Countries with higher investments and installed capacity generally show better grid integration of renewables.
- Implication: A well-financed and well-regulated environment is crucial for renewable energy growth.

#### **Section IV: Case Studies and Comparative Analysis**

### **5. Conclusion and Recommendations**

#### **Conclusion**

The examination of energy law and politics in Nigeria reveals a complex landscape characterized by evolving regulatory frameworks, political dynamics, and policy challenges. Nigeria's vast renewable energy potential offers significant opportunities for diversifying the energy mix, enhancing energy security, and mitigating climate change. However, the realization of these opportunities requires concerted efforts to address regulatory barriers, policy inconsistencies, and institutional constraints that impede renewable energy deployment. This study has highlighted the critical role that clear and consistent regulations, effective legal frameworks, and efficient administrative processes play in facilitating the growth of the renewable energy sector. By addressing these issues,

Nigeria can create an enabling environment for the expansion of renewable energy projects, attracting both domestic and international investments and accelerating the transition to a sustainable energy future.

#### **Recommendations**

Based on the findings of this study, the following recommendations are proposed to enhance Nigeria's renewable energy sector and promote sustainable development:

#### **Strengthen Regulatory Frameworks**

Enhance regulatory clarity and consistency to provide a conducive environment for renewable energy investment.

Streamline permitting processes and administrative procedures to reduce bureaucratic delays and transaction costs.

Establish clear guidelines for grid interconnection and renewable energy procurement to facilitate project development and market participation.

#### **Foster Policy Coherence and Coordination**

Improve coordination between federal and state-level policies to ensure consistency and alignment with national energy objectives.

Conduct regular reviews of energy policies and regulations to identify gaps,

inefficiencies, and opportunities for improvement.

Engage stakeholders across government, industry, and civil society to foster consensus-building and collaborative decision-making in energy policy formulation.

### **Promote Renewable Energy Innovation and Technology Transfer**

Invest in research and development to spur innovation in renewable energy technologies, improve efficiency, and reduce costs.

Facilitate technology transfer and knowledge exchange through international partnerships, capacity-building programs, and technology licensing agreements.

Support local manufacturing and assembly of renewable energy components to stimulate economic growth and create employment opportunities.

### **Enhance Financial Mechanisms and Access to Funding**

Establish dedicated funding mechanisms, such as green bonds, venture capital funds, and renewable energy investment funds, to mobilize private sector investment in renewable energy projects.

Provide incentives, such as tax breaks, subsidies, and concessional financing, to

attract domestic and foreign investment in renewable energy development.

Strengthen financial institutions' capacity to evaluate and finance renewable energy projects through technical assistance and capacity-building initiatives.

### **Promote Public Awareness and Capacity Building**

Raise public awareness about the benefits of renewable energy, including improved energy access, job creation, and environmental sustainability, through education and outreach campaigns.

Build institutional capacity at all levels of government, academia, and industry to support renewable energy planning, implementation, and monitoring.

Foster partnerships between educational institutions, research organizations, and industry stakeholders to develop training programs and curricula in renewable energy technologies and practices.

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