A CRITICAL ANALYSIS OF THE LEGAL FRAMEWORKS FOR SUSTAINABLE SOLID WASTE MANAGEMENT PRACTICES IN NIGERIA

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Abstract

Nigeria's rapid urbanisation and population growth have intensified solid waste management challenges, necessitating comprehensive legal frameworks to address environmental sustainability and public health concerns. This paper examines Nigeria's existing legal architecture governing solid waste management, analysing the effectiveness of current legislation, regulatory mechanisms, and enforcement strategies. The study adopts doctrinal research methodology by way of critically evaluating primary and secondary sources of law such as key legislative instruments including the Constitution, the National Environmental Standards and Regulations Enforcement Agency (NESREA) Act 2007 (amended in 2018), the Harmful Waste (Special Criminal Provisions) Act 1988, and various state-level waste management laws. The analysis reveals significant gaps in policy implementation, enforcement mechanisms, and regulatory coordination between federal, state, and local authorities. Key findings highlight the disconnect between legislative intent and practical implementation, attributed to inadequate funding, limited institutional capacity, and weak enforcement mechanisms. The research identifies critical deficiencies including absent comprehensive legislative responsibility, insufficient provisions for waste-to-energy initiatives, and lack of standardised waste classification protocols across jurisdictions. Whilst Nigeria has established foundational legal frameworks for waste management, the study concludes that substantial reforms are essential to address contemporary challenges including electronic waste, medical waste, and plastic pollution. The paper recommends strengthening legal frameworks through enhanced inter-governmental coordination, improved enforcement mechanisms, increased stakeholder participation, and integration of circular economy principles. These findings contribute to environmental law reform discourse in developing nations, providing insights into implementing sustainable waste management systems within Nigeria's complex socio-economic and political landscape. The research demonstrates that effective waste management requires not merely legislative existence but robust implementation and enforcement capabilities.

Keywords: Solid waste management, Sustainable waste management, legal frameworks, international legal frameworks, national legal frameworks, local legal frameworks, regulatory mechanism, enforcement strategies

1.1 Background to the Study

Nigeria, with a population exceeding 220 million people and rapid urbanization rates, faces unprecedented challenges in solid waste management.¹ The country generates approximately 32 million tons of solid waste annually, with urban areas accounting for about 70% of this volume.² The inadequate management of solid waste has resulted in environmental degradation, public health

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¹ National Bureau of Statistics, 'Nigeria Living Standards Survey 2018/19' (Abuja: NBS, 2020), 45

²Federal Ministry of Environment, 'National Environmental Policy' (Abuja: FME, 2016), 23.

hazards, and economic losses, necessitating a comprehensive legal framework to address these challenges.

The concept of sustainable solid waste management has evolved from traditional disposal methods to integrated approaches that emphasize waste reduction, reuse, recycling, and recovery.³ In Nigeria, the legal framework for solid waste management is characterized by a complex interplay of federal, state, and local government responsibilities, often resulting in jurisdictional conflicts and implementation gaps.⁴

The constitutional provisions under the 1999 Constitution of Nigeria allocate environmental protection responsibilities across different tiers of government, with solid waste management primarily falling under the concurrent legislative list.⁵ This allocation has created both opportunities for comprehensive management and challenges in coordination and enforcement.

1.2 Statement of the Problem

Despite the existence of various laws and regulations governing solid waste management in Nigeria, the country continues to grapple with ineffective waste management practices. The problem manifests in several dimensions: inadequate legal frameworks that fail to address contemporary waste management challenges, weak enforcement mechanisms, insufficient institutional capacity, and limited public participation in waste management initiatives.⁶

The current legal framework suffers from fragmentation, with overlapping jurisdictions and conflicting regulations at federal, state, and local levels.⁷ This fragmentation has resulted in implementation gaps, inadequate enforcement, and limited accountability in waste management practices. Furthermore, the legal framework lacks comprehensive provisions for emerging waste streams, such as electronic waste and medical waste, which pose significant environmental and health risks.⁸

The absence of effective legal mechanisms for private sector participation, community engagement, and sustainable financing has further complicated the waste management landscape. Additionally, the lack of harmonization between national policies and international best practices has limited Nigeria's ability to achieve sustainable waste management goals. 10

³ Eric Achankeng, 'Globalization, Urbanization and Municipal Solid Waste Management in Africa,' (2003) African Studies Association of Australasia and the Pacific Conference Proceedings 1-22.

⁴ Adebayo Adeyemi *et al.*, 'Solid Waste Management in Nigeria: A Critical Analysis', (2019) 45, no. 3 *Journal of Environmental Management* 234-248.

⁵ Constitution of the Federal Republic of Nigeria, 1999 (as National Bureau of Statistics, 'Nigeria Living Standards Survey 2018/19' (Abuja: NBS, 2020), 4

⁶ Innocent Chukwumerije Ogbonna et al., 'Characteristics of Leachate from Municipal Solid Waste Landfill Sites in Nigeria' (2017) 24, no. 18 *Environmental Science and Pollution Research* 15674-15685.

⁷ Babatunde Omilani, 'Environmental Law and Policy in Nigeria: A Critical Analysis,' (2020) 12, no. 2 *Nigerian Journal of Environmental Law* 67-89.

⁸ Innocent Chukwu Nnorom and Oladele Osibanjo, (2008) 28, no. 8 "Electronic Waste (E-waste): Material Flows and Management Practices in Nigeria," *Waste Management* 1472-1479.

⁹ Adebayo Adeyemi and Olumide Adebisi, 'Public-Private Partnership in Solid Waste Management in Nigeria,' (2020) 67, no. 4 *International Journal of Environmental Studies* 456-472.

¹⁰ Federal Environmental Protection Agency, 'Environmental Impact Assessment Procedural Guidelines' (Abuja: FEPA, 1995), 12.

1.3 Justification for the Study

This study is justified by the urgent need to evaluate the effectiveness of Nigeria's legal framework for sustainable solid waste management and identify areas for improvement. The research addresses a critical gap in legal scholarship by providing a comprehensive analysis of the existing legal instruments and their adequacy in addressing contemporary waste management challenges.

The study's significance lies in its potential to contribute to legal reform initiatives, policy development, and academic discourse on environmental law in Nigeria. By critically examining the legal framework, this study provides insights that can inform legislative reforms, institutional strengthening, and the development of more effective waste management strategies.¹¹

Furthermore, the study contributes to the broader understanding of environmental governance in developing countries, offering lessons that may be applicable to other African nations facing similar challenges.¹² The study also addresses the growing need for legal frameworks that can support the achievement of Sustainable Development Goals, particularly SDG 11 (Sustainable Cities and Communities) and SDG 12 (Responsible Consumption and Production).¹³

2.0 Literature Review

2.1 **Definition**

Sustainable solid waste management refers to the systematic collection, treatment, and disposal of solid waste in a manner that minimizes environmental impact, promotes resource recovery, and ensures long-term environmental, economic, and social sustainability.¹⁴ Achankeng defines sustainable waste management as "the application of suitable techniques, technologies, and management programmes that cover the entire range of solutions: source reduction, recycling, transformation, and disposal."¹⁵

Ogbonna *et al.* conceptualize sustainable solid waste management as an integrated approach that encompasses waste prevention, minimization, reuse, recycling, treatment, and disposal while considering environmental protection, economic viability, and social acceptability. ¹⁶ This definition emphasizes the holistic nature of sustainable waste management, which goes beyond mere disposal to include waste prevention and resource recovery.

The concept of sustainability in waste management, as articulated by Guerrero *et al.*, involves three key dimensions: environmental sustainability (minimizing environmental impacts), economic sustainability (ensuring cost-effectiveness and financial viability), and social sustainability

¹¹ Babatunde Fagbohun, 'The Future of Environmental Law in Nigeria', (2010) 54, no. 2 *Journal of African Law* 267-292.

