Atlantic Biomass Introduces "Follow-the-Crop" Biofuel Production System at U.S. Representative Roscoe Bartlett's Green Energy Conference in Frederick, MD

Frederick, MD July 1, 2009:

Atlantic Biomass Conversions, Inc., a Frederick, MD biotech biofuel company, introduced their ***"Follow-the Crop"*** paradigm changing biofuel production system on Monday 29 June. This public introduction was made at US Representative Roscoe Bartlett's (R-MD-6th) **Green Energy Conference** in Frederick. "Rep. Bartlett's Green Conference was a great opportunity for us," said Atlantic Biomass President Bob Kozak. "Not only did we meet with Congressman Bartlett, but we were able to meet one-on-one with Mid-Atlantic growers and hear their support for our "Follow-the-Crop" system." (See attached flyer for details.)

Atlantic Biomass President Bob Kozak (left) and Congressman Roscoe Bartlett (right) (R MD-6th) Chairman of the Peak Oil Caucus discuss the "Follow-the-Crop" biofuel production system.

The "Follow-the-Crop" biofuel production system transforms the production of field crop and biomass biofuels by **overcoming the "Transportation Conundrum**" created by the high cost of transporting bulky, low density biomass.

"We're taking the **biomass conversion process out of the biorefinery and taking it to the field**," said Kozak. The system is based on a proprietary enzyme process developed by Atlantic Biomass.

"Everyone we spoke with immediately understood how "Follow-the-Crop" would reduce biofuel production costs and open up opportunities for small and medium sized growers," he added.

Atlantic Biomass Conversions, Inc. is working on the commercial deployment of the "Follow-the-Crop" system with Encore Bioenergy, LLC of Montevideo, MN. Atlantic Biomass is currently seeking investment partners to match NSF and DOE/ARPA-E funding opportunities. Atlantic Biomass is a privately held company incorporated in Delaware. For additional information contact:

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The "Follow-the Crop" Biofuel Production System

Note: No proprietary information is included

Breaking the Roadblock to Cost-Effective, Sustainable Biofuel Production

The production of biofuels in the US is at a substantial roadblock. The economies of scale that allow the US petroleum industry to minimize production and transportation costs are not available to the biofuel industry.

The reason for this roadblock is simple: **the high cost of transporting large quantities of low density, low value biomass to biorefineries**.

We can overcome this roadblock with a transforming approach called the **"Follow-the-Crop" biofuel** intermediate production system.

System Design

Following the model of combines that follow the harvest season, the **"Follow-the-Crop"** system takes the conversion of biomass into high-value biofuel intermediates such as soluble 5 and 6 carbon (C-5 & C-6) sugars **out of the centralized biorefinery and puts it in the field.** The high-speed **biomass processing system** currently being **patented by Atlantic Biomass** will be deployed nationwide in low-cost, portable units. These portable units will convert the low-density, low value biomass into high density biofuel intermediates.

These biofuel intermediates would be then be shipped via tank truck, or even lower cost trains, to large scale biorefineries for chemical or thermochemical conversion to finished biofuels. These large-scale facilities would range from dedicated cellulosic ethanol plants to existing multi-product petroleum refineries retrofitted to **utilize biofuel intermediates for a range of fuels including biogasoline, biodiesel, and bio-jetfuel**.

"Follow-the-Crop" hardware is based on the portable ethanol production system that Encore Biofuels, LLC is currently engineering. **Retrofitted shipping containers** complete with internal environmental controls will be the basis for the modules.

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This will allow for inexpensive initial and transport costs. An automated remote process system will monitor and control the **Atlantic Biomass proprietary enzyme conversion system**. A combination of GPS locators and GIS location software will be used to maximize deployment and processing time while minimizing transportation costs. Individual modules will include software and hardware connections so they can be operated in single or multiple mode to process crops on fields as small as 10 aces or as large as 1,000.

Benefits to Growers and Consumers

The "**Follow-the-Crop"** system will transform the production of biofuels by basing production on a nationwide mixture of **environmentally and economically sustainable "energy" crops and grasses**. Many of these crops will be grown in rotation, in conservation areas, or in small stands. By creating a viable market for these "non-traditional" sustainable energy crops, grasses and agricultural residues grown in **stands as small as 10 acres**, the "**Follow-the-Crop"** system would **improve the income of small and medium growers**. It will allow farmers to utilize their marginal lands and expand their selection of crops without the necessity of planting hundreds of contiguous acres. This would allow significant quantities of total energy biomass to be grown outside the Midwestern "grain-belt" and would greatly help rural economies in the southeast and northeast. This is something the **current integrated biorefinery** paradigm which requires both short biomass transport distances and the same input crop each year **simply cannot do.**

"**Follow-the-Crop"** will transform the advanced biofuels industry into one **coherent system** rather than remaining a collection of uncoordinated, geographically constrained small industrial facilities. By **changing the feedstock** of biofuel refineries from individual specialized crops **into common commodities**, the entire biofuel industry can then respond to real **market forces**. This will enable the United States to **domestically produce** the nearly 60 **billion gallons/year of biofuel** that would power a fuel-efficient US vehicle fleet in 2030.

American consumers will benefit two ways. First, instead of sending nearly $150 million daily to countries that do not like us for oil, that money will stay in the US. Second, with a sustainable cost-efficient biomass production system based on "**Follow-the-Crop,"** biofuel prices can be fairly set.