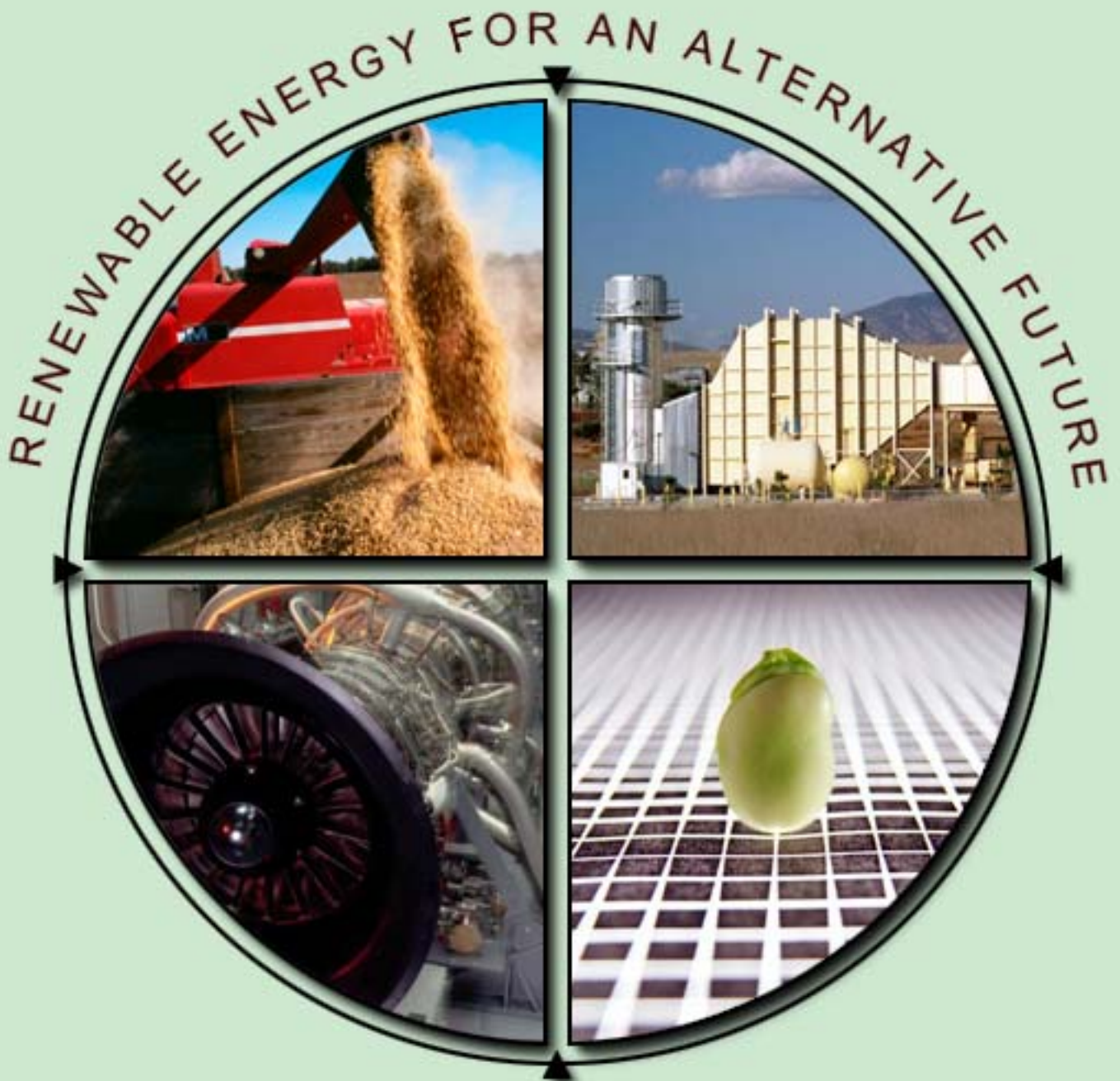




USSEC

U.S. Sustainable Energy Corp.



www.ussec.us

2007

THE POWER TO CHANGE THE WORLD



Revolutionary Energy Discovery and New Renewable Fuel Source Announced to World

Organic biomass research firm U.S. Sustainable Energy Corp. officially announces their patent pending new energy process for the creation of a revolutionary and permanent replacement to petroleum diesel fuel.

