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## Analysis of the Effectiveness of the Policy and Institutional Structures/Mechanisms for Environmental Management in Enugu State, Nigeria

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### ABSTRACT

Nigeria is rapidly urbanizing and is forecasted to become the 3rd most urbanized nation by 2100. Expectedly, rapid urbanization presents challenges in many areas including the management of municipal services such as solid waste. This yawning failure is reflected in the poor quality of waste services across Nigerian cities. This study focuses on the analysis of the effectiveness of policy and institutional structures/mechanisms for environmental management in Enugu State. The specific objectives are to: identify and analyze the effectiveness of the policies through the performance of the institutions. Data were generated by a field survey involving the administration of a structured questionnaire. Multistage and Random sampling techniques were used in the selection of three hundred and seventy-eight adult household heads and eleven staff both from the State Ministry of Environment and Mineral Resources and Enugu State Waste Management Authority (ESWAMA). Data were analyzed by descriptive statistics. The result shows that Removal and disposal of waste, vehicles and dead animals, cleaning of streets and sewage clearing and maintenance of disposable equipment where the roles played by ESWAMA; whereas urban sanitation, pollution control and impact assessment were the roles played by the Ministry of Environment and Mineral Resources. Problems identified among the staff against the performance of the institutional bottleneck, corruption, inadequate of EIA, Inadequate of funds and Ignorance. The study recommends the review of the environmental policies and advises that the legal framework should be strengthened for the proper implementation of laws.

Keywords: Policy, Environment, Waste Management, Pollution, Effectiveness, Institutional Structures.

### **INTRODUCTION**

The usefulness of environment is indispensable and cannot be relegated. The inherent environment is an endowment of nature and a main determinant of life on earth. It is made up of four intertwined structures, namely: the air, the water, the land and the habitat (Kumarasamy *et al.*, 2004). It is a cornerstone for human existence and viability as well as provides all the necessary essential of life such as air, water, soil, food, energy, etc (UNDP, 2001). It also provides some essential service amenities such as climate regulation, flood control, natural habitat, and cultural services. In the early days of man the surroundings and its natural-born resources have rendered important role and continued to play necessary role in social and economic formation of the society. It is the root of universal earnings that must be sustainably guarded and managed. Prior to the evolution of industries, the rate at which our environment was being exploited was low due to low population and inexperience on the various uses of natural resources. The amount of waste generated by the society was small and biodegradable (Okafor, 2011).

But the need to provide man with more quantity and quality of essential goods and services for his survival, led to the concept of industrialization and urbanization. While industrialization give rise to employment opportunity for the jobless, supplies goods and services, increase the rate of urbanization through infrastructural development, it drops along its frontier some negative externalities otherwise known as environmental costs. Pollution is the deliberate or accidental contamination of the environment with waste from human and industrial activities.

According to J.H. price and French "pollution is the price of progress". They opined that pollution and development are inseparable since pollution is an offshoot of a development process.

The rapid growth of population and unplanned industrialization resulted to the major environmental problems in our society today which include pollution, deforestation, loss of bio-diversity, hazardous chemical and waste, soil erosion, land degradation and depletion of earth's natural resources(UNEP,(2005) and Chong,(2008)). By 2050, it is projected that China, India and Nigeria would be the world's most populated countries, accounting for 37% (of the increase of nearly 2.5 billion people in the urban population by 2050) of global urban population. The growing population in Nigeria alone (the most populous African country) is expected to trigger regional concerns in areas of urbanisation, population flows, urban infrastructure and service delivery, food security, resource & wealth distribution, insecurity/conflicts, and environmental degradation; all of which have the capacity to impact the urban system. To say the least, there will be a significant increase in demand for municipal infrastructure and services delivery. It is therefore, particularly critical to begin to consider the mutually reinforcing fact of political economy and governance factors that will continue to affect the financing, provision and delivery of municipal infrastructure and services in Nigerian cities. Currently elsewhere, these factors are receiving increased attention regarding the ways in which they ultimately influence urban infrastructure provision and services delivery. Several empirical studies have been conducted on environmental hazards and the need for planning and control of the Nigeria environment such as flooding (Mba, 1996), biodiversity (Phil-Eze, 2001), soil erosion (Ofomata, 2001) and urban solid waste management (Omuta, 1988, Ajaka, 2001). The environmental problems are inter-related and inter-connected. There are interrelationship between biodiversity loss, desertification, and erosion, loss of soil fertility, diseases outbreaks and climate change (Karen, 1996; Jonathan, 2005; Rao, 2006; Joseph, 2009; Botkin and Keller, 2012).

