Togo matrix energy systems

Therefore, this article provides data that can be used to create a simple zero order energy system model for Togo, which can act as a starting point for further model development and scenario...

Energy system modelling can be used to assess the implications of different scenarios and support improved policymaking. However, access to data is often a barrier to starting energy system modelling in developing countries, thereby causing delays. Therefore, this article provides data that can be used to create a simple zero order energy system model for Togo, which can ...

The reference electricity system of Togo shows that Togo has solar, wind, rivers and natural gas as potential sources of electricity. The target of the country is to ensure universal access to electricity by 2030 and to have 50% of renewable energy in the mix by 2025.

The main renewable energy sources available in Togo are: wind energy, solar energy and hydropower. The wind speed in Lomé is low with a monthly average value generally under 4 m/s. However, for small -scale applications, and in the long term as wind turbine technology develops, the use of wind energy may be foreseeable

Energy systems in many countries, including Togo, is illustrated by a balance between centralised and distributed energy system - which is mostly used nowadays to improve energy reliability and independence by providing a more stable electricity supply (Kursun et al. 2015; Liu et al. 2019;

Less than half of the Togolese population has access to electricity. The country has a relatively diversified energy mix and more than 13% of its final energy consumption comes from renewable supplies of energy, mainly hydropower.

GOAL: to promote an understanding, on a global scale, of the dynamics of change in energy systems, quantify emissions and their impacts, and accelerate the transition to carbon-neutral, environmentally benign energy systems while providing affordable energy to all.

developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (HS). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided

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