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Research on Assessment Index system for Sustainable Utilization of Urban Water Resources

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Abstract. Evaluation of regional water resources sustainable utilization provides a scientific basis for further water resources utilization and social economic sustainable development. How to use a scientific and rational assessment index system to analyze the sustainable utilization of water resources becomes more important. This paper mainly studied on the assessment index system construction for sustainable utilization of urban water resources. A total of 30 indicators were selected to establish for urban water resources sustainable use of the evaluation system.

Introduction

The development of urbanization is an important aspect of the regional socio-economic development; it is also one of the main reasons that cause the changes of relationship between regional water supply and demand. The development of the regional urban system and the spatial distribution characteristics is closely related to reasonable water use. The characteristics of the high degree of concentration and continuity of urban water demand in space has an important effect on the utilization of regional water resources and construction of water conservancy facilities. In this paper, based on analyzing the characteristics of urban water resources, a research of assessment index system construction for sustainable utilization of urban water resources was carried out.

Characteristics of Urban Water Resources

The urban water system is a synthetical function of water conditions, capacity of water supply, city character, the population size, living standards, the level of technology, urban economic strength and social development level. With the continuous development of urbanization, population and industries in space continue to gather to the urbanized area, which will inevitably lead to increasing demand for water resources; when local water resources can not meet this demand, on the one hand, it would be bound to the endowed areas outside the city for water supply, on the other hand, the city should improve the capacity of water resources sustainable utilization through optimizing and concentrating on water utilization to support economic and social development. As an administrative region, the city is an multi-level complex, including economic, social and ecological environment. At the same time, because of the population water utilization and the volume of sewage is concentrated in city, and the higher degree of economic and social development, there are higher requirements on the use of water resources.

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