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Biomass Power Plants In the United States

Written by red on May 16, 2012 · 1 Comment

Biomass has been and continues to be a viable and sustainable method of producing electricity from renewable resources. When the collection and transport of the biomass fuel is managed properly and the power plant itself runs efficiently it is possible for the production of electricity to be performed relatively cleanly. We are seeing more and more coal-fired power plants converted to either 100% biomass fueled plants or cogeneration plants that are partially powered by biomass stock.

Listed on this page are US biomass power plants producing commercial levels of electricity. Where possible more information about the power plants have been provided on a separate page. It will be possible to read about those projects by clicking on the links provided.

This list is by no means complete and more projects will be added as they come to our notice. Ultimately it is envisaged that this page will provide as complete register as possible of biomass power plants that are either in operation or are in the process of being developed.

Biomass Power Plants In the USA

Plant Name	State	County / City	Capacity MW	On-line
Alabama Pine Pulp	Alabama	Monroe	32.09	1991
Alabama River Pulp	Alabama	Monroe	22.32	1978
Mobile Energy Services LLC	Alabama	Mobile	14.35	1985
SOU_AL_Biomass	Alabama	NA	0.03	2011

APS Biomass I	Arizona	Eagar	2.85	2006
Snowflake White Mountain	Arizona	Navajo	24.00	2008
Western Renewable	Arizona	Apache	2.50	2004
Century Flooring Co Biomass Facility	Arkansas	Izard	1.70	1980
Fourche Creek Wastewater	Arkansas	Pulaski	1.50	1983
Potlatch Southern Wood Products	Arkansas	Bradley	10.00	1991
STEC-S LLC	Arkansas	Arkansas	4.00	1997
Warren Biomass Facility	Arkansas	Arkansas	8.70	
AES Mendota	California	Fresno	25.00	1989
Bieber Plant Biomass Facility	California	Bieber	7.00	
Blue Lake Plant Biomass Facility	California	Blue Lake	11.00	
Burney Forest Products	California	Shasta	31.00	1989
Burney Mountain Power	California	Shasta	9.75	1985
CA-S_CA_Biomass	California	NA	2.20	2011
Chinese Station Biomass Facility	California	Chinese Station	25.00	
Chowchilla Biomass Facility	California	Chowchilla	12.50	2011
Collins Pine Project	California	Plumas	12.00	1985
Commerce Refuse To Energy	California	Los Angeles	7.00	1986
Covanta Stanislaus Energy	California	Stanislaus	18.00	1988
Delano Energy	California	Kern	49.00	1993
DG Fairhaven Power Biomass Facility	California	Eureka	17.50	
Diamond Walnut Biomass Facility	California	San Joaquin	4.20	1981
Dinuba Biomass Facility	California	Dinuba	11.50	
El Nido Biomass Facility	California	El Nido	10.00	
Fairhaven Power	California	Humboldt	17.30	1986
Fresno Biomass Facility	California	Fresno	25.00	
Gas Utilization Facility	California	San Diego	4.60	1985
HL Power	California	Lassen	30.00	1989
Imperial Valley Resource Recovery Plant	California	Brawley	15.00	
Madera Biomass Facility	California	Madera	25.00	
Martinez Sulfuric Acid Regeneration Plt	California	Contra Costa	4.00	1978
Mecca Plant	California	Riverside	47.00	1991
Mendota Biomass Facility	California	Mendota	25.00	
Monterey Regional Water Cogen Facility	California	Monterey	1.50	1991
Mt Lassen Power	California	Lassen	10.50	1985
Mt Poso Cogeneration Power Plant	California	Kern	44.00	2011
Pacific Lumber	California	Humboldt	33.50	1989
Pacific Oroville Power Inc	California	Butte	16.50	1985
Pacific-Ultrapower Chinese Station	California	Tuolumne	19.80	1985
Plant No 2 Biomass Facility	California	Orange	13.50	1993

