



Environmentally Friendly Materials

ENVIRONMENTALLY FRIENDLY INDUSTRIAL TECHNOLOGIES; CASE STUDIES

**Zsófia Kovács¹, Orsolya Kakucs¹, János Lakó¹, Ákos Rédey¹, Tamás Fülöp²,
Tatiana Yuzhakova^{1*}, Anett Utasi¹, Endre Domokos¹**

¹*University of Pannonia, 10 Egyetem Str., 8200, Veszprém, Hungary*

²*Nitrogen Works Share Co., 14 Hősök Sor, 8105, Pécsfűrődő, Hungary*

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 green house 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 CO₂ and NO/NO_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.

Key words: CO₂, CH₄ and NO/NO₂ emission reduction

* Author to whom all correspondence should be addressed: e-mail: yuzhakova@almos.uni-pannon.hu