

Study on Ecological Water Demand Evaluation of Typical Mountainous Rivers in Zhejiang Province: Taking Kaihua River as an Example

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Abstract : In view of the ecological environmental problems and protection needs of mountainous rivers in Zhejiang province, a suitable ecological water demand evaluation system was established based on investigation and monitoring. Taking the Kaihua river as an example, the research on ecological water demand and the current situation evaluation were carried out. The main types of ecological water demand in Majin River are basic ecological flow and lake wetland outside the river, and instream flow and water demands for water quality in Zhongcun river. In the wet season, each ecological water demand is 18.05m³/s and 2.56m³ / s, and in the dry season is 3.00m³/s and 0.61m³/s. Three indexes of flow, duration and occurrence time are used to evaluate the ecological water demand. The degree of ecological water demand in the past three years is low level of satisfaction. Meanwhile, the existing problems are analyzed, and put forward reasonable and operable safeguards and suggestions.

Keywords : Zhejiang province, mountainous river, ecological water demand, Kaihua river, evaluation

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