

Who is Freeplay Energy?

Freeplay Energy Ltd (AIM: FRE),(formerly BayGen Power Industries,Freeplay Energy Group),is a manufacturer and distributor of portable electrical or electronic products such as radios and lights,generally powered by hand cranked generators that charge rechargeable batteries. The company is based in London,UK.

How can Sri Lanka meet its energy needs?

This research demonstrated how,through a supply of renewables and the use of energy storage,the hourly energy demands of Sri Lanka's power,heat,transport,and desalination sectors can be met in the BPS. Solar PV,including prosumer solar PV,provided up to 86% of the annual energy demand of the country by 2050.

Does Sri Lanka have solar energy?

Furthermore,Sri Lanka' has also seen an increase in the energy generated through bioenergy sources (geothermal,biomass and waste energy) with this segment producing approximately 250 GWh of energy by 2020. However,despite its potential,solar energy has had an uninspiring growth until 2016.

What are Sri Lanka's energy policies & strategies?

Sri Lanka's energy policies and strategies strongly focus on developing conventional and nonconventional renewable energy sources for generating power. Promoting domestic energy resources has become one of the main policy components in Sri Lanka.

Does Sri Lanka need a new energy system?

The island's worst recorded economic crisis in 2022 led to a fuel shortage and a crippling energy crisis, highlighting further the importance of shifting Sri Lanka's energy system away from fossil fuel dependency [6, 7].

What is the final energy demand of the Sri Lankan energy system?

The final energy demand of the Sri Lankan energy system, indicated as fuel, heat and electricity are given in Fig. 5 (a). The higher electrification across all the energy sectors in the BPS results in a higher electricity demand for the final energy system, with 70% of the total FED.

Battery storage plays a significant role from 2030 onwards while meeting 34% of the final electricity demand in 2050. Results indicate that the increasing total final energy demand of Sri Lanka can be met through renewables-based electricity and a diverse mix of technologies.

Sri Lanka's overall renewable research activities are being burdened by the lack of accurate and contemporary data, especially in line with renewable energy generation and utilization.

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Freeplay Energy was founded in 1994, following the invention by Trevor Baylis of the "clockwork radio", which was designed to help halt the spread of AIDS in Africa by providing much-needed access to health information and advice.

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