



AgriPower
INCORPORATED

***Using Clean, Combined Heat And Power
("CHP") And Waste To Energy ("W2E")
Technology To Change Lives***

PREPARED ESPECIALLY FOR:

**QUARTERLY INTERAGENCY WOODY BIOMASS
UTILIZATION GROUP PRESENTATION**

JUNE 9, 2009




Our Achievement

- AgriPower has completed development of its second generation 250kW/hr electric generation Unit and is ready to start production of its Power Island 300™.
- The Unit can efficiently combust most types of Biomass in an environmentally friendly, carbon neutral, manner.
- The Unit's modular design enables it to be easily transported to where the Biomass fuel is located thereby eliminating fuel transport costs.

AgriPower's 250kW/hr Test Unit



This photo shows the completed 250kW test Unit in AgriPower's current assembly and testing facility in Sacramento, California. The automated feeder hopper module (1) on the left is connected to the combustion chamber module (2). The heat exchanger module (3) is in the right rear. The control panel (4) is in the center, the operating computer (5) is in the immediate front and the turbine generator set (6) is behind the computer.



WHO NEEDS AGRIPOWER GENERATORS?

- Biomass producers (e.g., “Big Box Stores”) want to eliminate their disposal costs.
- Operators of diesel generators that produce Biomass (e.g., lumber mills, paper and pulp companies, etc.) want to use it as a free fuel.
- 2 Billion off-grid people currently do not have access to electricity.
- 500 Million off-grid people only have electricity for 2 – 4 hours per day because they cannot afford the high cost of diesel fuel.
- Many Biomass producers must comply with new environmental regulations that prevent them from disposing of their Biomass at landfills.

THE SOLUTION: Our Unit provides an affordable, environmentally-friendly method of producing electricity using their Biomass waste as a free or low cost fuel.



Biomass Is A Readily Available, Renewable Fuel In Most Parts Of The World

- The Unit can use for fuel a wide variety of Biomass including:
 - ✓ wood waste (debris; wooden pallets);
 - ✓ trees, brush, invader bush, saw-grass, weeds;
 - ✓ sawdust, cardboard, paper & pulp, discarded fruits/vegetables;
 - ✓ most types of crop waste including:
 - corn cobs and husks;
 - sugar cane bagasse;
 - almond, coconut, nutmeg, peanut and walnut shells;
 - olive pits, pulp, skins and tree trimmings;
 - grape skins, pulp, pits and vine trimmings.
 - ✓ animal manure*; and
 - ✓ certain types of commercial and municipal waste*

*** May require a mixture of fuels such as wood chips, sawdust, etc.**



Our Value Proposition

Our Unit will save \$15 - \$20 Million in avoided fuel costs over its 20 year useful life.

We do NOT use any type of food for fuel.

No commodity risk; our customers generate their own waste for fuel thereby eliminating the market risk of obtaining fuel at an uncertain price.

COMBINED HEAT & POWER

In addition to the 300kW/hr of electricity the Unit generates, it also produces valuable Co-Generation and Thermal Energy as free by-products.

Co-Generation and Thermal Energy have many uses:

- Refrigeration
- Air conditioning
- Cooling
- Heating
- Water purification, distillation and desalination
- Drying, bonding, producing steam
- Pre-drying excessively wet fuels

Agripower's Unique, Proprietary And Patented Heat Exchanger Design Combines A Gas Turbine "Open" Brayton Cycle Process With A Downsized Fluidized "Bubbling" Bed Furnace And Space Age Metals To Provide A Superior Technology

Both Technologies Are Mature, Proven And Highly Reliable:

Gas turbines are widely used for power generation and aircraft propulsion

Fluidized "bubbling" bed furnaces are widely used for boilers and for burning a variety of low quality fuels

AgriPower's Technology Provides Significant Benefits:

Separating the Biomass fuel combustion products from the gas turbine cycle greatly reduces turbine wear, downtime and maintenance and operating costs

Fluidized "bubbling" bed technology accommodates low quality fuels and provides lower emissions than comparable furnace technologies

Proprietary high temperature and heat exchanger design and space age metals permit efficient and clean heat transfers using most types of Biomass

Product Overview

Base Unit:

8' W, 12' H, 40' L (rests on a gravel or cement lay down bed); 40 tons comprised of four easily transported modules

Can be used indoors and outdoors

Uses patented technology, a proprietary heat exchanger design and space age ceramics and metals

Operates on a fully automated basis using a proprietary PC-based software operating system

Is technologically superior to, and cheaper to operate than, gasifiers and steam units

Uses standard off the shelf components

Fuel Intake:

500 – 850 pounds per hour; 5 – 10 tons per 24 hours; requires 1 – 2 inexpensive laborers to complete 1 - 2 fuel hopper refills per 24 hours

High Output And High (75%) Efficiency – Clean, Combined Heat and Power (CHP):

300kW/hr (275kW/hr net) electrical energy, Co-Generation and Thermal Energy – every four BTUs of fuel produces approximately one BTU of electricity, one+ BTU of Co-Generation and one BTU of Thermal Energy (a total of three+ BTUs or 75%+ efficiency) in an environmentally friendly manner

Co-Generation As An Additional Power Source:

Using a Co-Gen converter, Co-Generation and Thermal Energy can be used for water distillation, purification and desalination and to produce ice, refrigeration, air conditioning, heat, steam, etc. and to pre-dry excessively wet fuel

Remote Monitoring:

The software enables the diagnosis of problems in advance of a breakdown or shutdown

The software can provide digital proof for carbon credit verification and payment purposes

Installation, Sales And Service:

World class service company and existing independent diesel generator, turbine and heavy equipment distributors will sell, install, maintain and repair the Units on a worldwide basis. All components can be easily repaired / replaced

The Unit contains bolted connections, is shipped pre-tested and pre-assembled, and can be installed and fully operational within two days of delivery

No special expertise or tools are required to install the Unit and make it fully operational



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FOR ADDITIONAL INFORMATION,
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