
Southern Bioenergy Roadmap

Southern Technology Council

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Southeast Agriculture & Forestry Energy Resources Alliance (SAFER)

Providing strategic leadership to the agricultural and forestry sectors in advancing renewable energy initiatives in the Southeast.

- ✓ Better policy
- ✓ Targeted research
- ✓ Efficient commercialization
- ✓ Outreach & education



Southern Bioenergy Roadmap

Identification of the strengths & weaknesses of the bioenergy industry in the South

- ✓ Resources
- ✓ Industry
- ✓ Policy
- ✓ Research

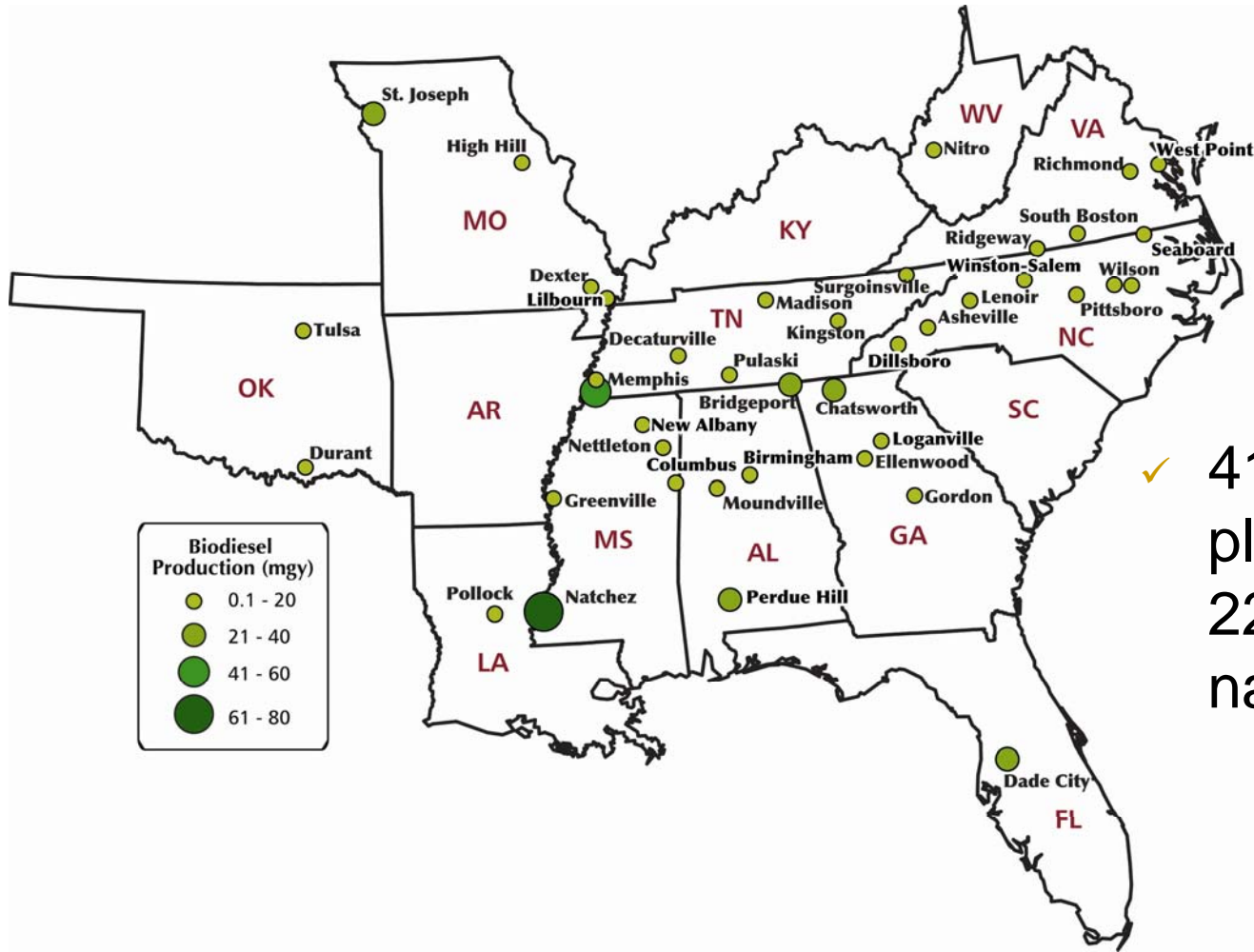


Bioenergy in the South

- ✓ 46% of the nation's biomass-fueled electricity was generated in the South in 2007
- ✓ Biopower production created \$7.3 billion in company revenues, \$4.3 billion in labor income, and over 110,000 job in the region
- ✓ All Southern states have developed bioenergy policy initiatives such as incentives, grants, renewable standards, etc.



