The Empower Sanitation Platform

The Empower Sanitation Platform is modular and scalable for on-site waste treatment options ranging from large households to communities.

Electrochemical disinfection and active filtration convert liquids to disinfected, non-potable water that can be reused for flushing, washing or irrigation. Solids are processed separately. The platform does not require piped-in water or a sewer connection and uses minimal electricity.

The platform is compatible with pedestal and squat plate styles. User amenities may include body wash and hand wash stations, and a menstrual pad dispenser with disposal options.

KEY FEATURES

- User options developed through four year in-field household and community design studies.

- Liquid processed via active filtration and electrochemical disinfection, meeting ISO 30500 discharge standards.*

- Independent solid and liquid processing modules can be paired with other technologies to create a suite of sanitation products.

- Examples of new products include the Reclaimer, a liquid recycling unit, and S.H.E., a stand-alone menstrual waste management unit.

*Phosphorous <20 ppm in both influent and effluent

STATUS OF DEVELOPMENT

- Third generation prototype in active testing in Coimbatore, India, and Durban, South Africa.

- Scalable capacity up to 600 users/day.

DEVELOPED IN PARTNERSHIP WITH

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