

Combustion Renewable Energy Users in South Carolina

Last Updated May 2010

Plant Name, City, County	Renewable Fuel Used Wood Feedstock	Volume per Year (tons)	Size of Boiler or Kiln MMBtu/hr.	Equivalent Capacity in kW (if applicable)	Annual Energy in Mmbtu	Annual Energy in KWH	Notes/Number of Direct Jobs at Energy Site	Phone Number/Contact Information	Turbine Megawatt Output	Number of Staff Dedicated for Biomass Energy Equipment
1. Bowater Inc. Catawba, SC York Co.	Residential wood waste	239,509	495	145,034	15,967	4,678,367	Generated on site. 2 Boilers	Dale Herendeen (803)-981-8000 Will Hinson (803) 981-8759	2 Turbines with 327 Giggawatt output	10
2. Cameron Lumber Co. Cameron, SC Calhoun Co.	Green Pine Saw Dust	15,592	16	4,688	1,039	304,561	Boiler Steam	Ed Gald (803-823-2275)	None	4
3. Capstone Paper and Packaging (Former Mead Westvaco Summerville Lumber Mill) Charleston, SC Charleston Co.	Dry wood shavings	11,500	45 24	19,631	1,109	324,934	Use direct fire kilns	Duane Mummert (843) 745-3429	None	1
4. Carolina Furniture Works Inc. Sumter, SC Sumter Co.	Wood waste	3,690	15	4,395	246	72,077	Boiler Steam	Kirk Goodson (803) 775-6381	None	1
5. Carter Manufacturing Co. Lake City, SC Florence Co.	Wood waste, bark, shavings, veneer waste	2,190	7.2	2,110	146	42,778	Boiler Steam	Wyatt Nettles (843) 394-8123	None	2
6. CoGen South L.L.C. at Mead Westvaco Charleston, SC Charleston Co.	Bark & Sawdust	443,800	1,337	391,737	29,587	8,668,815	9.5 Million MMBTU's---980,000 lb/hr. wood waste, coal. sludge boiler. Process steam and some electricity generation	Duane Mummert (843) 745-3429 or (843) 745-3139	1 Turbine with 99 Megawatts output	50
7. Council Energy Co. Orangeburg, SC Orangeburg Co.	Wood waste, saw dust, bark, and chips	65,000	39 39	11,427 11,427	4,333	1,269,655	Use 2 Boilers	Mr. Council (803) 534-4360	None	13
8. Domtar (Weyerhaeuser: Marlboro Paper Mill) Tatum, SC Marlboro Co.	Wood waste, sander dust, bark and sludge	140,000	430	125,989	9,333	2,734,642		Athena Strickland (843) 479-0200	None-Plans to have one next year.	10
9. Elliott Sawmilling Co. Inc. Estill, SC Hampton Co.	Softwood/ green chips, shavings, bark Bark Chips Shavings Sawdust	276,000 38,106 292,864 26,849 30,008	35 35 20	10,255 10,255 5,860	18,400 2,540 19,524 1,790 2,001	5,391,151 744,331 5,720,559 524,446 586,151	Used to fuel 3 dry kilns onsite Bark, ships and shavings are sold. Sawdust is burned with a guaranteed volume per year Available for sale.	Wade Smith (803) 625-1936	None	8
10. Georgia Pacific Corp. Prosperity Chip-n-Saw Prosperity, SC Newberry Co.	Pine Bark Pine wood waste	103,577	200	58,599	6,905	2,023,186	Use Boiler. Bark and some sawdust are burned in the boiler at the Prosperity ply-wood wood waste boiler. Wood chips and some sawdust are sold Available for sale.	Terry Balance (803) 364-3510	None	10
11. GTP Greenville, Inc. Greenville, SC Greenville Co.	Poplar wood waste	936	12.5	3,662	62	18,283		Jack Johnson (864) 609-2431	None	1
12. Ingram Lumber Co. Leesville, SC Lexington Co.	Sawdust Shavings Bark	48,511 1,384 263	19.76 26 15 15	5,790 7,618 4,395 4,395	3,234 92 18	979,742	Use 4 Kilns	Furman Brody (843) 662-1483	None	13
13. International Paper: Eastover Mill Eastover, SC Richland Co.	Bark, wood waste Black Liquor from making pulp Kraft rectified methonal	1,556,800	545 500	159,684 146,499	103,787	30,409,220	2 Boilers	Mike Bridgers (803) 353-7335	2 Turbines with a combined 110 Megawatt Output	619
14. International Paper: Johnston Lumber Mill Johnston, SC Saluda Co.	Pine Shavings	2,824	28.7	8,409	188	55,162	Hearst hybrid burns 6,214 tons of dried shavings. 600 horse power Boiler	Barret Smith (803) 275-4669	None	1 Part time
15. Georgetown Mill Georgetown, SC Georgetown Co.	Wood waste, bark, container board, sawdust, black liquor	70,000	592 592	173,454 173,454	4,667	1,367,321	Use Boilers	Jacque Taylor (843) 545-2290	3 Turbines with 28, 30, and 30 Megawatt outputs Combined: 88 Megawatts	635
16. Kearse Mfg. Company Olar, SC	Hardwood chips, Bark, sawdust	8,000	25	7,325	1,570	460,006	Use Boiler	Chad Kearse (803) 368-8130	None	3 Full Time Employees

