

**BLUE MARBLE
INNOVATIONS**



Landfill Owners – Are you considering these new options?



Option 1 – saving landfill
space while increasing
revenue?



Option 2 – creating a
zero-waste option with no
landfill?

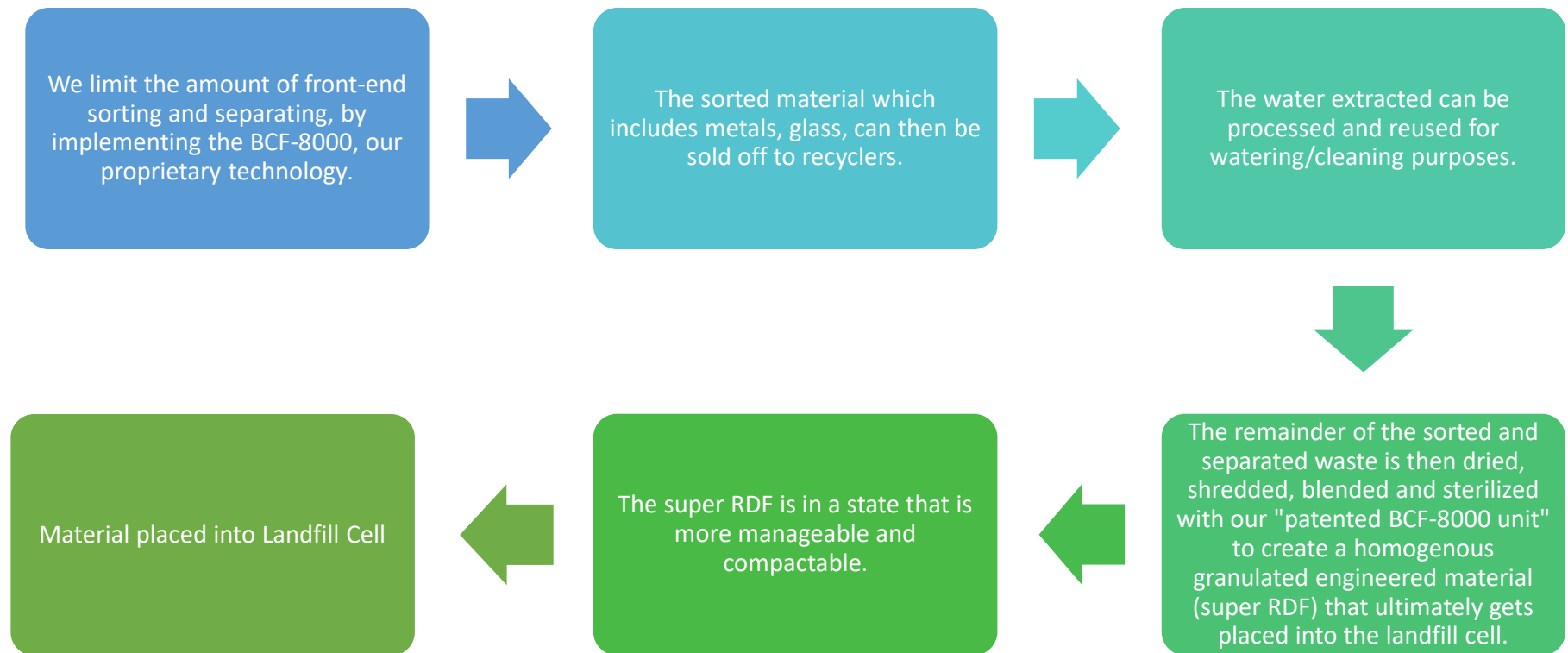
SAVE LANDFILL SPACE WHILE INCREASING REVENUE

OPTION #1

- Our Patented RDF Processing Technology is manufactured and designed to blend, dry, shred and condense incoming RDF and/or biomass feedstocks. Incoming material is heated in a vessel which allows the fibers of cardboard, and paper to be impregnated with the plastics in the incoming waste stream resulting in a most stable RDF.
- The use of this technology will allow landfill operations to reduce the the amount of incoming material, in some cases, by as much as half, allowing the operator to take-in double the amount of waste, therefore increasing the daily tipping fee, or extend the life of the landfill.
- Our Super RDF has the following benefits:
 - Better compaction at the landfill
 - Reduces the amount of methane gas production
 - Material will be drier and more resistant to leaching



Process Option #1



CREATE A ZERO
WASTE OPTION
(NO LANDFILL)
TRF
OPTION #2

- Option Two is our “Total Recovery Facility (TRF) with an Environmental Education Center.
- Bioconversion of waste creates renewable fuels and energy and achieves carbon neutrality
- Clean-and-green technology with near-zero emissions, with no incineration
- Eliminates the need for costly recycling and achieves 100% diversion from landfills
- Eliminates Vector issues and the need for hazing
- Eliminates complaints from neighboring communities
- Reduces odor
- Never fills up or closes due to weather conditions

We limit the amount of front-end sorting and separating, by implementing the BCF-8000, our proprietary technology.



The sorted material which includes metals, glass, can then be sold off to recyclers.



The water extracted can be processed and reused for watering/cleaning purposes.



Pyrolysis Technology takes the RDF, heats and cools it, and sends it to the patented Gas Enhancement Module for final conversion to syngas.



The super RDF is in a state that is more manageable and compactable.



The remainder of the sorted and separated waste is then dried, shredded, blended and sterilized with our "patented BCF-8000 unit" to create a homogenous granulated engineered material (super RDF) that ultimately gets placed into the landfill cell.



Verdis Synthetic Fuels
Fischer Tropsch Technology
converts syngas into
renewable diesel or
sustainable aviation fuel.

Process Option #2



Blue Marble Innovations Outcomes

- Whether you select Option #1 or Option #2, you will still use the BCF 8000 Unit that will blend, dry, shred and condense incoming RDF and/or biomass feedstocks, in order to create the following:
 - Option #1 – outcomes
 - More MSW Tipped
 - More Landfill Space
 - Greater Revenue
 - Option #2 - outcomes
 - Renewable Diesel
 - Sustainable Aviation Fuel
 - Green Hydrogen
 - Plastic Lumber



Advantages of TRF

Reduces moisture which reduces chance for leachate.

Creates homogenous material, which eliminates air pockets

Produces water, that once treated, can help with road dust

Reduces need for excessive environmental controls

Allows for greater compaction which extends life of landfill

Creates recycling program for metals, glass

Is a scalable system that can take advantage of future growth

Environmental Outcomes

Reduces Odors

Near-zero emissions

Reuse water (cut water purchases)

For every 1 Ton diverted from Landfill, 6.4 Tons of CO2 equivalent is eliminated

Potential Financial Results

Possibly Double Tip Fees

Federal Tax Credits

Recycle Metals

Reduce Water Purchases

Additional Information

- Additional Information as it pertains to the BCF-8000, can be obtained by reviewing the following:
 - BCF-8000 Video
 - Available upon request
 - Blue Marble Innovations – website
 - <https://www.bluemarblepnw.com/>

Contact Information

- Steve Owen
- Blue Marble Innovations (Midwest)
- 312-550-4648
- steve.owen@bluemarblepnw.com
- Tim Newberry
- Blue Marble Innovations (West Coast)
- 808-389-1452
- tim.newberry@bluemarblepnw.com

Or at

info@bluemarblepnw.com

