








Proposed and Existing Woody Biomass Facilities in the Southeastern US

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

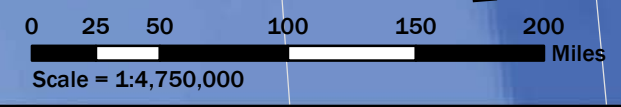
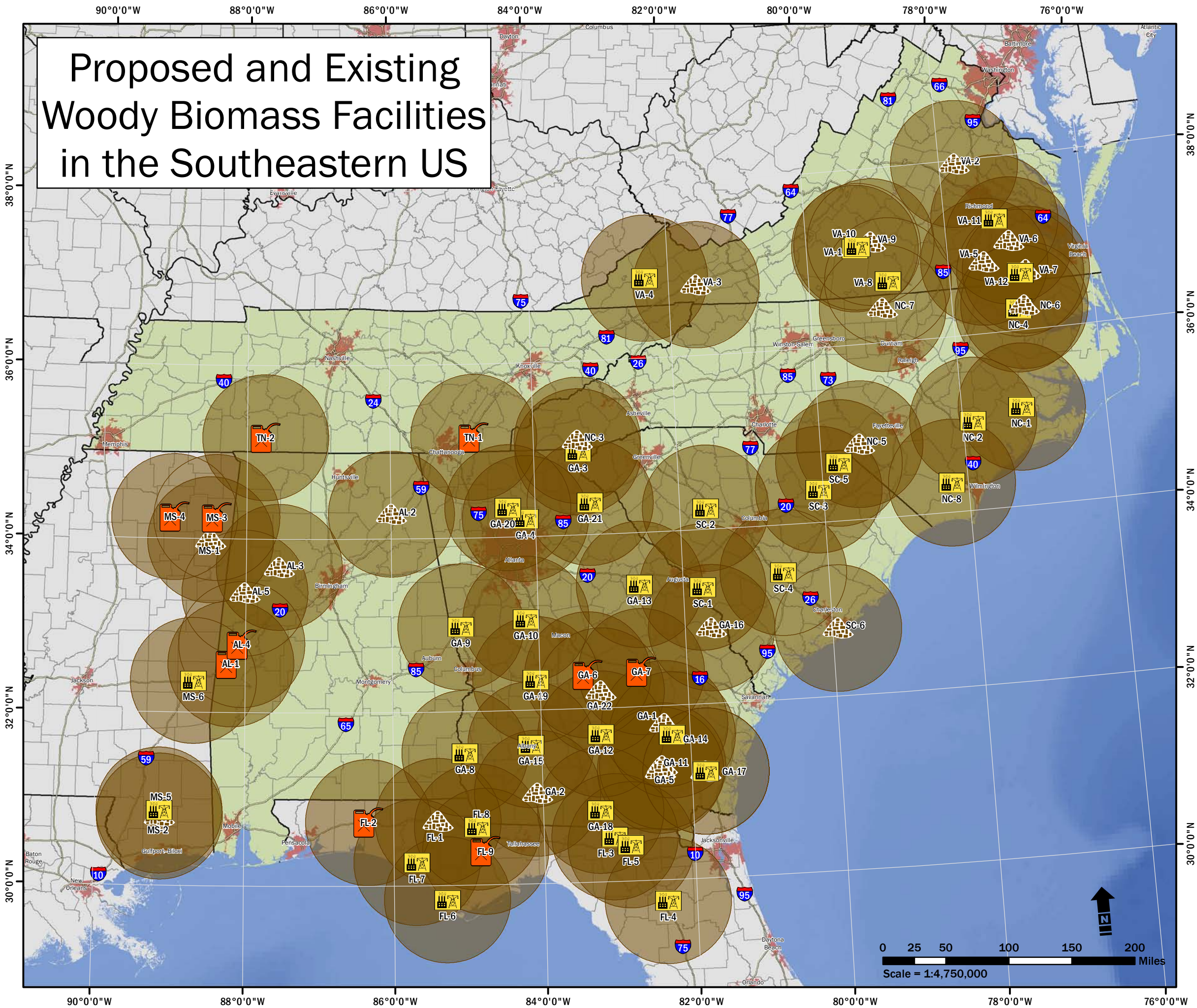
The Proposed and Existing Woody Biomass Facilities in the Southeast map was created based primarily on third party data as a list of proposed and existing woody biomass facilities known to SELC. The list was compiled primarily by collecting press releases about woody biomass facility proposals. Additional 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 updated April 27, 2011
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Proposed and Existing Woody Biomass Facilities of the Southeastern United States

Map Id	Plant Name	Permit	Sources
AL-1	Livingston Plant		gulfcoastenergy.net, The Birmingham News, Wood Bio Energy News
AL-2	Lee Energy Solutions Plant	Filed AQ permit with ADEM July 2009	The Sand Mountain Reporter, The Weekly Post, The Huntsville Times, Forisk Consulting (Wood BioEnergy South)
AL-3	West Alabama Plant		RISI Wood Biomass Markets
AL-4	Western Alabama Biorefinery		USDA, Coskata.com, Domestic Fuel.com, MyFoxAl.com, news.thomasnet.com
AL-5	Nature's Earth Pellet Energy		Department of Forestry Products MSU; Plant Biotechnology for Sustainable Production of Energy and Co-products (Chapter 7)
FL-1	Green Circle	http://www.dep.state.fl.us/air/emission/aces/ACES_facility.asp?txtFacID=8601	greencirclebio.com, Green Circle Bio Brochure; treehugger.com
FL-2	Mossy Head Plant	None on file; FDEP anticipating project	gulfcoastenergy.net, Ethanol Producer Magazine, Florida-Agriculture.com
FL-3	Adage Hamilton County	http://www.dep.state.fl.us/Air/emission/bioenergy/adage.htm	adagepower.com, Florida DEP, Jacksonville Business Journal, Suwannee Democrat,
FL-4	Gainesville Renewable Energy Center	http://www.dep.state.fl.us/Air/emission/construction/gainesville.htm	The Gainesville Sun, americanrenewables.com, gru.com
FL-5	Hamilton County Renewable Energy Center		americanrenewables.com
FL-6	NW Florida Renewable Energy Center	http://www.dep.state.fl.us/Air/emission/construction/stjoe.htm	biggreenenergy.com, floridaenvironments.com, Biomass Magazine
FL-7	Lansing Smith (CFPP retrofit)	CFPP permit http://www.dep.state.fl.us/air/emission/aces/ACES_facility.asp?txtFacID=6	Panama City News Herald
FL-8	Plant Scholz (CFPP Retrofit)	CFPP permit- http://arm-permit2k.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0630014.010.AV.F_pdf.zip	Southern Company (http://www.southerncompany.com/corporateresponsibility/environment/climateChangeAction.aspx), The Rotary Club of Pensacola; Wood Biopower plants being established in the SE
