



REVIEW OF RENEWABLE ENERGY SOURCES USE IN LITHUANIA'S ENERGY SECTOR

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ABSTRACT

Nowadays the electricity requirements of the world including Lithuania are increasing. It is also now widely recognized that the fossil fuels (coal, petroleum and natural gas) and other conventional resources, presently being used for generation of electrical energy, may not be either sufficient or suitable to keep pace with increasing demand of the electrical energy of the Lithuania. As well generation of electrical power by most of fossil fuels causes pollution, which is likely to be more acute in future.

Lithuania has a good potential in biomass, hydro and wind power. Also there is possible and becoming popular solar, biofuel power to produce electrical power and keep pace of increasing energy demand. These renewable energy sources are Lithuania main goal to replace some fossil fuels (coal, petroleum and natural gas) in future and to increase the share of renewable energy in energy mix to 20% by 2020. Aim of this article is to present a review of the present renewable energy situation and assessed potential of renewable energy source in Lithuania, also balances and renewable share of all fuel types to the energy sectors. Also the problems related to the use of renewable energy sources in Lithuania.

Keywords: Renewable energy sources, hydro, wind, solar power, fossil fuel