








# Proposed and Existing Woody Biomass Facilities in the Southeastern US

## ABOUT THE MAP: Proposed and Existing Woody Biomass Facilities in the Southeastern US

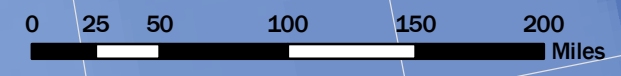
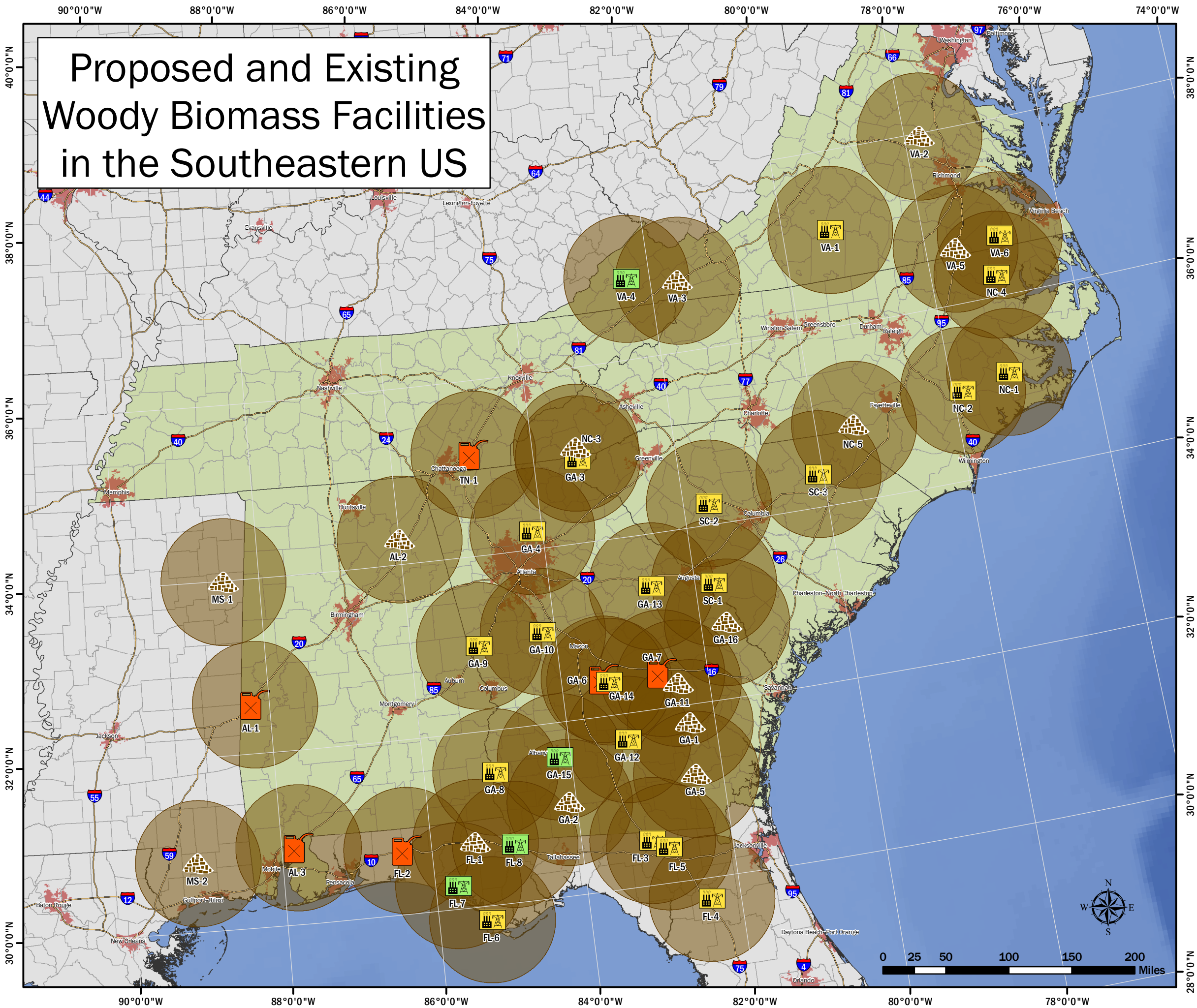
The Proposed and Existing Woody Biomass Facilities in the Southeast map was created based primarily on third party data as a list of proposed and existing woody biomass facilities known to SELC. The list was compiled primarily by collecting press releases about woody biomass facility proposals. Additional data was collected through internet based research of the companies announcing woody biomass facility proposals, forestry agencies, biomass groups, and state environmental permitting divisions. The map is thought to be accurate, but may still contain errors since it is derived from varied sources. The brown circle surrounding each unit has a 50 mile radius, representative of the sourcing area where wood feedstock will be gathered for each facility. These circles are meant to be illustrative of the potential forestry impacts where many facilities are proposed close together. Some facilities propose a larger sourcing area, up to 100 miles. Actual sourcing areas would also be shaped based on road networks making them more irregular than the illustrative circles shown here, however a similar comprehensive image would emerge.