Bamberg Co.										
17. Koppers Inc. Florence, SC Florence Co.	Mixed (untreated)	9,720	28,457	8,338	648	189,862	Most of the wood fuel used or site comes from Florence Pole and Piling and is generated from the pole peeling process.	David Conner (843) 669-8231	None	1
18. New South Camden Plant Camden, SC Kershaw Co.	Wood waste, 60% bark, wet sawdust, 40%	55,000	92	26,956	3,667	1,074,324	Boiler	Bennie Wadford (803) 425-1810	None	10
19. New South Darlington (Former Chesterfield Lumber Co.) Darlington, SC Darlington Co.	Softwood sawdust, shavings, bark Chips Shavings Pine bark, sawdust	150,000	28.93 28.7	8,476 8,409		10,000 2,929,974	Produce and use 81,244,090 lbs of steam per year combined in both boilers		None	
20. Norbord, South Carolina, Inc. Kinards, SC Kershaw Co.	Pine bark, wood waste and saw dust	230,000	98 98 98	28,714 28,714	15,333	4,492,626	Use 3 Kilns Typical year would be around 225-250,000 tons	Phil Towles (864) 697-1250	None	12
21. Smurfit-Stone Container Corp. Florence, SC Florence Co.	Bark, sawdust, wood residuals	881,059	995 343	291,532 100,498	58,737	17,209,864	2 Boilers Creates steam and electricity Boilers are combination fuel	Tim Paasch (843) 269-0107	3 Turbines with 12.5, 16.5 and 72 Megawatt Outputs Combined: 101 Megawatts	10
22. Sonoco-Hartsville Hartsville, SC Darlington Co.	Pallet waste, pulp products.	40,760	178	52,154	2,717	796,172	Boiler #9 Circulating Fluidized Bed (CFB) The wood fed in is with other materials so it is difficult to guess how much is what.	Peggi Davis (843) 383-7991	None	11
23. United Wood Treating Co. Whitmire, SC Newberry Co.	Pine bark, Shavings	4,000	11.7	3,428	267	78,133	Boiler Steam	Steve Hudson (803) 694-3668	None	3
24. University of South Carolina Gasification Facility Columbia, SC Richland Co.	Wood waste, untreated chip mill bark waste, pine bark mulch	57,000	72	21,096	605,000	177,263,405	60,000 lbs steam/hr Boiler	Tom Syfert (803) 777-5269	One Turbine with 1.5 Megawatt output	4
25. Walterboro Veneer Co. Walterboro, SC Colleton Co.	Wood waste	27,934	28.71 21.6	8,412 6,329	1,862	545,639	Providing steam to veneer dryer: Boilers	Harold Moore (843) 893-2042		
26. Warren & Griffin Co. Williams, SC Colleton Co.	Wood waste	2,400	15.5	4,541	160	46,880	Boiler	Paul Warren (843) 562-8279	None	1
27. West Frazier (Formerly International Paper): Newberry Newberry, SC Newberry Co.	Saw Dust, Bark	18,971.30 18,971.30 18,971.30	28.7 28.7	8,409 8,409	1,265 1,265 1,265	370,569 370,569 370,569	Use Boilers	Alex Taylor (803) 276-4311	None	11
28. Weyerhaeuser: Chester Paper Mill Fort Mill, SC York Co.	Wood waste bark and	163,000	170	49,810	10,867	3,183,905	Boiler	Michael Faris (803) 581-9261	None	6
Totals:		5,055,190 tons/year	7968.157 Mmbtu/hr	2,305,349 KW	939,499 Mmbtu	275,297,876 KWh			327,399,500 KW	1450 Jobs

