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International source book on environmentally sound technologies for wastewater and stormwater management

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Ho, G. (ed)  (2000) *International source book on environmentally sound technologies for wastewater and stormwater management*. UNEP Division of Technology, Industry and Economics International Environmental Technology Centre.



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Abstract

The deterioration of water quality and the consequence public health problems facing many communities worldwide have been recognised for sometime. The United Nations Water Decade (1981-1990) was a major initiative to address the need to provide safe drinking water and sanitation to the two-thirds world without access to these. These problems still exist due to the increasing world population, and the proportion of communities without adequate sanitation has remained at approximately two thirds. These problems are compounded by the rapid migration of rural population to the fringes of cities. This trend of urbanisation has been forecast to continue for sometime into the future. Communities growing rapidly around urban areas are also those with little resources and with low incomes.

Urban managers are faced with the problem of how to provide adequate wastewater and stormwater services, and how to allocate priorities with competing demands for other urban infrastructure such as roads, hospitals and schools. Communities themselves are aware on a daily basis of the lack of services and are similarly confronted by the problem of how to overcome them with very limited available resources within the community. Although these problems are severe in urban areas, many rural communities are also faced with poor or deteriorating sanitation facilities.

Developing countries experience the largest share of the problems described above. Countries in economic-transition also suffer from inadequate or deteriorating infrastructure needing restoration. Even in the developed countries questions have been asked as to whether the current way of providing wastewater and stormwater infrastructure is environmentally sustainable in the longer term.

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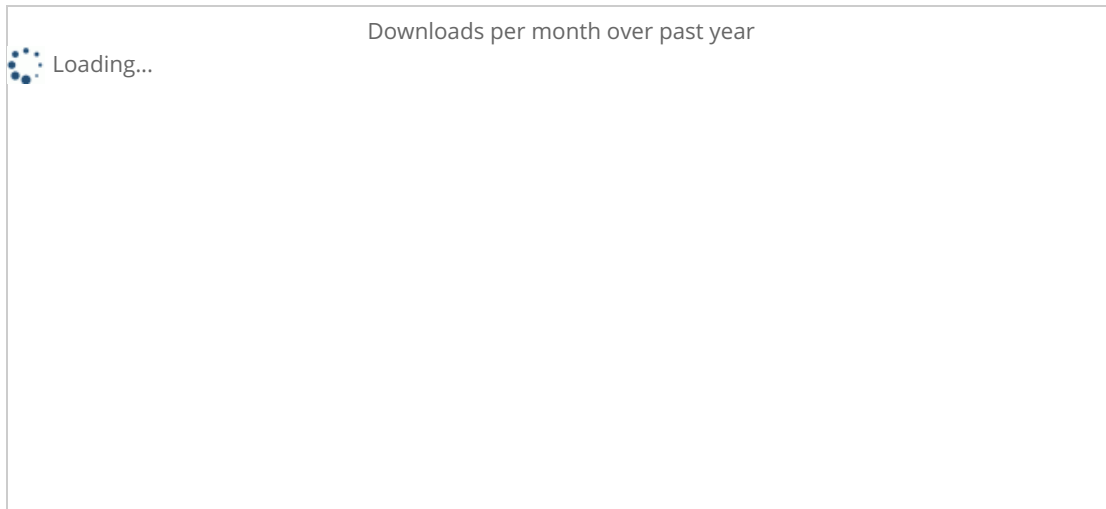
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Wastewater Management in Developing Countries. Dr. Mushtaq Ahmed Memon (mushtaq.memon@unep.or.jp) Programme Officer , UNEP IETC. Overview. • Paradigm shift and technology needs • Assessment of demand • Challenges and opportunities • UNEP IETC work. Paradigm Shift and Technology Needs. • The International Environmental Technology Centre (IETC) is a branch of the Division of Technology, Industry, and Economics (DTIE) and is leading the waste management portfolio within UNEP. • UNEP IETC focuses on identifying and showcasing environmentally sound technologies (ESTs) and management practices, primarily in relation to waste. UNEP IETC is located in Osaka, Japan. Wastewater Reuse. Wastewater Reuse Publication. 6 Part two: Stormwater management outside of dense urban environments. A | Detecting and forecasting storms with the latest technology. 1. Monitoring and early warning. SECAD is Xylem's engineering software for designing wet wells or pump sumps for wastewater and stormwater pump stations using both centrifugal and propeller pumps. Typical flows range from 10 liters/second, (158 US gallons per minute) to 10,000 l/s (158,500 gpm). In a well-designed wet well or pump sump, the pumps will This book scrutinizes existing international, European and Brazilian regulation on waste to highlight the complexity of the subject and the weaknesses of the law. Using a critical and socio-ecological approach, the book proposes an original model of governance to support a new system of global waste management that takes into account ecological sustainability and social justice to overcome the waste crisis. Water and waste management covers the design, building and operation of plants for water treatment and supply, sewerage, wastewater treatment and disposal, and solid waste treatment and disposal. Since the last edition in 2002 there has been an increasing importance on the issues reflecting climate change.