



17th International Input-Output Conference

TITLE: THE UTILIZATION OF A SUPPLY AND USE MODEL FOR PROSPECTING THE ELECTRICITY MARKET

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KEYWORDS: SUPPLY AND USE TABLES ELECTRICITY MARKET FORECASTING ENERGY PLANNING

PAPER CONFERENCE CODE: 85

FULL PAPER IN CD?: YES

ABSTRACT:

The paper to be presented further explores the basic characteristics of a Brazilian supply and use tables based model as presented at the XVI IIOA International Conference held in Istanbul ("A procedure for scenarizing by changing direct input coefficients observing a supply and use tables framework"). The first results of its application for prospecting electricity consumption trends in Brazil will be reported and discussed. By taking into full account changes in major macro-economic variables, and observing Leontief's hypothesis of stable intermediate input coefficients, the model addressed the issue of quantifying the influence of economy in the electricity market behavior, and so the need of identifying the impact of economic change in the markets to be attended by electric utilities. The results presented will be based on tests carried out in one of those utilities, Companhia Paulista de Força e Luz (CPFL), which supplies 234 municipalities in the interior of São Paulo. The model also provided means for assessing future trends of grid electricity substitution for self-generated power and for other fuels, as it will be shown. As a complement, an effort to provide an interface so as to ease the use of the model directly by decision makers will be also be approached.