

- o Generate Cost-Effective Alternative Fuel Source
- o Reduce Landfill Waste
- o Pilot Scale Process Developed
- o Licensing and Joint Development Opportunities

INTRODUCTION

Forty-eight states now have legislation limiting the landfilling of scrap tires. As a result, many uses have been developed for the rubbery part of tires resulting in the generation of tire residual that contains rubber adhered to steel wires. The WOMBAT process produces an **economically attractive alternative fuel source** from whole tires or the tire residuals.

PROCESS

Whole or scrap tires are reacted with nitric acid and a proprietary catalyst system to break the rubber/steel bond allowing magnetic removal of the steel from the rubber tire residual. Upon further processing, inorganic components such as zinc and sulfur are removed from the rubber. These inorganics leave the system as “spent” nitric acid resulting in rubber powder which can be used as is, pressed into pellets for easier handling, or combined with other solid state fuels to create WOMBAT Hybrid Fuels (WHF). By-products of this process are spent nitric acid which is converted to potassium nitrate for use as a fertilizer, steel, and NOx gases which can be sold or converted to fertilizer.

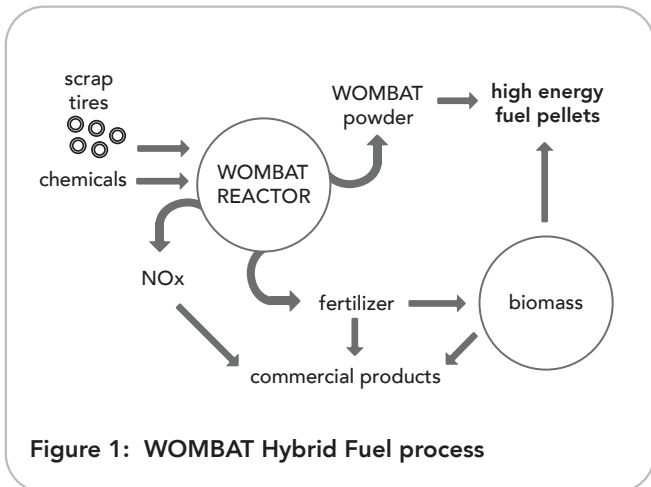


Figure 1: WOMBAT Hybrid Fuel process

ECONOMICS

A synergistic effect occurs when high energy WOMBAT powder is mixed with wood wastes. The resulting products are called WOMBAT hybrid fuels and may be prepared in any relative compositions.

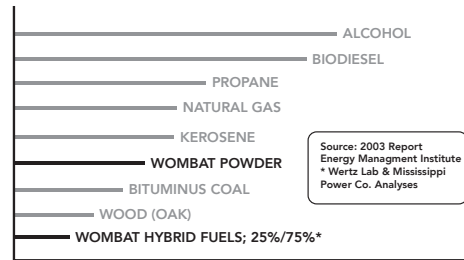


Figure 2: Comparison of cost per million BTUs of WHF to the cost of common fuels

The synergism encompasses both the combustion kinetics and the economic analysis of the WOMBAT process. A WOMBAT Hybrid Fuel composed of 25% WOMBAT powder and 75% wood chips has a better cost per million BTU’s than bituminous coal or even oak wood.

COMMERCIAL STATUS

The process has been proven on lab scale equipment. Pilot facilities are in the start up phase.

INTELLECTUAL PROPERTY

Our WOMBAT technology for creating WOMBAT powder and WOMBAT Hybrid Fuels includes process patents and significant proprietary know-how.

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