THE IMPORTANCE OF SOLAR RESOURCE USAGE IN INTERNET OF THINGS (IoT)

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ABSTRACT

The need to encourage the use of renewable resources exists in all developed countries. This enables the saving of non-renewable resources, security and independence in energy supply, preservation of the environment, increasing the competitiveness of the economy as well as socially responsible business. Modern living conditions imply the increasing application of ICT technologies in all spheres of life. The application of sensor stations within smart technologies such as smart cities, smart agriculture, etc. implies the installation of sensor stations in places without infrastructure, which is why batteries with limited capacity are mainly used to power them. This problem can be overcome by using photovoltaic cells to transform solar energy into electricity, which would ensure their energy independence, which would allow their even greater application. In this paper, a study of the possibility of supplying sensor stations with electricity using PV cells was conducted.

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Key words: solar energy, IKT technologie, sensor stations