

## Impact of Technical Barriers to Trade on Waste Imports

**Authors :** Chin-Ho Lin

**Abstract :** This study explores the impact of technical barriers to trade (TBT) on the import value and weight of 54 types of waste products between ASEAN+6 countries and 200 trading partners from 1999 to 2018. By using disaggregated detailed product data and the gravity model, we obtained results demonstrating that implementation of TBT by importing countries is likely to enhance waste trade. After controlling for three combinations of fixed effects, the results remain robust. We consider the quality of waste products by dividing waste products into recyclable and nonrecyclable materials, revealing that imported recyclable waste is more likely to be imported than nonrecyclable waste. When waste trade is regulated by importing countries through TBT implementation, the exporting countries may export relatively valuable waste products, and recyclable waste is of greater economic value because it can be used as an input in other production processes. Finally, developed countries are more likely than developing countries to export waste to the ASEAN+6 countries, a finding that supports the waste haven hypothesis.

**Keywords :** waste trade, ASEAN+6, technical barriers to trade, gravity model, waste haven hypothesis

**Conference Title :** ICEPED 2022 : International Conference on Environmental Pollution and Economic Development

**Conference Location :** Bangkok, Thailand

**Conference Dates :** August 16-17, 2022