

**Potential Value of Tax Credits in S. 2095 for Biomass Co-firing at Existing Facilities**

(Based on 2001 Plant Generation Data)

**REVENUE LOSS VALUES ONLY SHOWN**

State	Company Name	Plant Name	County	Industry	Nominal 5-year Value of Tax Credits per S. 2095 (\$/mils)*	5-Year Value of tax credits if only plants w/ >50% biomass share get them	5-Year Value of tax credits if only plants w/ >75% biomass share get them	Net Electricity Generation (kWh)	Energy Consumed (MMBtu)	Energy Consumed from Biomass (MMBtu)	% of Energy Consumed from Biomass	% of Energy Consumed from Coal	% of Energy Consumed from Other
NY	AES Greenidge	AES Greenidge	Yates	Energy	0.88	-	-	944,486,738	10,907,485	169,800	1.56	98.2	0.24
IL	Ameren Energy Generating Co	Coffeen	Montgomery	Energy	0.46	-	-	3,659,838,000	38,983,387	80,701	0.21	99.71	0.09
NY	Black River Power LLC	Black River Power LLC Electric Generation Facility	Jefferson	Energy	0.23	-	-	421,486,000	5,841,335	52,672	0.9	96.3	2.79
CT	Covanta Mid-Connecticut Inc	Mid Connecticut Facility	Hartford	Energy	29.66	29.66	29.66	499,707,662	7,899,231	7,815,719	98.94	1.06	0
CA	FPL Energy Operating Services Inc	Port of Stockton District Energy Facility	San Joaquin	Energy	0.04	-	-	260,039,000	3,245,194	9,086	0.28	98.93	0.79
IA	Interstate Power and Light	Prairie Creek	Linn	Energy	1.38	-	-	992,590,000	10,247,717	236,677	2.31	96.25	1.44
IA	Interstate Power and Light	6th Street	Linn	Energy	0.53	-	-	169,060,000	3,489,795	181,868	5.21	66.61	28.18
FL	LakelandCity of	McIntosh	Polk	Energy	1.39	-	-	3,449,742,000	36,384,071	244,996	0.67	61.89	37.44
WI	Madison Gas & Electric Co	Blount St	Dane	Energy	0.96	-	-	443,626,000	6,231,352	223,688	3.59	77.18	19.23
AL	Mobile Energy Service Holdings	Mobile Energy Services Co LLC	Mobile	Energy	13.07	-	-	485,112,047	7,860,156	3,528,136	44.89	55.11	0
WV	Monongahela Power Co	Willow Is	Pleasants	Energy	1.38	-	-	1,126,533,000	12,494,604	255,061	2.04	97.69	0.26
WV	Monongahela Power Co	Albright	Preston	Energy	0.06	-	-	1,363,785,000	16,475,159	12,155	0.07	99.78	0.15
NE	Nebraska Public Power District	Sheldon	Lancaster	Energy	-	-	-	1,371,688,000	15,312,121	588	0	99.95	0.04
WI	Northern States Power Co	Bay Front	Ashland	Energy	6.26	-	-	331,254,000	4,425,494	1,394,842	31.52	62.62	5.86
FL	Orlando Utilities Comm	Stanton	Orange	Energy	6.22	-	-	6,394,664,000	62,997,844	1,022,850	1.62	98.29	0.09
MN	RapidsEnergyCenter	RapidsEnergyCenter	Itasca	Energy	5.65	5.65	-	142,515,000	4,109,765	2,715,658	66.08	20.11	13.81
ME	Rumford Cogeneration Co	Rumford Cogeneration Co	Oxford	Energy	28.73	28.73	-	675,796,869	15,762,899	11,167,415	70.85	29.15	0
VA	Southeastern Public Serv Auth	SPSA Power Plant	Portsmouth	Energy	10.50	10.50	10.50	200,034,000	6,156,661	5,384,373	87.46	2.88	9.66
WI	State of Wisconsin	UW Madison Charter St Plant	Dane	Energy	0.24	-	-	53,481,000	5,219,073	394,058	7.55	66.3	26.15
WI	State of Wisconsin	Waupun Correctional Inst Central Generating Plant	Dodge	Energy	0.02	-	-	4,049,572	272,280	24,937	9.16	90.84	0
WA	TacomaCity of	City of Tacoma Steam Plant	Pierce	Energy	4.54	4.54	-	115,662,800	3,033,942	1,984,157	65.4	34.07	0.53
MI	TESFilerCity Station LP	TESFilerCity Station	Manistee	Energy	1.47	-	-	433,103,000	5,414,375	306,597	5.66	94.34	0
AZ	Tucson Electric Power Co	Irvington	Pima	Energy	1.94	-	-	1,645,666,000	17,354,398	340,915	1.96	40.99	57.05
MO	Union Electric Co	Sioux	St Charles	Energy	3.12	-	-	5,645,812,000	57,080,307	523,452	0.92	89.88	9.2
IA	University of Iowa	University of Iowa Main Power Plant	Johnson	Energy	0.05	-	-	89,460,000	3,187,044	27,231	0.85	82.11	17.04
MO	University of Missouri-Columbia	University of Missouri-Columbia Power Plant	Boone	Energy	0.12	-	-	137,367,912	3,834,880	55,400	1.44	93.16	5.39
WI	Wisconsin Power & Light Co	Edgewater	Sheboygan	Energy	4.27	-	-	4,844,573,000	50,155,509	737,809	1.47	98.36	0.16
WI	Wisconsin Power & Light Co	N Dewey	Grant	Energy	0.09	-	-	1,072,048,000	10,910,822	15,099	0.14	99.83	0.03

