

CIWMB Conference

October 17, 2007

“Distributed Urban Biomass Power Production”

What Does That Mean?

- Use wood waste where it is generated
- As FUEL for power production
- In the area the power is used

What do we mean when we say wood waste?

- Wood pallets & manufacturing wood waste
- Tree trimmings
- Wood from C&D waste
- Limited yard waste

What about "Highest & Best Use"



\$87 + today

With Oil heading
towards \$100/barrell...
What is the best use of
wood waste?
Gov. Schwarzenegger's
Executive order 0606
20% Biomass Power

What will happen with compost?

Due to California's progressive mandate of 50% diversion and a goal to become Zero waste, there is MORE than enough waste available to be used for both purposes.

What are we doing to make sure that our process and projects are environmentally friendly?

- BACT
- Less NO_x and CO₂ than Natural Gas power generation
- No SO_x
- No methane production
- Dry Cooling Towers

Why not use all trash?

By separating out wood waste, we produce a greater amount of power with a smaller volume of waste. This leads to higher efficiency, a lower emission profile, and allows other waste sources to be recycled for their best use.

What does it look like
and how will it fit into
our community
?

THEN

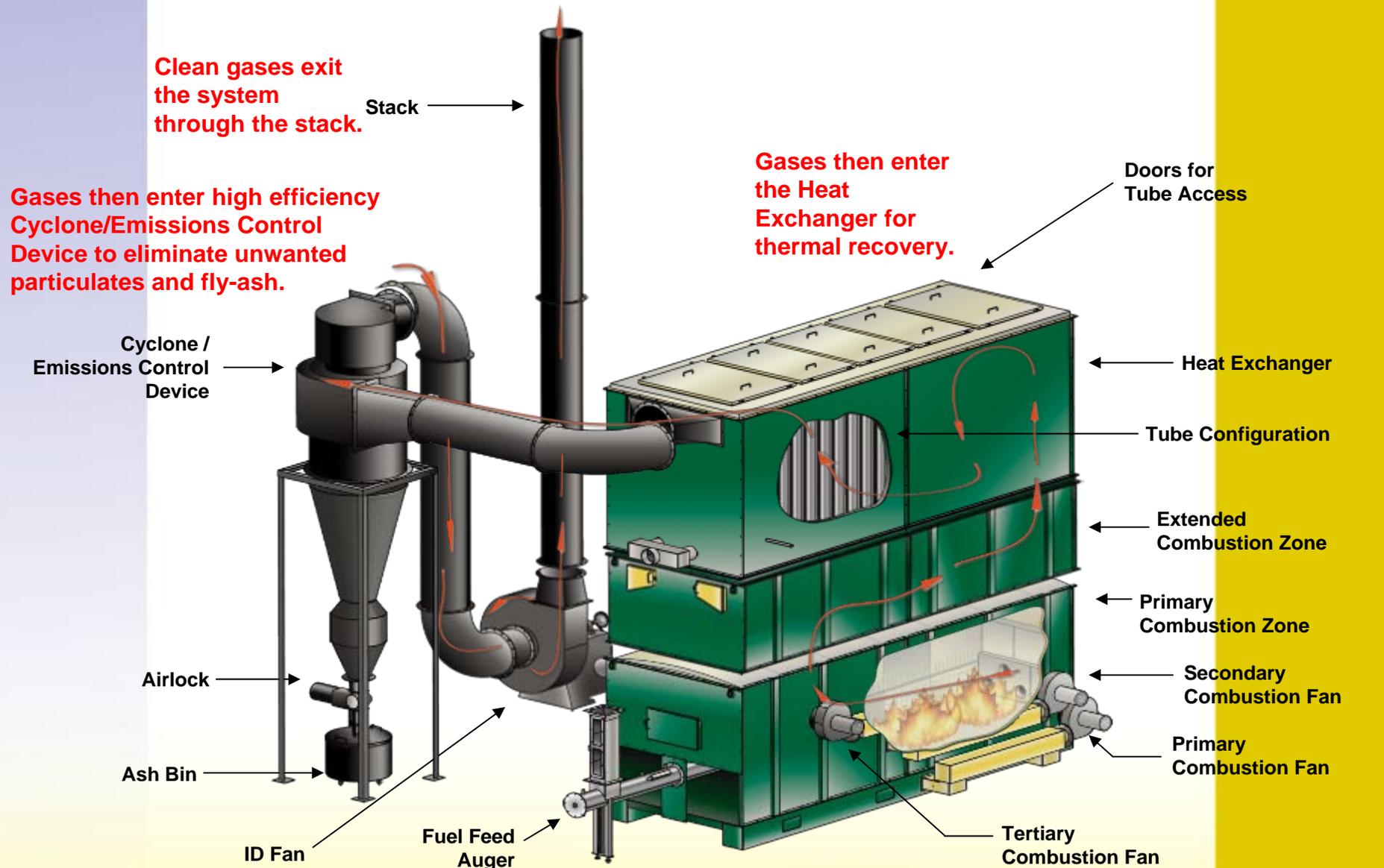








Thermal Combustion Process Flow



All the while, the ID Fan maintains negative pressure throughout the system.

Combustion begins in Primary Combustion Chamber through use of Primary, Secondary, and Tertiary Air.

Combustion gases dwell in Extended Zone for 1-2 seconds for complete combustion of biomass fuels.

San Diego Project

- Bull Moose Energy of San Diego, LLC was formed to develop a 23 MW renewable energy power plant
- 20 year power purchase agreement (PPA) with SDG&E
- The Project will be a 24/7 baseload facility
- 20 acre site in Otay Mesa portion of the City of San Diego
- Fueled by 400-500 tons per day of green waste.
- Fuel supply negotiations in progress
- FUNDED WITH PRIVATE CAPITAL

Pollution is nothing but the resources we are not harvesting. We allow them to disperse because we've been ignorant of their value.

- R Buckminster Fuller

BME

Bull Moose Energy, LLC
A Woman Business Enterprise