

Household Energy Usage in Nigeria: Emerging Advances for Sustainable Development

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Abstract : This paper presents the emerging trends in household energy usage in Nigeria for sustainable development. The paper relied on a direct appraisal of energy use in the residential sector and the use of a structured questionnaire to establish the usage pattern, energy management measures and emerging advances. The use of efficient appliances, retrofitting, smart building and smart attitude are some of the benefitting measures. The paper also identified smart building, prosumer activities, hybrid energy use, improved awareness, and solar stand-alone street/security lights as the trend and concluded that energy management strategies would result in a significant reduction in the monthly bills and peak loads as well as the total electricity consumption in Nigeria and therefore it is good for sustainable development.

Keywords : household, energy, trends, strategy, sustainable, Nigeria

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