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MI	Wyandotte Municipal Serv Comm	Wyandotte	Wayne	Energy	0.67	-	-	257,391,000	3,593,588	154,725	4.31	94.8	0.89
MO	Anheuser-Busch Inc	Anheuser Busch Inc St Louis Brewery	St LouisCity	Food Processing	0.53	-	-	109,549,000	4,197,530	336,566	8.02	85.89	6.09
IL	Archer Daniels Midland Co	Decatur	Macon	Food Processing	0.65	-	-	903,681,338	32,142,793	383,820	1.19	98.81	0
NC	Corn Products Intl Inc	Corn Products Winston Salem	Forsyth	Food Processing	1.13	1.13	1.13	20,181,000	2,324,701	2,168,876	93.3	5.32	1.39
HI	Hawaiian Coml & Sugar Co Ltd	Hawaiian Coml&Sugar Co	Maui	Food Processing	7.38	7.38	-	189,318,325	6,135,810	3,986,293	64.97	24.67	10.36
NC	Blue Ridge Paper Products Inc	CantonNorth Carolina	Haywood	Paper/Lumber	9.12	-	-	337,659,643	20,269,904	9,127,426	45.03	54.41	0.56
AL	Bowater Newport Coosa Pines Op	U S Alliance Coosa Pines	Talladega	Paper/Lumber	6.70	-	-	264,363,000	12,918,027	5,460,550	42.27	57.73	0
TN	Bowater Newsprint Calhoun Ops	Bowater Newsprint Calhoun Operations	McMinn	Paper/Lumber	23.34	23.34	23.34	449,848,678	33,762,101	29,190,428	86.46	12.74	0.8
AR	Domtar Industries Inc	Ashdown	Little River	Paper/Lumber	28.97	28.97	28.97	624,507,892	29,620,245	22,903,281	77.32	11.2	11.48
GA	Durango-Georgia Paper Co	Durango-Georgia Paper Co	Camden	Paper/Lumber	3.74	-	-	270,471,000	11,121,510	2,564,923	23.06	37.11	39.82
WI	Fraser Paper Co	Fraser Paper Inc	Price	Paper/Lumber	1.38	1.38	-	36,846,000	944,317	589,615	62.44	37.56	0
GA	Georgia Pacific Corp	Cedar Springs	Early	Paper/Lumber	29.07	29.07	-	681,819,001	26,796,333	19,040,200	71.06	20.99	7.95
VA	Georgia Pacific Corp	Big Island	Bedford	Paper/Lumber	1.45	-	-	56,655,005	5,107,153	2,180,852	42.7	23.16	34.14
AL	Georgia-Pacific Corp	Naheola Mill	Choctaw	Paper/Lumber	20.53	20.53	-	477,602,448	15,332,362	10,985,776	71.65	16.59	11.75
WI	Georgia-Pacific Corp	Nekoosa Mill	Wood	Paper/Lumber	2.82	2.82	-	91,217,003	3,346,250	1,723,590	51.51	35.87	12.62
GA	Hercules Inc	Hercules Inc Brunswick Plant	Glynn	Paper/Lumber	1.16	1.16	-	27,242,000	2,233,989	1,579,815	70.72	0.93	28.36
GA	Inland Paperboard & Pack'g Inc	Inland Paperboard Packaging Rome Linerboard Mill	Floyd	Paper/Lumber	16.33	16.33	-	411,119,000	20,038,508	13,266,633	66.21	29.21	4.58
VA	International Paper	Printing & Communication Papers Franklin Mill	Isle of Wight	Paper/Lumber	26.36	26.36	-	725,086,003	34,071,843	20,639,051	60.58	18.3	21.13
GA	International Paper Co	International Paper Co Savannah	Chatham	Paper/Lumber	31.58	31.58	-	967,788,001	26,099,722	14,194,882	54.39	32.19	13.43
LA	International Paper Co	Louisiana Mill	Morehouse	Paper/Lumber	22.08	22.08	-	500,606,000	20,292,544	14,915,044	73.5	3.37	23.13
AL	International Paper Co	International Paper Co	Autauga	Paper/Lumber	21.96	21.96	-	519,234,000	16,973,708	11,965,869	70.5	10.94	18.56
PA	International Paper Co	Lock Haven Mill	Clinton	Paper/Lumber	1.92	-	-	159,360,000	3,911,982	783,468	20.03	79.97	0
GA	International Paper Co-Augusta	International Paper Augusta Mill	Richmond	Paper/Lumber	19.28	19.28	-	476,159,573	24,189,678	16,324,470	67.49	21.77	10.74
NC	International Paper Co-Buckspt	Roanoke Rapids North Carolina	Halifax	Paper/Lumber	6.85	6.85	-	169,349,560	11,527,677	7,773,059	67.43	23.57	9
AL	International Paper Co-Courtland	Courtland Mill	Lawrence	Paper/Lumber	24.89	24.89	-	652,702,002	30,623,004	19,462,946	63.56	7.38	29.07
FL	International Paper Co-Escambi	PensacolaFlorida	Escambia	Paper/Lumber	16.85	16.85	-	394,269,000	20,696,322	14,739,024	71.22	18.19	10.59
SC	International Paper Co-GT Mill	Georgetown Mill	Georgetown	Paper/Lumber	24.01	24.01	24.01	507,983,954	21,601,122	17,019,822	78.79	12.6	8.61
MI	International Paper Co-Quinnes	Quinnesec Michigar	Dickinson	Paper/Lumber	11.44	11.44	11.44	220,116,000	10,994,875	9,523,677	86.62	2.15	11.23
NC	International Paper Co-Riegel	International Paper Riegelwood Mill	Columbus	Paper/Lumber	20.91	20.91	-	473,108,000	26,856,453	19,785,678	73.67	1.53	24.8

