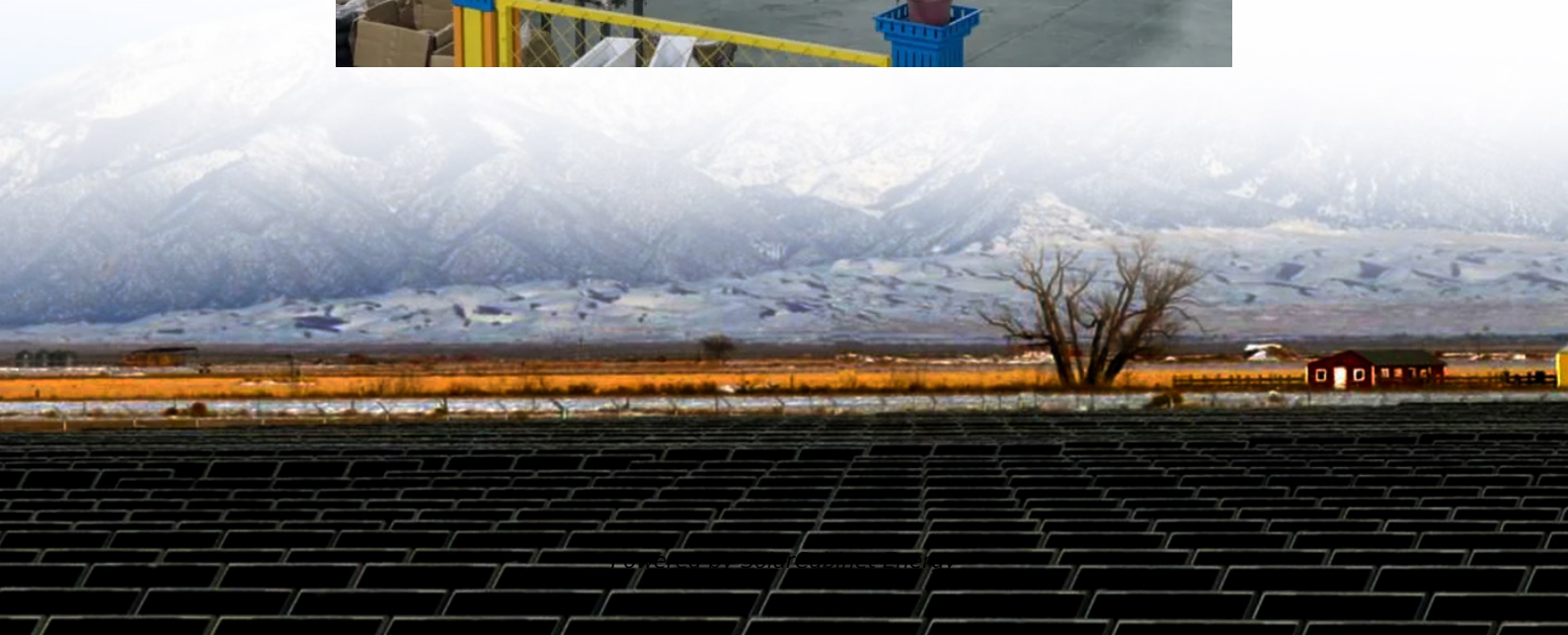


Rwanda Base Station Energy Management System





Overview

How is the electricity system managed in Rwanda?

The entire grid system is being managed using the Supervisory control and data acquisition (SCADA) system. To date, 51% Rwandan households have access to electricity, connected to the national grid (37%) or through off-grid systems (14%).

What is the energy sector in Rwanda?

The energy sector in Rwanda is made up of three sub-sectors: power, hydrocarbon and new and renewable sources of energy. Amongst the renewable sources of energy are biomass, solar, peat, wind, geothermal and hydropower. Biomass is the most used and dominates both the demand and supply sides of the Rwandan economy.

Is a biogas support programme possible in Rwanda?

Report on the Feasibility Study for a Biogas Support Programme in the Republic of Rwanda. SNV and Ministry of Infrastructure (MININFRA), Kigali. EAESI (2005). Rwanda National Paper. Presented at the Forum of Energy Ministers for Africa (FEMA), East African Energy Scale Up Initiative (EAESI). Nairobi 24-2 June 2005.

What type of energy is used in Rwanda?

Biomass is the most used and dominates both the demand and supply sides of the Rwandan economy. The current national energy balance of 86, 11 and 3 per cent of all energy consumed is used in the form of biomass, hydrocarbons and electricity, respectively. This is shown in figure 2.

Why is a parallel energy policy approved in Rwanda?

As the Government of Rwanda is promoting alternative sources of electricity such as solar home systems, a parallel policy has been approved to encourage people to make productive use of the power on the national grid, in order to



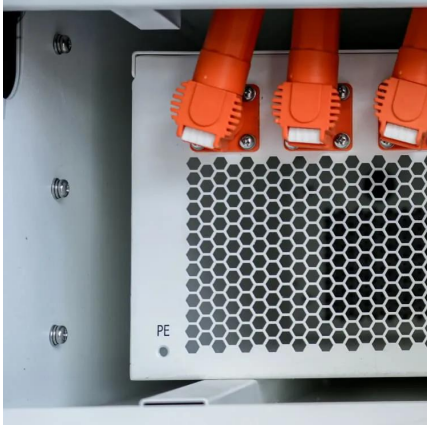
bridge the demand-supply imbalance, while making economic sense of future energy investments.

Does Rwanda need a methane-to-power project?

Rwanda wishes to utilize this resource to develop methane-to-power projects and other uses such as fertilizer and industrial use. The Methane in Lake Kivu is estimated to be sufficient to generate 700 MW of electricity over a period of 55 years. Rwanda's share of the total generation potential is about 350 MW, with the rest being DRC's share.



Rwanda Base Station Energy Management System

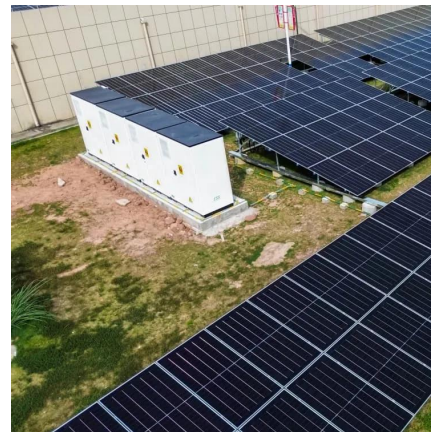


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