

CENTRE FOR HUMAN SETTLEMENTS AND URBAN DEVELOPMENT JOURNAL

FEDERAL UNIVERSITY OF TECHNOLOGY MINNA

CHSUDI



DECEMBER 2010

CENTRE FOR HUMAN SETTLEMENTS AND URBAN DEVELOPMENT,
FEDERAL UNIVERSITY OF TECHNOLOGY,
RM.B. 65 MINNA, NIGER STATE

E-mail: chsud@futminna.edu.ng | | Copyright2010



CENTRE FOR HUMAN SETTLEMENTS AND URBAN DEVELOPMENT (CHSUD)



 \mathbf{Fr}

De

W.

Ur St:

es

In

T

aı ir

0

SI

VOLUME 1 NO.1, DECEMBER, 2010. MAIDEN EDITION

Published by:

Centre for Human Settlements and Urban Development,
Federal University of Technology,
P.M.B. 65, Minna, Nigeria.
E-mail: chsud@futminna.edu.ng

Copyright© Centre for Human Settlements and Urban Development 2010

All rights reserved.

Maiden Edition

Editor-in-Chief

Prof. (Mrs) S.N. Zubairu
Dept of Architecture
Federal University of Technology, Minna

Editorial Board Members

Prof. O.O. Morenikeji Dept. of Urban and Regional Planning, Federal University of Technology, Minna

Prof. Musa Galadima
Dept. of Microbiology,
Federal University of Technology, Minna

Mall. K.M. Yari Urban Development Bank, Abuja

Prof. D.A. Muazu
Dept. of Building,
Federal University of Technology, Minna

Prof. T.C. Mogbo
Dept. of Project Management,
Federal University of Technology, Minna

Prof. O. Agboola Dept. of Urban and Regional Planning, University of Ibadan Dr. A.M. Jinadu Dept. of Urban and Regional Planning, Federal University of Technology, Minna

Editorial Advisers

Prof. J.B. Falade UN-Habitat Nigeria

Prof. H. Tukur Sa'ad
National University Commission
Abuja

Prof. J.I. Ighalo
Dept of Estate Management
Federal University of Technology, Minna

Prof. U.O. Nkwogu
Dept of Architecture
Imo State University, Owerri

e of Contents	pages
ssment of Labour only Subcontract Arrangement in the Building truction Industry in Nigeria: Jimoh, R.A. & Oche, D.J	5 – 15
al Housing and Crime Perception in Bosso Town of Minna Metro r State: Olaniyan, O. A & Idowu, O.O.	opolis, 16–26
Mimicry: An Inspiration to Design and Environmental Problems nammed, Isa Bala.	: 27–37
Examination of the Spatial Location and Distribution of Periodic orthwestern Nigeria: Ibrahim, Jaro Musa.	38 - 47
acts of Urbanization on Environmental Quality in Kaduna and Za es of North-Western Nigeria: Aiyejina, Tokura Williams & Uma ko Emmanuel.	aria ;
asuring the Inequality of Public Health Facility Provision in Bida er State: Musa, Haruna D. & Gana, F.N.	Town, 61 – 71
Impact of Commercial Motorcycle Operation on Urban Road Seria: A Case Study of Minna, Niger State: Lekan, M. Sanni	ecurity in 72 – 84
men as Stakeholders in the Sustainable Management of Urban vironment: Jinadu, A.M.	85 – 92
pact of Reworks on Project Delivery in the Nigerian Construction ewobi, L.O. & Ibironke, O.T.	n Industry: 93 – 104
terminants of Building Construction Project Cost in Nigeria: Baniyu & Ahmed, O. Ibrahim.	ashir, O. 105 – 11

WOMEN AS STAKEHOLDERS IN THE SUSTAINABLE MANAGEMENT OF URBAN

Jinadu A. M (Ph.D, MNITP, RTP)

Federal University of Technology, Minna E-mail: jinaduola@futminna.edu.ng

Appliance The complex nature of urban environmental problems and the inability of the earlier management approaches to The composition of the partnerships in our cities. This paper examines the different ways in which women's resolve mean activities impact on urban environment and the efforts of the women in managing the problems in Minna, Niger State. It was found out that woman's economic activities such as dressmaking, food\drink in Millian, the Momen is missing and agricultural produce processing contribute to refuse generation, environmental littering and making and agreement hesides the appropriate to retuse generation, environmental littering and pollution. However, the women in micro economic enterprise in Minna were found to play less active role in pollution. The paper noted the environmental management besides the sweeping of their immediate business premises. The paper noted the potential roles of women in citywide environmental management and concludes with recommendations on potential strategies such as education, formation of environmental groups and networking as priority issues for better involvement in urban environmental management.