U.S. Sustainable Energy Corp. (USSEC) has announced the launch and availability of their new organic-based biofuel, discovered during research into the creation of alternative fuel sources from waste biomass. The new biofuel has been tested by independent labs, and is being heralded as the first 100% renewable and environmentally friendly fuel source able to serve as a permanent replacement to diesel fuel – with none of the negative traits associated with traditional biodiesel or other green energy alternatives.

The new biofuel demonstrates several properties superior to any other green fuel source available, including a heating value of 128,000 BTU per gallon. The USSE biofuel costs less than fifty cents per gallon to produce, and 1 bushel of soybeans creates a minimum of 5 gallons of biofuel - in comparison to 1.5 gallons for any other biodiesel on the market. The biofuel discovery is also superior to diesel and biodiesel for resistance to all weather conditions, remaining fluid and flowing at temperatures down to -90 degrees Fahrenheit.

USSEC's state-of-the art manufacturing technology uses a highly efficient process to breakdown vegetable feedstock and extract the most energy possible, so that nearly 100 percent of the feedstock results in three usable products: liquid biofuel, carbon ash, and biogas. The carbon ash is a rich natural fertilizer containing nitrogen, potash, and orthophosphate, and the biogas can provide 100 percent of the power needed to operate and maintain the USSEC facility.

The Power to Change the World

100% Renewable Energy Source

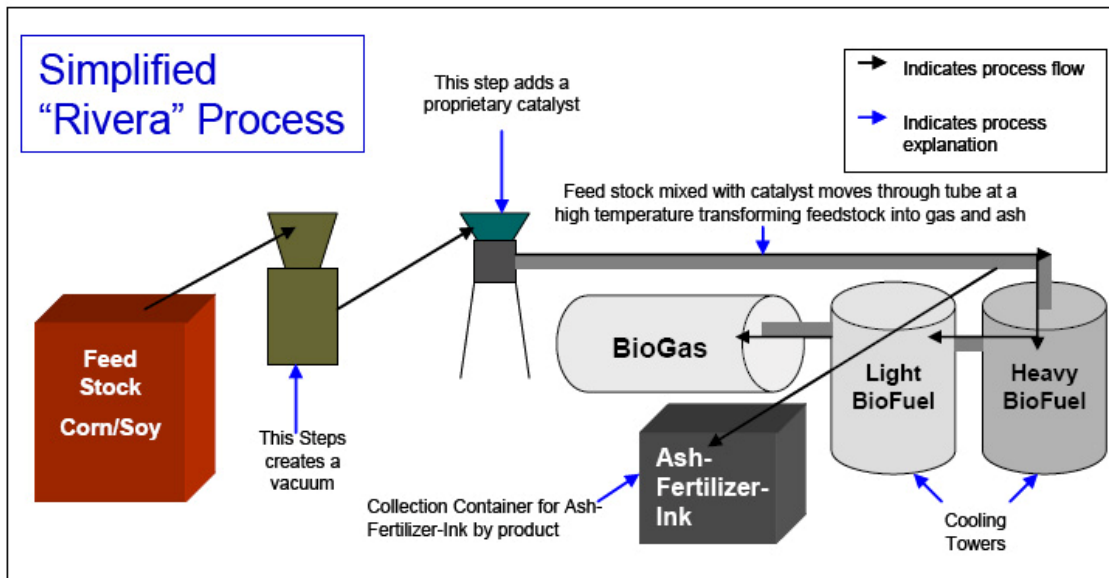
USSEC founder John Rivera discovered a method (referred to as the Rivera Process) for making a unique new biofuel with all the benefits of leading fuel sources and none of the traditional problems normally associated with biodiesel. In fact, U.S. Sustainable Energy's Biofuel has several properties that are superior to even petroleum diesel - as well as traditional biodiesel.

The Rivera Process produces up to three times more fuel per feedstock unit than any known bioprocess, and at significant lower cost than any competitive green or petroleum fuel product. In addition, the biofuel resulting from the process exhibits a higher thermal energy than any other biodiesel – on par with petroleum diesel - while producing less harmful emissions than the fossil fuels currently in use. U.S. Sustainable Energy utilizes this proprietary process to produce liquid and gaseous biofuel made from a range of natural feedstock such as soy, corn, etc.