From the view of Eneh (2007), it is necessary to manage those factors in man's physical environment which impose a dangerous consequence on his physical development, health and survival and this necessitates environmental management.

Since, environmental management aims to preserve the environment and protect its inhabitants from the various environmental hazards, the Nigerian government and several states therein have established different governmental authorities and agencies that would work hand in hand to ensure effective and efficient means of managing the environment at both federal and state level. There are policies and institutional structures/mechanisms put in place for proper management of the environment in the state. The policies, institutional structures and mechanisms include the following; **Enugu State Waste Management Authority which** has the responsibility to ensure effective and efficient collection, removal, process, treat and safety disposal of domestic, hospital, commercial, institutional and industrial waste and recycling of waste; Ministry of Environment which oversees about cleanness of the state and for monitoring and control of environmental issues; Town Planning Authority, this regulate the structures or type of building/gives approval. Others include; Ministry of Capital Territory, National Youth Service Corps (NYSC) with Partnerships with State Government, National Erosion and Watershed Management Project (NEWMAP), National Environmental Standards and Regulation Enforcement Agency (NESREA) and establishment of Environmental protection court for prosecution of defaulters.

By 2050, it is projected that China, India and Nigeria would be the world's most populated countries, accounting for 37% (of the increase of nearly 2.5 billion people in the urban population by 2050) of global urban population. The growing population in Nigeria alone (the most populous African country) is expected to trigger regional concerns in areas of urbanization, population flows, urban infrastructure and service delivery, food security, resource & wealth distribution, insecurity/conflicts, and Environmental degradation; all of which have the capacity to impact the urban system. To say the least, there will be a significant increase in demand for municipal infrastructure such as waste management facilities and services delivery. Recent research has shown that most of these facilities are not available or are in short supply and the Environmental Management Agencies are not discharging their duties effectively despite all government effort at reducing environmental problem did not yield tangible result as environmental problems still persist in every part of Nigeria of which Enugu state is not left out. It is therefore critical to analyze the effectiveness of this policy put in place by government and to also assess the impact of this policy on environmental management in Enugu state. The objectives of this study therefore include;

identify and analyze the effectiveness of the policies through the performance of the institutions for environmental management; identify the short comings of the policies and constraints to the performance of the institutions; and proffer suggestions/remedies towards proper and efficient environmental management

## MATERIAL AND METHOD

The study area is Enugu State, Nigeria. Enugu is a State in Southern Nigeria. The State lies between latitude  $5^{\circ}56^{1}$ N and  $7^{0}5^{1}$ N of the equator and longitude  $6^{\circ}53^{l}E$  and  $7^{0}55^{1}E$  of the Greenwich meridian (Anyadike, 2002). The State has land area of about 8,022.95km<sup>2</sup> with seventeen (17) local governments areas (Enugu State Agricultural Development Program) (ENADEP, 2008) and population of about 3,257,298 persons (NPC, 2006). The capital city has a population of 722,664 persons by 2006 census.

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According to National Population Commission (2006) Enugu, the capital of Enugu state is made up of three local government areas namely: Enugu South, Enugu North and Enugu East with a total population of 198,032, 242,050 and 277,119 respectively. The state is predominantly rural and agrarian with about 68% of its working population engaged in farming, trading (18.8%) and services (12.9%) (Williams 2008).

### SAMPLING TECHNIQUE

The first stage involved random selection of two layouts from each local government area.