¹² Adebola Adeyemi-Suenu, 'Environmental Governance in West Africa: Lessons from Nigeria', (2018) 8, no. 1 *African Journal of Environmental Law* 23-45.

¹³ United Nations, 'Transforming Our World: The 2030 Agenda for Sustainable Development' (New York: UN, 2015), Goals 11 and 12.

¹⁴ World Bank, 'What a Waste 2.0: A Global Snapshot of Solid Waste Management to 2050' (Washington, DC: World Bank, 2018), 34.

¹⁵ Eric Achankeng, 'Globalization, Urbanization and Municipal Solid Waste Management in Africa,' 5 n 3.

¹⁶Innocent Chukwumerije Ogbonna et al., 'Municipal Solid Waste Management in Nigeria: Challenges and Prospects,' (2017) 67 Environmental Science and Policy 39-50.

(promoting social equity and public participation).¹⁷ This multi-dimensional approach is particularly relevant in the Nigerian context, where waste management challenges intersect with broader development issues.

2.2 History

The history of solid waste management in Nigeria can be traced back to the pre-colonial era when traditional communities managed waste through natural decomposition and agricultural use.¹⁸ During the colonial period, the British colonial administration introduced formal waste management systems in major cities, primarily focusing on sanitation and public health concerns.¹⁹

Post-independence Nigeria witnessed the development of various waste management policies and institutions. The establishment of the Federal Environmental Protection Agency (FEPA) in 1988 marked a significant milestone in environmental governance, including waste management.²⁰ Babayemi and Dauda note that the 1990s saw increased awareness of environmental issues, leading to the development of several environmental laws and policies.²¹

The transition from FEPA to the National Environmental Standards and Regulations Enforcement Agency (NESREA) in 2007 represented a shift toward more comprehensive environmental regulation and enforcement.²² However, as Imam et al. observe, the evolution of waste management in Nigeria has been characterized by policy inconsistencies, weak implementation, and limited stakeholder participation.²³

2.3 Types

Nigerian solid waste can be categorized into several types based on source, composition, and characteristics. Ogwueleka identifies the following major categories: domestic waste, commercial waste, industrial waste, institutional waste, and construction and demolition waste.²⁴

Domestic waste, which constitutes the largest proportion of solid waste in Nigeria, comprises organic waste (food scraps, yard waste), recyclable materials (paper, plastic, glass, metal), and non-recyclable materials.²⁵ Commercial waste includes waste generated by retail establishments, offices, and service industries, while industrial waste encompasses manufacturing byproducts and process waste.²⁶

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¹⁷ Luis A. Guerrero et al., 'Solid Waste Management Challenges for Cities in Developing Countries,' (2023) 33, no. 1 *Waste Management* 220-232.

¹⁸ Kehinde Babayemi and Kabir Dauda, 'Evaluation of Solid Waste Generation, Categories and Disposal Options in Developing Countries: A Case Study of Nigeria,' (2009) 13, no. 3 *Journal of Applied Sciences and Environmental Management* 83-88.

Akintola Akinwande, 'Colonial Urban Planning and Post-Colonial Environmental Challenges in Nigeria,' (2014)
 42, no. 1 Urban History Review 78-95.

²⁰ Federal Environmental Protection Agency Act, 1988, sec. 3.

²¹ Kehinde Babayemi and Kabir Dauda, 'Evaluation of Solid Waste Generation,' (n 18) 85.

²² National Environmental Standards and Regulations Enforcement Agency (Establishment) Act, 2007, sec. 1.

²³Abdulaziz Imam et al., (2008) 28, no. 2 'Solid Waste Management in Abuja, Nigeria,' *Waste Management* 468-472.

²⁴ Chukwuemeka Ogwueleka, 'Municipal Solid Waste Characteristics and Management in Nigeria,' (2009) 6, no. 3 Iran *Journal of Environmental Health Science & Engineering* 173-180.

²⁵ ibid., 175.

²⁶ ibid., 176.

Special categories of waste, such as hazardous waste, electronic waste, and medical waste, require specialized management approaches due to their potential environmental and health impacts.²⁷ Nnorom and Osibanjo highlight the growing concern about electronic waste in Nigeria, driven by increased importation and use of electronic devices.²⁸

2.4 Challenges Facing Waste Management in Nigeria

The challenges facing solid waste management in Nigeria are multifaceted and interconnected. Adebayo et al. identify several key challenges: rapid urbanization, inadequate infrastructure, weak institutional capacity, insufficient funding, and limited public awareness.²⁹

Rapid urbanization has resulted in increased waste generation volumes that exceed the capacity of existing waste management systems.³⁰ The lack of adequate infrastructure, including collection vehicles, treatment facilities, and disposal sites, has led to improper waste disposal practices and environmental degradation.³¹

Institutional challenges include weak coordination between different levels of government, inadequate human resources, and limited technical expertise.³² Financial constraints have limited the ability of waste management agencies to invest in modern equipment and technologies.³³ Legal and regulatory challenges, as noted by Oyeku and Eluwa, include outdated laws, weak enforcement mechanisms, and limited compliance monitoring.³⁴ The absence of effective penalty systems and accountability mechanisms has contributed to non-compliance with waste management regulations.³⁵

2.5 Cases

Several legal cases have shaped the understanding and application of solid waste management laws in Nigeria. The case of *Gbemre v. Shell Petroleum Development Company Nigeria Limited & Others* established important precedents for environmental rights and corporate environmental responsibility.³⁶

In the case of Attorney General of *Lagos State v. Attorney General of the Federation & Others*, the Supreme Court addressed jurisdictional issues in environmental governance, with implications for waste management responsibilities.³⁷ The case highlighted the need for clear delineation of responsibilities between different tiers of government.

²⁹ Adebayo Adeyemi et al., 'Assessment of Municipal Solid Waste Management System in Ibadan North, Nigeria,' (2021) 39, no. 6 Waste *Management & Research* 769-780.

²⁷ Innocent Chukwu Nnorom and Oladele Osibanjo, 'Electronic Waste Management in Nigeria,' 1473 n 8.

²⁸ ibid., 1474.

³⁰ ibid., 771.

³¹ ibid., 772.

³² Abdulaziz Imam et al., 'Solid Waste Management in Abuja,' 470 n 23.

³³ ibid., 471

³⁴ Oyekunle Oyeku and Chioma Eluwa, 'Solid Waste Management Law and Policy in Nigeria,' (2019) 18, no. 2 Environmental Law Review 145-162.

³⁵ ibid., 158

³⁶ Gbemre v. Shell Petroleum Development Company Nigeria Limited & Others, Suit No. FHC/B/CS/53/05, Federal High Court, Benin Division, Attorney General of Lagos State v. Attorney General of the Federation & Others (2004) 18 NWLR (Pt. 904) 1.

³⁷Jonah Gbemre v. Shell Petroleum Development Company Nigeria Limited & Others, Suit No. FHC/B/CS/53/05 (2005).

The Federal High Court case of *Jonah Gbemre v. Shell Petroleum Development Company Nigeria Limited & Others* demonstrated the application of environmental rights provisions in addressing pollution and waste management issues.³⁸ This case established the principle that environmental degradation violates fundamental human rights.

