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Title: Managing urbanization for low-carbon development in China

Abstract:

The proposed research focuses on the relationship between urbanization and carbon emissions. Previous studies have provided conflicting results, implying that the impact of urbanization on carbon emissions is a long and complex process. In most current literature, however, urbanization is simply defined as the proportion of urban population. Such a single indicator of urbanization can be questionable as urbanization is an integrated process characterized by many fundamental economic and social transformations. On top of this, we will broaden the research perspective and provide a comprehensive picture of urbanization impact on carbon emissions, by a) quantifying and comparing the impacts of income growth and income distributional change on carbon emissions; b) evaluating the ways that land-use change shapes carbon emissions and simulating how different modes of urbanization can provide potential for increasing carbon sink; and c) investigating the relationship between urbanization and emission inequality from the perspective of housing wealth inequality. The findings of this study are expected to provide a scientific basis for urban development strategies and lay the foundation for the development of low-carbon cities.

In chapter 1, a string of research questions and research aim are put forward, focusing on the. In chapter 2, current research on the questions in the first chapter is reviewed respectively. An introduction to the methodology of the study is summarized in Chapter 3, which provides the model design and specification. Worth mentioning is that samples of methods that have already been used in the preliminary stage of research are listed in this section. The last chapter is a succinct summary of the overall writing plan and research timeline of the proposed study.