World Academy of Science, Engineering and Technology
International Journal of Environmental and Ecological Engineering
Vol:8, No:11, 2014

The Environmental Impact of Geothermal Energy and Opportunities for Its Utilization in Hungary

Authors : András Medve, Katalin Szabad, István Patkó

Abstract : According to the International Energy Association the previous principles of the energy sector should be reassessed, in which renewable energy sources have a significant role. We might witness the exchange of roles of countries from importer to exporter, which look for the main resources of market needs. According to the World Energy Outlook 2013, the duration of high oil prices is exceptionally long in the history of the energy market. Forecasts also point at the expected great differences between the regional prices of gas and electric energy. The energy need of the world will grow by its third. two thirds of which will appear in China, India, and South-East Asia, while only 4 per cent of which will be related to OECD countries. Current trends also forecast the growth of the price of energy sources and the emission of glasshouse gases. As a reflection of these forecasts alternative energy sources will gain value, of which geothermic energy is one of the cheapest and most economical. Hungary possesses outstanding resources of geothermic energy. The aim of the study is to research the environmental effects of geothermic energy and the opportunities of its exploitation in Hungary, related to „Horizon 2020" project.

Keywords : sustainable energy, renewable energy, development of geothermic energy in Hungary
Conference Title : ICEBESE 2014 : International Conference on Environmental, Biological, Ecological Sciences and Engineering
Conference Location : Kyoto, Japan
Conference Dates : November 13-14, 2014