FL-9	Liberty Industries		Florida-agriculture.com; biomassmagazine.com; Plant Biotechnology for Sustainable Production of Energy and Co-products (Chapter 7)
GA-1	Appling County Pellets, LLC	AQ : http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=DOC-OP-19081 Original :	forestbioenergy.net, framfuels.com, Georgia EPD
GA-2	Woodlands Alternative Fuels	AQ permit for previous facility (Waverly Minerals); http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=PDF-VF-15664	northfulton.com, USDA Forest Service, Georgia Centers of Innovation Energy
GA-3	Multitrade Rabun Gap	http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=PDF-OP-18100	CleanTech Group LLC, Forisk Consulting (Wood BioEnergy South)
GA-4	Atlanta, Georgia Bio-Energy Park (AGBEP)	http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=PDF-OP-17533	biggreenenergy.com, Tree Rings Newsletter (University of Florida)
GA-5	Ware County Pellets	http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=PDF-OP-18308	Georgia DEP, EPA, Zac Anderson (unknown publisher)
GA-6	Bleckley County Biorefinery		Ethanol Producer Magazine, alliedenergyllc.com, ethanol producer.com (Proposed ethanol plant list); Woody Biomass Liquid Fuel Projects in the SE
GA-7	Soperton Plant	AQ permit amendment : http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=DOC-OP-18992 Original AQ permit : http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=PDF-OP-17348	Ethanol Producer Magazine, sustainable business oregon.com, Biomass Magazine, Denver Post, BrighterEnergy.org, Wood Bioenergy News, gpb.org
GA-8	Yellow Pine Electrical Generating Plant	http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=DOC-PI-17700	Georgia EPD, redorbit.com, EPA
GA-9	Greenway Renewable Power	AQ permit amendments : http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=DOC-OP-18920 Original AQ permit :	greenwayrenewablepower.com, Georgia Power, Wood Bioenergy News
GA-10	Piedmont Green Power	AQ permit amendment : http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=DOC-OP-19354 Original AQ permit : http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=PDF-OP-18253	pedmontgreenpower.com, macon.com, The Georgia Engineer, Atlantic Power Corporation
GA-11	Georgia Biomass, LLC		The Weekly, Reuters, Biomass Magazine, rwe.com, jacksonville.com
GA-12	Fitzgerald Plant	http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=DOC-OP-18711	Fitzgerald Renewable Energy, Decker Energy International, Georgia DEP
GA-13	Oglethorpe Power		Atlanta Citybizlist, opc.com, peanutpolitics-keith.blogspot.com