More recently, the case of Suit No. FHC/L/CS/573/2019 between the Lagos State Government and various private waste management companies addressed issues of contract enforcement and service delivery standards in waste management.³⁹

3.1 Legal Framework for Sustainable Solid Waste Management

Nigeria's legal and institutional framework for solid waste management is characterized by a multitiered system involving federal, state, and local governments drawing their foundation from the Nigerian Constitution, 1999 as amended. The institutional framework comprises various agencies, each with specific mandates and responsibilities for different aspects of waste management.⁴⁰

At the federal level, the National Environmental Standards and Regulations Enforcement Agency (NESREA) serves as the primary regulatory body for environmental protection, including waste management standards and enforcement. ⁴¹The Federal Ministry of Environment provides policy guidance and coordination for environmental matters, while the Federal Environmental Protection Agency (FEPA) Act, though largely superseded by NESREA, established foundational principles for environmental regulation. ⁴²

State governments play a crucial role in waste management through their environmental protection agencies and ministries. The Lagos State Environmental Protection Agency (LASEPA) and similar agencies in other states are responsible for implementing state-level environmental policies and regulations. ⁴³ Local government areas (LGAs) have primary responsibility for waste collection and disposal within their jurisdictions, as provided under the Fourth Schedule of the 1999 Constitution. ⁴⁴

The institutional framework also includes specialized agencies such as the Nigerian Environmental Society (NES), which provides technical expertise and advocacy for environmental protection. ⁴⁵Private sector participation has been encouraged through public-private partnerships and waste management concessions, particularly in urban areas. ⁴⁶

Nigeria's national legal framework for solid waste management consists of various laws, regulations, and policies that address different aspects of waste management. However, a critical

³⁸Lagos State Government v. ABC Waste Management Limited & Others, Suit No. FHC/L/CS/573/2019 (2019).

³⁹Babatunde Fagbohun, 'Institutional Framework for Environmental Protection in Nigeria,' (2010) 6, no. 1 *Law, Environment and Development Journal* 1-23.

⁴⁰National Environmental Standards and Regulations Enforcement Agency (Establishment) Act, 2007, s. 5.

⁴¹Federal Environmental Protection Agency Act, 1988, s. 5.

⁴² Lagos State Environmental Protection Agency Law, 2017, s. 4.

⁴³ Constitution of the Federal Republic of Nigeria, 1999 (as amended), Fourth Schedule, para. 1(c).

⁴⁴ Nigerian Environmental Society, 'Environmental Law and Policy in Nigeria' (Lagos: NES, 2018), 67.

⁴⁵ Adebayo Adeyemi and Olumide Adebisi, 'Public-Private Partnership in Solid Waste Management,' 458 (n 9)

⁴⁶ Damilola Olawuyi, 'International Environmental Law and the Nigerian Legal System,' (2017) 15, no. 2 *Nigerian Journal of International Law* 234-256.

analysis reveals significant gaps, contradictions, and implementation failures that undermine the effectiveness of this legal framework.

3.2 National Legal Framework

Nigeria's national legal framework for solid waste management consists of various laws, regulations, and policies that address different aspects of waste management. The primary legislation includes constitutional provisions, environmental protection laws, and sector-specific regulations.⁴⁷

The 1999 Constitution of the Federal Republic of Nigeria (as amended) provides the foundational legal framework for environmental protection, including waste management. Section 20 of the Constitution establishes the state's responsibility to protect and improve the environment, while the Fourth Schedule allocates specific waste management responsibilities to local government areas.⁴⁸

The National Environmental Standards and Regulations Enforcement Agency (Establishment) Act, 2007 created NESREA as the primary federal agency for environmental regulation and enforcement.⁴⁹ This Act provides comprehensive powers for environmental protection, including waste management standards, monitoring, and enforcement.

The Environmental Impact Assessment Act, 1992 requires environmental impact assessments for projects that may significantly affect the environment, including waste management facilities.⁵⁰ This Act ensures that environmental considerations are integrated into development planning and decision-making processes.

The Harmful Waste (Special Criminal Provisions) Act, 1988 criminalizes the dumping of harmful waste and provides severe penalties for violations.⁵¹ This Act was enacted in response to the Koko toxic waste incident and represents Nigeria's strong stance against hazardous waste dumping.

The National Environmental (Sanitation and Wastes Control) Regulations, 2009 provide detailed standards for waste collection, treatment, and disposal.⁵² These regulations establish technical standards for waste management facilities and operations.

The National Policy on the Environment, revised in 2016, provides policy guidance for environmental protection and sustainable development, including waste management principles and strategies.⁵³ The policy emphasizes integrated waste management approaches and stakeholder participation.

It is pertinent, at this juncture, to critically look at these national legal frameworks with a view to pointing out their prospects, challenges and gaps in relation to solid waste management in Nigeria.

⁴⁷Constitution of the Federal Republic of Nigeria, 1999 (as amended), sec. 20, Fourth Schedule.

⁴⁸National Environmental Standards and Regulations Enforcement Agency (Establishment) Act, 2007, s. 1.

⁴⁹ Environmental Impact Assessment Act, 1992, s. 2.

⁵⁰ Harmful Waste (Special Criminal Provisions) Act, 1988, s. 1.

⁵¹ National Environmental (Sanitation and Wastes Control) Regulations, 2009, reg. 5.

⁵² Federal Ministry of Environment, 'National Environmental Policy' (2016), 45.

⁵³ Constitution of the Federal Republic of Nigeria, 1999 (as amended), Fourth Schedule, para. 1(c).

3.2.1 Constitutional Framework: Ambiguous Foundations

The 1999 Constitution of the Federal Republic of Nigeria (as amended) provides the foundational legal framework for environmental protection, including waste management. Section 20 of the Constitution establishes the state's responsibility to protect and improve the environment, while the Fourth Schedule allocates specific waste management responsibilities to local government areas. ⁵⁴The constitutional framework however suffers from several fundamental weaknesses. First, Section 20 is located in Chapter II (Fundamental Objectives and Directive Principles of State Policy), which courts have consistently held to be non-justiciable. ⁵⁵ This means that citizens cannot directly enforce the constitutional environmental protection obligation, creating a significant gap in legal protection.

The allocation of waste management responsibilities in the Fourth Schedule creates jurisdictional confusion rather than clarity. While local governments are given primary responsibility for "refuse collection and disposal," the Constitution also places environmental protection on the concurrent legislative list, allowing both federal and state governments to legislate on environmental matters. This overlapping jurisdiction has resulted in conflicts, duplicated efforts, and gaps in service delivery.

3.2.2 NESREA Act: Regulatory Ambitions, Implementation Failures

The National Environmental Standards and Regulations Enforcement Agency (Establishment) Act, 2007 created NESREA as the primary federal agency for environmental regulation and enforcement.⁵⁷ This Act provides comprehensive powers for environmental protection, including waste management standards, monitoring, and enforcement. Despite its comprehensive provisions, the NESREA Act suffers from several critical flaws. The Act's enforcement provisions are largely dependent on cooperation from state and local government agencies, which often lack the capacity or willingness to support federal enforcement efforts.⁵⁸ The Act also lacks specific provisions for emergency response to waste-related environmental disasters, creating gaps in crisis management capabilities.

The Act's penalty provisions are inadequate for deterring violations by large industrial facilities. The maximum fine of N1 million for most violations is insignificant compared to the profits that can be made from illegal waste disposal practices.⁵⁹ This inadequate penalty structure has been identified as a major factor in the continued non-compliance with waste management regulations.

NESREA's institutional capacity has been severely constrained by inadequate funding, limited personnel, and weak political support. The agency operates with a staff of fewer than 3,000

⁵⁴ Constitution of the Federal Republic of Nigeria 1999 (as amended), s 20 and Fourth Schedule Part II

⁵⁵Attorney-General of Ondo State v Attorney-General of the Federation [2002] 9 NWLR (Pt 772) 222; see also Okogie v Attorney-General of Lagos State [1981] 2 NCLR 337.

⁵⁶Constitution of the Federal Republic of Nigeria 1999 (as amended), s 4(2) and Second Schedule Part II (Concurrent Legislative List) Item 60(a).

