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# Waste Recycling and Reuse

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## Recycling and reuse of wastewater: A landscape approach for conservation of water as a natural resource

**Sheejan Thomas**

Chavara Jr College, India

With ever growing population and rise in living standards, urbanization and industrialization, the demand of water has increased rapidly. In addition, pollution caused by discharge of growing volumes of wastewater into the receiving waters has further reduced the availability of freshwater resources. To cope up with the increasing demand of water in urban areas and to overcome the consequences of water scarcity, the concept of wastewater reuse might be thought of a solution besides rainwater harvesting and other conservation methods. Reuse of wastewater through treatment yields major results economically and in small time frame

Hence, treatment of wastewater should be given priority by increasing the capacity of the existing treatment plants and to find out innovative and cost effective measures for wastewater treatment. Against this background this study adopts a case study approach and illustrates how reuse of treated wastewater can contribute to sustainable development of a region. It looks into the environmental benefits generated through use of eco-friendly, cost effective and efficient treatment method and reuse of the treated water for various purposes especially agriculture in turn conserving the natural resource of water through a landscape approach.

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