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DETERMINANTS OF INTENSITY ENERGY ECONOMICS IN IRANIAN AGRICULTURAL SECTOR

Abstract:

This study aims at examining energy intensity determinants in agriculture sector. To get this aim data for 1974-2012 were applied. Factors affecting energy intensity in agriculture sector are per capita GDP, energy price, labor per capita capital and capital growth. Energy intensity also was decomposed into energy use efficiency index and structural change index. The results showed that energy efficiency index in agriculture is mostly affected by capital-labor ratio and energy real price but per capita GDP and capital growth failed to affect it significantly. While capital growth and per capita GDP showed a significant role in structural changes specification. In general, the results revealed that most of energy intensity changes in agriculture is realized via energy efficiency changes.

Keywords:

Energy intensity, Agricultural sector, Iran

JEL Classification: O13, Q48, Q49