### Legend

-  Cellulosic Ethanol (CE) - Liquid ethanol processed from woody biomass
-  Electric Generating Unit (EGU) - Facility that converts woody biomass into electricity for consumption (>20 MW per year)
-  Coal-Fired EGU Retrofitted for Biomass - These can burn coal or woody biomass feedstock.
-  Wood Pellets (WP) - Raw wood condensed into small uniform pieces with a low moisture content for a high energy yield. (>45,000 dry tons/year)
-  Estimated Sourcing Area (50 mile radius)
-  Urban Areas
-  Interstates

Primary Data Sources:  
Dartnell, Devon, Georgia Forestry Commission, "The Forest Biomass Industry in the Southeast" (December 9, 2008);  
GIS Data Sources: ESRI (2008); NOAA (2003)

Map created April 9, 2010.  
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Map Id	Plant Name	Company (Subsidiary of)	Annual Output	Power Unit	Operation Status	City	County	ST	Feedstock	Source Area (mi.)	Year Online	Permit Status	LAT	LONG	Location Accuracy
AL-1	Livingston Plant	Gulf Coast Energy	100,000,000	CE (gal/yr)	Existing	Livingston	Sumter	AL	timber industry waste	50-75	2008		32.561	-88.197	Plant Site
AL-2	Lee Energy Solutions Plant	Lee Energy Solutions	116,000	WP (tn/yr)	Existing	Crossville	DeKalb	AL	Wood chips, slash		2009		34.288	-85.994	City
AL-3	Bay Minette Plant	Cello Energy	20,000,000	CE (gal/yr)	Existing	Bay Minette	North Baldwin	AL	MSW, wood waste		2009		30.883	-87.773	City
FL-1	Green Circle	Green Circle BioEnergy Inc. (JCE Group AB)	560,000	WP	Existing	Cottondale	Jackson	FL	southern yellow pine "grown in sustainable plantation-style forests"		2008	Permit	30.742	-85.411	Plant Site
FL-2	Mossy Head Plant	Gulf Coast Energy	25,000,000	CE (gal/yr)	Proposed	Mossy Head*	Walton	FL	wood waste		2009		30.736	-86.338	City
FL-3	Adage Hamilton County	ADAGE (Areva/Duke)	56	MW/yr	Proposed	Jasper/White Springs	Hamilton	FL	clean untreated lumber; tree stumps; tree limbs; slash; wood residue; bark; sawdust; sander dust; wood chips; scraps; slabs; millings; shavings; pallets; processed pellets;		2012	Draft Issued	30.515	-83.061	Plant Site
FL-4	Gainesville Renewable Energy Center	American Renewables (Power purchased by Gainesville Regional Utilities (GRU))	100	MW/yr	Proposed	Gainesville	Alachua	FL	Forestry waste material: paper pulp, chip, saw timber, also urban wood waste	75	2013	Application Received	29.759	-82.388	Plant Site
FL-5	Hamilton County Renewable Energy Center	American Renewables	100	MW/yr	Proposed	Jasper/White Springs	Hamilton	FL	Forest residue, wood processing residue, clean municipal wood waste	75	2014	Anticipated	30.416	-82.852	Street
FL-6	Northwest Florida Renewable Energy Center	Biomass Gas & Electric (BG&E)	44	MW/yr	Proposed	Port St. Joe	Gulf	FL	untreated woody biomass: primarily wood chips, also agricultural crops/byproducts, logging and lumber mill residues (MSW prohibited)		2011-12	Application Received	29.837	-85.300	Plant Site
FL-7	Lansing Smith (CFPP retrofit)	Gulf Power (Southern Company)	unknown	MW/yr*	Proposed	Panama City Beach	Bay	FL	Wood chips				30.272	-85.699	Plant Site
