

# **INTEGRATION OF ALTERNATIVE SOURCES OF ENERGY IN THE RESIDENTIAL HOMES WHICH ARE LOCATED IN THE TEMPERATE CLIMATE**

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## **ABSTRACT**

In the paper utilization of wind, solar and thermal energy in frame of power supply of household is reviewed. Efficiency of solar collectors, solar panels, wind electro stations and thermal pumps was calculated.

Research results showed that using the combined energy supply (alternative energy sources plus traditional sources of energy) in houses significantly reduces costs.

In turn, the use of fully autonomous energy supply which is based on alternative sources of energy requires significant investment, and consequently, a longer payback period. However, taking into account that energy prices are constantly increasing, implementation of such projects has now become a profitable investment.

**Key words:** Alternative energy sources, household energy supply.