



On the evaluation of natural potential of renewable resources in Albania

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The use of alternative energies is one of priorities of scientific research and technological development for a sustainable development in Albania.

The aim of the paper is the assessment of a current situation, regarding the possibility of using wind and solar energy. Taking into account the climatic characteristics of the country, studies on assessment of main peculiarities of solar radiation, wind, air temperature regimes are performed. Some meteorological indicators, which are used as input to calculate the thermal characteristics of solar panels and wind turbines, are presented as well.

There are considered long term series of all the meteorological stations within the territory, measuring sunshine duration and solar radiation, wind velocity and direction. It is taken a special care in the study of the sites, equipment and the data processing. As the meteorological stations are actually located in places representative from the climatological viewpoint and do not represent the high promising sites, WasP and PRESCOT codes are used for space extrapolation.