Juba reduced carbon emissions

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Combatting climate change, UNMISS has built a photovoltaic solar power farm capable of producing all the energy needed to run its water treatment system at UN House in Juba. Photo by Nektarios Markogiannis/UNMISS

More than 180 residents from five Kajo Keji communities, including leaders, women, youth, and elders, recently united to promote peace initiatives for a better future. Photo by Elizabeth Mpimbaza/UNMISS.

To this end, the main purpose of this study was, therefore, to assess, quantify and report on the emission potential of the hotel industry in Juba-South Sudan and propose a framework to guide hotels" management in developing GHG emissions reporting system for the sector. The findings of the study are expected to change the perception of the policymakers about the hotel industry in regard to carbon emissions and trigger the development of policy strategies towards climate-smart or green hotels development in South Sudan.

Given this specificity gap, Ricaurte (2011) laments the absence of specific standards to guide the process of reporting hotels" GHG emissions. Hence, Abeydeera and Karunasena (2019b) proposed a framework based on the guidelines provided by the IPCC, ISO 14064, ISCC, and GEF to guide the process of GHG emission reporting for hotels, and in this study, we propose additional framework to help hotels establish their reporting mechanism from scratch.

The setting of the organizational boundary for the study comprised of the entire area under each hotel management. The GHG emissions were evaluated through a defined operational boundary based on the three scopes proposed by the GHG Protocol (2020), as important levels for quantifying carbon footprint. Both direct and indirect emissions sources were identified and then presented in each scope as shown in Table 1.

The combustion of fossil fuels like diesel for power generation emits different pollutants into the environment. The electricity supply in Juba is exclusively self-generated using captive diesel generators installed within the hotel premises. Activity data related to energy generation take into account fuel consumed for electricity generation and running hotel cars for goods and services transportation. GHG emissions were calculated using the emission factor presented in Table 2.

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