

## **Utilization of unconventional water resources in Guangdong province: problems and prospects**

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**Abstract** Based on an analysis of the characteristics of conventional and unconventional water resources in Guangdong province, the technologies and measures for utilizing unconventional water resources are discussed. It is proposed that the unconventional water can be utilized by means of scientific and effective regulation and management of the existing reservoirs, construction of rainwater collection projects and a multi-channelled investment system for exploiting unconventional water resources. Utilization of unconventional water resources depends not only on the availability of applicable technologies and sufficient funds, but also on the integrated management of water resources. This study has significant implications for alleviating water shortage problems in Guangdong province.

**Key words** unconventional water resources; water shortage; Guangdong province; rainwater collection projects; regulation of reservoirs; integrated management

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