

WHO IS BIOPOWER?

BioPower Corporation specialises in Wastewater Treatment products, Technology, and Renewable Energy. This includes:

- ❑ VIP- & Traditional Pit Latrines Toilets.
- ❑ Urine Diversion Toilet maintenance.
- ❑ Septic- & Conservancy Tank maintenance and bioremediation.
- ❑ Bioremediation and maintenance of Wastewater Treatment Works.
- ❑ Installation of Package Plants (FTS).
- ❑ BioScrub-UVGI Germicidal units.
- ❑ BioCore SL10 Jet Mixer and more.

All BioPower products are non-toxic, E. coli free and safe to use around people, pets, and wildlife while it continually works to improve and protects the environment.

The products are 100% natural, and because of the minimal processing also has the lowest hydrocarbon footprint on the market, making it a **Naturally Green** product.



BIOPOWER CORPORATION:

“KEEPING THE WORLD
ALIVE”

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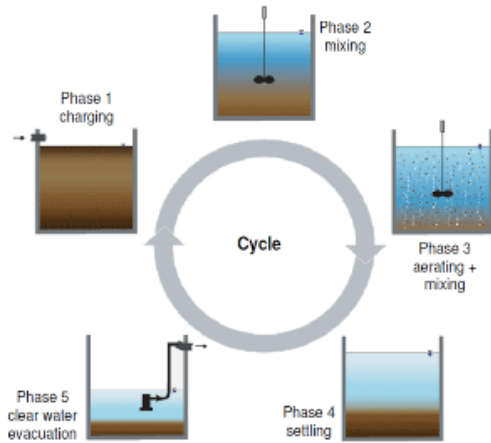
FLUSH-TECH SANITATION SYSTEM (FTS SYSTEM)

Sewage Treatment Package Plant



FTS package plants have the unique ability to treat domestic black- and grey water for re-use, in schools, residential developments, leisure, commercial and retail developments as well as hospitals/clinics and other sectors.

THE PROCESS



Phase 1: Charging

Water is collected & primary settlement occurs in first tank

Phase 2+3: Treatment

Water is aerated & stirred over 6 hours, where nitrogen break down occurs under oxygen deficient conditions

Phase 4: Settling

Activated sludge settles at the bottom of the tank

Phase 5: Removal

The clarified water is pumped through the UV-Sterilizer and can be re-used

WHAT IS THE FLUSH-TECH SANITATION SYSTEM?

The **FTS** is an innovative and sustainable wastewater treatment solution focusing on the recycling and re-use of wastewater, providing expert modular on-site solutions.

The **FTS** comes with certified service, installation and maintenance provisions, and unique offsite web-based operation and fault-reporting.

The **FTS** module system is manufactured and built in SA, and easy to maintain and operate. The system is fully biological, with effluent ideal for re-use in toilet sanitation, crop irrigation and gardening applications.

The system is designed for rural-, urban- and peri-urban applications where there is either no access to sewage treatment, or the facility needs water recycling.



FTS BENEFITS

- Saves up to 60% of freshwater resources by re-using all treated wastewater for flushing toilets, irrigation etc.
- No sewage connection or expensive municipal wastewater infrastructure required.
- Provides full environmental integrity by preventing groundwater pollution and health risks while emitting no malodours.
- Is a decentralised system (DEWATS) which can handle single households up to entire communities of over 2,000 people.
- Fresh water saving for a community where a 2,000-people **FTS** package plant system is installed will be up to 43,800m³ per year by recycling wastewater for irrigation and toilets.
- Exceeds the Green Building Council of South Africa's (GBCSA) Water Saving Requirements.

