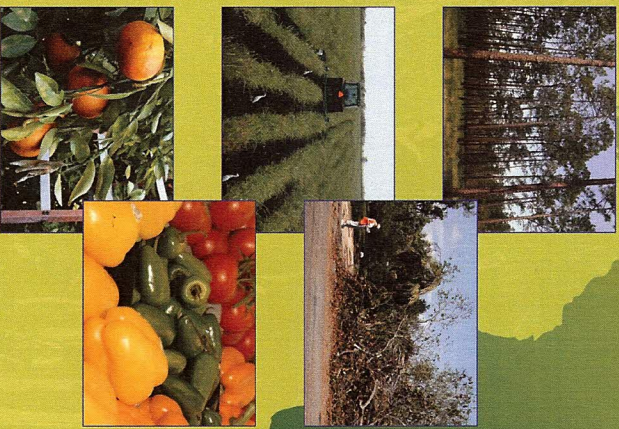


BIOMASS TO ENERGY

Florida's Bioenergy Feedstocks

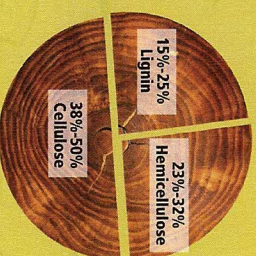
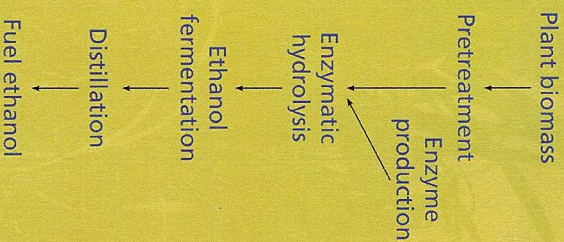


Florida is #1 state in biomass production

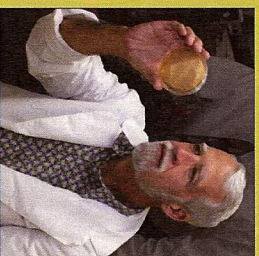
- 15 million acres of forest land
- 10 million acres of farm land
- 3 million acres of pasture land

Cellulosic Ethanol Process

Process to Produce Ethanol



Cellulose and hemicellulose in biomass can be converted to ethanol



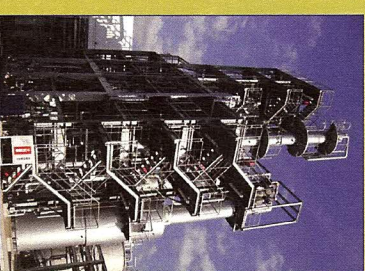
Bacterial enzymes are used in the process

Cellulosic Ethanol

- Over 20 patents
- 1 spin-off company—Verenium
- Center for Renewable Fuels
- Center of Excellence Biofuel Pilot Plant

Research and Extension Programs

- Developing energy crops
- Process research and development
- Environmental assessment
- Economics and policy
- Energy conservation



Future biorefineries in Florida can produce ethanol and other biofuels

Benefits to Florida

- Economic development
- Improving the environment
- Energy independence