

Variations in Energy Productivity in the Industrial Sector of Iran

Topic: Productivity and efficiency analysis 2

Author: Vahid Taghinezhad Omran

Co-Authors: Nooraddin Sharify

Because of limitations in resources, one of the ways to achieve high economic growth is increasing energy productivity. In addition, increase in the energy productivity is important for the sake of environment; since it leads to lower consumption of energy for given level of production. This research aims to calculate variations of energy productivity by use of Input- Output (IO) model. To this end, the IO tables of Iran for the years 1986 and 2001 are employed. Since part of variations energy productivity may originate from the nominal price of production of sectors, comparison of products in fixed prices will result in removing these kinds of variations. It is expected the results of this study to indicate whether total productivity of energy in the industrial sector of Iran in the studied periods will increase and whether energy productivity in the sub-sectors of industrial sector will have co-movements.

Keywords: Energy Productivity, Industrial Sector, Input- Output Analysis, and Iran.