Introduction

Cities of the 21st century face a myriad of unresolved environmental problems which include poorly managed solid wastes, littering, unserviceable drainages, pollution and general environmental degradation. In most of the developing countries, these greater assumed problems have complexities and efforts to resolve them have not yielded much positive results despite government's efforts and huge financial commitments. These problems have imposed heavy health burden on urban residents and they remain major challenges to the city managers worldwide.

The existing backlogs of unresolved environmental problems in most developing countries are great indications of the need for new partnership in environmental management. In response to this need, the United Nations Center for Human (UNCHS) launched Settlements Sustainable Cities Programme (SCP) in 1990 to address urban environmental problem through capacity building and popular participation. The SCP encourages partnership among all interest groups in the city. The programme is built on the principle that urban environmental problems affect every individual, group organization in the city in all ramifications. Hence, sustainable environmental management requires a broad-base, active

participation of all those who can contribute to solutions and all those whose cooperation are necessary for successful implementation of environmental management programmes. The SCP introduced the concept of stakeholders in the management of urban environment. Stakeholders are actors who have interests in cities and whose decisions and activities affect the urban environment. According to the UNCHS (1994), they are those whose interests are affected, those who possess relevant information and expertise and those who control relevant implementation instruments. These actors are diverse in their interest, the level of impact on the environment and their capability for involvement. They include persons and organizations from the public sector (especially at the local level), the private sector(especially the business community), and the popular sector (especially communities and NGOs).

Women, in all parts of the world, are considered as major stakeholders in the They constitute a urban environment. sizeable proportion of the urban residents. As members of the business community, women have interests in commerce and industry most especially at the informal sector level. Women constitute a large proportion of the urban informal sector operators (Mayra and Margnerrte, 1990) and about 55.7% of the urban informal sector activities are operated by women (Strassmann, 1987).

There is no doubt that the micro economic activities of women have considerable impact on the urban environment. In many of the developing countries, women's role has extended beyond the traditional house keeping to that of working in the fields. Thus, as women collect fuel, fodder, water. etc. they set up the process of environmental change. However, the questions that may be asked are: In what ways have women's economic interests affected the urban environment? What are their contributions in environmental problem management and what are the areas for possible improvement? Against the backdrop of the increased recognition of the roles of women in development, this paper addresses these questions and explores the avenues for hetter future involvement of women as stakeholders in the management of urban environment.

Research Methodology

The paper utilizes from both the primary and secondary sources. The secondary data were drawn largely from the literature on known cases of women participation in environmental management. The primary data were collected with the aid of structured questionnaire, which sought information on the micro economic activities of women, the waste generated, the impact on the environment and women's roles in the management of the problems. The questionnaires were administered on 830 micro enterprise operators and food processors drawn from eight residential wards in Minna, Niger State. The selected wards include Nasarawa wards I, II and III, Sabon Gari, Minna Central, Makera and Limawa wards I and II. Oral interviews were also conducted on women leaders in the neighbourhood and a woman NGO at the Federal University of technology, Minna. The data collected were analyzed using simple descriptive statistics and the results were presented in frequency and percentage score tables.

Review of the Roles of Women in Environmental Management

Women are globally acknowledged as a dynamic, industrious and resourceful gender that contributes positively to management environmental Sayne (1991) observed that societies. women have continued to play the primary role in taking care of the earth planet and its inhabitants. The advocates of cultural ecofeminism (a broad canvas of ideas and practices, evolving largely from Western women's participation in the women's ecology and peace movements) portrayed women as "natural" environmental carers due to their role in nurturing life.

The global debate on women and environment has gradually shifted away from viewing women as mere victims of environmental burden to the recognition of the roles they could play in natural resource management, arising from their knowledge and the privileged experience gained from working closely with their environment. Right from the 1985 Third Conference of Women held in Nairobi, Kenya (where the Nairobi Forward-looking Strategies for the advancement of Women were adopted) to the 1992 United Nations Conference Environment and on Development, opinion women on advancement and their key role in the preservation and management of the environment have aggregated over the years. Specifically, chapter 24 of Agenda 21 specifies the global action for women towards sustainable and equitable development and one of its objectives urged national governments to implement strategies for the advancement of women's national participation in ecosystem management and control of environmental degradation.