GA-14	Oglethorpe Power		Atlanta Business Chronicle, oglethorpepower.com
GA-15	Plant Mitchell (CFPP retrofit)	CFPP permit http://airpermit.dnr.state.ga.us/gaairpermits/PermitPDF.aspx?id=DOC-VF-18672	Georgia Power, Biomass Magazine, PR Newswire
GA-16	Briar Creek Pellets		Georgia Forestry Commission, Bioenergy International, USDA; W. AL & E. MS. Forest Industry
GA-17	Magnolia Biopower		Forisk Consulting (Wood BioEnergy South), Magnolia BioPower
GA-18	Wiregrass Power, LLC		Examiner.com, WCTV (CBS), LOWNDES COUNTY BOARD OF COMMISSIONERS MINUTES, allamericanpatriots.com, The Tifton Gazette, Valdosta Daily Times
GA-19	Macon Plant		BrighterEnergy.org, Wood Bioenergy South (FORISK Consulting)
GA-20	Global Energy Systems		entrepreneur.com; Plant Biotechnology for Sustainable Production of Energy and Co-products (Chapter 7)
GA-21	Plant Carl		ruddev.usda.gov; Earth Resources Inc; Plant Biotechnology for Sustainable Production of Energy and Co-products (Chapter 7)
GA-22	Dodge County Plant		Plant Biotechnology for Sustainable Production of Energy and Co-products (Chapter 7); Biomass Power Association
MS-1	Enviva Amory Plant	http://opc.deq.state.ms.us/ai_info.aspx?ai=24301	Mississippi DEQ, bioenergy-news.com, grpva.com, Greater Richmond Partnership Inc; USDA; W. AL & E. MS. Forest Industry
MS-2	Piney Wood Pellets	http://opc.deq.state.ms.us/ai_info.aspx?ai=37405	Wood Bioenergy Magazine, WLOX13 ABC (Biolixi Gulfport Pascagoula), Brighter Energy.org, Mississippi Business Journal; USDA; W. AL & E. MS. Forest Industry
MS-3	Fulton Plant		Bluefire Ethanol, PR Newswire
MS-4	Three Rivers Plant		enerkem.com; Plant Biotechnology for Sustainable Production of Energy and Co-products (Chapter 7)
MS-5	Coastal Paper Wiggins Facility		goliath.ecnext.com; Plant Biotechnology for Sustainable Production of Energy and Co-products (Chapter 7)
MS-6	Plant Sweatt		wtok.com; Plant Biotechnology for Sustainable Production of Energy and Co-products (Chapter 7)
NC-1	Craven County Wood Energy	http://daq.state.nc.us/permits/draft_permits/craven_draft.pdf	deckerenergy.com, Decker Energy International
NC-2	Coastal Carolina Clean Power	http://daq.state.nc.us/permits/aapa_reports/aapa.pdf	coastalccp.com, Triangle Business Journal; W. AL & E. MS. Forest Industry
NC-3	Carolina Wood Pellets, LLC		The Franklin Press, Tuskegee Reader, USDA
NC-4	Hertford Renewable Energy	http://daq.state.nc.us/permits/draft_permits/hertford_dft_10272009.pdf	Decker Energy, USDA, NC DENR, EPA, Decker Energy International, hrellc.net
NC-5	Nature's Earth Pellet Energy	list http://daq.state.nc.us/permits/files/all_permitted.pdf	gobiomass.com, Wood BioEnergy Magazine, Wood Bioenergy News
