



# AgriPower

INCORPORATED

## TECHNOLOGY ADVANTAGES AND BENEFITS OF AGRIPOWER'S WASTE TO ENERGY, COMBINED HEAT AND POWER SYSTEM

AgriPower, Inc. ("**AgriPower**") is about to commence manufacturing, selling and servicing its proprietary, modular and transportable Waste-to-Energy ("**WtE**"), Combined Heat and Power ("**CHP**") systems (the "**Systems**"). The Systems were specifically designed and engineered to provide the following technological advantages and benefits:

1. The System will use the latest "Waste to Energy" ("**WtE**") technology.
2. The System will generate clean, combined heat and power ("**CHP**") from a single fuel source.
3. The System's prefabricated, modular and skid mounted design will make it easy to handle, ship and transport.
4. The System's modules will be container sized (so they can ship in, or as, standard 20' or 40' shipping containers).
5. The System will be modular, enabling it to be easily transported to where the fuel is located. This will eliminate most of the cost, and the carbon footprint, normally associated with gathering Biomass and bringing it to a large, centrally located furnace.
6. The System will be prefabricated and have quick connect fittings which will enable its rapid installation and removal. The System will be able to be installed, set-up (or torn down) and producing electricity and Heat Energy only 2 to 5 days after delivery (depending on crew size).
7. The System's modest footprint (40' long, 8' wide, 12' high) and weight (40 tons) will make it suitable for many types of locations.
8. The System will utilize well established combustion and turbine generator technologies for reliability and low operating costs. Their use of high quality, readily available, commercial off-the-shelf components, will provide extremely low maintenance costs.
9. The System's proprietary "high temperature" and "clean air" technologies will not foul the turbine blades of the Waste Heat Generators, thereby reducing costly maintenance and downtime. Estimated uptime is 95%+.
10. The System will use low air pressure and be non-condensing (i.e., it will not require water or steam to operate). It will not require difficult to find or expensive ultra-pure water or an expensive on-site engineer or technician for high pressure safety reasons.
11. The System will be able to combust a wide variety of low cost Biomass (with up to 50% moisture content) and plastic waste as fuel including agricultural, commercial, industrial and municipal waste, in a carbon neutral manner.

12. The System will be environmentally friendly and comply with applicable U.S. and EU zoning and permitting regulations.
13. The System will generate Heat Energy that will be usable to produce heat and hot water and/or with Co-Generation technology that has a variety of valuable applications (such as desalinating and purifying water; making ice; and producing air conditioning and refrigeration).
14. The System's Heat Energy will also be usable as a totally free energy source for commercial applications such as for bonding; and for drying various products (such as paint and wood products) including drying excessively wet Biomass (more than 50% moisture content) so it can be used as fuel in the System.
15. If the electricity and the Heat Energy are used productively, the System will have a 60%+ efficiency ratio.
16. The System will be available in numerous gross (net) electrical output configurations: 130kW gross (120kW net), 260kW gross (240kW net), 390kW gross (360kW net), 520kW gross (480kW net), 650kW gross (600kW net) and 780kW gross (720kW net) and, when run in parallel, will be especially well suited for mission critical applications. The above net outputs are before the approximately 20kW parasitic load which each System requires to operate its computer, fans, blowers, motors, and other integrated equipment.
17. The System will be able to be custom configured to provide considerable amounts of additional Heat Energy to satisfy various heating, hot water, air conditioning and refrigeration requirements.
18. The System's average daily fuel requirement of only 10 to 20 tons of waste and its high electrical and Heat Energy output will make it suitable for a large number of potential customers and their varying applications.
19. The System's automated operating technology and ability to be remotely monitored via telephone, satellite or the Internet will eliminate the need for an on-site engineer or technician.
20. The System's extremely high combustion temperature will permit the combustion of volatile chemicals on or in the wood (e.g., paint and creosote) and produce a modest amount of ash (1% to 3% of fuel volume) depending on the type of fuel used.
21. The System will be able to be configured to automatically expel non-combustible items (i.e., rocks, stones, nails and screws), thereby eliminating manual sorting expenses.
22. The System can be connected to the grid to facilitate the generation and sale of electricity to the local power company and sized to generate excess Heat Energy that can be sold to nearby buildings.
23. The fuel feed hopper can be sized to accommodate each customer's requirements (e.g., the hopper will be able to hold 8, 10 or 12 hours or more of fuel before it must be refilled).
24. The System may generate recurring annual carbon credits for methane avoidance and/or for replacing diesel generators and may qualify for significant tax benefits, grants and subsidies.
25. The System will NOT use for fuel any materials that can be used for food or feed.
26. AgriPower's customers will not have the commodity risks associated with purchasing diesel fuel oil in the open market at unpredictable prices to the extent that they use the Biomass and plastic waste streams generated by their own commercial and agricultural operations as low cost fuel.