



**The Challenges of Climate Change in National Development**  
Proceedings of the 4th International Conference (FESCON 2023) at Chukwuemeka Odumegwu Ojukwu  
University, Uli Campus, Uli, Nigeria  
18 - 21 October 2023

**THE USE OF SOLAR ENERGY AND ITS GREEN BUSINESS POTENTIAL IN  
ONITSHA, ANAMBRA STATE, NIGERIA**

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**Abstract**

*The potential of solar energy is enormous giving an account of generating almost 200,000 times the world's daily electricity if only it can be utilized. The Solar Energy System (SES) promotes renewable energy and provides green products which are environmentally friendly and meet a clear need for sustainability. This study assessed the eco-friendly ability of green entrepreneurial opportunities in the use of solar energy systems in Onitsha Anambra State, for mitigating climate change in 2021. This concerned a wide range of users, such as traders, computer business centres, eateries and bars, barbers' shops and households to reduce any negative environmental impacts. Various related literature on green entrepreneur opportunities in the use of solar energy systems were reviewed. 50 persons were purposively selected using simple random sampling. Data were collected using a questionnaire and a tabular presentation was used to present the findings showing the frequency and percentage. Analysis of data was based on the research questions and findings. The result showed that most respondents are dealers of solar energy system technologies, outnumbering the users. Also, 60% of the respondents indicated that solar energy system is steady, saves money and best source of energy. However, 40% indicated that it needs expert service, 20% indicated that it creates job opportunities, and 20% indicated that it is noiseless, not cost-effective and needs high maintenance. Only 10% indicated that it has a lot of waste. Appropriate strategies can be put in place to make solar energy installation materials accessible to the poor and average man. This is because, with the realization of the full potential and promotion of solar energy technology, there could be sustainable economic, environmentally friendly and social development of Onitsha and its environs as an option for combating climate change.*

**Keywords:** Climate change, Solar Energy System, Sustainable development, Renewable energy