FL-8	Scholz Plant (CFPP Retrofit)	Gulf Power (Southern Company)	74	MW/yr#	Proposed	Sneads	Jackson	FL					30.669	-84.887	Plant Site
GA-1	Appling County Pellets, LLC	FRAM Renewable Fuels	145,000	WP	Existing	Baxley	Appling	GA	forestry waste		2008	Permit	31.793	-82.339	City
GA-2	Woodlands Alternative Fuels	World Wood Products (Sweden), Woodland Resources of Thomasville, and private FL investor	300,000	WP (tn/yr)^	Existing	Meigs	Thomas	GA	sawmill waste, pulpwood		2009		31.072	-84.094	Plant Site
GA-3	Multitrade Rabun Gap	Multitrade Biomass Holdings, LLC (Leaf Clean Energy)	20	MW/yr	Proposed	Rabun Gap	Rabun	GA	forestry waste		2009	Permit	34.957	-83.378	Plant Site
GA-4	Atlanta, Georgia Bio-Energy Park (AGBEP)	Biomass Gas & Electric (BG&E)	50	MW/yr	Proposed	Cummings (Atlanta)	Forsyth	GA	untreated wood waste, untreated sawmill residue, and herbaceous agricultural waste		2009	Permit Issued	34.207	-84.139	City
GA-5	AG Waycross Fuel Pellets	American Green Holdings	135,000	WP	Proposed	Waycross	Ware	GA	wood waste		2009	Permit	31.197	-82.358	City
GA-6	Bleckley County Biorefinery	Allied Energy Services, LLC. (Cobb Energy Inc./Integrated Environmental Technologies LLC)	20,000,000	CE (gal/yr)	Proposed		Bleckley	GA	wood waste, municipal solid waste		2009		32.423	-83.423	County
GA-7	Soperton Plant	Range Fuels	100,000,000	CE (gal/yr)	Proposed	Soperton	Treutlen	GA	forestry and milling waste; wood, grasses, and corn stover		2010	Permit	32.402	-82.624	Plant Site
GA-8	Yellow Pine Electrical Generating Plant	Yellow Pine Energy Company, LLC (Summit Energy Partners, LLC, Merrimac Assoc., Inc., Morris Energy	110	MW/yr	Proposed	Ft. Gaines	Clay	GA	timber harvesting waste, pre-commercial thinning of forest plantation stands, harvesting non-commercial, dead or deformed species for fuel purposes and land clearing activities.		2010	Permit Issued	31.521	-85.037	Plant Site
GA-9	Greenway Renewable Power	Rollcast Energy	50	MW/yr	Proposed	LaGrange	Trout	GA	timber waste	100	2010	Permit	32.979	-85.060	Street
GA-10	Piedmont Green Power	Rollcast Energy	50	MW/yr	Existing	Barnesville	Lamar	GA	timber waste		2011	Permit Issued	33.051	-84.168	Street
GA-11	Georgia Biomass, LLC	Georgia Biomass, LLC (RWE Innogy[Germany]/BMC[Sweden])	750,000	WP (tn/yr)^	Proposed	Waycross	Ware	GA			2011		32.261	-82.421	City
GA-12	Fitzgerald Plant	Fitzgerald Renewable Energy, LLC (Decker Energy International, Inc.)	55	MW/yr	Proposed	Fitzgerald	Ben Hill	GA	waste wood	50	2012	Permit Issued	31.702	-83.201	Plant Site
GA-13	Oglethorpe Power	Oglethorpe Power	100	MW/yr	Proposed	Warrenton	Warren	GA	Whole tree chips, chipped pulpwood, sawmill/forestry waste.		2014		33.405	-82.601	Street
GA-14	Allied Energy	Allied Energy Serices, LLC.	50	MW/yr	Proposed	Cochran	Bleckley	GA			?		32.388	-83.351	City
GA-15	Mitchell Plant (CFPP retrofit)	Georgia Power (Southern Company)	96	MW/yr*	Proposed	Albany	Dougherty	GA	forestry waste	100	2012*		31.605	-84.145	Plant Site
GA-16	Briar Creek Pellets	Briar Creek Wood Fibers, LLC.	75,000	WP (tn/yr)^	Existing	Sylvania	Screven	GA	Yellow Pine				32.870	-81.643	Plant Site
