

CPC's New Wood-Gas TurboStove™

CPC's TurboStove™ combines advanced gasification technology and forced convection to virtually eliminate smoke and harmful emissions with traditional biomass fuels while substantially reducing the amount of fuel required to cook a meal.

From: High Smoke, Low Efficiency  To: Minimal Smoke, High Efficiency



The TurboStove is a new, low-cost cooking device that can use a variety of wood, agricultural residues or coal to approach the performance and convenience of modern bottled gas cooking. Households with PV Solar Home Systems or other sources of a few watts of DC or utility AC electricity can substantially reduce air pollution in their households and improve their quality of life and health with the TurboStove.



Prototype TurboStove in India



Features of CPC's TurboStove™

- ▶ Clean burning biomass stove uses gasification technology to produce extremely low emissions that can substantially reduce respiratory and eye diseases due to indoor air pollution
- ▶ Easy "no smoke" start and ready for high intensity cooking in about one minute
- ▶ Adjustable heat from high to low intensity for rapid boil or slow simmer. Can boil a typical teapot of water in 3-4 minutes, or simmer for long periods
- ▶ TurboStove can use most traditional biomass fuels (small pieces of wood, wood pellets, briquettes, nut shells, densified agricultural residues, or even coal)
- ▶ High efficiency (~50%) saves fuelwood. Much more efficient than traditional "three-stone" wood stove
- ▶ Uses about 3 watts of electricity to produce/control 3 kilowatts of heat from biomass or ag residues
- ▶ TurboStove can be adapted for high efficient community cooking applications (restaurants), health clinics, small rural industries, etc.
- ▶ Suitable for low cost, local manufacture and commercial distribution



2 Burner Turbo Stove W/ Oven



CPC is seeking opportunities to collaborate with development institutions, foundations and local public or private sector organizations to develop and commercialize the TurboStove technology.



PV Turbo Stove



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