

Sierra Leone is blessed with abundant primary energy resources. These include crude oil and natural gas reserves and renewable energy resources such as hydro, fuel-wood, solar, wind and biomass. However, since independence (1961), the economy has been highly dependent on the importation of petroleum products to meet

Two assessments of Sierra Leone's biomass standing stock and MAI (mean annual increment) were examined in order to assess the sustainability of various biomass use scenarios. Large differences were found between the MAI of the two assessments, making it difficult to predict sustainability of biomass production and use.

The Bioenergy and Food Security Strategy for Sierra Leone for the longer term development of a sustainable bioenergy sector, targeting food security, poverty reduction, rural development and increasing energy access. A set of initial steps to support the Government in responding to bioenergy investors and build awareness.

Abstract - This paper assesses the Biomass gasifier based electricity generation system is technical and economic feasibility of a biomass-based hybrid gasification power plant in meeting the power needs of an off-grid remote village in Northern Sierra Leone, where it was installed and has been operating since 2012.

Steam is generated from bagasse and other waste biomass in two ISGEC boilers. It is designed to supply more than 200 GWh of power for the estate and surplus power ...

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Sierra Leone biomass battery

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Biomass In common with many African countries, biomass plays a big role in the energy mix representing over 80 per cent of the total energy consumed in Sierra Leone (UNDP, 2012). Biomass potential is high and includes fuelwood from forests, crop waste and agricultural residue with an estimated total generation potential of 2,706 GWh (REEEP, 2012).

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