Several cases of women involvement in environmental upkeep have been documented in the literature. As the custodian of good house keeping, they see

the basic hygiene of the family and the of the basic hygiene of the family and the surrounding and this involves the sweeping ind cleaning of the surroundings, seeking he efficient disposal of wastes etc (NEST, 1991). At the neighbourhood level, women many parts of the world have made mortant contributions in the maintenance mortant contributions in the maintenance of shelter and infrastructure. In Africa for instance, women have traditionally carried maintenance work within the house and the larger physical environment of their neighbourhoods (Agbola, 1990).

Few concrete examples could be cited here. First, in Kirillapone, women, through a voluntary unpaid labour called shrmadana, have participated in the maintenance of public facilities. (Fenando, 1985; cited in Agbola, 1990). The Mabati women group in Nyeri, Kenya were also involved in the improvement of shelter conditions and related services since the early 1960s (Together Foundation and UNCHS, 2001) while in Samoa, traditional women societies were responsible for the maintenance of domestic water resources and sanitation (UNCHS, 1985: cited in Agbola, 1990). In India, Rani Tyagi (1992) has reported how rural women in the mountain areas of Himalayas have actively maintained and managed the ecosystem. According to the author, the famous forest movement called 'Chipko Andola' was involved in a campaign against forest destruction in the Himalayas. Women groups in the area have also taken many initiatives to regenerate the forest by planting trees and protecting them.

These traditional rudiments of women's environmental management activities have been augmented by recent efforts of organized women groups whose activities are facilitated by national governments, the United Nations development agencies and NGOs. In Morocco, for instance, women from the Maghreban Forum for Environment and Development organized a campaign on deforestation and launched a tree-planting project in 1990 (Together

Foundation and UNCHS, 2001). Over 500 women participated in the "One Woman, Two Trees" programme in which trees were planted in public areas and schools throughout the Rabat metropolitan area.

The activities of United Nations Population Fund (UNFPA) and UNIFEM have also enhanced women participation and their potentials in city management. A good reference point is the Women's Cooperative for Education, Family Health and Sanitation, which was established in the Coura distinct of Medina by these bodies. This organization involved secondary school graduates in organizing efforts to collect household garbage, clean up sewage ditches and carry out public enlightenment campaign. The general outcome of this effort the increase environmental awareness and change in household behaviour (UNFPA, 1996).

In addition to the voluntary activities of women in environmental management, women empowerment programmes in India have also demonstrated the effectiveness of women-run waste management outfits in solid waste management. In 1998 for instance, solid waste management in Kukatpally, India was entrusted on women self-help groups (Together Foundation and UNCHS, 2001) The groups were organized, trained and supported financially through banking institutions and fund government schemes. The women-run solid waste management outfits were affirmed to achieve regular and effective garbage clearance, road sweeping and de-siltation of drains that brought about a qualitative and the improvement in visible environment of Kukatpally city. Also in 2006, the Global Environment Fund (GEF) reported the activities of the Phnentsholing Women Association (PWA), an NGO in Bhutan, in promoting conservation and sustainable use of resources. The association collaborated with the city corporation to conduct a cleaning campaign

included clearing of drains, waste collection and disposal as well as grass cutting.

There are several other acknowledged but undocumented efforts of women in environmental management in many parts of the world. In Nigeria, for instance, the National Association of Women in Academics (NAWACS) has carried out a number of environmental management activities. The Federal University of Technology, Minna chapter of NAWACS carried out a research on campus waste litter pattern in the year 2001. With financial assistance from the University, it thereafter mounted over 50 waste disposal baskets on steel frames and provided about 12 refuse collection drums placed at strategic places around the campus. The association also carried out environmental cleanliness education programme on diseases transmitted through dirty environment in

Women's Micro Economic Activities in Minna: Environmental Problems and Management Efforts

Women constitute a large part of the urban population and that about 55.7% of the urban informal sector activities are operated by women. These economic activities of women generate certain environmental problems. A survey of the micro economic activities of women conducted in nine residential wards in Minna shows that the women are engaged in a wide range of businesses which could be categorized under four major subeconomic activities (table 1). These subactivities include sewing\dress making, food and drink making, agriculture\food processing and product\material making.

2002 and trained the University cleaners on the proper use of toilet cleaning tools and materials. The environmental management activities of NAWACS also included campus beautification exercise in which 12 shade trees and over 100 shrubs were planted in Bosso campus of the University between July and August 2002.

The cases cited are few examples of the activities of women in environmental management and upkeep as there are several other documented and undocumented cases worldwide. The different cases point to the capability of women folk and the potential contributions they could make to sustainable management of urban environmental problems. The next section considers the impact of women's micro economic activities on the environment of Minna town and the efforts made to manage the problems.

