

Abstract: This study aims to analyze the electricity consumption of Greater Lomé (Togo), a critical issue in view of the increasing needs and imperatives of energy transition.

According to the Togolese Policy and Regulatory Overviews on Clean Energy, the residential sector in Lomé accounts for nearly 60 percent of the total electricity consumption. This ...

This study presents a system dynamic approach to model the energy efficiency impact on the Togolese capital city's residential electricity consumption and carbon dioxide emissions reduction.

The aim of this study is to determine a prediction model adapted to each category of consumer, taking into account the parameters that make up the electricity network.

Study Area Presentation Historical Data System Dynamics (SD) Approach Lomé's Electricity Consumption System Dynamic Model Specific Mathematical Formulations Survey and Experiments Scenarios The scenarios are based on the situation whereby the minimum efficiency performance standards (MEPS) and energy labels are set up in the country. MEPS and energy labels are key policies to induce the promotion of energy efficient appliances and lights equipment that could help to reduce the accumulative residential electricity consumption and the C... See more on link.springer ProQuest Energy efficiency impact on urban residential's - ProQuest This study presents a system dynamic approach to model the energy efficiency impact on the Togolese capital city's residential electricity consumption and carbon dioxide emissions reduction.

Determinants of residential electricity consumption: Using smart meter data to examine the effect of climate, building characteristics, appliance stock, and occupants' behavior.

Lomé, the capital city of Togo, was used as a case study to assess the potential of EE and estimate its impact on long-term electricity consumption with the corresponding reduction of ...

The electricity consumption in Lomé is the product of four factors: 1) the per capita electricity consumption, 2) the household size, 3) the number of households having access to ...

In several regions worldwide, demand for electricity can be highly dependent on weather conditions. This study investigates the relationships between weather and electricity consumption in ...

Then, using Stella software, Lomé's residential electricity consumption model was built based on the following variables: (1) population, (2) the number of existing households with access to electricity, ...

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