MS-1	CKS Energy		45,000	WP	Existing	Amory	Monroe	MS	wood waste, wood residue		2007	Permit	33.988	-88.495	Plant Site
MS-2	Piney Wood Pellets	Tomorrow's Energy, LLC	50,000	WP (tn/yr)	Existing	Wiggins	Stone	MS	recycled forest waste material supplemented with green wood as needed		2009	Permit	30.792	-89.129	Plant Site
NC-1	Craven County Wood Energy	Decker Energy International, Inc.	48	MW/yr	Existing	New Bern	Craven	NC	waste wood		1990	Permit	35.130	-77.168	Plant Site
NC-2	Coastal Carolina Clean Power	Carlyle/Riverstone Renewable Energy Infrastructure Fund, Topaz Power Management, LP	32	MW/yr	Existing	Kenansville	Duplin	NC	construction debris and other wood waste	50	2008	Application Received	35.022	-77.858	Plant Site
NC-3	Carolina Wood Pellets	Carolina Wood Pellets, LLC	68,000	WP (tn/yr)	Existing	Otto	Macon	NC	waste wood from manufacturing, logging , and construction	50	2009		35.090	-83.382	Plant Site
NC-4	Hertford Renewable Energy	Hertford Renewable Energy, LLC. (Decker Energy International, Inc.)	60	MW/yr	Proposed	Millenium	Hertford	NC	"locally produced wood waste fuel"	50	2012	Draft Issued	36.247	-77.071	Plant Site
NC-5	Nature's Earth Pellet Energy		120,000	WP (tn/yr)	Proposed	Laurinburg	Scotland	NC				Permit	34.864	-79.456	Plant Site
SC-1	Savannah River Site	DOE	20	MW/yr	Proposed	Aiken	Aiken	SC	primarily forestry residues		2011	FONSI	33.341	-81.738	Plant Site
SC-2	Loblolly Green Power	Rollcast Energy	50	MW/yr	Proposed	Newberry	Newberry	SC	urban wood, standing residue, thinning, logging residue	65	2012	Draft Issued	34.244	-81.643	Plant Site
SC-3	Peregrine Energy		50	MW/yr	Proposed	Hartsville	Darlington	SC	thinnings, forestry waste		2012	Anticipated	34.377	-80.066	Plant Site
TN-1	Cleveland Plant	Gulf Coast Energy	100,000,000	CE (gal/yr)	Proposed	Cleveland	Bradley	TN	Wood Waste			Application Received	35.158	-84.830	Plant Site
VA-1	Pittsylvania Power Station	Dominon Energy	79	MW/yr	Existing	Hurt	Pittsylvania	VA	Wood chips from sawmills, logging, and paper mills; 90+% is waste wood that would otherwise be landfilled/burned	100	1994	Permit Issued	37.101	-79.305	Plant Site
VA-2	WoodFuels VA Plant	WoodFuels VA, LLC (International Wood Fuels/Ensign-Bickford)	100,000	WP (tn/yr)	Existing	Bumpass	Louisa	VA	Not from landfill source or construction debris; uses whole logs from sustainable forestry.	200	2008		37.962	-77.779	Plant Site
VA-3	AWF Marion Plant	American Wood Fibers	unknown	WP	Existing	Marion	Smyth	VA	post-industrial wood waste (scrap wood, shavings, saw dust)		2009		36.812	-81.605	Street
VA-4	Virginia City Hybrid Energy Center	Dominion Power	117*	MW/yr*	Proposed	St. Paul	Wise	VA	Wood waste (i.e. chips)		2012	Permit	36.919	-82.335	Plant Site
VA-5	Wood Fuel Developers, LLC	Industrial TurnAround Corp.	up to 300,000	WP	Proposed		Greensville	VA					36.628	-77.574	County
VA-6	Franklin IP Site Plant	Terry McAuliffe and investors	unknown	MW/yr	Proposed	Franklin	Isle of Wight	VA					36.678	-76.913	Plant Site

\*\*Last Updated on 04/15/2010\*\*

Power Unit Column: \* =CFPP Retrofit, # =Converted from green tons figure, ^ =Exports to Europe