

On measuring eco-efficiency in extended IO models: The case of intersectoral linkages in Polish economy in transition

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ABSTRACT

We propose a new approach to measuring eco-efficiency in extended input-output (eIO) models. The proposed approach may be used in both demand- and supply-oriented eIO models. We focus on the cases of non-normalized and normalized measures of interindustry linkages in eIO models and in each case we propose respective indices of eco-efficiency. In order to analyze the issues in question in a dynamic framework, the empirical analysis aimed at identifying eco-efficient sectors is based on the 1995 and 2009 national input-output tables and environmental accounts for Poland which are provided by WIOD database.

Keywords: eco-efficiency, CEE transition economies, key sector identification.