# Intelligent energy system Togo

How many people use electricity in Togo?
Electricity is used as a form of energy in 3.6%of households. In the transport sector,a lot of petrol (46%) and diesel (35%) is used. In industry,there is an even distribution in the consumption of electricity (36%),diesel (37%) and fuel oil (27%). Togo energy sector indicators.

How much energy does Togo use?
In total, electricity supply of 1.162 GWh is thus achieved through distribution losses, resulting in a final electricity consumption of 876 GWh. Togo's total energy consumption is divided into three sectors. The largest share, 76%, is in the use of biomass, followed by petroleum products 20%. Only 4% of energy is used in the form of electricity.

What is Togo's energy strategy?
The electrification technologies and business model of Togo. The national Power grid, mini-grids for PPP and solar home systems (SHS) The national strategy is based on the most cost-effective approach for identify the technologies to be deployed on the territory.

Who is responsible for the energy sector in Togo?
Another important player in the energy sector is the Togolese Agency for Rural Electrification and Renewable Energies(AT2ER),a public institution,with financial autonomy. The agency is in charge of implementing the country's rural electrification policy,promoting and developing renewable energies.

Why is access to electricity important in Togo?
Togo recognizes that access to electricity is an essential element of its economic development and inclusive growth policyand is one of the major pillars that will enable the implementation of its new National Development Plan. Togo's ambition is to ensure universal access for all Togolese by 2030,with a 100% access rate over the next ten years.

Where does energy come from in Togo?
Energy supply Togo from production and import to consumption. The energy sectors are divided into biomass,petroleum products and electricity. (SIE,2017) The available electrical energy in Togo in 2016 is 1.162 GWh of wich 744 GWh is imported. The remaining energy comes from domestic production.

The increasing concerns about the environmental effects of traditional energy sources and fossil fuels finite live, have shifted emphasis to renewable energy sources [1, 2].These latter significantly contribute to reducing greenhouse gas (GHG) emissions and traditional energy consumption based primarily on electric grid supply [3].Recent statistics ...

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world"s leading hydrogen fuel cell manufacturers, delivering a range of zero-emission hydrogen fuel cell products - from 800W to over 300kW - to automotive, aerospace, power generation, telecoms, marine, rail, UAV and materials handling industries.

Intelligent Energy Systems In recent years, digital platforms have emerged in many businesses to bring customers and providers together and to offer innovative services. The term platform is used very frequently in this context, but its meaning is not clear and uniform [32]. On the one hand, IT platforms are already being used today for the ...

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The SIE-Togo is a digital platform designed to enhance data sharing, reduce entry errors, and speed up processing times. The system aims to prevent information loss and improve data quality, which is crucial for ...

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Moreover, in-depth research on refining the mechanism, rules, and knowledge of sustainable energy systems is needed for intelligent operation based on data. To develop high-quality intelligent electricity services, it is necessary to develop advanced digital technology to build sustainable energy systems as well as power edge computing core ...

2 INTELLIGENT BUILDING ENERG MANAGEMENT SYSTEMS Intelligent Building Energy Management Systems Continental Automated Buildings Association 2020 Acknowledgements Harbor Research and CABA would like to acknowledge and sincerely thank the following Steering Committee members for funding, guiding, and participating in this research: ...

Author Nkado (2021) investigated the feasibility of integrating a photovoltaic-battery energy storage (PV-BES) system into the existing diesel generator system to reduce the community"s total dependence on conventional energy while improving the reliability of the microgrid. The study also minimizes the levelized cost of energy (LCOE) and ...

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Winner of the 2022 "Tremplin Start-up" competition of the West African Economic and Monetary Union (WAEMU), entrepreneur Nadjagou Lalle Yentaguime is supporting rural electrification in Togo with his intelligent solar ...

For instance, energy management systems in the context of electric vehicles (Liu et al., 2020), IoT"s (Golpîra and Bahramara, 2020), intelligent transportation (Yang et al., 2020), photo-voltaic systems (Langer and Volling, 2020), and virtual power plants (Sheidaei and Ahmarinejad, 2020) are also emerging topic in the intelligent energy ...

Climate change has become a major problem for humanity in the last two decades. One of the reasons that caused it, is our daily energy waste. People consume electricity in order to use home/work appliances and devices and also reach certain levels of comfort while working or being at home. However, even though the environmental impact of this behavior is ...

This paper presents the Intelligent Energy Systems Ontology (IESO), which provides semantic interoperability within a society of multi-agent systems (MAS) in the frame of PES. It leverages the knowledge from existing and publicly available semantic models developed for specific domains to accomplish a shared vocabulary among the agents of the ...

Nadjagou Lalle Yentaguime, the winner of "Tremplin Start-up", develops solar panels in Togo. The Solar Tracker increases the energy efficiency of solar streetlights, and the Panel Cleaner activates an automatic cleaning mechanism for ...

This premise differentiates Intelligent Energy Group from other energy service firms. The founding partners and their colleagues have over 100 years of experience among them in lighting, lighting controls, window systems and energy conservation. ...

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