

<<中国流域综合管理现状与战略研究>>

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前言

Implementing integrated river basin management (IRBM) requires complex and system-atic efforts over long term. Although experts , scientists and officials , with backgrounds in different disciplines and working at various national or local levels are in broad agreement concerning IRBM , many constraints on its implementation remain , particularly in China-a country with thousands of years of water management history. Now developing at great pace and faced with a severe water crisis. Successful IRBM implementation demands good coordination among various stakeholders and their active and innovative participation. The problems confronted in the general advance of IRBM also pose great challenges to this particular project. Certainly , the successes during implementation of the project subsequent to its launch on 11 April 2007 , and the finalization of a series of research reports on Taking Stock of Integrated River Basin Management in China would not have been possible without the combined efforts and fruitful collaboration of all involved. We wish to express our heartfelt gratitude to each and every one of them. We should first thank Professor and President Chen Yiyu of the National Natural Science Foundation of China , who gave his valuable time and shared valuable knowledge when chairing the work meeting that set out guidelines for research objectives , and also during discussions of the main conclusions of the report. It is with his leadership and kind support that this project came to a successful conclusion. We are grateful to Prof. Fu Bojie , Dr. Feng Renguo , and Dr. Huang Tieqing of Bureau of Science and Technology for Resources and Environment , Chinese Academy of Sciences (CAS) , whose strong support for the project aided its implementation and contributed to the success of the High-level Roundtable on IRBM in China organized in June 2007 in Beijing. We particularly wish to thank Prof. Sun Honglie from CAS , Professor Wang Haof Chinese Academy of Engineering , Dr. Edwin D. Ongley and Mr. Murray Chapman for their detailed comments and constructive suggestions concerning revisions to the Synthesis Report. We benefited greatly from their new perspectives and illuminating insights. Our sincere thanks also go to the peer reviewers from various governmental departments , universities , research institutes , and NGOs : Bao Daming , He Xiwu , LU Xian-guo , Ni Jinren , Shen Dajun , Shi Qiuchi , Song Guojun , Wang Shuyi , Wang Zhansheng , Wei Qiwei , Xia Qing , Xu Zikai and Yang Guowei , for their significant contributions when reviewing the thematic reports. They corrected errors in and improved the structure , content and wording of the reports.

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内容概要

《中国流域综合管理现状与战略研究(英文版)》主要包括：Current Status of River Basin Management in China；Overview of Water-related Problems in China；Current Status of River Basin Management in China；Issues and Causal Analysis of Current Basin-wide Problems in China等。

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章节摘录

Water as the source of life, is essential to the socio-economic development of humankind. In common with much of the rest of the world, China is suffering from an increasingly severe water crisis, some of its worst manifestations being water scarcity, water pollution, ecological degradation of water and increasing frequency of water-related hazards. China's vast national territory spans a variety of climatic zones from north to south each with different moisture features, and includes diverse topography from mountains, grasslands, and deserts to river basins and flood plains. With different combinations of climatic types including monsoon temperate, continental and maritime climates, rainfall varies greatly over time and across regions, while water and soil are disproportionately distributed. These natural factors play a part in many of the country's water problem. People have been managing and developing water resources for millennia across what is today China. The country currently uses a sectoral water management model. This lacks coordination between the various sectors at national level responsible to water!

Water-related management, such as water quality, water quantity, aquatic biological resources, water transportation, hydro-power and irrigation. This has been the case for more than five decades. Despite rapid economic development, poor public awareness about resources and environmental protection; and enormous population pressure combined with weakness in legislation, policy and governance have resulted in unsustainable development of water resources and deterioration in the aquatic environment. These are the major human factors behind the present water crisis in China. As industrialization and urbanization continue apace, the Chinese economy will continue to grow rapidly and general living standards will rise. This will increase demand for water resources and place greater pressure on them, the water environment and aquatic ecosystems. It also brings a number of new water problems, especially mixed water pollution and basin-wide water resource and hydropower exploitation. In addition, in the context of global climate change, a significant change is projected in the pattern of water resources and water-related hazards in China, not only changes in frequency and intensity, but also increased uncertainty and risk. Overall, the water crisis is intensifying and has become more complex, being now apparent at the river-basin scale and over the long-term. We also see the frequent occurrence of emergent events.

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