The components of these sub-activity areas have varying impacts on the immediate work place and the general environments. As shown in table 1, the different micro economic activities of the women generate both solid and liquid wastes that are disposed directly into the environment and which generate certain environmental problems. As the principal food processors (e.g cassava, locus bean and melon processing), for instance, women generate harmful wastes, which degrade the immediate environment and pollute the urban streams. The nature of the environmental problems\impacts generated by the variety of wastes produced include environmental littering, land, water, air and noise pollution, local atmospheric heating and general land degradation.

able 1: Economic Activities of Women and Related avironmental Problems

momic\Production Activities	Types of Waste Generated	Environmental Problems\Impact
ving\Dress Making	Pieces of threads	Environmental littering
	Pieces of clothes and threads	Refuse and littering
itting	Pieces of threads	Environmental littering
loring	Colored waste water	Land pollution
othe weaving		1
and Dye	Soya beans paste	Refuse\ air pollution
Daink Making	Polythene wastes	Refuse and littering
od and Drink Making	Polythene wastes	Littering
ya milk production	Plastic\paper cans,	Refuse and littering
ter nackaging	Plastic\paper can, fruit remnants	Refuse and littering
mu and Zobo drinks	Steel cans, polythene, crumbs	Refuse, atmospheric heating
gurt drinks	, , , , , , , , , , , , , , , , , , , ,	
uit dinks	A Day of the State	
infectioneries (bread\cake)	Animal dung, feed wastes	Refuse, noise and air pollution
	Dusty shafts, paper\polythene	Refuse, air pollution
	Shafts	Refuse, air pollution
griculture\food processing	Cassava peels, cyanide acid	Refuse, land degradation
pultry keeping	Yellowish\brownish pasty dirt, chaffs	Refuse, urban stream pollution
oultry feed making	Fish scales, smokes and black sooths	Air pollution
ice\com\millet milling	Yam peels and ashes	Refuse
assava processing	Food remnants, ashes, waste water	Refuse, aesthetic pollution
ocust bean\melon processing	LANCE LANCE	
ish smoking		
am smoking\frying	Polythene wastes	Littering, aesthetic pollution
ood vending	Pieces of paper	Littering, aesthetic pollution
	Soap remnants	Chemical pollution
roducts\Material Making	Candle crump	Refuse, chemical pollution
olythene bag making	Disease of moud backer mendunts	Land degradation, refuse
tationeries production	Pieces of mud, broken products	Land degradation, foruse
loap making	The state of the s	The state of the s
Candle making		
ottery\ ceramics		The second second
		WWW.
7 May 200 M		

Source: Fieldwork, 2007

The survey findings shows that the wastes generated are managed by crude methods. As shown in table 2, majority (87.3%) of the 830 respondents interviewed dispose their refuse into any available open space in

the town. Only 10.5% of them use officially designated refuse dump sites while others dispose the refuse into open drainage\ nearby bush of even burn the refuse openly to cause air pollution.

Table 2: Methods of Wastes Disposal

Disposal Method	E-co-	al
Available open space	Frequencies 724	Percentages
Official refuse site	87	87.3
Open drainage	7	10.5
Nearby bush	12	0.8
Open burning	10	0.2
Total	10	1.2
Source: Author's Analysis,	2007	100.0

Against the backdrop of the fact that economic activities of the women generate some wastes and environmental problems, the respondents were asked to mention the specific environmental management activities they are engaged in. The responses (table 3) show that the majority (78.2%) were involved in the sweeping of their business premises, another 13.8% were

engaged in occasional clearing of accumulated refuse while only 8.0% ever carried out general environmental sanitation. Generally, it was found out that all the respondents have poor perception ofthe environmental implications of their daily economic activities. Thus, no meaningful consideration is given to the proper management of the byproducts of their businesses.

Table 3: Environmental Management Activities of Respondents

Management Activities	r	The of responden
	Frequencies	Percentages
Sweeping of business premises	649	78.2
Clearing of refuse	115	
General environmental sanitation		13.8
Total	66	8.0
	830	100.0
Source: Author's Analysis, 2007		100.0

Source: Author's Analysis, 2007

The results of this research show that the women in Minna are urban stakeholders whose economic interest and activities affect the urban environment and who make little contribution to the management of the problems. The current management efforts are limited to the rudimentary cleaning of their immediate business environment. However as stakeholders the women have potentials for better involvement if given proper orientation and organization. What is required. therefore, is the creation of the necessary enabling environment. Achieving this however, requires the

identification of priority issues for better involvement.

