



# Florida

## Biobased Fuels, Power, and Products State Fact Sheet

### Growing a Cleaner, Stronger Economy in Florida

Florida has an estimated capacity of 1,539 MW of electricity from biomass resources. The state is performing several projects to increase biomass usage for electricity. Programs like the Dairy Unit Biomass Demonstration Project at a dairy farm in Hague, Florida, show how methane gas can contribute to energy conservation, while also improving the overall environment. Florida is also home to eucalyptus tree energy crops planted for the sake of clean electricity production.

Florida was home to over 13,000 alternative fuel vehicles in 2000. This number is bound to grow due to several initiatives going on in the state. The U.S. Department of Energy State Energy Program awarded Florida over \$50,000 to research the implementation of a biodiesel blend in the Miami International Airport airside power equipment. DOE also awarded the state a State Energy Program Special Award in 2001 totaling \$30,000 for help in building local markets for alternative fuels and vehicles. A federal tax break went into effect in February of 2002 that promotes the use of biodiesel.

### Biobased Fuels, Power, and Products in Florida

Bio-Industry	Sales (\$1,000)	Employees	Production	Number of Facilities
Power	463,368	5,311	1,539 MW	65
Fuels	3,400	12	14 Mgy	3
Products	90,642	93	- -	6

- - Comparative capacity data not available among products

#### Federal R&D Partners

Agricultural Research Service  
(Winter Haven, Fort Lauderdale)

Airforce Research Laboratory  
(Tyndall Air Force Base)

Florida Agricultural and Mechanical  
University  
(Tallahassee)

Kennedy Space Center  
(Kennedy Space Center)

University of Florida  
(Gainesville)

#### Biomass Resources

**Corn:** 65,000 acres planted  
2,262,000 bushels produced

**Soybeans:** 10,000 acres planted  
261,000 bushels produced

**Wheat:** 10,000 acres planted  
369,000 bushels produced

**CRP:** 83,847 acres enrolled

**MSW:** 24,800,000 tons generated

**Forest Land:** 16,285,000 acres

**Poultry:** 126,056,000 head

**Livestock:** 1,815,000 head



## Federally Funded Biomass RD&D in Florida

Select a project  
title for details

For additional information on RD&D Projects, please click on the project title.

### National Aeronautics & Space Administration

- Robot for Positioning Sensors in a Plant-Growth Chamber

### U.S. Department of Defense

- Green Chemistry: Biocatalysis and Biodegradation of Air Force Materials
- Biodegradation and Biocatalysis

### U.S. Department of Agriculture

- Genetic Engineering of *Zymomonas mobilis* for Fuel Ethanol Production
- Enhanced Utilization of Pectin and Galacturonic Acid Derivatives
- Engineering Bacteria for Fuel Ethanol Production
- Food Technology Research Support to Florida Agriculture Industries in Value Adding Enterprises
- Integrated Pest Management as an Alternative for Control of Soilborne Pests of Vegetable Crops
- Byproduct Feedstuffs: Rumen Degradability of Carbohydrate and Fat Fractions and Effects on Feed Efficiency
- Improved Xylose Utilization for Ethanol Fuel Production by Ethanologenic *Escherichia coli*
- Anaerobic Decomposition of Energy Crops, Wastes, and Metals
- Nitrate Leaching Under Irrigated and Rainfed Corn Production in North Florida
- The Development of Immunodiagnostic Assays for the Detection of Rickettsial and Related Infections
- Development and Application of Comprehensive Agricultural Ecosystem Models
- Modeling Nutrient Uptake by Forest Trees of Florida
- Short Rotation Woody Crops for Florida
- Carbon, Water, and Energy Fluxes for Forested Ecosystems in Florida
- Genetic Engineering of Osmoprotectant Levels to Enhance Stress Tolerance in Citrus and Other Crops
- Forest Productivity, Health and Sustainability
- Diversity and Interactions of Beneficial Bacteria and Fungi in the Rhizosphere
- Biological Control for Sustainable Management of Aquatic Weeds and Other Invasive Plants

### U.S. Department of Energy

- Quantifying and Predicting Wood Quality of Loblolly and Slash Pine Under Intensive Forest Management
- Second Generation Ethanologens

For additional information on state activities, please contact:

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Data sources and the data collection methodology for the "Biobased Fuels, Power, and Products State Profiles" are available at <http://www.bioproducts-bioenergy.gov/>.