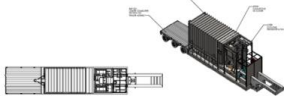


## A Distributed & Decentralized System for Small-Scale Waste Processing, Recycling & Disposal

We offer a small-scale waste processing, recycling and disposal system for small cities (under 200,000) in developing countries, refugee camps and island nations that currently rely mostly on open burning or using unsanitary garbage dumps. Our core technology is a self-fueling small-scale & mobile combustor that cleanly destroys the leftover residual waste, acting as a landfill substitute (after composting and recycling activities occur). Each Starter MRF delivers waste reduction (up to 25,000 tons/year), high recycling results (up to 80%), healthier “waste-free” environments and offers real productivity impact – at a low upfront investment



Financing Sought: \$1M; \$5M Series A

Co-Founders, Management Team:  
Rob Steir, Bernie Podberesky, Perry McLain.

Advisors: Randy Wolf; Frank Raschke,  
Category: Waste; Waste to Energy

Year Founded (Current Team): 2014

Funding Stage: Post Seed/Pre-Series A

Use of Funds: Build, test & EPA certify Unit 001 for multiple waste streams in 6-8 months; patent IP; ship first unit sold

Development history:  
Nearly 1000 hours of testing using wood chips/pellets

Patentable IP created for combustor

### WASTE STREAMS (FUEL)

- Agricultural Waste
- Plastics (PET and Biodegradable)
- Inorganic Non-Recyclables from Municipal Waste (MSW) Streams
- Marine Debris
- Non-Metal Hospital Waste Streams
- Treated Wood & Disaster Debris
- Construction & Demolition Material
- No eWaste, Cans, Glass, Metals

### MORE THAN WASTE DISPOSAL

(Anchoring SMRF- 25,000 tons/yr)

- By itself, combustor can dispose of, conservatively 5000 tons/year.
- Our unit allows much more MSW to be collected by waste firm: Approximately 70-80% can be sorted out and valuably composted (organics) or recycled. Most of the remaining waste can be prepped and sent to our combustor for disposal.

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**Our Combustor:** Our mobile and small-scale combustor is a revolutionary technological achievement as it reduces the size of a fluidized bubbling bed, without sacrificing its proven combustion effectiveness. One unit can “cleanly” dispose up to 7000 tons per year of a wide variety of solid waste streams (intake of 1000-2000 lbs/hour or 450-900 Kg/hour). Installation of appropriate pollution abatement equipment, as required, will ensure that emissions will be clean “hot exhaust air” and, based on a previous prototype, we believe it’ll meet EPA standards.

#### Differentiating Features

Small Fluidized Bubbling Bed	Proprietary Control System
No Supplemental Fuel (Self-Fueling)	Easy Start with Low Fuel Required
Produces Minimal Ash (easy care)	Operates at 2200°F/1204°C
Mobile (Fits on Truck, Boat, Rail)	Small Footprint: 8 by 26 ft/2 by 8m
Exit: Clean, Exhaust Hot Air	Patentable IP

**With Energy Option:** The unit can be retrofitted to generate off-grid power from the waste exhaust heat using an off-the-shelf ORC power generator -- up to 600,000 kW of energy (@net 75 kW/h). Perfect for powering small community buildings (cold storage facility, food processor, light industrial uses, cell phone charging, etc.)

#### Product/Market Fit:

##### For Developing Countries (as system)

Our combustor enables a new way (our Starter MRF) to “cleanly” dispose of leftover non-recyclable waste for areas without sanitary landfill. Replaces use of open-pit burning & unsanitary garbage dumps. Perfect for building a regional, decentralized network of multiple small-scale local systems (“waste-free areas”) vs. More expensive large-scale and centralized modern waste infrastructure & landfill in developing world

##### For U.S. & Europe (as operating unit)

Even within modern waste ecosystems, waste producers can deploy on-site unit(s) to dispose of non-recyclable waste destined for landfill. Best ROI where waste producer can avoid high-cost landfill tipping fees and not incur transportation costs. Option for waste producer to buy or lease (capture 100% savings) or have 3<sup>rd</sup> party provide disposal services onsite and save smaller portion each year

**Business Model:** [1] A product sale to end user or distributor (to buy or lease unit). We would outsource production to U.S. 3<sup>rd</sup> party, initially. Seek manufacturing partners in other countries; [2] As U.S. on-site operator to save Paper MRFs money by avoiding landfill tipping fees and transportation costs. 1<sup>st</sup> user lined up in PA

**Management:** Well-regarded fabrication engineer and inventor (Perry McLain). Strong mix of start-up experience and business expertise (Rob Steir/Bernie Podberesky) and proven and connected waste-industry advisors

#### Target Markets:

**Developing Country Markets:** [1] Small Island Development States (SIDS); [2] Small Cities and Remote/Rural areas without supporting waste infrastructure or collection processes; [3] Refugee Camps

**U.S./Europe Markets:** [1] Non-integrated U.S paper MRFs operating in high-cost landfill states; [2] Flexible Package Plants producing multi-laminate packaging; [3] Post disaster cleanup efforts (tornados, floods, hurricanes; railroad ties); [4] Treated wood