Circular Economy Pathways for Municipal Wastewater Management in India

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Why did we conduct this research?

With rising spatial and temporal scarcity of water, municipalities are confronted with the challenge of identifying innovative yet cost-effective solutions to meet rising demands of urban, industrial, and agricultural communities.

Key findings:

- Direct benefits through recovered resources from wastewater could make an economically attractive case for practitioners to adopt circular economy pathways to manage wastewater.
- Beyond economics, wastewater management should be looked at from a sustainability viewpoint, as it has multi-dimensional benefits.
- Providing financial and land resources and creating an enabling environment would be the major roles for the government.
- NGOs can positively influence public at large through awareness-building initiatives; government can help in designing socially acceptable solutions, certification, and authorization; entrepreneurs can help in designing technological interventions according to the needs; and financial institutions can support the initiatives through long-term patient capital.
- Regarding successful institutional frameworks, viability gap funding or blended finance model could boost public-private partnerships, where the private sector could work under BOOT mode, sharing equal risks

Reference:

Asolekar, S., Biniwale, R. B., Chandran, K., Chaudhuri, R. R., Heemskerk, F., Jain, A. K., ... & Lakshmi, K. V. (2016). Circular Economy Pathways for Municipal Wastewater Management in India: A Practitioner's Guide. *Circular Economy Pathways for Municipal Wastewater Management in India: A Practitioner's Guide*.

Link:

https://www.2030wrg.org/circular-economy-pathways-for-municipal-wastewater-management-in-india-a-practitioners-guide/