

AN EXAMINATION OF URBAN PIPE BORNE WATER SUPPLY AND DEMAND IN SOKOTO METROPOLIS, SOKOTO STATE

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ABSTRACT

While the world's population increased rapidly in the 20th century, the use of renewable water resources has grown six-fold leading to water crisis and stress in Nigeria's major cities. Despite Nigeria's abundant water resources, the Federal Ministry of Water Resources in 2004 noted that less than half of the 85 million people living in urban and peri-urban areas in Nigeria enjoys a reasonable water supply. This paper is aimed at investigating the challenges of sustainable urban water supply in Sokoto metropolis. Both primary and secondary data were obtained through questionnaire administration. The collected data were analyzed using trend based technique as well as Pearson's product moment correlation. The results revealed that there is a good correlation between water supply and demand and that the supply is not keeping pace with the ever increasing demand. This paper suggested a Government-Community based approach towards ensuring adequate water supply. Government should also increase the budgetary allocation of Sokoto State Water Board for maintenance and upgrading of water supply facilities to the required capacity to enhance supply to the growing population in Sokoto Metropolis.

Key words: Sustainable, Urban, Water Supply, Metropolis, Sokoto