Abstract

Nowadays the global climate change is one of the most significant questions from environmental, social, political and economic point of views. Global warming caused by greenhouse gases emitted into the air is a result of the human activities (Energy Revolution, 2005-2007). The majority of the industrial processes has significant impact to human life and deteriorates the natural environment. In this paper different technologies (three industrial technologies) will be dealt with special focus on energy generation and reduction of CO\textsubscript{2} and NO/NO\textsubscript{x} emission levels. A case study to be described contributes to the increased energy security and the fulfillment of the electric energy production targets in Hungary provided on renewable basis. These plants are located in Transdanubia, Hungary.

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Key words: CO\textsubscript{2}, CH\textsubscript{4} and NO/NO\textsubscript{x} emission reduction