Bioenergy in the South



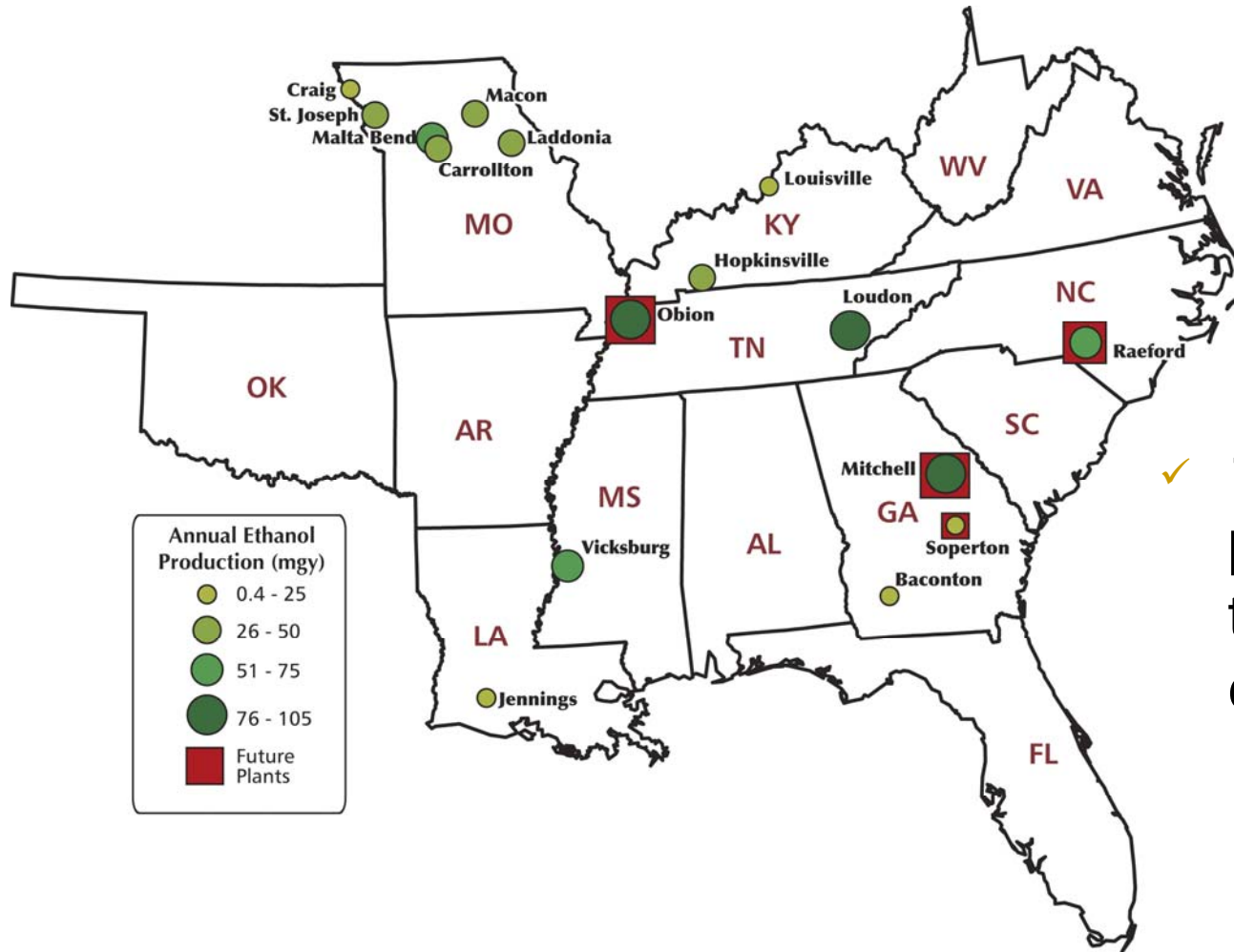
✓ 41 biodiesel plants produce 22% of the nation's biodiesel

National Biodiesel Board.

http://www.biodiesel.org/buyingbiodiesel/producers_marketers/



Bioenergy in the South



✓ 12 ethanol plants produce 6.4% of the nation's ethanol

Renewable Fuel Association.