Port of Stockton Biomass Facility	California	San Joaquin	45.00	2014
Rio Bravo Fresno	California	Fresno	24.30	1988
Rio Bravo Rocklin	California	Placer	24.40	1989
Rocklin Biomass Facility	California	Rocklin	25.00	
Shasta 1 Biomass Facility	California	Anderson	50.00	
Shasta 2 Biomass Facility	California	Anderson	3.00	
Sierra Pacific Anderson Facility	California	Shasta	5.00	1999
Sierra Pacific Burney Facility	California	Shasta	16.33	1986
Sierra Pacific Lincoln Facility	California	Placer	17.22	2004
Sierra Pacific Loyalton Facility	California	Sierra	13.08	1989
Sierra Pacific Quincy Facility	California	Plumas	28.84	1986
Sierra Pacific Sonora	California	Tuolumne	5.45	2001
Sierra Pacific Susanville	California	Lassen	12.60	1985
Sierra Power	California	Tulare	7.00	1985
Southeast Resource Recovery	California	Los Angeles	27.95	1988
Stockton Regional Water Control Facility	California	San Joaquin	2.94	2000
Susanville	California	Lassen	13.00	1985
Total Energy Facilities	California	Los Angeles	24.00	1986
Tracy Biomass	California	San Joaquin	18.75	1990
Ultrapower Chinese Station	California	Tuolumne	19.80	1985
Wadham Energy LP	California	Colusa	25.50	1989
Westwood Biomass Facility	California	Westwood	12.00	
Wheelabrator Martell	California	Amador	15.00	1985
Wheelabrator Shasta	California	Shasta	55.40	1987
Williams Biomass Facility	California	Williams	25.00	
Woodland Biomass Power Ltd	California	Yolo	25.00	1989
WWTP	California	Alameda	5.85	1985
WWTP Power Generation Station	California	Alameda	5.85	1985
Metro Wastewater Reclamation District	Colorado	Adams	9.80	1985
American Ref-Fuel of SE CT	Connecticut	New London	12.00	1991
Covanta Bristol Energy	Connecticut	Hartford	13.20	1987
Covanta Mid-Connecticut Energy	Connecticut	Hartford	112.80	1988
Covanta Wallingford Energy	Connecticut	New Haven	8.40	1988
Plainfield Renewable Energy Biomass Plant	Connecticut	Plainfield	37.50	
Wheelabrator Bridgeport	Connecticut	Fairfield	61.25	1988
Wheelabrator Lisbon	Connecticut	New London	13.00	1995
Bay Resource Management Center	Florida	Bay	10.00	1987
Bryant Sugar House	Florida	Palm Beach	26.52	1962
Buckeye Florida Biomass Facility	Florida	Taylor	25.00	2006
Cargill Fertilizer	Florida	Hillsborough	75.90	1988

Cargill Fertilizer Bartow	Florida	Polk	80.00	1985
Cargill Fertilizer Mulberry Phosphates	Florida	Polk	19.53	1985
Covanta Lake County Energy	Florida	Lake	12.50	1990
Hillsborough County Resource Recovery	Florida	Hillsborough	26.00	1987
Jefferson Power LLC	Florida	Jefferson	7.50	1990
Lee County Solid Waste Energy	Florida	Lee	39.00	1994
McKay Bay Facility	Florida	Hillsborough	18.00	1985
Miami Dade County Resource Recovery Fac	Florida	Miami-Dade	71.62	1981
North County Regional Resource	Florida	Palm Beach	43.50	1989
Okeelanta Cogeneration	Florida	Palm Beach	74.90	2006
Okeelanta 2 Biomass Facility	Florida	South Beach	50.00	
Pasco Cnty Solid Waste Resource Recovery	Florida	Pasco	26.00	1991
Pinellas County Resource Recovery	Florida	Pinellas	58.10	1983
Ridge Generating Station	Florida	Polk	47.10	1994
SI Group Energy LLC	Florida	Jefferson	7.50	1990
Southernmost Waste To Energy	Florida	Monroe	2.30	1986
Telogia Power	Florida	Liberty	12.50	1986
US Agri-Chemicals Fort Meade	Florida	Polk	32.00	1982
US Sugar Biomass Facility	Florida	Bryant/Clewiston	20.00	
Wheelabrator North Broward	Florida	Broward	56.00	1991
Wheelabrator South Broward	Florida	Broward	57.90	1991
Plant Mitchell	Georgia	Dougherty	96.00	2012
Plant Carl Project	Georgia	Franklin	20.00	2007
Port Wentworth Biomass Facility	Georgia	Chatham	42.70	1991
Hawaii Comm. And Sugar	Hawaii	Puuene	12.00	
Olokele Biomass Facility	Hawaii	Maui	4.00	
New Meadows Biomass Facility	Idaho	New Meadows	4.50	
Plummer Forest Products	Idaho	Benewah	5.77	1982
Potlatch Idaho Pulp Paper	Idaho	Nez Perce	27.20	1981
Tamarack Energy Partnership	Idaho	Adams	5.80	1983
Biodyne Congress	Illinois	Cook	12.60	2001
Biodyne Pontiac	Illinois	Livingstone	12.60	1999
Davenport Water Pollution Control Plant	Iowa	Scott	1.60	1995
Cox Waste to Energy	Kentucky	Taylor	3.30	1995
Agrilectric Power Partners Ltd	Louisiana	Calcasieu	12.20	1995
Baton Rouge Biomass Facility	Louisiana	Lake Charles	13.50	
IMC Phosphates Company Uncle Sam	Louisiana	St. James Parrish	20.46	1968
Jeanerette Biomass Facility	Louisiana	Jeanerette	2.00	
Ashland Biomass Facility	Maine	Ashland	40.00	

