

# The challenge of energy efficiency in Europe and the rebound effect's risk

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## Abstract

This paper explores how the European Union's -EU- Authorities face the risk of a rebound effect limiting the effectiveness of efforts made energy efficiency oriented. Choice of EU zone is due to her leadership in the international battle against global warming and climate change. Specific mention to Spain as one of its more concerned member states is made. To do that a systematic literature review was conducted following advanced techniques recommended by the state of art. After this, mayor findings of this paper conclude that 1) a broad academic consensus exist on the relevance of the rebound effect as a barrier in energy efficiency improvements, 2) a lack of consensus exists on its size, 3) legal documents focused on energy efficiency targets use to ignore rebound effect problem.

## Author keywords

Climate Change

Energy Efficiency

European Union

Global Warming

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Spain