

RENEWABLE HYDROCARBONS FOR THE CHEMICAL AND FUEL MARKETS

ABOUT THE COMPANY

Gevo® is a leading renewable chemicals and advanced biofuels company. We are developing biobased alternatives to petroleum-based products using a combination of synthetic biology and chemistry. We plan to produce isobutanol, a versatile platform chemical for the petrochemical and liquid fuel markets. Isobutanol has broad market applications as a solvent and a gasoline blendstock that can help refiners meet their renewable-fuel and clean-air obligations. It can also be further processed, using well-known chemical processes, into jet fuel and feedstocks for the production of synthetic rubber, plastics and polyesters. Gevo's proprietary technology was designed to retrofit existing ethanol plants of all kinds.

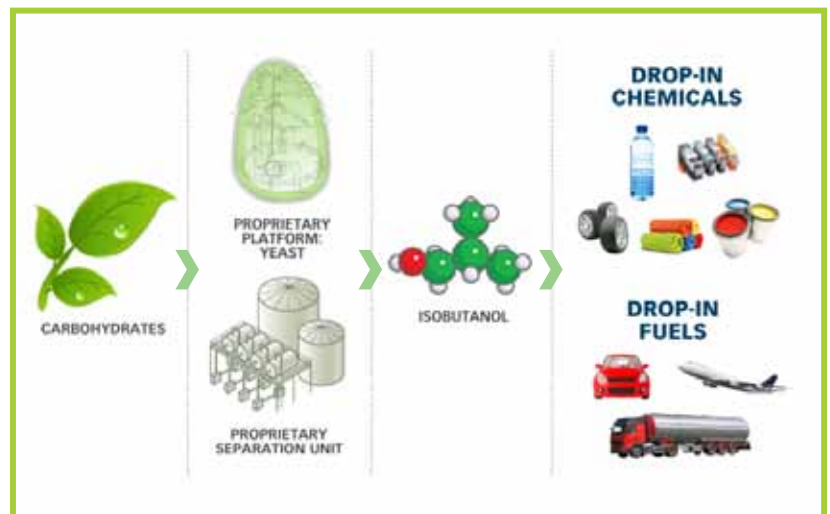
ISOBUTANOL: A PLATFORM BIOPRODUCT

Gevo's vision of a biobased economy is based on isobutanol, a four-carbon, naturally occurring alcohol that can be converted into hydrocarbon feedstocks (butenes and butanes) using well-known chemistry. Biobased isobutanol can connect existing ethanol production assets to those of the petrochemical industry. Because isobutanol can be made from petroleum or fermented from carbohydrates, it fits the infrastructure footprint of both industries. Isobutanol from fermentable sugars enables the replacement of fossil fuels with renewable raw materials in the production of many of the chemicals and liquid fuels used today. Isobutanol can be sold directly for use as a specialty chemical or as a value-added gasoline blendstock.

Chemical-grade isobutanol can be used as a solvent or as a chemical intermediate in numerous applications. As a gasoline blendstock, it has several advantages: It can be blended to 16 percent and beyond; low Reid Vapor Pressure (RVP) and other properties allow refiners more flexibility in meeting clean-air standards; and the EPA has approved Gevo's isobutanol as a gasoline blendstock with a 1.3 RIN value. Tests show isobutanol blends of gasoline work well in engines of all sizes and can be distributed and dispensed without any changes to the infrastructure. Additionally, through well-known chemistry, isobutanol can be converted into commonly used hydrocarbon "drop-in" feedstocks like isobutylene and butenes for the production of butyl rubber, plastics, polyester, isooctane, isooctene and jet fuel.

COMPANY HIGHLIGHTS:

- **Customer pipeline:** Growing list of supply and development agreements in place or in process including with Sasol, Mansfield Oil, U.S. Air Force, Lanxess, The Coca-Cola Company, United Airlines and others
- **Deployment status:** First 18 mgpy (50 kt) of production in development for mid-2012; additional 38 mgpy is planned to follow
- **Expansion timeline:** Plans to add 350 mgpy of new capacity by 2015
- **Hydrocarbon processing unit:** Online December 2011, near Houston, Texas
- **Overseas development:** Gevo technology is adaptable to all regions of the world



GEVO®, THE BIOFUELS INDUSTRY AND CORPORATE SOCIAL RESPONSIBILITY

Gevo's technology has been designed to fit into existing ethanol production facilities so that it can be scaled up rapidly and efficiently. Isobutanol, a four-carbon alcohol, represents a possible next phase for the ethanol industry's development. It is a drop-in biofuel with broad market opportunities in chemical applications and as an advanced biofuel. Gevo is a member of the Roundtable on Sustainable Biofuels (RSB). We are also studying the routes to the sustainable production and use of corn-derived starch. The company is an active member of the boards of a number of industry associations, including the Renewable Fuels Association (RFA), the Advanced Biofuels Association and the Biotechnology Industry Organization. Gevo is also an associate member of the American Fuel & Petrochemical Manufacturers and the Society of Independent Gasoline Marketers of America (SIGMA).

MANAGEMENT

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Christopher Ryan, Ph.D.
President and Chief
Operating Officer

Mark Smith
Chief Financial Officer

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Executive Vice President,
General Counsel and Secretary

David Glassner, Ph.D.
Executive Vice President of
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Brant DeMuth
Executive Vice President
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GEVO'S INTEGRATED FERMENTATION TECHNOLOGY® (GIFT®)

GIFT® is Gevo's proprietary technology platform, consisting of two innovations: a robust fermentation biocatalyst and a unique separation unit. GIFT has been specifically designed to enable a relatively rapid and low-cost retrofit of existing ethanol plants. The biocatalyst we developed is a robust yeast designed to perform with the same process parameters of an ethanol producer. Unlike other biobased biocatalysts, Gevo's produces only isobutanol. The separation unit allows us to continuously separate out isobutanol during fermentation. This reduces energy consumption and improves process efficiency.

