



## **THE INT 1000** **IEC BIOMASS THERMAL REACTION PROCESS**

### *A COMPETITIVE EDGE*

A core component of Independence Energy Co.'s technology array is pyrolytic gasification embodied in the INT 1000. While the gasification process has been in use for more than seventy-five years the INT 1000 presents a significant departure from all prior technology. IEC's proprietary INT 1000 performs with economic and environmental efficiencies that are unmatched.

Syn-gas, the product rendered by the gasification process, is a serviceable fuel. Its usefulness, however, is impaired by the presence of excess compounds that erode combustion performance and cause adverse environmental impact. The industry generally refers to those compounds as tars. In simple terms the tars gum up the works.

Other gasification technologies require ongoing maintenance to purge the tars from the process of syn-gas combustion. Cleaning and downtime negatively affect the value of the use of syn-gas. In addition, the tars routinely appear in the combustion of syn-gas thereby degrading environmental quality.

The INT 1000 solves both the economic and environment problems. Through IEC's proprietary process excess carbon is captured and serves as filtration for the pre-combustion syn-gas. The result is a clean, more efficient syn-gas ready for heat generation that comports with worldwide environmental standards.

The excess carbon constitutes, as well, a valuable co-product. The IEC process continuously produces pure carbon that first cleans the syn-gas and then is discharged ready for sale to a robust carbon market.

IEC's INT 1000 holds a significant and meaningful competitive advantage in the world of synthetic fuel production.