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***Diversified Energy Applies for Worldwide Intellectual Property Protection for Centia™  
Advanced Biorefinery Technology***

- Centia™ second-generation biorefinery process continues to make excellent technical progress under private funding and a government grant. Additional funding is pending.
- Process can accept multiple renewable oil inputs, produces fuels similar to petroleum, and is not based on techniques requiring large volumes of hydrogen.
- Positive patentability analysis received on patent claims during international examination performed at the European Patent Office.
- Diversified Energy® seeking to extend Centia™ intellectual property protection to at least 55 countries around the world.

**May 7, 2009** – Gilbert, AZ – Diversified Energy Corporation, an alternative and renewable energy technology development company, is seeking to extend its international patent protection for the Centia™ second-generation biorefinery technology. Based on technology exclusively licensed from North Carolina State University, the Centia™ process can use virtually any triglyceride feedstock (virgin oils, waste greases, animal fats, algal oils, among others) to produce fuels similar to petroleum-derived gasoline, diesel, and jet fuel. The fuels produced will closely match the chemical, kinetic, and combustion characteristics of petroleum, therefore allowing the fuels to be stored, distributed, and used in vehicle engines without infrastructure modifications. In fact, expectations are that cetane number (for diesel), octane number (for gasoline), and cold flow characteristics will be superior to petroleum fuels. The process is not based on traditional hydrotreating approaches and therefore results in a very low carbon footprint and the ability to economically build and operate distributed fuels production plants placed in close proximity to the sources of feedstock and fuel usage.

Since 2006 Diversified Energy and NC State University have funded and conducted research and development to validate the technology and scale-up the architecture. The technology is also currently advancing under a government grant. Lab scale demonstrations of each of the process steps have been successfully completed to showcase the technical and economic viability of the approach. Diversified Energy has recently submitted multiple proposals to the federal government and private investors for funding to continue to develop and optimize the architecture.

Diversified Energy recently received a positive patentability analysis from the European Patent Office, whose purpose is to assess the novelty, inventiveness, and industrial applicability of patents for the European market. As a result of this review and the excellent technical progress to date, Diversified Energy is planning to extend its international patent protection into

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Changing the Balance of Power

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approximately 55 countries around the world. These include some of the largest worldwide consumers of petroleum transportation fuels such as China, Japan, Germany, France, Canada, Russia, the UK, and India. Such actions will preserve the opportunity for Diversified Energy to build plants in these countries or sublicense the technology to international strategic partners. Jeff Hassannia, Vice President of Business Development, commented, “Based on the technical results generated to date, coupled with positive indications of the strength of our IP claims, we believe this to be one of the most attractive biorefinery technologies emerging in the marketplace. This has resulted in our desire to seek wide international protection for Centia™.”

#### **About Diversified Energy Corporation:**

Headquartered in Gilbert, Arizona (a suburb of Phoenix), Diversified Energy Corporation ([www.diversified-energy.com](http://www.diversified-energy.com)) is a privately held alternative and renewable energy company focused on maturing innovative technologies, developing commercial energy projects, and providing engineering services support to project developers. Principal areas of expertise include biofuels, gasification, and algal biomass production. Diversified Energy is an exclusive worldwide licensee of the Centia™ biorefinery technology.

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