

THE ROLE OF ALTERNATIVE ENERGY SOURCES IN CONTINUOUS USE OF TELECOMMUNICATION SYSTEMS

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Abstract: *Along with the increase in the number of people on earth, the rapid development of the economy, the demand for the use of energy resources as well as all kinds of products is increasing day by day. According to scientists, if we continue to use energy resources at the current level, the world's oil reserves will last for 50-60 years, natural gas for 70-75 years, and coal for 150-160 years. As a solution to this problem, alternative energy sources such as the sun, wind, and water, which are renewable in nature, are gaining momentum in the world.*

Key words: *wind, sun, water, BSC, AKB.*

INTRODUCTION

Along with the increase in the number of people on earth, the rapid development of the economy, the demand for the use of energy resources as well as all kinds of products is increasing day by day. According to scientists, if we continue to use energy resources at the current level, the world's oil reserves will last for 50-60 years, natural gas for 70-75 years, and coal for 150-160 years. As a solution to this problem, alternative energy sources such as the sun, wind, and water, which are renewable in nature, are gaining momentum in the world.

In order for communication systems to perform their function normally and without interruption, first of all, it is necessary to provide them with uninterrupted and high-quality electricity supply. In contrast to various other electrical appliances (for example, household appliances), communication devices make high demands on the stability of electricity and other parameters. Outages in electrical communication networks can occur from a few minutes to several days, and this is an absolutely unacceptable situation for communication systems.



In the design and construction processes of cellular communication systems, especially base stations (BS), base station controllers (BSC), special attention is paid to their power supply system.

For this purpose, today it is advisable for mobile communication system operators to use alternative sources of electricity in addition to permanent sources of electricity in order to ensure continuous operation of their network elements, in particular base stations.

now really wide to use have has been alternative energy sources example in the future the sun panels and the wind generators to bring can

Our country in the area activity showing cellular contact operators be yourself basic stand antennas devices electricity supply aternative sources at the expense of continuity of their provision to himself feature it is our country geographical in terms of the sun energy a lot falling area is considered That is year is 365 days if of which 300 days sunny is considered and this while alternative electricity energy sources the sun panels by means of of sleep efficiency provides .

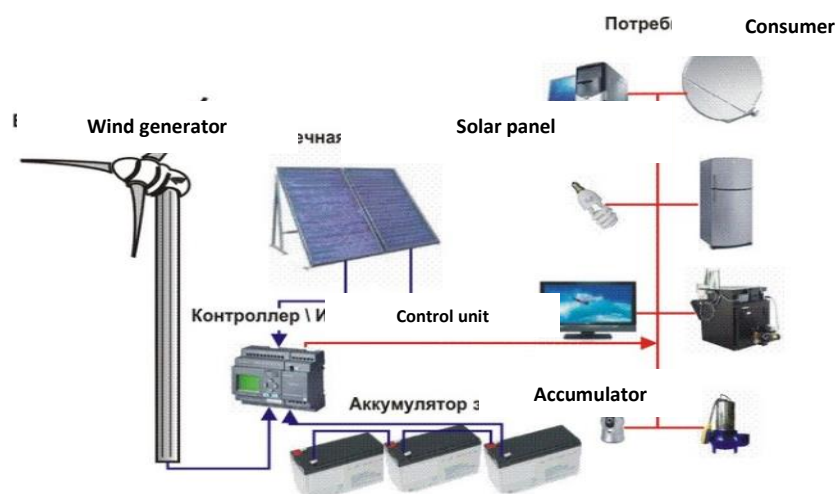


Figure 1 . Organization of alternative energy sources in telecommunication systems

Also such systems organize in reaching the wind from energy usage is also high to efficiency have In particular Ferghana province in the area service showing mobile contact network operators of the region Beshariq, Buvayda, Yaipan, Uchkoprik districts and also Kokan city in the area from the west blowing of the winds power high account received without this in the regions the wind from generators used in case alternative energy sources to build high to efficiency has Such of systems organize in BSs accumulator battery

(AKB) system fast from work exit prevention takes Because todays in the day economy electricity in the network interruptions AKB system charging to the system negative effect shows. That is charging and procession processes normative state oh han without done increase of the system from work exit probability increases.



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