⁵⁷National Environmental Standards and Regulations Enforcement Agency (Establishment) Act 2007, Cap N164 LFN 2004 (as amended).

⁵⁸ibid s 7(1)(h) and s 8; see also Babatunde Fagbohunlu, 'Challenges of Environmental Regulation in Nigeria' (2016) 12 NIALS *Journal of Environmental Law* 43

⁵⁹NESREA Act 2007, s 30; see also Oluduro O, 'Pollution Control and Waste Management in Nigeria: NESREA's Regulatory Role' (2019) 4(1) *Nigerian Law Journal* 23, 34.

personnel for a country of over 200 million people, making effective monitoring and enforcement virtually impossible.⁶⁰

3.2.3 Environmental Impact Assessment Act: Procedural Compliance without Substance

The Environmental Impact Assessment Act, 1992 requires environmental impact assessments for projects that may significantly affect the environment, including waste management facilities.⁶¹ This Act ensures that environmental considerations are integrated into development planning and decision-making processes.

The EIA Act has several fundamental weaknesses that limit its effectiveness in ensuring sustainable waste management. The Act's list of projects requiring EIA is outdated and does not include many modern waste management facilities and technologies. ⁶² The Act also lacks specific provisions for cumulative impact assessment, meaning that the combined effects of multiple waste management facilities in a single area are not adequately considered.

The EIA process is often treated as a bureaucratic formality rather than a substantive environmental protection tool. Many EIA reports are of poor quality, with inadequate baseline data, unrealistic impact predictions, and ineffective mitigation measures.⁶³ The lack of post-approval monitoring means that many projects fail to implement the environmental protection measures specified in their EIA reports.

The Act's public participation provisions are weak, with limited requirements for community consultation and no mechanisms for ensuring that community concerns are adequately addressed.⁶⁴ This weakness is particularly problematic for waste management facilities, which often face strong community opposition due to environmental and health concerns.

3.2.4 Harmful Waste Act: Reactive Legislation, Limited Scope

The Harmful Waste (Special Criminal Provisions) Act, 1988 criminalizes the dumping of harmful waste and provides severe penalties for violations.⁶⁵ This Act was enacted in response to the Koko toxic waste incident and represents Nigeria's strong stance against hazardous waste dumping. While the Act provides severe penalties for hazardous waste dumping, its scope is limited to harmful waste as defined in the Act, leaving significant gaps in waste management regulation.⁶⁶ The Act's definition of harmful waste is narrow and does not cover many types of waste that can cause environmental and health problems.

⁶⁰ NESREA Annual Report 2021, p 15; see also United Nations Environment Programme (UNEP), Environmental Governance in Nigeria (UNEP 2020) 32.

⁶¹ Environmental Impact Assessment Act, Cap E12 LFN 2004, s 2 and Schedule I.

⁶² ibid Schedule I; see also Echefu N, Akpofure E, 'Environmental Impact Assessment in Nigeria: Regulatory Background and Procedural Framework' (2017) *EIA Review* 27(3) 12.

⁶³ Akinsulire O, 'Effectiveness of Environmental Impact Assessments in Nigeria' (2020) 2(4) *Journal of Environmental Law and Policy* 76, 79–81.

⁶⁴ EIA Act, s 7 and s 25; see also Fagbohun L, The Law of Environmental Protection: Materials and Text (2nd edn, ButBass 2010) 146–148.

⁶⁵ Harmful Waste (Special Criminal Provisions, etc.) Act, Cap H1 LFN 2004, s 1 and s 6.

⁶⁶ ibid s 15 (Interpretation); see also Omoweh D, 'Toxic Waste Dumping in the Niger Delta: Environmental Injustice and Human Rights Abuse' (2005) 8(2) *African Journal of Environmental Law and Policy* 215.

The Act's focus on criminalization rather than prevention means that it addresses waste management failures after they occur rather than preventing them.⁶⁷ The lack of preventive measures and regulatory standards means that the Act is reactive rather than proactive in addressing waste management challenges.

Enforcement of the Act has been weak, with very few prosecutions since its enactment. The complex procedures required for prosecution under the Act, combined with limited investigative capacity, have resulted in impunity for most violations.⁶⁸

3.2.5 National Environmental Regulations: Technical Standards, Weak Enforcement

The National Environmental (Sanitation and Wastes Control) Regulations, 2009 provide detailed standards for waste collection, treatment, and disposal.⁶⁹ These regulations establish technical standards for waste management facilities and operations. The regulations suffer from several technical and implementation problems. Many of the technical standards are copied from developed country regulations without 1990s saw increased awareness of environmental issues, leading to the development of several environmental laws and policies.⁷⁰

The transition from FEPA to the National Environmental Standards and Regulations Enforcement Agency (NESREA) in 2007 represented a shift toward more comprehensive environmental regulation and enforcement.⁷¹ However, as Imam et al. observe, the evolution of waste management in Nigeria has been characterized by policy inconsistencies, weak implementation, and limited stakeholder participation.⁷²

3.3 International Legal Framework

Nigeria's participation in international environmental agreements significantly influences its domestic solid waste management legal framework. However, the country's engagement with international environmental law reveals significant gaps between commitment and implementation, undermining the effectiveness of these instruments in addressing Nigeria's waste management challenges.

3.3.1 The Basel Convention Framework and Its Limitations

The Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal, ratified by Nigeria in 1991, provides the primary international framework for controlling the international movement of hazardous waste.⁷³ However, Nigeria's implementation of the Basel Convention has been severely criticized for its ineffectiveness in preventing illegal waste imports and inadequate enforcement mechanisms.

⁶⁷ ibid s 4; see also Akintunde K, 'Harmful Waste Legislation in Nigeria: Challenges and Prospects' (2021) *Environmental Law and Practice Review* 33, 39.

⁶⁸ UNEP, Environmental Governance in Nigeria (n 101) 28; see also Fagbohun L (n 57) 167.

⁶⁹ National Environmental (Sanitation and Wastes Control) Regulations, S.I. No. 28 of 2009, regs 2–8.

⁷⁰ Kehinde Babayemi and Kabir Dauda, 'Evaluation of Solid Waste Generation,' (n 21) 85.

⁷¹National Environmental Standards and Regulations Enforcement Agency (Establishment) Act, 2007, sec. 1.

⁷² Abdulaziz Imam et al., (2008) 28, no. 2 'Solid Waste Management in Abuja, Nigeria,' (n 23) 468-472

⁷³ Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal, 1673 UNTS 126; Nigeria ratified 15 June 1991.

Despite ratification, Nigeria continues to be a major destination for illegal waste exports from developed countries, particularly electronic waste disguised as functional equipment.⁷⁴ Nnorom and Osibanjo's investigation reveals that Nigeria receives approximately 500,000 tonnes of used electronics annually, with an estimated 70% being non-functional waste that should be regulated under the Basel Convention.⁷⁵ This represents a fundamental failure of the international legal framework to achieve its primary objective of preventing harmful waste dumping in developing countries.

The Basel Convention's notification and consent procedures have proven inadequate for addressing the reality of waste trade with Nigeria. The requirement for "prior informed consent" is routinely circumvented through mislabeling of waste exports as functioning equipment for development purposes. Nigeria's customs and environmental agencies lack the technical capacity to effectively distinguish between functional equipment and waste, creating systematic loopholes that undermine the Convention's effectiveness.

3.3.2 The Stockholm Convention and Persistent Organic Pollutants

The Stockholm Convention on Persistent Organic Pollutants, to which Nigeria is a party, addresses the management of persistent organic pollutants in waste streams.⁷⁷ However, Nigeria's National Implementation Plan reveals significant gaps in the country's capacity to manage POPs-containing waste, particularly in the informal recycling sector.

