

# ENERGY EFFICIENCY. TRENDS AND INFLUENCE FACTORS

*Authors\**

Gheorghe ZAMAN  
Zizi GOSCHIN

## **Abstract**

*Energy efficiency is correlated with many factors of influence: Gross National Income per capita, energy imports (% of energy use), renewable combustible and waste (% of total), energy use per capita, services as % of GDP and others. In this paper we are testing a model of piecewise linear regression with breakpoint in order to measure the influence of these factors on the variation of GDP per unit of energy use in Europe in the year 2003.*

**Key words:** energy efficiency, GNI per capita, energy imports.

**Jel Classification:** Q43.

---

\* Prof. Gheorghe ZAMAN, corresponding member of the Romanian Academy, Ph.D. in economics, Director of the Institute of National Economy, Bucharest, e-mail: [gheorghezaman@ien.ro](mailto:gheorghezaman@ien.ro); [zamangh\\_42@yahoo.com](mailto:zamangh_42@yahoo.com); Prof. Zizi GOSCHIN, Ph. D. in economics, Senior Researcher at Institute of National Economy, Professor at the Academy of Economic Studies, Bucharest, e-mail: [zizigoschin@yahoo.com](mailto:zizigoschin@yahoo.com).