



Analysis of Water Resource Utilization Potential for Jiangsu Coastal Area — in Nantong City

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Along with the advance of the growth of population and social economy, requirements for water quality and quantity in coastal areas is getting higher and higher, but due to the uneven distribution of rainfall years and water exploitation, use and management level, the influence of the shortage of water resources is increasingly prominent, seriously restricting the social and economic sustainable development in this region. Accordingly, water resource utilization potential in Jiangsu coastal region is vital for water security in the region.

Taking Nantong City as the study area, the regional water resources development and utilization status were evaluated. In this paper, the meaning of water resources, water resources development and utilization, and water resources development and utilization of the three stages of concepts such as system were discussed. Then the development and utilization of regional water resource evaluation were carried out, and the significance of regional society, economy, resources and environment and its development status quo of water resources were exploited. According to conditions and area source, an evaluation index system for development and utilization of water resources of Nantong was built up. The index layer was composed of 16 indicators. In this study, analytic hierarchy process (AHP) was used to determine of weights of indicators at all levels in the index system. Multistage fuzzy comprehensive evaluation model was selected to evaluate the water resources development and utilization status of Nantong, and then water resource utilization potential of Nantong was analyzed.