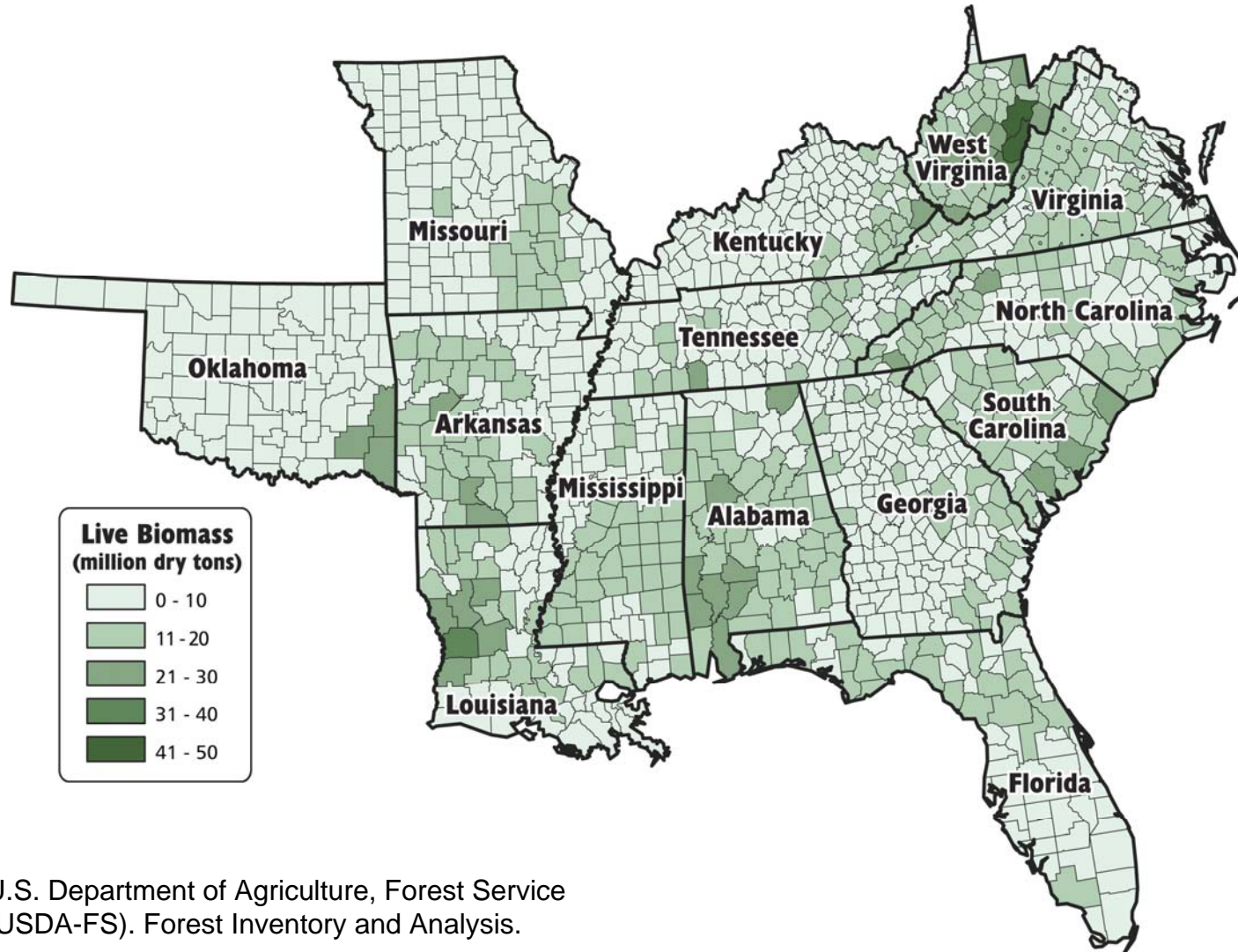
[http://www.ethanolrfa.org/industry/locations/.](http://www.ethanolrfa.org/industry/locations/)



Southern strengths

- ✓ Abundance of feedstock:
 - 44 percent of the nation's energy in forest resources
 - 31 percent crop, mill, and urban residues
 - 29 percent of biogas
 - 19 percent of biofuel crops

Live biomass in the South, 2002



U.S. Department of Agriculture, Forest Service (USDA-FS). Forest Inventory and Analysis.

Southern strengths

- ✓ 29 percent (24) of the nation's wood pellet manufacturers
- ✓ 13 states provide incentives for bioenergy development
- ✓ Research is occurring in every Southern state:
 - Arborgen (SC)
 - *B3I: Biofuels, Biopower, and Biomaterials Initiative (GA)*
 - BioEnergy Science Center (TN)
 - Center for Bioenergy & Bioproducts (AL)
 - Oklahoma Bioenergy Center



Southern weaknesses

- ✓ Only 6.4% of the nation's ethanol is produced in the South, while it consumes 33% of the nation's E85
 - ✓ Through stakeholder meetings and a written survey, Southern bioenergy experts identified barriers to the bioenergy industry as:
 - Cost and availability of feedstocks
 - Lack of public policy
 - Lack of public understanding
-

Recommendations

- ✓ Improve the supply, demand and regulatory environment for biopower and biofuels industries in the South
- ✓ Invest in the development of commercial biopower and biofuels facilities in the South
- ✓ Educate Southern leaders and the public on the economic and environmental opportunities of biopower and biofuels

Potential action items

- ✓ Work with state Farm Bureau to increase public awareness regarding bioenergy
- ✓ Encourage each state to do in-depth asset assessments in their state that looks at resource, economics, sustainability, regulatory, and market issues particular to their state
- ✓ Develop a revolving loan fund for capital investments in biofuel and biopower projects
- ✓ Explore feasibility of feed-in tariffs for renewable electricity



Full report will be available on February 16th at:

www.saferalliance.net/projects/bioenergy_roadmap.pdf

