

Building a 2005 hybrid Brazilian Input-Output database

Topic: Environmental Applications

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This study intends to present a methodology for augmenting the Brazilian Supply-Use Table (SUT) from 56 industries and 110 productsTM to 91 industries and 126 productsTM. The idea behind this disaggregation effort is to reach a more suitable table in terms of Green House Gases (GHG) emission to enable future climate change impact assessment. From this expanded SUT version we have estimated a couple of other Input-Output Tables (IOT). While the first one contains 91 industries, the second one is more compact, containing only 49, in which we have applied a hybridization process - computing not only the monetary units but also a set of goods and services flows in physical terms. The results show that our estimated database, when compared to the original data source, is consistent in terms of Gross Domestic Product (GDP), total output of industries in physical units and total labour force by industry. It demonstrates that this study can be a valuable guideline for other researchers who seek to build a similar database or even to replicate this methodology for another region and for other purpose beyond the climate change issue.