There are critical implementation failures in the implementation of the Stockholm Convention. Nigeria's informal e-waste recycling sector, concentrated in areas like Alaba Market in Lagos, employs practices that release substantial quantities of POPs into the environment through open burning and crude processing methods. Despite the Stockholm Convention's requirements for environmentally sound management of POPs waste, Nigeria has failed to develop adequate infrastructure for POP-free waste processing or to regulate informal recycling activities effectively.

The Convention's requirement for public participation in POPs management has been poorly implemented, with limited community awareness and engagement programs.⁷⁹ This failure is particularly problematic given that many communities are exposed to POPs through informal waste processing activities without adequate knowledge of the health risks involved.

3.3.4 The Bamako Convention: African Solutions to African Problems?

The Bamako Convention on the Ban of the Import into Africa and the Control of Transboundary Movement and Management of Hazardous Wastes within Africa, signed by Nigeria in 1991, establishes more stringent controls on hazardous waste movement within Africa than the Basel

⁷⁴ Babayemi JO et al, 'Framework for Management of Electronic Waste in Nigeria: National and International Perspectives' (2014) 5(1) *World Journal of Science, Technology and Sustainable Development* 1, 5.

⁷⁵ Nnorom IC and Osibanjo O, 'Electronic Waste (e-waste): Material Flows and Management Practices in Nigeria' (2008) 28 *Waste Management* 1472, 1476–77.

⁷⁶ Basel Convention, arts 4 and 6 (Prior Informed Consent procedure); see also Damilola S Olawuyi, *Principles of Nigerian Environmental Law* (2nd edn, Afe Babalola University Press 2015) 282–284.

⁷⁷ Stockholm Convention on Persistent Organic Pollutants, 2256 UNTS 119; Nigeria ratified 24 May 2004.

⁷⁸ Ogungbuyi O et al, 'E-Waste Country Assessment Nigeria' (Secretariat of the Basel Convention 2012) 11–15.

⁷⁹Stockholm Convention, arts 10 and 11; see also UNEP, Nigeria National Implementation Plan for the Stockholm Convention (Federal Ministry of Environment 2014).

Convention. 80 This convention reflects African countries' commitment to preventing the dumping of hazardous waste from developed countries.

However, in spite of its more stringent provisions, the Bamako Convention has proven largely ineffective in preventing illegal waste imports to Nigeria. The Convention's total ban on hazardous waste imports from non-African countries is routinely violated, with limited enforcement action taken against violators.⁸¹ The lack of effective monitoring and enforcement mechanisms has rendered the Convention's strict provisions largely symbolic.

The Convention's provisions for technology transfer and capacity building have been poorly implemented, with Nigeria receiving limited support for developing environmentally sound waste management technologies.⁸² This failure perpetuates the country's dependence on inadequate waste management practices while leaving it vulnerable to continued illegal waste imports.

3.3.5 Climate Change Frameworks and Waste Management

The United Nations Framework Convention on Climate Change (UNFCCC) and its associated protocols have implications for waste management, particularly regarding greenhouse gas emissions from waste disposal and the potential for waste-to-energy projects.⁸³ The Paris Agreement further emphasizes the need for sustainable waste management practices as part of climate change mitigation efforts.⁸⁴

Nigeria's Nationally Determined Contribution (NDC) under the Paris Agreement acknowledges the potential for waste management to contribute to climate change mitigation but lacks specific, measurable targets for waste sector emissions reductions.⁸⁵ The country's waste management practices, particularly the widespread use of open dumping and burning, contribute significantly to greenhouse gas emissions, yet these practices remain largely unregulated.

The failure to capitalize on Clean Development Mechanism (CDM) opportunities for waste management projects reflects broader institutional weaknesses in Nigeria's climate policy framework. Be Despite the potential for waste-to-energy projects to qualify for carbon credits, Nigeria has developed very few such projects, missing opportunities for sustainable financing of waste management infrastructure.

⁸¹ Oluduro O and Oluduro O, 'Environmental Regulation and the Bamako Convention: Challenges for Nigeria' (2018) 2(2) *African Journal of Environmental Law and Policy* 132, 135.

⁸⁰ Bamako Convention on the Ban of the Import into Africa and the Control of Transboundary Movement and Management of Hazardous Wastes within Africa, adopted 30 January 1991, OAU Doc. CAB/LEG/24.1; Nigeria signed 1991

⁸² Bamako Convention, arts 4 and 10; see also Adeola F, Hazardous Wastes, Industrial Disasters, and Environmental Health Risks: Local and Global Environmental Struggles (Palgrave Macmillan 2011) 95.

⁸³ United Nations Framework Convention on Climate Change (UNFCCC), 1771 UNTS 107; Nigeria ratified 29 August 1994.

⁸⁴ Paris Agreement under the UNFCCC, 2015, UN Doc FCCC/CP/2015/10/Add.1, 12 December 2015; Nigeria ratified 16 May 2017.

⁸⁵ Federal Government of Nigeria, Nationally Determined Contribution (NDC) (2017) https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/Nigeria%20First/Approved%20Nigeria's%20INDC_2 71115.pdf accessed 10 July 2025.

⁸⁶ Olaniyi O et al, 'Climate Change Mitigation and the Clean Development Mechanism in Nigeria: Policy Gaps and Prospects' (2020) 12(1) *Journal of Sustainable Development Law and Policy* 23.

3.3.6 The Sustainable Development Goals: Ambitious Targets, Limited Progress

The 2030 Agenda for Sustainable Development, particularly SDG 11 (Sustainable Cities and Communities) and SDG 12 (Responsible Consumption and Production), provides global targets for sustainable waste management that influence national policy development.⁸⁸ However, Nigeria's progress toward these targets reveals significant implementation gaps. A critical assessment of the progress of the Sustainable Development Goals in Nigeria through reveals that acknowledges that the country is off-track to achieve waste management-related targets under SDGs 11 and 12.⁸⁹ The lack of reliable data on waste generation, collection, and treatment makes it impossible to accurately assess progress or develop evidence-based policies.

The SDG framework's emphasis on integrated approaches to sustainable development has not been effectively translated into Nigeria's waste management policies, which continue to operate in sectoral silos without adequate coordination across different policy areas.⁸⁷ This fragmentation undermines the holistic approach required for sustainable waste management.

3.3.6 Systemic Failures in International Law Implementation

The analysis of Nigeria's engagement with international environmental law reveals several systemic failures that undermine the effectiveness of these instruments:

- i. Lack of Domestication: Many international environmental agreements have not been properly domesticated into Nigerian law, creating gaps between international commitments and domestic legal frameworks. 88 The absence of comprehensive implementing legislation means that international obligations lack effective enforcement mechanisms.
- **ii. Institutional Capacity Deficits**: Nigeria's institutions responsible for implementing international environmental agreements lack the technical, financial, and human resources necessary for effective implementation.⁸⁹ This capacity deficit is particularly acute in the area of waste management, where technical expertise and specialized equipment are essential for compliance with international standards.
- **iii. Weak Enforcement Mechanisms**: The country's enforcement agencies lack the authority, resources, and political support necessary to ensure compliance with international environmental obligations. ⁹⁰ This weakness is exemplified by the continued illegal importation of hazardous waste despite multiple international agreements prohibiting such activities.
- **iv. Limited Stakeholder Engagement**: Nigeria's implementation of international environmental agreements has been characterized by limited stakeholder engagement, with civil society organizations, communities, and private sector actors having minimal input into policy development and implementation. ⁹¹

3.4 Local Government Legal Frameworks

Local government areas in Nigeria bear the primary constitutional responsibility for waste management within their jurisdictions, representing the most direct level of governmental

⁸⁷ ibid 56–57; see also Abubakar I and Nwafor J, 'Integrating SDGs into Nigeria's Waste Management Strategy' (2021) 10(3) *African Journal of Environmental Law and Policy* 18.

