

## European Solar Energy Storage

# Energy as a service Uganda



## Overview

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How will energy be used in Uganda?

The energy generated is expected to be used internally through the expansion of electricity access in Uganda from estimated 20 percent in 2016 (about 900,000 subscribers) to 40 percent in 2020 (about 3 million subscribers). Any surplus energy is expected to be sold to neighboring countries including South Sudan and DR Congo.

Who is responsible for energy policy in Uganda?

MEMD is also responsible for initiating legislation in the energy sector. Uganda's National Energy Policy is so far centralized, i.e. there are no energy officers at sub-national/district level. Part of the MEMD is the Energy Department (ED), which is structured according to sectors.

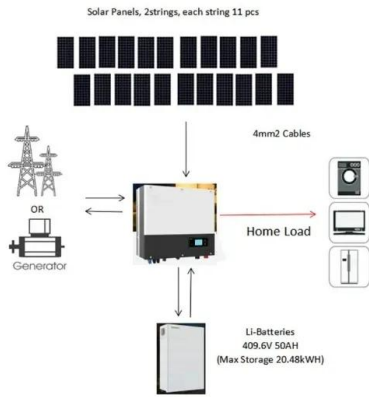
Does Uganda have a national energy policy?

Uganda's National Energy Policy is so far centralized, i.e. there are no energy officers at sub-national/district level. Part of the MEMD is the Energy Department (ED), which is structured according to sectors. ED comprises four divisions "Energy Efficiency", "Innovative and Renewable Energies", "Electricity" and "Provision with Oil Products".

Is the wind energy resource in Uganda sufficient for large-scale electricity generation?

This study concluded that the wind energy resource in Uganda is insufficient for large-scale electricity generation. However, the wind resource may be suitable for special applications, such as water pumping in remote areas and for small-scale electricity generation in mountainous areas.

## Energy as a service Uganda



### InfraCo Africa Backs Afresco's 'Energy-as-a-Service' Solution

Word count: 459. InfraCo Africa, part of the Private Infrastructure Development Group (PIDG) has invested \$1.5m in Afresco's 'Energy-as-a-Service' solution to bring clean, reliable power to Commercial and Industrial (C& I) clients in Uganda, Malawi and the Democratic Republic of the Congo (DRC).

### Energy efficiency as a means to expand energy access: A Uganda roadmap

Downloadable (with restrictions)! While energy efficiency can contribute significantly towards improving access to modern energy services, energy sector investments in many developing countries have largely focused on increasing energy access by increasing supply. This is because the links between energy efficiency and energy access, is often overlooked.



### About FRES

Every day, our technicians and service agents are out in the field providing customer service and maintaining our regional networks of solar energy installations. Households and businesses in remote villages are reached through a gradually expanding network ...

## ENERGY AS A SERVICE

Source: Adapted from Edison Energy, 2016; Eneco, 2019 Renewable energy and energy storage system Microgrids set-ups Installation and financing of appliances and assets Monitor Automated control Retrofitting with energy efficiency devices Optimise Operations without burdening the customer Energy-as-a-Service Energy Advice Energy Assets Installation



## **Powering Uganda: the quest for universal electricity ...**

As describes in a prior blog article, the per capita electricity consumption in Uganda was only 75 kWh/a in 2019, while in Germany it is 6787 kWh/a. Notably, Uganda's power sector is primarily driven by renewable ...

## Utilities in Uganda

Utilities of Uganda Energy. The state-owned Uganda Electricity Transmission Company is responsible for electricity transmission, which is supplied by the private company Electricity Generation Co (UEGCL) - the owner of the two major hydropower plants at Valubaale (180 MW) and Kiira (200 MW). Smaller hydropower plants supply about 17 MW.



## **The Energy and Climate Change Nexus in Uganda: Policy Challenge**

Downloadable! Although Uganda has abundant energy resources including hydropower, oil and gas, biomass, geothermal, and solar energy, energy poverty is still very high and constrains socio-economic transformation. Biomass energy

accounts for approx. 88% of the energy mix and only up to 28% of the country population have access to electricity, and the two energy sources are ...



## Energy-as-a-Service: A Business Model for Expanding

...

Energy-as-a-service (EaaS) is a business model whereby customers pay for an energy service without having to make any upfront capital investment. EaaS models usually take the form of a subscription for electrical devices owned by a service company or management of energy usage to deliver the desired energy service.



## [ALL in Trade Limited , Kampala](#)

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## Energy as a Service (EaaS) Report , Deloitte UK

Energy-as-a-Service platform provider: Incumbents have the upper hand. They develop deep capabilities in all digital technologies (including cloud, AI, data analytics, blockchain and robotics) and distributed energy resources.

Flexing their muscles, they manage intricate energy systems and offer a range of bespoke, flexible solutions.



## [Afrisale Energy and Gas](#)

Afrisale Energy (AFRISALE ENERGY LTD) is an indigenous service provider to the oil and gas industry in Uganda. It was incorporated as a limited liability company in Uganda in 2021 to carry on the business of oil sale, bulk ...

## **Kenya kickstarts a Super ESCO for boosting energy ...**

The new Super Energy Service Company will boost investments in energy efficiency and is linked to technical support from UNEP DTU Partnership. October 6, 2021 The government of Kenya has announced the ...



## **Solar-powered off-grid energy solutions in Uganda ...**

The Beyond the Grid Fund for Africa (BGFA) has signed two new agreements in Uganda to establish new mini-grids and scale up distribution of solar-powered refrigerators in the country. Access to electricity and off-grid ...