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WI	International Paper Co-Thilmny	Thilmny Pulp Paper	Outagamie	Paper/Lumber	5.03	-	-	197,911,000	7,572,429	3,205,212	42.33	41.04	16.63
ME	IPC Bucksport	Bucksport Maine	Hancock	Paper/Lumber	10.95	-	-	729,877,004	9,496,396	2,374,087	25	26.88	48.12
LA	IPC-Mansfield Mill	Mansfield Mill	Desota	Paper/Lumber	33.76	33.76	33.76	747,403,819	24,868,875	18,720,157	75.28	3.91	20.81
FL	Jefferson Smurfit Corp	Jefferson Smurfit Corp	Nassau	Paper/Lumber	23.84	23.84	-	650,926,000	19,927,724	12,164,847	61.04	32.35	6.61
MI	Louisiana Pacific Co	Louisiana Pacific Corp	Alpena	Paper/Lumber	1.64	1.64	-	49,434,110	1,445,849	800,999	55.4	36.51	8.09
MI	Mead Paper Corp	Mead Paper	Delta	Paper/Lumber	23.07	23.07	-	686,769,000	17,833,114	9,984,139	55.99	27.45	16.56
OH	Mead Paper Corp	Mead Paper Division	Ross	Paper/Lumber	18.38	18.38	-	558,456,704	19,188,969	10,525,418	54.85	44.24	0.91
WI	Mosinee Paper Corp	Wausau Mosinee Paper Corp Pulp & Paper Division	Marathon	Paper/Lumber	4.06	4.06	-	125,682,460	3,304,402	1,780,451	53.88	38.75	7.37
PA	P H Glatfelter Co	P H Glatfelter Co	York	Paper/Lumber	16.51	-	-	614,307,135	15,384,590	6,891,660	44.8	54.31	0.89
TN	Packaging Corp of America	Packaging Corp of America	Hardin	Paper/Lumber	15.92	15.92	-	367,306,001	9,386,567	6,780,776	72.24	22.46	5.3
WI	Packaging Corp of America	Packaging Corp of America Tomahawk Mill	Lincoln	Paper/Lumber	6.84	6.84	6.84	140,778,995	17,254,261	13,962,580	80.92	16.75	2.33
GA	Riverwood Intl USA Inc	Riverwood International USA Inc	Bibb	Paper/Lumber	9.96	9.96	-	263,431,001	9,582,507	6,037,712	63.01	19.86	17.13
MI	S D Warren Co	S D Warren Co 1 Muskegon	Muskegon	Paper/Lumber	1.19	-	-	163,660,000	3,571,440	433,058	12.13	78.95	8.92
ME	S D Warren Co - Somerset	S D Warren Co 2	Cumberland	Paper/Lumber	14.15	14.15	-	414,287,572	6,973,736	3,968,764	56.91	37.69	5.4