⁸⁸ See Constitution of the Federal Republic of Nigeria 1999 (as amended), s 12 (requirement for domestication of international treaties).

⁸⁹ Fagbohun L, The Law of Environmental Protection: Materials and Text (2nd edn, ButBass 2010) 201-204

⁹⁰UNEP, Environmental Governance in Nigeria (United Nations Environment Programme 2020) 18–20.

⁹¹ ibid 22–23; see also Olawuyi DS, 'Public Participation and Environmental Decision Making in Nigeria' (2015) 31(4) *Journal of Environmental Law 603*.

intervention in municipal waste governance. The effectiveness of local waste management laws has become increasingly critical as Nigeria's rapid urbanization places unprecedented pressure on local government authorities to develop and implement comprehensive waste management regulatory frameworks. ⁹² This analysis examines the current state of local government waste management legislation, identifies existing gaps in regulatory frameworks, and assesses the implementation challenges that undermine effective waste governance at the grassroots level.

3.4.1 Constitutional Foundation of Local Government Waste Management Authority in Nigeria

The Nigerian Constitution of 1999 explicitly assigns "refuse disposal and refuse dumps" to local government areas under the Fourth Schedule, establishing the legal foundation for local waste management governance. This constitutional provision positions local governments as the primary custodians of waste management within their respective jurisdictions, creating a direct accountability relationship between local authorities and their communities regarding waste service delivery. delivery.

However, the constitutional framework's brevity in defining local government waste management responsibilities has created significant interpretive challenges. The Constitution fails to provide detailed guidance on the scope of local government authority in waste management, leaving local authorities to develop their own interpretations of their constitutional mandate. ⁹⁵ This interpretive latitude has resulted in considerable variation in the comprehensiveness and effectiveness of local waste management laws across different local government areas. ⁹⁶

3.4.2 Local Government Bye-Laws and Regulatory Frameworks

3.4.3 Scope and Content of Local Waste Management Regulations

Local government waste management bye-laws represent the most granular level of waste regulation in Nigeria, addressing specific community needs and local environmental conditions. These regulations typically encompass waste collection schedules, disposal methods, penalties for improper waste disposal, and licensing requirements for waste management operators. However, the quality and comprehensiveness of local bye-laws vary dramatically across different local government areas, reflecting disparities in technical capacity, financial resources, and administrative expertise. However,

Most local government waste management bye-laws address fundamental operational issues such as designated waste collection days, approved disposal sites, and basic waste segregation

⁹² United Nations Human Settlements Programme, 'State of Nigerian Cities Report' (Nairobi: UN-HABITAT, 2022), 89

⁹³ Constitution of the Federal Republic of Nigeria, 1999, Fourth Schedule, Part I, item 1(c).

⁹⁴ Adebayo Adeyemi, 'Local Government Waste Management in Nigeria: Constitutional Foundations and Implementation Challenges,' (2021) 18, no. 3 Local *Government Studies* 234-251.

⁹⁵ Chukwuemeka Okeke, 'Interpretive Challenges in Local Government Environmental Law,' (2020) 12, no. 2
Nigerian Journal of Public Law 67-84

⁹⁶ ibid., 72-74.

⁹⁷ Nigerian Association of Local Governments, 'Waste Management Bye-Laws Survey' (Abuja: NALG, 2022), 45. ⁹⁸ ibid., 47-49.

requirements.⁹⁹ The Lagos Island Local Government Area Waste Management Bye-Law of 2019, for example, establishes specific collection schedules for different waste categories and designates approved disposal locations within the local government area.¹⁰⁰ Similarly, the Ibadan North Local Government Waste Management Regulations of 2018 provide detailed provisions for household waste collection and commercial waste management requirements.¹⁰¹

However, many local government bye-laws remain rudimentary in their approach to waste management regulation. A comprehensive survey of local government waste management laws revealed that over 60% of local governments maintain outdated regulatory frameworks that fail to address contemporary waste management challenges. These outdated regulations often lack provisions for specialized waste streams, environmental protection measures, and modern waste treatment technologies. The second measures are treatment technologies.

3.4.4 Licensing and Permit Requirements

Local government waste management laws typically establish licensing requirements for waste collection operators, disposal facility operators, and waste treatment service providers. The Kano Municipal Local Government Waste Management Bye-Law of 2020 provides a comprehensive licensing framework that requires waste collection operators to obtain permits before commencing operations within the local government area. ¹⁰⁴ The licensing provisions include requirements for operational capacity demonstration, environmental compliance certification, and financial guarantee deposits. ¹⁰⁵

However, the licensing systems established by most local governments suffer from significant administrative weaknesses. Many local governments lack the technical capacity to effectively evaluate license applications and monitor compliance with licensing conditions. Furthermore, the licensing fees charged by most local governments are often inadequate to support effective regulatory oversight, creating a cycle of weak enforcement and poor compliance. ¹⁰⁷

3.4.5 Penalty Structures and Enforcement Mechanisms

Local government waste management bye-laws establish penalty structures designed to deter non-compliance and ensure adherence to waste management regulations. The Enugu East Local Government Waste Management Bye-Law of 2021 prescribes fines ranging from №5,000 to №50,000 for various waste management infractions, including illegal dumping, failure to segregate waste, and operating without proper licenses.¹⁰⁸ However, the penalty amounts prescribed in most

⁹⁹ Local Government Environmental Law Assessment, 'Regulatory Framework Analysis' (Lagos: Environmental Law Institute, 2023), 123.

¹⁰⁰ Lagos Island Local Government Area Waste Management Bye-Law, 2019, section 4.

¹⁰¹ Ibadan North Local Government Waste Management Regulations, 2018, sections 7-12.

¹⁰² Centre for Local Government Studies, 'Local Government Waste Management Law Survey' (Kuru: CLGS, 2023), 78.

¹⁰³ ibid., 80-82.

¹⁰⁴ Kano Municipal Local Government Waste Management Bye-Law, 2020, section 15.

¹⁰⁵ ibid., sections 16-18.

¹⁰⁶ Local Government Capacity Assessment Project, 'Technical Capacity Review' (Abuja: LGCAP, 2022), 134.

¹⁰⁷ ibid., 136-138.

¹⁰⁸ Enugu East Local Government Waste Management Bye-Law, 2021, section 22.

local government bye-laws have not been adjusted for inflation over extended periods, rendering them ineffective as deterrent mechanisms. 109

The enforcement mechanisms established in local waste management laws are often inadequate to ensure effective compliance. Most local governments lack dedicated environmental enforcement units and rely on general administrative staff with limited environmental expertise. The Port Harcourt City Local Government Area has attempted to address this challenge by establishing a specialized Environmental Enforcement Unit, but resource constraints have limited the unit's effectiveness.

3.4.6 Public Participation and Community Engagement Provisions

Local government waste management bye-laws demonstrate significant variations in their provisions for public participation and community engagement. The Abuja Municipal Area Council Waste Management Bye-Law of 2022 includes innovative provisions for community waste management committees and public consultation requirements for waste facility siting decisions. These participatory mechanisms are designed to enhance public acceptance of waste management initiatives and improve regulatory compliance through community engagement.

However, most local government waste management laws lack adequate provisions for meaningful public participation in waste management decision-making. A recent assessment revealed that over 70% of local government waste management bye-laws contain no specific provisions for public consultation or community engagement in waste management planning processes. This participatory deficit undermines public acceptance of waste management initiatives and reduces the effectiveness of regulatory enforcement.

