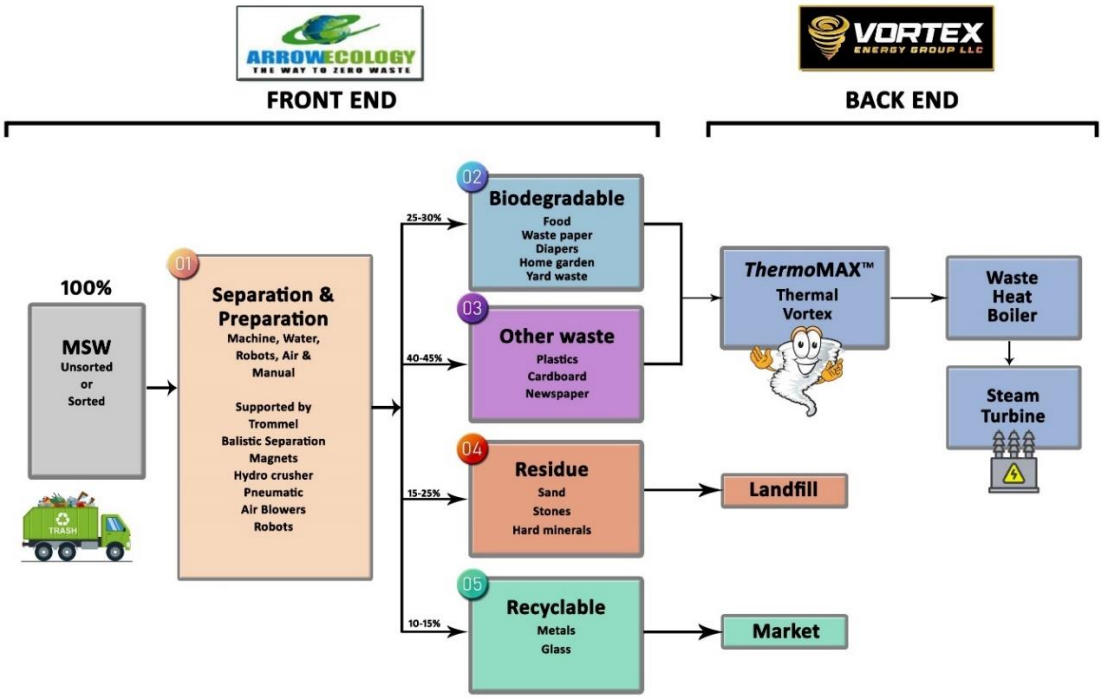
Waste-to-Energy (WtE) & Carbon Capture (CCS) Processes

Innovative waste separation/sorting & processing



01 The MSW delivered to the plant is being extensively sorted into four waste streams

02 25-30% of the MSW is biodegradable, which is shredded and pneumatically conveyed into the vortex unit

03 40-45% of the MSW is other waste materials, which is shredded and pneumatically conveyed into the vortex unit

04 15-25% of the MSW is residue or inert materials, which is delivered to a landfill as dry material

05 10-15% of the MSW is recyclable materials, which is separated and sold to the market

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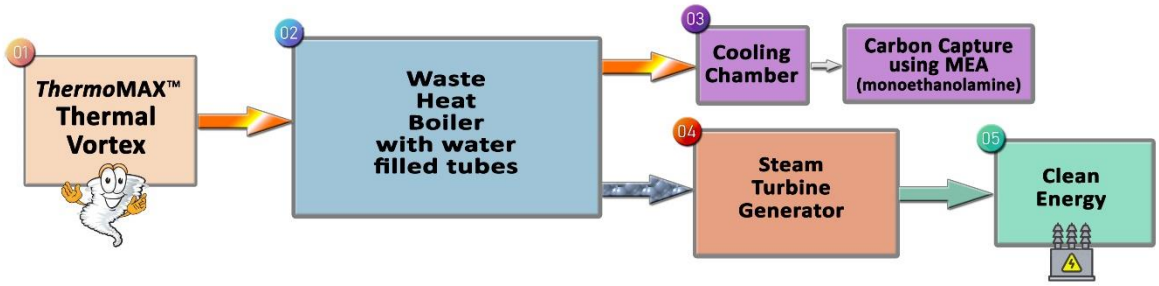
Carbon Capture & Sequestration (CCS) Process



01 The ThermoMAX™ thermal vortex chamber burns waste at 90 mph and 2,000° F - the exhaust flows into the boiler

02 The waste heat boiler has several water filled tubes that get heated by the super-heated exhaust creating steam

03 After heating the water pipes, the exhaust exits the boiler and enters the cooling chamber, then to the CCS unit

04 The steam exits the boiler at STP, and enters the steam turbine generator

05 The generator produces clean sustainable energy as base load generation

VORTEX ENERGY GROUP LLC