NC-6	Enviva NC Plant		Richmond Times-Dispatch, Tech Journal South, newenergyworldnetwork.com, apnnews.com, Greater Richmond Partnership Inc, Roanoke Chowan News Herald, envivabiomass.com
NC-7	Person County Plant		newsobserver.com, Person County Economic Development Council; Plant Biotechnology for Sustainable Production of Energy and Co-products (Chapter 7)
NC-8	IP Riegelwood		Star News Online; Plant Biotechnology for Sustainable Production of Energy and Co-products (Chapter 7)
SC-1	Savannah River Site	FONSI: http://gc.energy.gov/NEPA/nepa_documents/ea/ea1568/FONSI.pdf	Charleston Regional Business Journal, US DOE, GoUpstate.com, W. AL & E. MS. Forest Industry, The Augusta Chronicle.
SC-2	Loblolly Green Power	http://www.scdhec.gov/environment/ba/publicnote/pubs/new051ca.greensheets.pdf	Newberry Observer, loblollygreenpower.com, Wood Bioenergy News
SC-3	Hartsville Plant		peregriecorp.net, risinfo.com
SC-4	Orangeburg Plant		The Times and Democrat (Orangeburg)
SC-5	Domtar Paper Co., LLC		woodbiomass.com, elp.com
SC-6	Carolina Pacific Briquetting Co.		Carolinalive.com; Plant Biotechnology for Sustainable Production of Energy and Co-products (Chapter 7)
TN-1	Cleveland Plant	NSR notice : http://www.tn.gov/environment/app/ppo/dec2509.pdf	Guld Coast Energy, Tennessee DAPC, Ch. 7 (Hinchee, Et al)
TN-2	Collonwood Plant		ClearFuels.com, thebioenergysite.com
VA-1	Pittsylvania Power Station	http://www.deq.virginia.gov/export/sites/default/air/pdf/titlevpermits/30871tvada.pdf	Dominion, virginiabiomass.org, Virginia Division of Legal Services
VA-2	WoodFuels VA Plant	Point Sources with Criteria Pollutant Emissions of 10 Tons or More 2008: http://www.deq.virginia.gov/export/sites/default/air/emissions/2008_criteria_emissions_10tons.xls	woodfuelsvirginia.com, virginiabusiness.com; fredericksburg.com, W. AL & E. MS. Forest Industry
VA-3	AWF Marion Plant		Timberline Magazine
VA-4	Virginia City Hybrid Energy Center	http://www.deq.state.va.us/info/vchecPermits.html	Dominion, timesnews.net; W. AL & E. MS. Forest Industry
VA-5	WFD Greenville Plant		woodbiomass.com, National Association of Certified Developers; RISI
VA-6	WFD Waverly Plant		Biomass Magazine, woodbiomass.com
VA-7	Franklin IP Site Plant		Richmond Times-Dispatch, Tidewater News
VA-8	Plywood Trail		gazettevirginian.com, istockanalyst.com, WSL10 (NBC), Richmond Times-Dispatch
VA-9	Gladys Plant		woodbiomass.com
VA-10	Altavista Power Station (CFPP Retrofit)		PR Newswire; Altavista Journal Editor
VA-11	Hopewell Power Station (CFPP Retrofit)		PR Newswire
VA-12	Southampton County Power Station (CFPP Retrofit)		PR Newswire