

## **EFFECT OF AEROSOL TO EFFICASITY OF SOLAR RADIATION ON SOLAR PANELS**

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### **Abstract**

Requirements for exploitation of renewable energy have occupied a special place in the world of developed technology; they carry in themselves the hope of a viable advanced possibility towards sustainable development. Kosovo has a favorable geographical position and favorable climate conditions for utilization of solar energy. Solar energy is a promising energy source of the future and it's use represents potential, since it is an inexhaustible natural source of energy, is the largest natural reserves of energy that is distributed throughout the world in quantities greater than our energy needs; is clean and it's use requires no additional cost, as well as does not expose risk to environmental pollution. The main focus of the assignment is, the impact of polluted air on the surface of solar panels, efficient energy use of sun and geographical possibilities of installing solar power plants without other influences of CO<sub>2</sub> pollution and smog of aerosol, which can sensitively contribute to the security of electricity supply and thermal energy from the sun, in a power system for certain localities. Precisely, for this reason is increased the need for the use of renewable energy from solar energy and the elimination of all polluting barriers in special locations that are influenced by burst dust, or burning of thermal and industrial gases. The concerns of the modern world is to create a clean living environment, at the same time meeting ever greater demand for the use of energy, in general, by European directives in meeting the standard 20 + 20 + 20. All these concerns are summarized in this paper, in particular, is analyzed the possibility of using solar energy in the territory of the Republic of Kosovo and environmental impossibility related to any other location in Kosovo for use of solar energy due to the pollution.

**Keywords:** *Air polution, Climatic conditions, Effect of aerosol, Solar radiation, Sustainable energy system.*