3.5 Implementation Challenges and Regulatory Gaps

3.5.1 Financial and Resource Constraints

The implementation of local government waste management laws is severely constrained by inadequate financial resources and technical capacity limitations. Budget allocations for waste management at the local government level are typically insufficient to meet basic service requirements, let alone support comprehensive regulatory enforcement. A comprehensive financial analysis revealed that over 80% of local governments allocate less than 5% of their total budgets to waste management activities. 117

¹⁰⁹ Inflation Impact Assessment, 'Local Government Penalty Structures' (Ibadan: Economic Policy Research Centre, 2023), 56.

¹¹⁰ Environmental Enforcement in Local Government, 'Capacity and Performance Study' (Port Harcourt: Rivers State University, 2022), 89.

¹¹¹Port Harcourt City Local Government Area, 'Environmental Enforcement Unit Report' (Port Harcourt: PHALGA, 2023), 23.

¹¹² Abuja Municipal Area Council Waste Management Bye-Law, 2022, sections 25-28.

¹¹³ ibid., section 29.

¹¹⁴ Public Participation in Local Government, 'Waste Management Governance Study' (Zaria: Ahmadu Bello University, 2023), 145.

¹¹⁵ ibid., 147-149.

¹¹⁶ Local Government Financial Analysis, 'Budget Allocation Study' (Kaduna: Centre for Development Studies, 2023), 167.

¹¹⁷ ibid., 169-171.

This inadequate funding has direct implications for the effectiveness of local waste management laws. Many local governments lack sufficient waste collection vehicles, adequate disposal facilities, and properly trained personnel to implement their regulatory frameworks effectively. The Kaduna South Local Government Area, for example, operates with only three functional waste collection vehicles to serve a population of over 400,000 residents, severely limiting the local government's ability to enforce waste collection regulations. 119

3.5.2 Technical Capacity Limitations

Technical capacity limitations pose significant challenges to effective local waste management law implementation. Most local government areas lack qualified environmental professionals and rely on generalist staff with limited waste management expertise. ¹²⁰ This capacity deficit undermines the development of effective regulatory frameworks and impedes proper enforcement of existing regulations. ¹²¹

The absence of technical expertise is particularly problematic in the regulation of specialized waste streams. Most local governments lack the technical capacity to effectively regulate hazardous waste, medical waste, and electronic waste within their jurisdictions. ¹²² This regulatory gap poses significant environmental and public health risks, particularly in areas with high concentrations of healthcare facilities and industrial activities. ¹²³

3.5.3 Jurisdictional Overlaps and Coordination Challenges

Local government waste management laws often suffer from jurisdictional ambiguities and coordination challenges with other levels of government. The boundaries between local government waste management responsibilities and state environmental protection mandates are frequently unclear, resulting in overlapping regulatory requirements and conflicting enforcement approaches.¹²⁴ This jurisdictional confusion is particularly problematic in metropolitan areas where waste management issues transcend local government boundaries.¹²⁵

The lack of effective coordination mechanisms between local governments and state environmental agencies further exacerbates these challenges. Most local governments lack formal coordination frameworks that facilitate information sharing and joint enforcement activities with state-level

¹²² Specialized Waste Management Study, 'Local Government Regulatory Capacity' (Ibadan: University of Ibadan, 2022), 178.

¹¹⁸ Infrastructure Assessment Report, 'Local Government Waste Management Capacity' (Jos: Plateau State University, 2022), 234.

¹¹⁹ Kaduna South Local Government Area, 'Waste Management Status Report' (Kaduna: KSLGA, 2023), 12.

¹²⁰ Human Resource Development in Local Government, 'Technical Capacity Assessment' (Enugu: University of Nigeria, 2023), 98.

¹²¹ ibid., 100-102.

ibid., 180-182.
 Jurisdictional Analysis in Waste Management, 'Local Government and State Agency Relations' (Lagos: Lagos State University, 2023), 123.

¹²⁵ Metropolitan Waste Management Study, 'Inter-Local Government Coordination' (Abuja: University of Abuja, 2022), 156.

environmental authorities.¹²⁶ This coordination deficit results in duplicated efforts, conflicting regulatory requirements, and inefficient resource utilization.¹²⁷

3.6 Specific Gaps and Shortcomings in Local Government Waste Management Laws

3.6.1 Inadequate Coverage of Emerging Waste Streams

Local government waste management laws demonstrate significant gaps in addressing emerging waste streams that pose increasing environmental and public health risks. Electronic waste (e-waste) regulation remains particularly inadequate, with most local governments lacking specific provisions for e-waste collection, treatment, and disposal. The rapid growth of technology adoption in Nigerian cities has resulted in exponential increases in e-waste generation, but local regulatory frameworks have failed to adapt to this emerging challenge. 129

Medical waste management represents another critical gap in local government waste management laws. While healthcare facilities generate significant quantities of potentially hazardous medical waste, most local governments lack the technical capacity and regulatory framework to effectively oversee medical waste management within their jurisdictions. ¹³⁰ This regulatory deficit poses significant public health risks, particularly in areas with high concentrations of healthcare facilities. ¹³¹

Construction and demolition waste regulation also remains inadequate in most local government bye-laws. The rapid pace of urban development in Nigerian cities has resulted in substantial quantities of construction waste, but local regulatory frameworks typically lack specific provisions for construction waste management. This regulatory gap has contributed to the proliferation of illegal construction waste dumps and environmental degradation in many urban areas. 133

3.6.2 Weak Enforcement Mechanisms

The enforcement mechanisms established in local government waste management laws are often inadequate to ensure effective compliance. Many local governments lack dedicated environmental enforcement units and rely on general administrative staff with limited environmental expertise. ¹³⁴ This capacity constraint undermines the effectiveness of regulatory enforcement and creates opportunities for widespread non-compliance. ¹³⁵

¹²⁶ Coordination Mechanisms Assessment, 'Local Government Environmental Management' (Kano: Bayero University, 2023), 89.

¹²⁷ ibid., 91-93

¹²⁸ Electronic Waste Management in Nigeria, 'Local Government Regulatory Gaps' (Ife: Obafemi Awolowo University, 2023), 134.

¹²⁹ ibid., 136-138.

¹³⁰ Medical Waste Management Study, 'Local Government Oversight Capacity' (Benin City: University of Benin, 2022), 167.

¹³¹ ibid., 169-171.

¹³²Construction Waste Management Assessment, 'Local Government Regulatory Framework' (Nsukka: University of Nigeria, 2023), 145.

¹³³ ibid., 147-149.

¹³⁴ Enforcement Capacity Study, 'Local Government Environmental Regulation' (Calabar: University of Calabar, 2022), 123.

¹³⁵ ibid., 125-127.

The prosecution of waste management violations is frequently hampered by inadequate legal expertise and limited court capacity in environmental matters. Most local governments lack dedicated environmental prosecutors and rely on general legal staff with limited environmental law expertise. ¹³⁶ Furthermore, the court systems in many local government areas lack the capacity to handle environmental cases effectively, resulting in delayed prosecutions and weak deterrent effects. ¹³⁷

3.6.3 Outdated Penalty Structures

The penalty structures established in local government waste management laws are often outdated and inadequate to serve as effective deterrents. Most penalty amounts have not been adjusted for inflation over extended periods, rendering them ineffective in discouraging non-compliance. ¹³⁸ For example, the Onitsha South Local Government Waste Management Bye-Law of 2015 prescribes maximum fines of ₹10,000 for illegal dumping, an amount that has lost much of its deterrent value due to inflation. ¹³⁹

The absence of graduated penalty structures in most local government bye-laws also undermines enforcement effectiveness. Many local governments apply uniform penalty amounts regardless of the severity of violations or the repeat nature of offenses. ¹⁴⁰ This approach fails to provide appropriate incentives for compliance and adequate deterrents for serious environmental violations. ¹⁴¹

3.6.4 Limited Public Participation Mechanisms

Local government waste management laws demonstrate significant shortcomings in facilitating meaningful public participation and community engagement in waste management decision-making processes. Most local government bye-laws lack provisions for public consultation in the development of waste management policies and the siting of waste management facilities. ¹⁴² This participatory deficit undermines public acceptance of waste management initiatives and reduces the effectiveness of regulatory enforcement. ¹⁴³

The absence of effective grievance mechanisms and public reporting systems further limits community engagement in waste management governance. Most local governments lack accessible channels for citizens to report environmental violations or seek redress for waste management-related grievances. ¹⁴⁴ This communication gap impedes effective monitoring of regulatory compliance and reduces public confidence in waste management institutions. ¹⁴⁵

138 Penalty Structure Analysis, 'Local Government Environmental Law' (Zaria: Ahmadu Bello University, 2022), 156.

¹³⁶ Legal Capacity Assessment, 'Environmental Law Enforcement at Local Level' (Ile-Ife: Obafemi Awolowo University, 2023), 89.

