EXIOPOL - Development and illustrative analyses of a detailed global MR EE SUt/IOT

Abstract:
EXIOPOL (A New Environmental Accounting Framework Using Externality Data and Input–Output Tools for Policy Analysis) was a European Union (EU)-funded project creating a detailed, global, multiregional environmentally extended Supply and Use table (MR EE SUT) of 43 countries, 129 sectors, 80 resources, and 40 emissions. We sourced primary SUT and input-output tables from Eurostat and non-EU statistical offices. We harmonized and detailed them using auxiliary national accounts data and co-efficient matrices. Imports were allocated to countries of exports using United Nations Commodity Trade Statistics Database trade shares. Optimization procedures removed imbalances in these detailing and trade linking steps. Environmental extensions were added from various sources. We calculated the EU footprint of final consumption with resulting MR EE SUT. EU policies focus mainly on energy and carbon footprints. We show that the EU land, water, and material footprint abroad is much more relevant, and should be prioritized in the EU’s environmental product and trade policies.

URI:

Authors:
TUKKER Arnold
DE KONING Arjan
WOOD R.
HAWKINS Troy
LUTTER Stephan
ACOSTA Jose
RUEDA CANTUCHE Jose
BOUWMEESTER Maaike C.
OOSTERHAVEN Jan
DROSDOWSKI Thomas
KUENEN Jeroen

Publication Year:
2013

Type:
Articles in Journals

Science Areas: