REVIEW OF SMART CHARGING SYSTEM FOR PORTABLE ELECTRONIC DEVICES

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Abstract

In today's fast-paced world, the dependence on mobile devices has become a necessity for many people. However, one of the biggest challenges faced by individuals on the go is the constant fear of their devices running out of battery. This inconvenience can be particularly frustrating for those in a rush or without access to traditional charging outlets. In response to this problem, there has been a growing interest in providing instant smart device charging opportunities through renewable energy harvesting. This article explores the various developments in portable and stable large charging stations that utilize renewable resources such as solar, wind, and hand crank generators to generate power for charging mobile devices. Solar energy is produced by the sun and converted into electricity through solar cells. Solar chargers are now being used to charge mobile batteries, especially in remote areas. Research has been done to provide itinerant charging facilities for smart devices, with developments in portable and stable large charging stations. These systems are based on renewable resources and can be used for public or commercial purposes, providing instant smart device charging on the go. The integration of solar cells and LED charging capabilities into mobile devices offers a sustainable and convenient way to keep devices powered up, regardless of location or access to traditional power sources. This innovation not only benefits individuals but also contributes to reducing the overall carbon footprint associated with charging mobile devices. By providing eco-friendly charging options and reducing reliance on traditional methods, this advancement has the potential to revolutionize the way, it powers the devices on to go.

Keywords – Solar Energy; Solar Panels; Mobile Charging; Renewable Energy; Photovoltaic Cell