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## Decoupling Evaluation of Resource Consumption and Economic Development of Urban Industries Under the View of Sustainable Development: The Case of Secondary and Tertiary Industries in Jiangsu Province, China

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Abstract: Sustainable urban development requires the coordination of economic growth and resource environment, and industrial transformation and upgrading is the key link. Based on the decoupling theory and the improved decoupling decomposition model, the quantitative evaluation and comprehensive analysis of the degree of decoupling between resource consumption and economic development in Jiangsu Province are carried out by utilizing the data related to resource consumption and economic growth of the secondary and tertiary industries in Jiangsu Province from 2013 to 2018, so as to explore the sustainable development path of industrial transformation in Jiangsu Province. The results show that from the decoupling status, the degree of decoupling of economic development of the secondary industry to the required coke resources, water resources and human resources is gradually deepening, and the decoupling index of economic development of the tertiary industry to the required water resources is fluctuating; from the perspective of the driving factors, the technological effect is the main driving factor for decoupling the economic growth of Jiangsu Province to the resources, and the structural effect has a significant impact on the driving index of the decoupling of economic growth of the secondary and tertiary industries to the consumption of resources in Jiangsu Province. In terms of driving factors, the technology effect is the main driving factor for economic growth in Jiangsu Province to realize decoupling of resources, while the structural effect is the main driving factor for economic growth in Jiangsu Province's second and third industries to realize decoupling of resources. Finally, we discuss the difficulties of industrial transformation and layout faced by Jiangsu Province at present.

**Keywords:** resource consumption, economic growth, industrial transformation, decoupling theory **Conference Title:** ICUSS 2024: International Conference on Urban Sustainability and Strategies

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