

“Enlightening Solutions”, LLC.



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Zero Organic Waste & Recycle Solar based
Alternate Integral Technology System Solution.

Featuring All Equipment & Facilities:



BIOLOGICAL BASKETS (BB)

Recycle and transforms Solid Organic Waste (SOW) from gardens, kitchens and pets into high impact-quality BioFertilizer, odors and pathogen free, without leachate and going into rot.



Biological Baskets

are all made of recycled plastics

Biological Baskets

Use contributes to:

- 1.Reduce/Stop waste to landfills and all their adverse effects to the environment, like:
 - a) Infectious spots;
 - b) Leachate/odors;
 - c) Rot/harmful fauna;
- 2.Reduce Greenhouse Gases emissions;
3. Carbon retention;
4. Reduce carbon foot print by stop handling issue conventionally.



BIOLOGICAL CHAMBER (BC)

Recycle and transforms Solid Organic Waste (SOW) from gardens, kitchens pets/livestock into high impact-quality BioFertilizer, odors and pathogen free, without leachate and going into rot.



Biological Chamber

Modular Prefabricated made of fiberglass reinforced polyester resin with gelcoat and polyurethane coating inside, polycarbonate solar collector

Biological Chambers

Use contributes to accomplish the 4 same benefits listed for the Biological Baskets,

processing and receiving 1/4 of cubic meter per day

Modular scalation up to 4 BCs allows to process 1 cubic meter per day.



DRY SANITARY TOILETTE (DST)

Recycle and transforms Human Excrement (Solid Organic Waste) into high impact-quality BioFertilizer, odors and pathogen free, saving a lot of clean and potable water, without the need/use of drainage, latrines, septic tanks or sewer system



Dry Sanitary Toilet (DST)

Made of rotomolded polyethylene Gelcoat coated hut

Use contributes to:

1. Reduce/Stop wasting clean potable water to create "residual waters" with all their adverse effects for environment:

a) Polluting acquifers & many water bodies;

b) Infectious spots;

2. Reduce/Stop buiding expensive drainages & sewer systems;

3. Carbon retention and reduce GHG emissions;

4. Reduce carbon foot print by stop handling this issue conventionally.



WET SANITARY BIODIGESTOR (WSB)

Recycles “residual waters” from business or living places, recovering up to 70% to reuse for ornamental plants irrigation, with Zero Discharges and without need/use of drainage, latrines, septic tanks or sewer system, saving their expensive costs and its maintenance.



Wet Sanitary BioDigester

Made of fiberglass reinforced polyester resin and gelcoat coating.

Use contributes to:

1.Reduce/Stop wasting "residual waters" adverse effects for environment:

a) Polluting aquifers & many water bodies;

b) Infectious spots;

2. Reduce/Stop building expensive drainages & sewer systems;

3. Carbon retention and reduce GHG emissions;

4. Reduce carbon foot print by stop handling this issue conventionally.



BIODIGESTOR 3 COMPARTMENT

Recycles “residual waters” from 1-2 persons, by creating a habitat for bacteria to digest sludge, recovering up to 70% for reuse in ornamental plants irrigation thru evapotranspiration underground beds, with Zero Discharges and without need/use of drainage, latrines, septic tanks or sewer system, saving their expensive costs and its maintenance.



BioDigester 3 Compartment

Made of fiberglass reinforced polyester resin and gelcoat coating.

BioDigester Triple Compartment

CREATES a "habitat" for bacteria that digest sanitary sludge.

ZERO downloads to the environment.

Use contributes to accomplish the 4 same benefits listed for the Wet Sanitary Toilet (WST).



FAT DIGESTOR (FD)

TO DIGGE the effluent grease such as the kitchen sink, clothes washer and others, allowing to recycle said effluent for irrigation of ornamental plants. It is NOT a fat trap, or to decrease the size of fat molecules (sulfactants).



Fat Digestor

Made of fiberglass reinforced polyester resin and green gelcoat coating

CREATES a "habitat" (of tezontle and anthrasite) where the bacteria proliferate.

