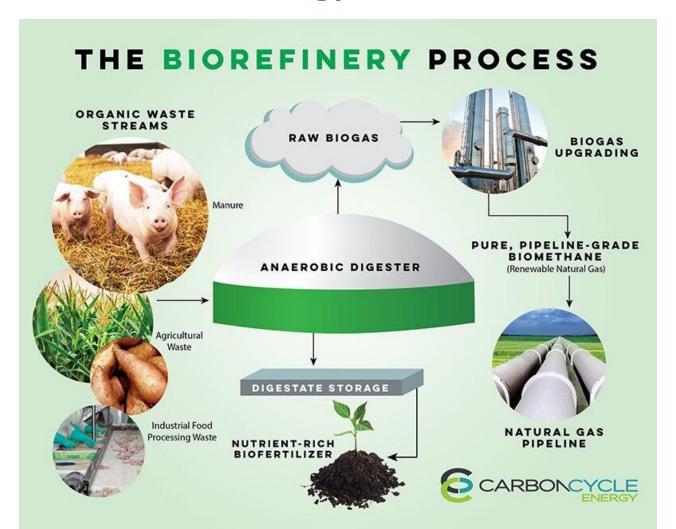
Eliminating the Concept of Waste:

A New Paradigm in Wastewater Management



ARRA Comprehensive Municipal Waste Resource Recovery & Energy Generation Pilot Demonstration Projects

Enhanced Bio-Energy Production



Pyrolysis & the Production of Biochar

Wakefield Biochar

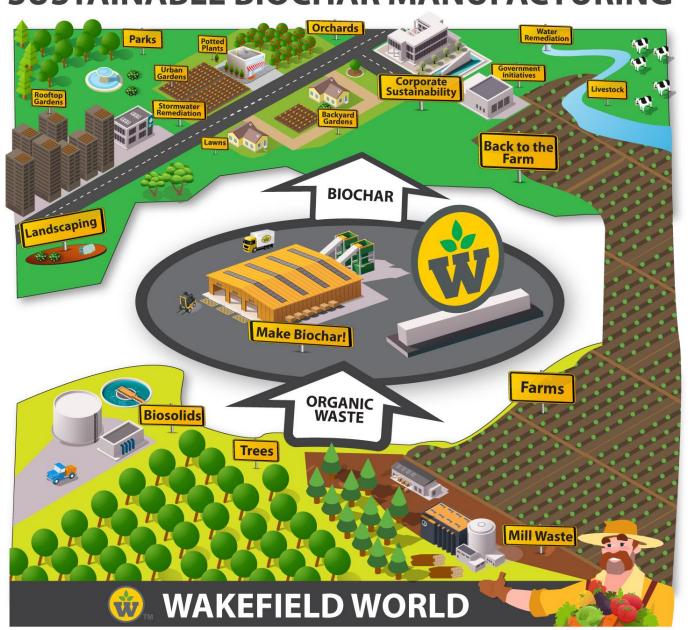




Pyrolysis & Biochar Production Facility at Municipal Wastewater Plant, California, Powered by BFT Technology



SUSTAINABLE BIOCHAR MANUFACTURING



Applied Ecologies for On-Site Wastewater Treatment



ONSITE WASTEWATER TREATMENT













APPLIED ECOLOGIES

primary treatment (interceptor tank)

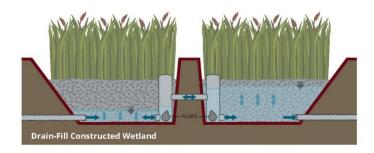
constructed wetlands

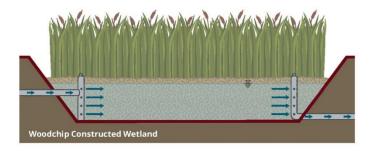
recirculating sand filter

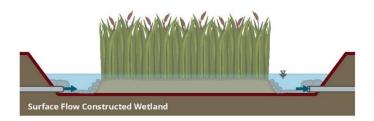
land appliction / irrigation

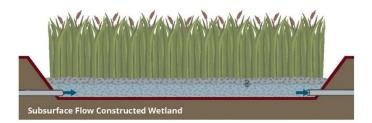
CONSTRUCTED WETLAND TYPES

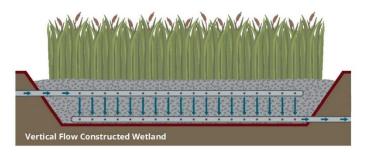
Constructed wetlands for wastewater treatment can be configured to meet a variety of water quality, footprint, habitat, and aesthetic goals. They range from primarily passive operation to active operation with treatment dosing or cycling Additionally, treatment media options include gravel, saturated soil, specialty rock, and woodchips.









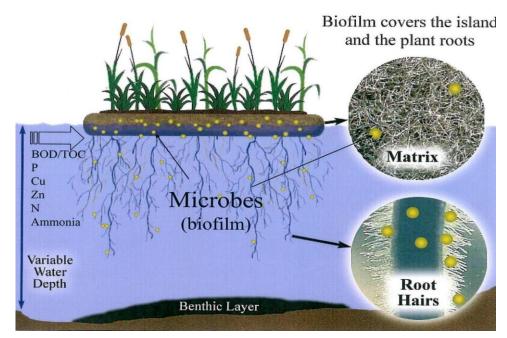




Step 1 - Restorer Lagoons for Nutrient Harvesting and Purification









Tyson Chicken Plant - Berlin, Maryland

Large scale industrial wastewater restorer application.







KickStart

Charged BioChar Soil Conditioner







Soil MicroBiotics Benefits



Enhances Atmospheric Nitrogen Absorption

Solubilizes Naturally Occurring Phosphorus Bound to Soil Particles

 "Free-living" bacteria, fungi and organic enzymes. These beneficial bacteria include, but are not limited to:

Desulfovibrio

• Anabaena cylindrica

Nostoc commune

Rhodobacter sphaeroides

Klebsiella pneumoniae

Clostridium

Azotobacter vinelandii

Rhodobacter capsulatus

Escherichia intermedia

Bacillus macerans

Bacillus polymyxa

Rhodopseudomonas palustris



Thank You & Questions









