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Recovering river landscape

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ECOLOGICAL RENOVATION AND LANDSCAPES RECOVERY OF FUTIAN RIVER IN SHENZHEN CHINA

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Abstract

River pollution in urban areas has attracted more and more attention, river is no longer identified as drainage and sewage line, how to recover ecological environment and landscapes of river to provide the natural space for people has become an important subject. This paper introduces the ecological renovation and landscapes recovery of Futian River in Shenzhen China, to summarize successful actions of water environment improvement and river landscapes reconstruction, this project provides an example for recovery river landscapes in Campania Italy. The Futian River is flowing through downtown in Shenzhen China, the second-longest in Futian district at the estimated length of 6.8 km. Originating in the Meilin Ao, contacts Bijia Hill Park and Shenzhen Central Park two municipal parks together, and it empties into the Shenzhen River. Its total basin area is about 15.9square kilometers. The Futian River has experience of the transformation process clear -polluted - clear, due to the fast development of city construction. At the early age of city's development, Futian River was considered as sewage line, the design of hard embankment not only ignored soil and water conservation, but also separated the human and river. Meanwhile the river was seriously polluted by sewage, became muddy and smelly. Shenzhen government launched a comprehensive project of Futian River renovation as an important livelihood project in 2009. The project includes to confirm the ecological value of river in urban planning firstly. Second, to improve the quality of water by laying pollution interception pipelines, using intermediate water and wetland purification. Third, to improve the capacity of flood control by setting detention basin and ecological revetment. Forth, to build abundant river landscapes by humanization design. The quality of water, disaster mitigation ability, river landscapes were greatly improved after the whole project completed in 2012. The more important of the project is to promote the integration between people and river, city and nature, the river zone becomes citizens' favourite hydrophilic space. This project also won the annual 2011-2012 China water conservancy project award (Da Yu Award).

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