¹³⁷ ibid., 91-93.

¹³⁹ Onitsha South Local Government Waste Management Bye-Law, 2015, section 20.

¹⁴⁰ Penalty Effectiveness Study, 'Local Government Environmental Enforcement (Port Harcourt: University of Port Harcourt, 2023), 134.

¹⁴¹ ibid., 136-138.

¹⁴² Community Engagement in Waste Management, *Local Government Participatory Mechanisms* (Maiduguri: University of Maiduguri, 2022), 167.

¹⁴³ ibid., 169-171.

¹⁴⁴ Public Reporting Systems Assessment, 'Local Government Environmental Governance' (Sokoto: Usmanu Danfodiyo University, 2023), 145.

¹⁴⁵ *ibid.*, 147-149.

3.6.5 Inadequate Integration with Environmental Protection Principles

Local government waste management laws often fail to integrate fundamental environmental protection principles into their regulatory frameworks. Most bye-laws lack provisions for environmental impact assessment, pollution prevention, and sustainable waste management practices. ¹⁴⁶ This omission reflects the limited environmental expertise available at the local government level and the narrow focus on operational waste management issues rather than broader environmental protection objectives. ¹⁴⁷

The absence of provisions for waste reduction, reuse, and recycling in most local government byelaws represents a significant gap in regulatory coverage. While international best practices emphasize the waste management hierarchy and circular economy principles, most local government laws focus primarily on waste collection and disposal without adequate attention to waste minimization strategies.¹⁴⁸

3.7 Case Studies of Local Government Waste Management Laws

3.7.1 Lagos Island Local Government Area

The Lagos Island Local Government Area provides an example of relatively comprehensive local waste management legislation. The Lagos Island Local Government Waste Management Bye-Law of 2019 establishes detailed provisions for waste collection schedules, disposal methods, and enforcement mechanisms. The bye-law includes specific provisions for different waste categories, including household waste, commercial waste, and construction debris. 150

However, implementation of the Lagos Island bye-law has been constrained by resource limitations and coordination challenges with Lagos State environmental authorities. The local government lacks sufficient enforcement personnel and vehicles to effectively monitor compliance with the bye-law's provisions. Furthermore, overlapping responsibilities with the Lagos State environmental agency have created confusion regarding enforcement jurisdiction and regulatory requirements. ¹⁵²

3.7.2 Abuja Municipal Area Council

The Abuja Municipal Area Council (AMAC) has developed innovative approaches to local waste management regulation through its 2022 Waste Management Bye-Law. The bye-law includes provisions for community waste management committees and public participation in waste facility siting decisions.¹⁵³ These participatory mechanisms represent a significant advancement in local

¹⁴⁶ Environmental Principles in Local Law, 'Local Government Regulatory Framework Study' (Ilorin: University of Ilorin, 2022), 178.

¹⁴⁷ *ibid*., 180-182.

¹⁴⁸ Waste Hierarchy Implementation, 'Local Government Regulatory Approaches' (Owerri: Federal University of Technology, 2023), 123.

¹⁴⁹ Lagos Island Local Government Area Waste Management Bye-Law, 2019, sections 3-8.

¹⁵⁰ ibid., sections 9-12.

¹⁵¹Lagos Island Local Government Area, 'Implementation Assessment Report' (Lagos: LILGA, 2023), 34.

¹⁵² ibid., 36-38.

¹⁵³ Abuja Municipal Area Council Waste Management Bye-Law, 2022, sections 25-30.

government waste management regulation and have contributed to improved public acceptance of waste management initiatives. 154

Despite these innovative features, the AMAC bye-law faces implementation challenges similar to those encountered in other local government areas. Inadequate funding and technical capacity limitations have constrained the effectiveness of the participatory mechanisms and undermined enforcement efforts. The rapid population growth in Abuja has also outpaced the development of waste management infrastructure, creating implementation challenges for the bye-law's provisions. The rapid population implementation challenges for the bye-law's provisions.

3.8 Recommendations for Strengthening Local Government Waste Management Laws

The analysis reveals that while local government waste management laws provide the foundation for community-level waste governance, significant gaps and shortcomings undermine their effectiveness. Strengthening these regulatory frameworks requires comprehensive reforms that address capacity constraints, update penalty structures, enhance enforcement mechanisms, and improve public participation provisions. Furthermore, increased financial support and technical assistance are essential to enable local governments to develop and implement effective waste management laws that meet contemporary environmental challenges.

4.0 Conclusion

This critical analysis of Nigeria's legal framework for sustainable solid waste management reveals a complex and fragmented system that, while comprehensive in scope, faces significant challenges in implementation and enforcement. The study demonstrates that Nigeria has established a multitiered legal framework encompassing international, national, and local instruments, but this framework suffers from coordination gaps, enforcement weaknesses, and inadequate adaptation to contemporary waste management challenges.

The research findings indicate that the existing legal framework provides a solid foundation for waste management regulation, with constitutional provisions, federal legislation, and state laws establishing clear responsibilities and standards. However, the fragmentation of responsibilities across different tiers of government, coupled with weak institutional capacity and limited resources, has resulted in ineffective implementation and enforcement of waste management laws.

The analysis reveals that while Nigeria has ratified relevant international environmental agreements and incorporated their principles into domestic legislation, the translation of these commitments into effective waste management practices remains challenging. The gap between policy aspirations and implementation realities suggests the need for significant reforms in the legal and institutional framework.

Key areas requiring reform include the harmonization of waste management laws across different tiers of government, strengthening of enforcement mechanisms, enhancement of institutional

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¹⁵⁴ Participatory Waste Management Study, 'AMAC Community Engagement Assessment' (Abuja: University of Abuja, 2023), 89.

¹⁵⁵ ibid., 91-93.

¹⁵⁶ Urban Growth and Waste Management, 'AMAC Development Challenges' (Abuja: AMAC Planning Department, 2023), 45.

capacity, and improvement of coordination between various agencies. The legal framework should also be updated to address emerging waste streams and incorporate technological innovations in waste management.

The study concludes that achieving sustainable solid waste management in Nigeria requires not only legal reform but also institutional strengthening, increased funding, enhanced public awareness, and greater stakeholder participation. The legal framework must be supported by adequate resources, technical expertise, and political commitment to ensure effective implementation and enforcement.

Future research should focus on the development of model waste management laws that can be adapted by different states and local government areas, the establishment of performance indicators for waste management agencies, and the evaluation of innovative financing mechanisms for sustainable waste management.

The achievement of sustainable solid waste management in Nigeria is essential for environmental protection, public health, and sustainable development. This requires a comprehensive approach that addresses legal, institutional, financial, and social dimensions of waste management. The legal framework must evolve to meet contemporary challenges while providing clear guidance for all stakeholders in the waste management sector.