The Rivera Process

The Rivera Process is a modified pyrolytic process with hydrolysis. Natural feed stocks and a proprietary catalyst are heated in a reactor to a relatively high temperature. This heating is typically performed below atmospheric pressure for a time sufficient to vaporize all oils and water from the feedstock and to allow the resultant chemical/mass transfer reactions to occur. The remaining solid is a substantially dry ash, wherein the vapor is extracted to form two biofuels via condensation while recovering lighter gases that are non-condensable at atmospheric pressure. The process is a “volume gain” process similar to catalytic cracking.

Unlike other biomass gasification processes, U.S. Sustainable Energy's proprietary and revolutionary process can operate at a variety of scale, converting even waste biomass into fuel and fertilizer. The fuel produced is more valuable than ethanol or methanol, and the process can easily convert biomass materials at efficiency unmatched by any competitive alternative. In addition, unlike virtually all other approaches for biomass to energy, which deplete soil nutrients, the Rivera Process restores and enhances soil mineral and carbon content. As a direct result of this revolutionary approach to integrated energy and fertilizer production from biomass, the Company's process effectively removes Greenhouse Gases from the atmosphere.



Source: Wall Street Resources

The Rivera Process was designed to yield an ash product as its primary commercial offering – with each bushel of beans creating 20.1 pounds of a quality organic-based fertilizer that can be sold as a commodity. The system was further created to almost completely subsidize the associated costs of producing its secondary offerings – unique biofuel and biogas byproducts.

USSEC’s revolutionary biofuel is totally unique in all its characteristics. It is a replacement for diesel fuel, biodiesel fuel, gasoline, and ethanol. Furthermore, U.S. Sustainable Energy is able to produce 5 gallons of biofuel per bushel at a cost of less than \$.50 per gallon. The gas product also possesses none of the characteristics of natural gas other than the gaseous form. This gaseous substance has a heating value of 1,811 BTU’s per cubic foot, and burns so cleanly that the flame is invisible to the human eye. For comparison, the heating value of natural gas is approximately 1,000 BTU’s per cubic foot.

The USSEC Biofuel

The USSEC liquid fuel has many unique properties that separate it from any other form of green energy on the market - including heating value, pour point, and cloud point. Heating value (or the heat of combustion), which is the amount of heat produced when the fuel is burned completely, is higher for its liquid biofuel than any competitive biodiesel. For example, the heating value of the USSEC biofuel is 128,000 BTU/gal. This is higher than the standard heating value for traditional biodiesel, which typically has a value around 117,000 BTU/gal and compares favorably to petroleum diesel which typically has a heating value of 129,000 BTU/gal. USSEC’s biofuel also presents no corrosive side attributes or long term storage issues.

In addition to the excellent heating value, the U.S. Sustainable Energy biofuel exhibits remarkable cold temperature physical properties. For example, the pour point of the U.S. Sustainable Energy biofuels, which is an indication of the lowest temperature at which the fuel can be pumped, is typically less than or equal to -90°F. In fact, USSEC's biofuel did not freeze even at -90°F, the limit of the pour point detector. For comparison, the pour point for petroleum based diesel is around -16°F; the typical pour point for soy bean based biodiesel is 30°F.

Like pour point, the U.S. Sustainable Energy liquid biofuel cloud point is lower than the end temperature limit of the typical cloud point measurement. At low temperatures, paraffin constituents in a fuel oil may precipitate as a wax forming a cloud. As a practical matter, cloud point is important since the wax formation can clog many fuel filters and render the engine useless. The cloud point is determined as the temperature at which a cloud of wax crystals first appears in the oil when it is cooled. The U.S. Sustainable Energy biofuels may have a cloud point less than or equal to -70°F, even less than or equal to -90°F for some formulations.

For comparison, cloud point for petroleum based diesel is about 15°F (without winter fuel conditioners), the typical cloud point for animal fat based biodiesel is 68°F while the cloud point for soy bean based biodiesel is around 35°F. Thus in addition to being a valuable fuel in its own right, the U.S. Sustainable Energy biofuel can be used as a supplement or blended with other biofuels and diesels to improve their cold weather performance.

