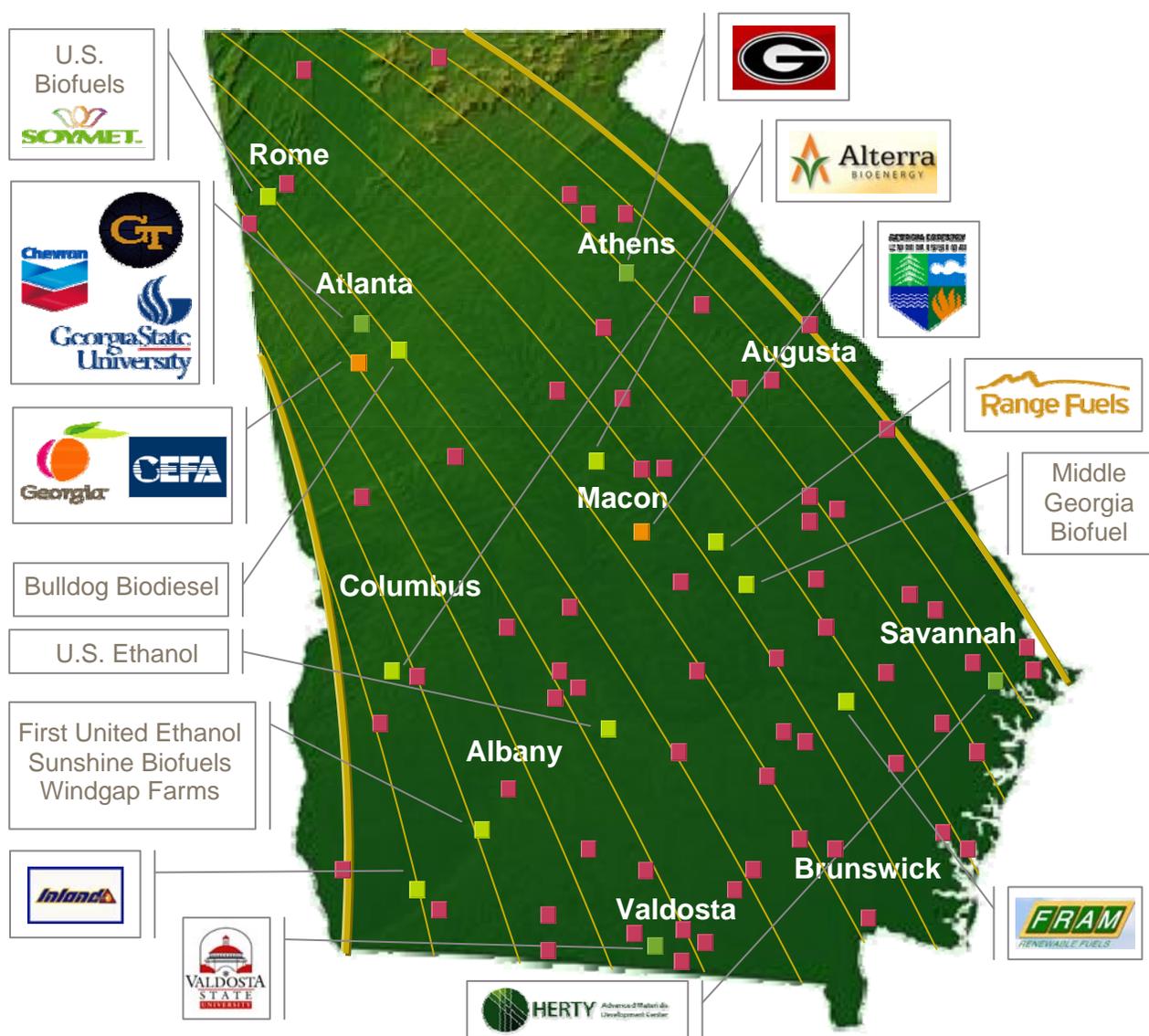


The Bioenergy Corridor

Fact Sheet

The Nation's Path to Renewable Energy

The Bioenergy Corridor runs throughout Georgia from Atlanta and Rome to the north, Columbus to the west, Valdosta and Brunswick to the south and Savannah and Augusta to the east. The Bioenergy Corridor's northern region encompasses research and development, academic, and public and private partnerships. Manufacturing facilities are primarily situated in the mid-to-south region, where a majority of commercial pine forests and current commercial forestry infrastructure are located.



