



PowerCan® 200 CHP - MUNICIPAL SOLID WASTE - LANDFILL REDUCTION SCHEME 2013

www.solideagroup.com

PowerCan® 200 MSW WASTE TO ENERGY [WtE] LANDFILL RECLAMATION WORLDWIDE

The Advantages of PowerCan® 200

- End Landfill Accumulation Worldwide
- End Methane Leakage from Landfill
- Bank MSW for feedstock commodity
- Zero CO2 is produced in the Extinction
- 100% Consumption of Landfill Waste
- Very High Profit Margins
- 100% Renewable Energy
- No Smoke or Smoke Stack
- No Residue or Waste Ashes
- Electricity is produced where its needed
- Low Heat Loss
- Creates a Highly Sustainable Industry



The "Garbage Bank" Tipping Floor Feedstock



Sand Removed Loaded and baled green



Existing Landfill Excavated to remove historic MSW



Low cost concrete blocks from reclaimed aggregates



A Well Managed feedstock Resource on valuable "Reclaimed Land"



Glass, and Aggregates are Crushed and sized for reuse



MSW Sand/Aggregates



MSW Concrete Production on reclaimed landfill

MSW Landfill Projects

PowerCan® 200 is a new, totally different waste handling process. Landfill is "mined" and new MSW is processed, after recycling (glass & metals) all waste is extinct. MSW feedstock called MSW FibeR-Stock™ is the fuel for a decentralized power generating network. Smart grid plus efficient WtE handling = Genius Generating™ model from SOLIDEA.

This Business Model Profits from

- Waste Collection Fees
- Syngas Production and fuel
- Aggregates and Blocks
- Reclaimed Metals
- Reclaimed Plastics
- MSW FibeR-Stock™ stacks
- Electricity
- Heat/Cooling/or Ice
- Fertilizers for Organic Farms
- Other income streams Biomass and Sewage



MSW Collection [Trucks on Syngas]



The MSW Tipping Floor



MSW Sorting is made on a mezzanine platform over the Tipping Floor



Polishing and Sizing (Metals & Glass Removed)



Hand sorting reclaims valuable plastics and textiles



MSW Fiber is sized for packaging and distribution as feedstock

The PowerCan system can be totally energy self sufficient and self generating as it is producing all of its energy needs as it is making landfill Extinct



Pure Clean bottled gas for MSW Trucks & Renewable Auto and Aviation fuels



Syngas Production for site plant or resale



Biomass Feedstock Production can be processed on or off site



Solid Sewage Waste Feedstock Human or Animal Waste settled



PowerCan® 200 CHP units are installed at commercial and public buildings. The feedstock hoppers hold up to 3 days of baled MSW fiber. As well as electricity on smart grid units deliver Heating Cooling or Ice on site for local or distributed use. User networks can include up to 500 units



PowerCan® 200 CHP units are installed at Factories, Transport Hubs and Ports. These feedstock hoppers hold up to 3 days of baled MSW fiber. As well as electricity on smart grid PowerCan® 200 delivers Heating Cooling or Ice on site for local or distributed use. User networks can include up to 500 units



The CHP Hopper Units screw feeds "White Baled" MSW fiber feedstock bales 24hrs per day



Many Containerized CHP power plants are located within 50km radius of the landfill



MSW Fiber is White Baled in 3 tons packs for distribution directly to PowerCan® 200 station hoppers