ZERO downloads to the environment.

RECEIVES the effluent from the kitchen sink and laundry, retains solids and lint, which then pass through the "habitat" and the effluent comes out clarified, suitable for irrigation of ornamental plants.



BIOLOGICAL FILTER (BF)

Recycles gray and soapy waters (sinks, showers and tubs) for its reuse on garden and edible plants, for washing floors and even to operate WCs instead of using drinking water, if the building design makes it feasible or redesigns makes it possible.



Biological Filter

Manufacture "in situ" of masonry. Fiberglass reinforced polyester resin inner cone.

SIZES are calculated according to the amount of gray water to be recycled.

ZERO downloads to the environment.

Possible to combine rainwater with the gray water.



RECYCLE FACILITY RESIDUAL WATERS

TO recycle mixed sewage and gray water network from its origin.
AVOID contamination of soil and sources of drinking water supply.



Recycle Facility

Manufacture "in situ" of masonry. Assembly accessories & parts.

SERVES for settlements already built with a single collecting network, up to 1000 frequent inhabitants per section/segment each.

CREATES a "habitat" for bacteria that digest sanitary sludge.

ZERO downloads to the environment. Use contributes to accomplish the 4 same benefits listed for the Wet Sanitary Toilet (WST).



BIOLOGICAL CHAMBER (BC)

TO recycle community, city/county solid organic waste, agricultural/trail waste. PROCESS up to 6M3/day and is good complement for a Recycle Facility. It operates by adding bacteria and polyazyme nutrient and transforms waste into high-impact and quality pathogen-free BioFertilizer.



Biological Chamber

Manufacture "in situ" of masonry. Assembly accessories & parts.

UNITS are built on-site with materials to retain heat to avoid maximum night cooling.

SIZES to receive 2m³, 4m³ and up to 6m³ of organic matter per day, to **PROCESS** them aerobically and transforming into BioFertilizer. Does not emit bad odors.



RECYCLE FACILITY COMPLETE (RFC)

TO recycle all liquid and solid waste, using the sanitary sludge from the sewage tank as an inoculum, to transform solid organic waste into biofertilizer, very rich in organic carbon and macro-nutrients.



Recycle Facility (Complete)

Manufacture "in situ" of masonry. Assembly accessories & parts to be shipped from Factory.

GIVES all same benefits than Recycle Facility for Mixed Residual Waters previously listed.

For 2 different and separated collector networks: Sewage and gray water.

The effluents generates water for irrigation thru evapotranspiration beds (sewage), i.e. underground irrigation, Recovering 70% from gray waters for its reuse



DIGESTOR, BIOLOGICAL FILTER & CHAMBER

FAT DIGESTOR (FD) serves to transform fat molecules into CO₂ and dissolved oxygen. Biological Filter (BF) serves to recover 70% of the gray sewage of the house. Biological Chamber serves to eliminate the pathogens contained in the sanitary sludge, since temperatures rise to more than 50 degrees, generating a pathogen-free BioFertilizer and a high agricultural impact.



Digester, Biological Filter & Chamber

Manufacture "in situ" of masonry. Assembly accessories & parts to be shipped from Factory.

FAT DIGESTOR, BIOLOGICAL FILTER and BIOLOGICAL CHAMBERS are all complements of **RECYCLE FACILITIES**, but they also can be installed and operated separately.

All them CREATES an specific special "habitat" for bacteria that are ZERO downloads to the environment.



FILTERED WATER OXIGENATION POND

Improves the quality of the Biological Filter effluent to be used for free irrigation; in such a way that each house/unit has 2 water entrances, community/municipal drinking water and water for irrigation and washing floors.



Filtered Water Oxygenation Pond

Manufacture "in
situ" of masonry.

It is the Fourth perfect
complement for the
**COMPLETE RECYCLE
FACILITY** for Non-Mixed
Residual Waters.

The effluent of the
BIOLOGICAL FILTER is
oxygenated in a Pond
and through a
hydropneumatic,
returns to each home
or unit for irrigation of
all green areas and/or
other allowed
purposes.

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