Priority Issues for Better Involvement

The need for gender mainstreaming in urban environmental management cannot be over emphasized. Many global discourse and international conventions have stressed the need for tapping the potentials of women in environmental management. Specifically, Agenda 21 urges national governments to implement programmes that develop active participation of women, emphasizing their crucial roles in achieving the changes necessary reduce or eliminate to unsustainable pattern of consumption and production. in order to encourage investment in environmentally sound and

idly productive activities. In order to eve this feat, the following priority areas better involvement of women are osed.

Environmental Education

med environmental care awareness and the sciousness form co-operation and erstanding, In the Minna case study, icipation. nen stakeholders have poor perception he environmental problems arising from r socio-economic activities. Awareness ing through radio and television jingles, lic drama, focused group sensitization open air campaign is therefore essary. The required environmental care areness education and other awareness rcises could be channeled through the sting informal groupings in nmunity. Formal women associations h as the National Council of Nigerian men (NCNW), Nigerian Army officers ves Association (NAOWA), Police ficers Wives Association (POWA), deration of Muslim Women Association

National (FOMWAN). Nigeria **Journalists** Women of sociation AWOJ) and National Association of omen Academics (NAWACS) should lefine their roles and pay more attention the mobilization of urban residents (most towards groups) women pecially good upkeep and vironmental magement practices.

is known fact that women enjoy soft spots d are often listened to when they care to eak. The existing women associations ould exploit the current favourable gender licy environment to contribute to positive iblic discussions and act as environmental atchdogs. They should monitor and report ses of environmental mismanagement ith a view to seeking redress. sociations should start a nationwide view of the management programmes of ivironmental agencies and municipal thorities with a view to making positive ontributions.

Formation of Self-help Groups (ii) and Trade Associations

Self-help groups and trade associations are meaningful formidable platforms for environmental management involvement. Presently, the women micro enterprise operators in Minna are not organized into trade associations. The existing NGOs should help organize the women into trade associations to provide the necessary platforms for involvement and networking. Such associations will provide good avenues for mutual assistance, information out carrying dissemination and environmental management activities.

> Networking (iii)

Women are known to form a network of social and economic support and cooperation both at the neighbourhood level These avenues should be and beyond. explored to form a citywide link among the formal and informal groups to review environmental problems and draw up local priority problems. action plans on Activities at this level could, also include sharing of experience and exchange of programmes among neighbourhoods within the town. For instance, the experience of the Minna chapter of NAWACS in solid waste management and tree planting should be shared among women NGOs within the town and beyond.

Conclusion

There is a growing consensus on the view that women are stakeholders in the management of the urban environment, whose activities should go beyond the traditional home cleaning. The current global discourse on women, environment and development as well as the documented cases of the roles and potentials of women in environmental management are all pointers to the need for their proper and full engagement enlistment environmental management. Women appear to have great potentials in the management of urban environmental problems. However,

as revealed in the Minna case study, their level of involvement is currently low. Enlisting their full co-operation and

References

Agbola, T. (1990). 'Women, Self Actualization on the Theory of Development' African Urban Quarterly. 5(1 & 2), 170 - 175.

Agbola, T. (1990); 'The Nature of Women's Involvement in Housing Development: A survey of the Literature'. African Urban Quarterly, 45 (3 &4), 178-184

GEF (2006). Role of Women in Environmental Conservation. GEF Small Grant Programme. http://sgp.undp.org/web/project/27/

Myra, B. and Marguerite, B. (1990). 'Sex Differences in Access to Small Enterprises Development Fund in Peru' World Development Journal, 18, (5), 1-2.

NEST (1991). Nigeria's Threatened Environment: A National Profile. Nigerian Environmental Study/Action Team Ibadan: Intec Printers Ltd. pp 272 - 275

Rani, Tyagi (1992). Role of Mountain Women in Environment Governance. www.encoinsee.org/

participation therefore requires positive actions in the priority areas identified.

Strassmann, W.P. (1987) 'Home-Based Enterprises in Cities of Developing Countries'. Economic Development and Cultural Changes. 36 (1), 1-2.

Together Foundation and UNCHS (2001). Best Practices in Improving Living Environment. 2001 Istanbul + 5 Version; CD-ROM, neostream.

UNCHS (1994). Sustainable Cities: Concepts and Application of a United Nations Programme, Nairobi: UNCHS, 1994 pp 8-10 and 26-34

UNCHS (2005). Women in Cities. *Habitat Debate*, 11(1), 1-2.

UNFPA (1996). State of World Population, *United Nation Population Fund*, 1996.

United Nations (1992). Earth Report Summit. Agenda 21: the report of the United Nations conference on Environment and Development (Earth Summit) in Rio de Janeiro, 3 – 14 June 1992

United Nations (1995). Women Key to Development. Partnership for Development. 1(2), 1-2. October 1995