- R&D/Public-Private Partnerships
- Biomass Energy-Producing Forest Industry Mills
- Bioenergy Production Facilities
- State Partners

The Bioenergy Corridor .../Add 1

TYPES OF BIOENERGY IN GEORGIA

Biodiesel

Biodiesel is a biodegradable, non-toxic alternative fuel produced from natural renewable sources such as new and used vegetable oils and animal fats.

Biodiesel Feedstocks

- Soybean oil, peanut oil, sunflower seed oil, canola oil, chicken fat and waste grease

Georgia Biodiesel Factories

- **U.S. Biofuels**, Rome, Ga.
- **Soymet**, Rome, Ga.
- **Middle Georgia Biofuels**, Dublin, Ga.
- **Sunshine Biofuels**, Camilla, Ga.
- **Bulldog Biodiesel**, Ellenwood, Ga.
- **Inland Oil**, Bainbridge, Ga.
- Sept 2007 – **Alterra Biofuels**, Gordon, Ga.
- Dec 2007 – **Alterra Biofuels**, Plains, Ga.

Ethanol from Agricultural Crops

Ethanol is a clean-burning, high-octane fuel that is produced from renewable sources. In its most basic form, ethanol is grain alcohol produced from plant material. Ethanol can be blended with gasoline to create E85, a blend of 85 percent ethanol and 15 percent gasoline. Vehicles that run on E85 are called Flexible Fuel Vehicles (FFVs) and are offered by several vehicle manufacturers. Standard gasoline engines burn E10, which contains only 10 percent ethanol.

Ethanol Feedstocks

- Corn, sugar cane, sugar beets and sweet potatoes

Georgia Ethanol Factories

- **Windgap Farms**, Baconton, Ga.
- **U.S. Ethanol**, Cordele, Ga.
- **First United Ethanol**, Camilla, Ga.

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The Bioenergy Corridor .../Add 2

Cellulosic Ethanol

Cellulosic ethanol can be produced from a variety of non-food products that contain cellulose. Great environmental benefits are realized when cellulosic ethanol is used in place of gasoline. Additionally, Georgia citizens will realize economic benefit by using ethanol from wood and agricultural residues instead of imported gasoline. Georgia has almost 20 million dry tons of timber harvesting residues and unmerchantable timber available annually, and Georgia timberland owners are growing more wood each year than is being removed from the forests. This tremendous renewable resource of growing timber ensures a long-term and continuous supply.

Cellulosic Ethanol Feedstocks

- Switchgrass, wood, hay, plants and garbage

Cellulosic Ethanol Factories

- **Range Fuels**, Soperton, Ga., will be the nation's first cellulosic ethanol plant.

GEORGIA'S BIOENERGY ACCOMPLISHMENTS

- The State Energy Office completed a comprehensive state energy plan.
- EPD expedites the permitting process for biofuels facilities (90 days or less).
- Georgia's "one-stop shop" brings together representatives of local, state and federal government to meet with companies and to address their questions about investing in Georgia.
- Legislation passed to reduce sales taxes on ethanol and biodiesel companies.
- The state awarded grants that have moved the industry forward. An example of this is with Savannah-based Herty Advanced Materials Development Center, a world leader in cellulose processing, which recently approved a major \$1 million investment of state funds to expand biofuel development facilities in Georgia in an effort to reduce risk and increase speed-to-market operations.
- Georgia's colleges gained global recognition for their researching efforts.
- In November 2007, Range Fuels broke ground in Soperton, Ga. for the nation's first commercially-operated cellulosic ethanol plant. During Range Fuels groundbreaking, Governor Sonny Perdue proclaimed Georgia as The Bioenergy Corridor for the nation.
- Georgia is incubating companies that are working on alternative fuel technologies.
- The State fleet has over 750 alternatively-fueled vehicles.

Georgia is progressive and plans to continue leading the way to unique bioenergy solutions. The state has the human and technical capital to succeed; the deep understanding of future energy needs and environmental benefits to residents; a pro-business climate that encourages entrepreneurship in bioenergy; and the support of state officials, producers and its residents.

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