

# **Hydro Dynamics, Inc.**

Harnessing the Power of Cavitation



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## **Hydro Dynamics, Inc. Expands Ethanol Industry Offerings to Include Integrated Biodiesel Plants for Corn Oil Processing**

*Hydro Dynamics, Inc. and its partners World Energy and PhiBro Ethanol Performance Group are now offering “bolt-on” biodiesel plants incorporating the ShockWave Power Reactor for the conversion of corn oil to biodiesel. By installing a biodiesel plant ethanol facilities can realize several competitive advantages over conventional biodiesel plants.*

Hydro Dynamics, Inc. (HDI) of Rome, Georgia ([www.hydrodynamics.com](http://www.hydrodynamics.com)) announced today that complete biodiesel plants incorporating its cavitation based ShockWave Power Reactor (SPR) are now available for the Fuel Ethanol industry. The majority of ethanol plants already recover their corn oil and much of this ends up converted to biodiesel. By integrating a biodiesel plant directly into the ethanol plant a producer can realize many competitive advantages due to reduced transportation cost, shared infrastructure and the ability to merge coproduct streams.

In order to offer ethanol plants a seamless “bolt-on biodiesel” solution HDI is expanding its existing relationships with World Energy of Boston, MA and Phibro Ethanol Performance Group of Teaneck, NJ. World Energy is a leading producer, supplier and distributor of biodiesel and HDI has previously partnered with World Energy’s WMG Services business unit for sale of the SPR to the biodiesel industry. This new venture expands the cooperative offering to include not only the SPR, but complete plants designed by WMG Services. Phibro Ethanol Performance Group is the exclusive marketer of LACTROL® antimicrobial to the ethanol industry and HDI has been partnered with Phibro for commercializing the SPR to enhance yield. Phibro’s technical expertise and extensive customer relationships make them an excellent partner to help bring biodiesel to the ethanol industry.

SPR technology is already well established in the biodiesel industry with well over 500 million annual gallons of capacity sold using the SPR technology. “Our SPR technology is well positioned in the biodiesel market as the most efficient technology available to drive the reaction to convert corn oil and other feed stocks into biodiesel”, stated Doug Mancosky, Vice President of Hydro Dynamics, Inc. “The SPR offers biodiesel producers significant production advantages over those using conventional reactors and mixing systems to drive the transesterification reaction.”

The SPR technology has potential to offer ethanol producers a “bolt-on biodiesel” solution at significant capital savings and ongoing production cost efficiencies over conventional biodiesel processes. More information can be found at [www.hydrodynamics.com/biodiesel-plants](http://www.hydrodynamics.com/biodiesel-plants).

## About Hydro Dynamics

Hydro Dynamics is the developer of a patented cavitation process intensification technology called the ShockWave Power Reactor (SPR), enabling customers to solve critical mixing and heating problems. SPR's operate worldwide in applications as diverse as increasing biogas yields to mixing petroleum drilling mud to more efficient homogenization and pasteurization of liquid eggs. The ShockWave Power Reactor allows customers to significantly decrease costs and increase profits, often with environmental and safety benefits.



ShockWave Power Reactor installed in biodiesel plant.



SPR Biodiesel Reactor