

What can Sri Lanka do with excess wind energy?

Other applications to Sri Lanka are in the early discussion stages which include the ability to work on green hydrogen technology using excess wind to move from an energy deficit to a surplus situation (Fernando et al., 2023). Wind energy has the potential to be harnessed and transformed into hydrogen using an electrolyze.

Is biomass a viable energy source in Sri Lanka?

In the context of Sri Lanka, biomass has been the only native, stable, and primary energy source that has contributed significantly to fulfilling the country's overall energy requirement over centuries (Leelaratne, 2016).

Is Sri Lanka a viable alternative energy source?

Moreover, Sri Lanka has also identified the potential for wind, bioenergy, and solar as alternative energy sources in the past two decades. However, the current contribution from these three renewable sources in comparison to hydroelectricity remains significantly low.

Should waste cooking oil reselling be banned in Sri Lanka?

For example, using biodiesel from waste cooking was identified as a promising source to reduce the dependence on fossil fuels in Sri Lanka but, the lack of a clear policy in banning waste cooking oil reselling is needed to improve the situation (Arachchige et al., 2021).

Can biomass power plants generate 'dendro-power' in Sri Lanka?

Given Sri Lanka's tropical climate and excellent growing conditions year-round, there is a significant potential for developing such biomass-based power plants to generate 'dendro-power' through large-scale dedicated plantations or as small scale-plantations throughout grower schemes (Arachchige and Sakuna, 2019; Ariyadasa, 2015).

What are the disadvantages of Sri Lanka's energy sector?

Weaknesses One of the most significant drawbacks of the current Sri Lankan energy sector is high economic costs in comparison to the non-renewable energy sector, especially in the short to mid-run.

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