The U.S. Sustainable Energy biofuel has a flash point between that of regular gasoline and petroleum diesel. The U.S. Sustainable Energy biodiesel exhibits a flash point ranging from 90°F to 95°F. While flash point can affect a fuel's performance in an engine, e.g., too low will cause the fuel to burn prematurely, causing decreased power and lowering fuel economies, it is primarily important from the viewpoint of safe fuel handling. For example, too low a flash point (high volatility) will cause the fuel to be a fire hazard, subject to flashing.

In addition to the foregoing properties, the U.S. Sustainable Energy liquid biofuel also has a viscosity (cSt at 50°C) ranging from 0.8 to 1.1. This range is lower than that of traditional biodiesels, which range from 1.9 to 6.0 cSt. The higher viscosity of traditional biodiesel has been known to result in gum formation on injectors, cylinder liners, etc. For this reason, it has been required to blend biodiesel with petro-diesels in an amount of up to 20% of biodiesel. The lower viscosity associated with the U.S. Sustainable Energy biofuel is a significant difference and advantage over all competitive biodiesels that suffer from gum-formation problems.

100% Sustainable and Renewable Fuel of the Future

High Heating Value - Extremely Low Cloud / Pour Points - Immunity to Cold - Low Viscosity Rate – No Corrosion

U.S. SUSTAINABLE ENERGY CORP

Natchez, MS - Bioenergy Plant



U.S. Sustainable Energy Corp.

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110 L.E. Berry Road
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Plant location includes a 35 acre 447,800 square foot facility. The facility includes full rail car infrastructure capable of supporting 100 rail cars daily through 1500 feet of linear rail siding to the building with 17 rail bays each having an 8' x 10' rail door at each level. The building includes four large truck bays, one truck well and ample office space.

The facility has access to working liquid loading docks for shipping biofuel via barge, with waterfront docks capable of serving six barges simultaneously for feedstock unloading, as well as outbound delivery of the company's organic-based fertilizer and other bulk solid products.

The facility is located near electrical substations and has a 115kv transmission line.

U.S. Sustainable Energy Corp. Completes Assembly of First Fuel Reactor at New Bioenergy Facility

NATCHEZ, MS - Jan 17, 2007 - U.S. Sustainable Energy Corp. announced today the completed assembly of their first official reactor system located at the new USSEC Bioenergy plant and fuel production facility in Natchez, Mississippi. Named FREEUS, the first reactor includes a number of refinements, component upgrades, and process improvements designed by management and consulting engineer firms since first introducing the prototype last year.

The new reactor is capable of producing 6000 gallons of biofuel daily, converting five gallons of quality fuel from every 1 bushel of soybean stock -- a conversion ratio three times more effective than the creation of any biodiesel. The USSEC biofuel also inherits none of the shortcomings of its competitors, features weather resistance up to -90 degrees Fahrenheit, a BTU rating similar to petroleum diesel, and the complete absence of any unwanted residue with no corrosive attributes.

USSEC's "Rivera Process" was featured this weekend on Channel 13, WHO TV, in Iowa, in a special news cast that presented how low cost energy production is being applied to the creation of ethanol. The video piece, located at www.ussec.us/vde1.html highlighted the impact and importance of USSEC's technology, along with an overview of how it will be applied to partnering company Diversified Ethanol.

U.S. Sustainable is planning an official commissioning ceremony for later this month to kick off fuel production, to include expected visits from government officials, foreign dignitaries, members of the press, and senior journalists from national trade magazines in the power, petroleum and environmental sectors. Special attendees will also include invited power brokers and prospective clients presenting contract opportunities.

The FREEUS reactor is the first of more than 200 planned reactor tubes scheduled for installation over the next 12 months at the Natchez facility, with further announcements on additional site locations for 2008 expected by March. FREEUS stands for "Free U.S.," a USSEC motto referring to the stranglehold that overseas countries have on the United States through our dependence on foreign oil sources, and a statement of USSEC's commitment to counter that reliance through its proprietary energy advancements.

An aerial photo guide and walk through highlighting the new USSEC plant and reactor is available online at www.ussec.photosite.com.



REACTOR "FREEUS"



For more information:

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