Plant Name, City, County	Renewable Fuel Used -Used Motor Oil-	Volume per Year (tons)	Size of Boiler MMBTUH (if applicable)	Electricity Produced in kW (if applicable)	Notes	Phone Number/Contact Information	Turbine Megawatt Output	Number of Staff Dedicated for Biomass Energy Equipment
	Used Motor Oil		Year (gallons)	MMBTUH (if applicable)				
1. Carolina Pole Eutawville, SC Orangeburg Co.	Used Motor Oil	364,000	25	7,325 0 0	This is max number Dry Kilns (drying lumber)	yard manager's cell phone: 803-515-3346		
2. International Paper Eastover Mill Eastover, SC Richland Co.	Used Motor Oil	1,531,111		0 0 0	4 steam producing units, some are craft recovery units and 2 of them are making steam, to supplement that we burn oil to supplement in the recovery system. 2 power boiler 1 primarily coal and 1 primarily wood waste.	Mike Bridgers (engineer) can do the boiler capacity 803-353-7335 Left Msg with him 1/5 10:15 am Left msg with John Baker 12/30 Left msg with John Baker 1/5		
3. Santee Cooper GOFER Program Moncks Corner, SC Berkeley Co.	Used oil 1824754 gallons				Industrial customeres donated 1,313,158 gallons DYE 683,595 gallons Used for generating electricity	800-753-2233 Ask for Susan Jackson Called 2 times.	Left msg for supervisor 1/13	

Unknown

Plant Name, City, County	Renewable Fuel Used Waste Tires	Volume per Year (tons)	Size of Boiler MMBTUH (if applicable)	Electricity Produced in kW (if applicable)	Notes	Phone Number/Contact Information	Turbine Megawatt Output	Number of Staff Dedicated for Biomass Energy Equipment
1. International Paper Eastover Mill Eastover, SC Richland Co.	Tire-derived fuel	18,368		Unknown	Boiler 10-15% of heat from tire derived fuel. This is mostly wood waste This TDF allows us to stabilize. They are limited to about 3 1/2	Left msg with John Baker 12/30 Left msg with John Baker 1/5		

City, County	-MSW-	Volume per Year (tons)	(if applicable)	(if applicable)						
City, County	MSW	Year (tons)	MMBTUH (if applicable)	Produced in kW (if applicable)						for Biomass Energy Equipment
1. Montenay Charleston Resource Recovery North Charleston, SC Charleston Co.	Municipal solid waste (MSW)	220,000	130	38,090						

38 MW

Plant Name, City, County	Renewable Fuel Used -Landfill Gas-	Volume (mmscfd)	Equipment MMBTUH	Capacity	Approximate kWh/year based on volume	Notes	Notes	Phone Number/Contact Information	Turbine Megawatt Output	Number of Staff Dedicated for Biomass Energy Equipment
1. BMW/Palmetto Landfill/Ameresco and Durr Systems, Inc. Spartanburg, SC Spartanburg Co.	Electricity Cogeneration and Direct Thermal	6,912 mmscfd	1,080,000/year	4.4 MW						
2. Santee Cooper/Anderson Regional Landfill Gas Anderson, SC Anderson Co.	Electricity - reciprocating		507,309/year	3.2 MW						
3. Santee Cooper/Horry County Landfill Gas Generation Facility Conway, SC Bishopville, SC Lee Co.	Electricity - reciprocating engine		218,300/year	3 MW						
5. Santee Cooper/Richland County Landfill Gas Generation Facility Columbia, SC Richland Co.	Electricity - reciprocating engine		507,309/year	5.5 MW						
6. Enoree Landfill/ Greenville Gas Producers, LLC Greenville Co.	Electricity - reciprocating engine	1.8 mmscfd	unknown	3.2 MW						
7. Kimberly-Clark/Three Rivers Landfill Gas Authority/Siemens Aiken Co.	Direct Thermal	1.76 mmscfd	315,000/year	N/A						
8. Fujifilm/ MethaneCredit/ Greenwood County Greenwood Co.	Direct Thermal	1.0008 mmscfd		N/A						
9. Langley Landfill/Aiken County Aiken Co.	Direct Thermal	1.296 mmscfd		N/A						
10. Wellford Landfill/Spartanburg Co. Public Works Spartanburg Co.	Electricity - reciprocating	1.22 mmscfd		TBD						

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