In the second stage, two (2) streets were purposively selected from each layout making it a total of twelve (12) streets. From each of the streets, thirty two (32) respondents were sampled making a total of three hundred and eighty four (384) respondents. However, out of the three hundred and eighty four (384) questionnaires distributed to the respondents, a total of three hundred and seventy eight (378) of them were effectively filled and returned for analysis. Similarly, eleven (11) questionnaires were also distributed and all returned from eleven management staff of both the State Ministry of Environment and Mineral Resources and Enugu State Waste Management Authority (ESWAMA), making the total number of respondents to be three hundred eighty nine (389). Data for the study were collected through primary and secondary sources using a structured questionnaire. The 378 questionnaires that were returned from adult heads of the households and 11 questionnaires that were returned from both the management staff of Enugu State Waste Management Authority (ESWAMA) and State Ministry of Environment and Mineral Resources was what the researcher used to achieve the objectives of this study.

### DATA ANALYSIS

The objectives of the study were achieved using descriptive statistics. The four-point likert-scale of strongly agree (SA: 4 point), Agree (A: 3 point), Disagree (D: 2 point) and strongly disagree (SD: 1 point) were used. The mean score for each respondent's option was obtained based on the four-point likert scale rating. 4+3+2+1 = 10/4 = 2.50. The mean score of the respondents based on the 4- point rating scale was computed as:

4+3+2+1 = 2.50

4

### **RESULT AND DISCUSSION**

Distribution of respondents (general public) according to their response towards the effectiveness of the activities of the institution (ESWAMA)

Table1 shows that the public strongly agreed that ESWAMA collects, removes, processes, treat and safely disposes of waste; remove and disposal of abandoned vehicle; removal and disposal of carcass of animals from public places and design, operate and maintain waste disposal facilities and also agreed that ESWAMA clean streets. Therefore, out of the eight (8) statutory responsibilities of ESWAMA, the general public gave a fair approval that, ESWAMA is effective in number: 1, 2, 3, 5 and 7 as shown in table1.

Table 1 Distribution of respondents (general public) according	to their response towards the effectiveness of the activities
of the institution (ESWAMA)	

S	statutory Responsibilities	N	Mean	Decision
1)	Collect, remove, process, treat and safely disposed	378	3.4101	Accepted
	of waste			
2)	Clean streets	378	2.5556	Accepted
3)	Removal and disposal of abandoned vehicle	378	2.6640	Accepted
4)	Clearing of sewage			
5)	Removal and disposal of animals from public places	378	2.0556	Rejected
6)	Cleaning, clearing, and maintenance of drainage system within the state	378	2.6303	Accepted
7)	Design, operate and maintain waste disposal facilities	378	2.1323	Rejected
8)	Control and keep close watch on all waste disposed system in the state	378	2.8519	Accepted
	-	378	2.3228	Rejected
/alid N		378		

## Distribution of respondents (general public) according to their response towards the effectiveness of the activities of the Ministry of Environment and Mineral Resources

The table 2 shows that the public agreed that the institution is effective in Urban sanitation and beautification, pollution control, and in setting guide lines for environmental impact assessment (EIA) with mean score of 2.6640, 2.6217 and 2.5079 respectively and ineffective in others as indicated in the table below:

## Table 2 Distribution of respondents (general public) according to their response towards the effectiveness of the activities of the Ministry of Environment and Mineral Resources

Statutory	Responsibilities	N	Mean	Decision
1)	Soil erosion control	378	2.4868	Rejected
2)	Urban sanitation and beautification	378	2.6640	Accepted
3)	Pollution control	378	2.6217	Accepted
4)	Urban sewage management and control	378	2.1958	Rejected
5)	Setting guidance for fumigation of premises	378	2.1534	Rejected
6)	Mitigation of climate change	378	1.9180	Rejected
7)	Regulation of outdoor advertisement	378	2.0450	Rejected
8)	Set guidelines for environment impact assessment (EIA)	378	2.5079	Accepted
9)	Supervise the activities of the forestry commission			
10)	Provide regulatory scheme for environmental protection and conservation	378	2.1005	Rejected
11)	Sensitization	378	2.1243	Rejected
		378	2.2698	Rejected
lid N		378		

## Distribution of respondents (management staff) according to their response on constraints to the performance of the institutions

