

Decentralized Wastewater Collection and Treatment Appropriate for Small, Remote, or Distributed Communities

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Abstract

Island communities face unique operational and affordability challenges to achieve high performance of wastewater treatment. Rather than scaling-down versions of treatment technologies better intended for urban environments, engineers and planners can benefit from special attention to decentralized design and best practices. Through review of two case studies, this presentation introduces liquid-only sewer and packed-bed textile treatment and *highlights design considerations* of spatially-distributed populations, O&M frequency, energy consumption, treatment process complexity, maintenance personnel availability, local reuse needs, and sludge disposal.

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