## Energy as a service: History, benefits and criticism - gridX

The customer pays for the energy service on a subscription or pay-per-use basis, rather than owning the energy infrastructure. EaaS can take various forms. For example, a commercial building may contract an EaaS provider to install and operate a rooftop solar system, which generates electricity for the building and feeds excess power into the grid.



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## Public Private Partnerships (PPPs) and Enhanced Service Delivery ...

Case Studies of PPPs in the Electricity Generation Sub Sector of Uganda The energy sector of Uganda depends on the Hydro-power whose installed capacity stood at 317MW, supplying only 5% of the population and unable to meet peak demand of 380MW by 2002 (MoEMD, 2002), despite the fact that the country had an identified potential of 2500MW of



IP65/IP55 OUTDOOR CABINET

OUTDOOR CABINET WITH AIR CONDITIONER

OUTDOOR ENERGY STORAGE CABINET

19 INCH

## Energy-as-a-Service: A Business Model for Expanding

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## Energy as a Service

Metrus has pledged \$175 million toward energy efficiency financing to support the DOE's Buildings Challenge Energy Efficiency as a Service. Because Energy as a Service is often focused primarily on the installation of equipment and technologies that reduce energy demand, it is sometimes referred to as Energy Efficiency as a Service or Efficiency as a Service.



## African Clean Energy

ACE is both a manufacturer of renewable energy products and a climate fintech pioneer in Energy as a Service (EaaS). Currently, ACE provides the ACE One hybrid energy system for several developing countries. (TAM) for ACE to provide clean energy solutions is 1,5M refugees in Uganda. ACE is mainly targeting 3 major settlements, Bidibidi

## **Powering Uganda: the quest for universal electricity access and**

As describes in a prior blog article, the per capita electricity consumption in Uganda was only 75 kWh/a in 2019, while in Germany it is 6787 kWh/a. Notably, Uganda's power sector is

primarily driven by renewable energy sources, accounting for an impressive 98% of electricity generation.



## Energy Report for Uganda. A 100% Renewable ...

PDF , On Oct 1, 2015, Mathias Gustavsson and others published Energy Report for Uganda. A 100% Renewable Energy Future by 2050 , Find, read and cite all the research you need on ResearchGate

## Energy Service Companies (ESCOs) Energy Service ...

market for energy service companies in Uganda (ESCOs) with a focus on energy and cost savings for agri-food processing companies. The guide was prepared by a team from Open Capital comprising of Neil Wood, Philippa Itabaza, Jonathan Maraka, Patrick Kikomeko, and Perez Magoola with support from the GIZ Water and Energy for Food (WE4F) team.



## Powering progress: The rise of energy-as-a-service in Uganda

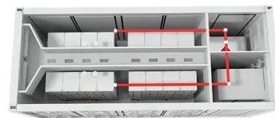
Learn how the SEFFA project is pioneering the 'energy-as-a-service' model in partnership with FRES Uganda Ltd. This new concept allows businesses and individ



## Vivo Energy reopens upgraded Busia Shell Station

13 ????· Busia, Uganda , THE INDEPENDENT , Vivo Energy Uganda has reopened its Shell Busia service station after extensive renovations. The company, which distributes and markets Shell-branded fuels and lubricants, aims better to serve the growing needs of customers in transit. Managing Director Joanita Mukasa Menya officiated the launch, which is part of Vivo Energy

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## Energy-as-a-service: the revolutionary new business model

Big Six moving into energy-as-a-service by acquiring new companies. In the UK, most of the Big Six energy suppliers have developed or acquired companies offering new services. Centrica, for example, in 2015 bought AlertMe, a smart tech company that provides energy and home-monitoring hardware and services, and Panoramic Power, which helps

## What Is Energy as a Service (EaaS) and Why Is It Important?

Energy as a Service by BECIS. BECIS is a leading Energy as a Service (EaaS) company, specializing in the development, construction, operation, and ownership of distributed energy solutions. Our EaaS model simplifies complexity and mitigates risks for clients while driving sustainability, cost-effectiveness, and energy resilience. A key

### Lithium battery parameters

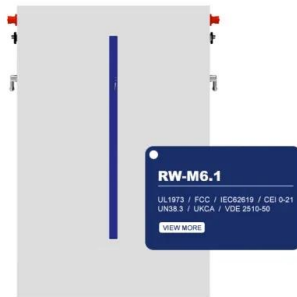
Product capacity: 100Ah

Product size: 135\*197\*35mm

Product weight: 1.82kg

Product voltage: 3.2V

internal resistance: within 0.5



## Energy as a Service

Energy as a Service (EaaS) is an emerging business model that shifts the incentive of energy services from volume to optimisation. EaaS business models typically display one or more of the following characteristics: 1. The customer receives a guaranteed outcome. A customer will pay a fee for a particular outcome or 'energy service'.

## Energy-as-a-Service

Energy-as-a-Service (EaaS) is a delivery model that combines hardware, software and services. Solutions should combine demand management and energy efficiency services, facilitate the adoption of renewables and other decentralized supply sources and also optimize the balance between demand and supply.



## **Executive summary - Uganda 2023 - Analysis**

Uganda has set an ambitious agenda to develop its substantial energy and mineral resources, promote economic development, end energy poverty, and lead the country to a just energy transition. Uganda's stated objective in Vision 2040 is to transform into "a modern and prosperous country", ensuring a better future for

### GRADE A BATTERY

LiFePO<sub>4</sub> battery will not burn when overcharged, over discharged, overcurrent or short circuit and can withstand high temperatures without decomposition.



its citizens.

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