

## **Study on Carbon Emissions of Residents in Protected Housing Settlements Based on Domestic Carbon Sources-Taking Caijia New Town in Chongqing as an Example**

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**Abstract :** As the basic spatial unit of the city, the greenhouse gas emissions of settlements bring great pressure on carbon emission reduction. Although the residents of protected housing settlements belong to the disadvantaged groups in the city, they are highly concentrated with a large number of people, and their carbon emission level is closely related to the carbon emission of the whole city. This study takes six typical sheltered housing settlements in Caijia New Town of Chongqing as examples to sort out the living carbon sources of the residents and proposes a carbon emission measurement model based on the daily life characteristics of the sheltered housing residents to further measure the carbon emissions of the residents and to assess their carbon emission levels. Accordingly, specific carbon reduction measures are proposed for Chongqing's protected housing neighbourhoods.

**Keywords :** safeguarded housing, resident carbon emissions, carbon emission characteristics, low carbon settlements, Chongqing municipality

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