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40 Book of Abstracts

The Use Of Solar Energy In Public Lighting (Albanian Case)

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ABSTRACT
Albania has ratified the draft law on renewable energy, according to which most reducing of the greenhouse gases and imports of the fossil resources, as well as more economical use of natural resources. According to the duties imposed by international institutions, Albania should provide 38% of energy needs from renewable sources up to 2020. Photovoltaic panels are potentially installable anywhere in Albania and from any investor, unlike the use of wind turbines (which can be set only in rural areas), or by hydro-power plants (which can be built near rivers). The use of PV leads environment and economic benefits. One of the sectors, where it can be successfully used photovoltaic panels is power supply of the street lighting. The experiment started in the village Prush in August 2014 with the help of Development Fund (E.U.A.I. company). The installed system includes 40 lights in a road 2 km length. In the paper will show practical way of realizing street lighting with photovoltaic panels, the advantages and disadvantages of their use.

Keywords: photovoltaic panels, street lighting, battery, pillar, conductors, LEDSHEF light

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