The table 3 depicts that limitations of legal framework, institutional bottleneck, corruption, inadequacy of environmental impact assessment, inadequacy of funding and ignorance were major constraints affecting the performance of the institutions. It can be deduced that, without all these put in appropriate place at the appropriate time, the institutions cannot function effectively. Others are lack of working tools to carry out their duties very effective, Government interference when a high profile person default, Poor sensitization program and lack of basic infrastructures like access road to dump site by waste evacuation trucks

# Table 3 Distribution of respondents (management staff) according to their response on constraints to the performance of the institutions

Constraints		Ν	Mean	Decision
1)	Limitations of legal framework	11	3.4545	Accepted
2)	Institutional bottleneck	11	3.0909	Accepted
3)	Corruption	11	3.1818	Accepted
4)	Inadequacy of EIA	11	2.9091	Accepted
5)	Inadequacy of funding	11	3.3636	Accepted
6)	Ignorance	11	3.1818	Accepted

## CONCLUSION

This study reveals the situation analysis of environmental policies and the institutional structures/mechanisms put in place for environmental management. It shows that the environmental policies were not followed and implemented to the latter. It also shows that the performance of the institutions were below average. These were attributed to the constraints faced by the

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institutions. Therefore, this study recommends that the existing legal provisions should be reviewed and strengthened to accommodate and control the enormous problem of the environment caused by the human activities.

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Section A: Personal	I Data.				
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Sex: Male	Female				5
Marital Status: Sing	ile 🔽 Married 🛛				
Age: Below 20 yrs [	21-41 🗸	42 65 [			
Occupation: Traden	s E Farmers	Workers	V s	tudents	
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SD = Strongly	/ Disagree				
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### APPENDIX

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SECTION C: Examine the effectiveness of the policies for environmental management through the performance of the institution with regards to their statutory responsibilities.

 Enugu State Waste Management Authority (ESWAMA) Statutory responsibilities

performance	SA	A	D	SD
Collect, Remove, Process, Treat and safely disposed of waste		~		
Clean streets		X		
Removal and disposal of abandoned vehicle			V	
Clearing of sewage			V	
Removal and disposal of carcass of animals from public places			$\sim$	
Cleaning, clearing and maintenance of drainage system within the state		$\checkmark$		
Design, operate and maintain waste disposal facilities		$\checkmark$		
Control and keep close watch on all waste disposed system in the state	~			

#### ii. State Ministry of Environment and Mineral Resources

performance	SA	A	D	SD
Soil Erosion control		1		
Urban Sanitation and Beautification		V		
Pollution control		~		
Urban sewage management and control		V	1	
Setting guidance for fumigation of premises			V	
Mitigation of climate change			~	
Regulation of outdoor advertisement			V	-
Set guidelines for environmental impact assessment			V	
Supervise the activities of the forestry commission			~	
Provide regulatory scheme for environmental protection and conservation			1	
Sensitization			V	

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Section A: Personal Data.         Please tick in (v) the appropriate column that gives true information about you         Sex:       Male         Marital Status:       Single         No formal education       Incertain Contention         Marital Status:       Single         Marital Status:       Single         Sction B:       Environmental Problems in the state:         SA       A       D         Marital Status:       Single         Marital Status:       Single         Marital Statu	*					182		
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Length of service: 0 -1       1-2       3-4       6-7         Section B: Environmental Problems in the state.         SA = Strongly Agree         A = Agree         D = Disagree         SD = Strongly Disagree         (please, tick (\formal as many as are applicable)         Environmental problems         Nair pollution         Indiscriminate dumping of refuse         Verter pollution         Bioliversity loss         Deforestation         Erosion/flood         High density of motor         Vehicle	Religion: Christianity	Muslim 🚺 Tri	aditiona		others [			
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overcrowding     V       Poor urban housing     V       Noise pollution     V       Water pollution     V       Land/Soil pollution     V       Biodiversity loss     V       Deforestation     V       Erosion/flood     V       High density of motor     V	A = Agree D = Disagree SD = Strongly Disagree (please, tick (√) as many as an Environmental problems Air pollution	e re applicable	SA	A	D	SD		
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