VA	Smurfit-Stone Container Corp	St Laurent Paper Products Corp	King William	Paper/Lumber	24.44	24.44	-	570,977,000	20,547,456	14,660,519	71.35	16.29	12.36
AL	Smurfit-Stone Corp	Smurfit Stone Corp	Escambia	Paper/Lumber	19.48	19.48	19.48	339,780,000	7,525,561	7,191,723	95.56	0.03	4.4
SC	Stone Container Corp	Stone Container Corp Florence Mill	Florence	Paper/Lumber	25.86	25.86	-	644,928,973	20,219,204	13,512,793	66.83	24.39	8.78
VA	Stone Container Corp	Stone Container Corp Hopewell Mill	Hopewell	Paper/Lumber	16.43	16.43	16.43	357,706,000	9,613,300	7,357,678	76.54	21.71	1.75
FL	StoneContainerCorp-PanamaCity	Stone Container Corp Panama City Mill	Bay	Paper/Lumber	6.85	-	-	243,459,002	7,922,371	3,715,099	46.89	23.87	29.24
WI	Stora Enso North America	Wisconsin Rapids Pulp Mill	Wood	Paper/Lumber	17.89	17.89	17.89	380,318,000	23,193,940	18,187,931	78.42	14.09	7.49
MN	Stora Enso North America	Duluth Paper Mill	St Louis	Paper/Lumber	2.50	2.50	2.50	43,926,000	1,372,465	1,301,634	94.84	4.32	0.84
WI	Stora Enso North America	Niagara Mill	Marinette	Paper/Lumber	0.84	-	-	110,974,000	2,944,574	372,600	12.65	66.29	21.06
WI	Stora Enso North America	Biron Mill	Wood	Paper/Lumber	0.56	-	-	224,973,375	4,918,729	204,000	4.15	93.08	2.77
WI	Stora Enso North America	Whiting Mill	Portage	Paper/Lumber	0.16	-	-	21,231,002	1,478,254	184,499	12.48	75.76	11.76
NC	Weyerhaeuser Co	PlymouthNC	Martin	Paper/Lumber	30.88	30.88	-	731,086,298	26,117,235	18,386,456	70.4	26.55	3.05
WA	Weyerhaeuser Co	LongviewWA	Cowlitz	Paper/Lumber	13.09	13.09	-	306,731,998	19,112,707	13,592,098	71.12	10.8	18.08
AL	Weyerhaeuser Co	Weyerhaeuser Pine Hill Operations	Wilcox	Paper/Lumber	10.43	-	-	462,578,555	7,753,771	2,914,412	37.59	10.06	52.35
TN	Willamette Industries Inc	Willamette Industries Kingsport Mill	Sullivan	Paper/Lumber	6.74	6.74	6.74	143,886,003	8,445,477	6,593,224	78.07	16.46	5.47
PA	Willamette Industries-Johnsonburg	Johnsonburg Mill	Elk	Paper/Lumber	7.62	7.62	-	244,415,786	8,084,609	4,198,936	51.94	43.46	4.6

