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學術論文

題目：The impact of the delayed retirement policy on the indirect energy consumption of Chinese residents

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論文摘要：
China has implemented a delayed retirement policy to address its aging population. However, the potential impacts on energy consumption remain unclear. This study develops a dynamic weighted hypothesis augment method to assess the changes in residents' indirect energy consumption under the delayed retirement scenario from 2025 to 2050. Results show that while agricultural expenditure experiences initially high forward indirect energy consumption (FIEC), it stabilizes over time. In contrast, sectors like metals, chemicals, and certain services maintain consistently high FIEC due to product characteristics and labor supply. Regarding backward indirect energy consumption (BIEC), the BIEC of other service rises substantially, reaching 182.71 Mtce by 2050, accounting for 21.23% of urban residents' indirect energy consumption. Promoting the green transition of the service sector will help reduce energy consumption pressure on upstream industries, and the energy-saving effect increases over time. This research helps mitigate the negative environmental impacts of the delayed retirement policy.

連結：https://doi.org/10.1016/j.iref.2026.106074

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