Biomass storage Ethiopia

How much biomass is available in Ethiopia?
Ethiopia has surplus woody biomass,crop residue and animal dung resources which comprise about 141.8 million metric tonsof biomass availability per year. At present the exploited potential is about 71.9 million metric tons per year.

What is the energy potential of biomass residues in Ethiopia?
Energy potential from biomass residues in Ethiopia is assessed at 750PJ per year. Forest residue is the most abundant and has a great potential of bioenergy (46.5%). Energy poverty can be eradicated by decentralized bioenergy generation. To exploit and utilize the resources,integrated research and development is vital.

Does Ethiopia have a biomass resource potential for biofuels?
A study on Ethiopia's biomass resources potential for biofuels,with a focus on renewable energy sourcing strategies,was also conducted by Guta . The study investigated the biomass resources (crop residue) potential found in the country's various regions.

Are crop residue biomass resources available in all Ethiopian regions?
The availability of crop residue biomass resources in all Ethiopian regionswere investigated in this study. Fig. 2 shows that cereals,pulses,oilseeds,vegetables,root crops,fruit crops,coffee,and sugarcane were the most common crop categories cultivated in Ethiopia,but some farmers also grew chat,hops/gesho,enset,and other crops.

Are biomass and soil carbon stocks higher in Ethiopia?
In Ethiopia,the total biomass and soil carbon stocks recorded in the 5 studied forests were lowerthan the sum of biomass and soil carbon stocks (507 Mg C ha -1) reported from Adaba-Dodola community forest (Bazezew et al. 2015),but higher than the carbon stocks recorded in the Humbo forest (213.43 Mg C ha -1) (Chinasho et al. 2015).

How much carbon is stored in forests in Ethiopia?
For instance,it has been estimated that the forest resources in Ethiopia store 2.76 billion tonsof carbon in the aboveground biomass,and the high forests contributed the largest carbon stock (Moges et al. 2010).

The interlinkages are particularly important in low-income countries such as Ethiopia where biomass fuels account for more than 85% of the total energy consumed. This paper aims to assess the energy and economic values, and environmental emissions of solid biomass fuels in Ethiopia.

To fully exploit the potential of biomass energy, it is recommended that bioenergy feedstock value chains be thoroughly evaluated, including factors influencing biomass resources from Ethiopian forest residue development.

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Using crop statistics (2020-21), publicly accessible data, standard procedures and literature, this study estimates the bioenergy potential of crop biomass residues in all regions of Ethiopia. The assessment considered 44 different types of residues from 30 different crops grown in Ethiopia.

This review paper provides an in-depth assessment of Ethiopia"s biomass energy availability, potential, challenges, and prospects. The findings show that, despite Ethiopia"s vast biomass resource potential, the current use of modern energy from biomass is still limited.

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The present study has focused on exploring the availability of bio-energy in Ethiopia because of the potential of understanding the potentiality of energy production from biomass resources available in Ethiopia.

As a result, local carbon inventories for various tropical Afromontane forest are lacking, leading to the lack of quantifying the relationship between forest biomass and stand structure in Ethiopia.

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