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VA	Bassett Furniture Industl Inc	Bassett Table Co	Henry	Wood products/ furniture	0.12	0.12	0.12	1,989,000	169,918	166,158	97.79	2.21	0
VA	Bassett Furniture Industl Inc	J D Bassett Manufacturing Co	Henry	Wood products/ furniture	0.09	0.09	0.09	1,609,000	153,498	148,363	96.65	3.35	0
<b>Totals - Rev. Loss</b>					<b>876</b>	<b>754</b>	<b>233</b>	<b>58,489,214,819</b>	<b>1,238,374,879</b>	<b>541,994,282</b>			
<b>Totals - Outlay Equiv.</b>					<b>1,362</b>	<b>1,173</b>	<b>362</b>	<b>58,489,214,819</b>	<b>1,238,374,879</b>	<b>541,994,282</b>			

#### Notes:

- (1) MMBtu = One million British thermal units.
- (2) Tax credit assumptions:
  - (a) All biomass used is open-loop, existing capacity, so ineligible for higher rate of 1.8 cents/kWh. **Rate used (\$/kWh)**  
 0.012 \$/kWh, rev. loss; 0.0187 \$/kWh, outlay equivalent.
  - (b) Tax credits run for five years and are not renewed. **Duration used (years):** 5
  - (c) Nominal value used for simplicity. Tax credit for these facilities is not adjusted for inflation. Realized value would be somewhat lower once future payments discounted back to the present.

#### Sources:

- (1) U.S. Energy Information Administration, "Table B5. Net Generation and Fuel Consumption at Power Plants Consuming Coal and Biomass by State and Plant Name, 2001," *Renewable Energy Annual 2002*, November 2003. EIA data assembled from: EIA, Form EIA-860, "Annual Electric Generator Report," and Form EIA-906, "Power Plant Report." Data accessed from [http://www.eia.doe.gov/cneaf/solar.renewables/page/rea\\_data/tableb5.html](http://www.eia.doe.gov/cneaf/solar.renewables/page/rea_data/tableb5.html), January 12, 2003.
- (2) Conference Committee, "Joint Explanatory Statement of the Committee of Conference," November 2003.
- (3) S. 2095, dated 2/12/04.