Boralex Beaver Livermore Falls	Maine	Androscoggin	35.88	1992
Boralex Fort Fairfield	Maine	Aroostook	31.00	1987
Boralex Stratton Energy	Maine	Franklin	45.70	1989
Bucksport Mill	Maine	Hancock	23.25	1965
Deblois Biomass Facility	Maine	Deblois	22.00	
Domtar – Woodland Mill	Maine	Washington	23.00	1966
East Millinocket Mill	Maine	Penobscot	19.04	1954
Forster Strong Mill	Maine	Franklin	0.85	1980
Fort Fairfield Biomass Facility	Maine	Fort Fairfield	36.00	
Greenville Steam	Maine	Piscataquis	19.00	1988
Indeck Jonesboro Energy Center	Maine	Washington	26.80	1987
Indeck West Enfield Energy Center	Maine	Penobscot	25.60	1987
J & L Electric	Maine	Franklin	0.35	1980
J & L Electric	Maine	Franklin	0.50	2004
Jonesboro Biomass Facility	Maine	Jonesboro	24.50	
Lincoln Paper & Tissue	Maine	Penobscot	10.00	2007
Livermore Biomass Facility	Maine	Livermore Falls	40.00	
Maine Energy Recovery	Maine	York	18.00	1987
MMWAC Resource Recovery Facility	Maine	Androscoggin	2.10	1992
NENG_ME_Biomass	Maine	NA	16.00	2011
Penobscot Energy Recovery	Maine	Penobscot	21.20	1987
Regional Waste Systems	Maine	Cumberland	11.50	1988
S D Warren Westbrook	Maine	Cumberland	26.88	1982
Sherman Biomass Facility	Maine	Sherman Station	20.00	
Somerset Plant Biomass Facility	Maine	Somerset	38.13	1976
Stratton Biomass Facility	Maine	Stratton	48.00	1989
West Enfield Biomass Facility	Maine	West Enfield	24.50	
Wheelabrator Sherman Energy Facility	Maine	Penobscot	21.00	1986
Worcester Energy	Maine	Washington	13.00	1989
Montgomery County Resource Recovery	Maryland	Montgomery	54.00	1995
Wheelabrator Baltimore Refuse	Maryland	Baltimore City	61.30	1984
Covanta Haverhill	Massachusetts	Essex	42.78	1989
Pinetree Power Fitchburg	Massachusetts	Worcester	17.00	1992
Pioneer Valley Resource Recovery	Massachusetts	Hampden	7.50	1988
SEMASS Resource Recovery	Massachusetts	Plymouth	80.00	1988
Ware Cogeneration	Massachusetts	Hampshire	4.09	2006
Wheelabrator Millbury Facility	Massachusetts	Worcester	40.00	1987
Wheelabrator North Andover	Massachusetts	Essex	33.00	1985
Wheelabrator Saugus	Massachusetts	Essex	32.00	1985
Cadillac Renewable Energy	Michigan	Wexford	36.80	1993

Central Michigan University Biomass Facility	Michigan	Isabella	0.95	1987
Genesee Power Station LP	Michigan	Genesee	35.00	1995
Grayling Generating Station	Michigan	Crawford	36.20	1992
Greater Detroit Resource Recovery	Michigan	Wayne	63.61	1988
Hillman Power LLC	Michigan	Montmorency	17.80	1987
Kent County Waste to Energy Facility	Michigan	Kent	15.70	1989
Viking Energy of Lincoln	Michigan	Alcona	16.00	1989
Viking Energy of McBain	Michigan	Missaukee	16.00	1988
White Pine Electric Power	Michigan	Ontonagon	18.00	1954
Bayport Biomass Facility	Minnesota	Bayport	6.00	
Central Minn. Ethano	Minnesota	NA	0.95	2006
Covanta Hennepin Energy	Minnesota	Hennepin	33.70	1989
Duluth Biomass Facility	Minnesota	Duluth	7.00	
Elk River	Minnesota	Sherburne	29.80	1951
Fibrominn Biomass Power Plant	Minnesota	Swift	55.00	2007
Hibbing	Minnesota	St. Louis	20.00	2007
M L Hibbard	Minnesota	St. Louis	48.60	1988
MRO_MN_Biomass	Minnesota	NA	16.50	2011
Olmsted Waste Energy	Minnesota	Olmsted	2.70	1987
Perham Incinerator	Minnesota	Otter Tail	1.20	2003
Rapids Energy Center	Minnesota	Itasca	22.50	1980
Red Wing Biomass Facility	Minnesota	Goodhue	24.00	1949
St. Paul Biomass Facility	Minnesota	St Paul	25.00	
Virginia	Minnesota	St. Louis	15.00	2007
Wilmarth Biomass Facility	Minnesota	Blue Earth	24.00	1948
Leaf River Cellulose LLC	Mississippi	Perry	37.50	1984
Papillion Creek Wastewater	Nebraska	Sarpy	1.50	1987
NWPE_NV_Biomass	Nevada	NA	1.00	2011
Alexandria Biomass Facility	New Hampshire	Alexandria	15.00	
Berlin Gorham Biomass Facility	New Hampshire	Coos	5.00	1948
Bridgewater Power LP	New Hampshire	Grafton	16.00	1987
Burgess BioPower	New Hampshire	Berlin	75.00	2013
Hemphill Power & Light	New Hampshire	Sullivan	14.13	1987
NENG_NH_Biomass	New Hampshire	NA	17.50	2011
Pinetree Power Bethlehem	New Hampshire	Grafton	15.00	1987
Pinetree Power Tamworth	New Hampshire	Carroll	20.00	1987
Schiller	New Hampshire	Rockingham	36.97	2006
Schiller Station	New Hampshire	Portsmouth	50.00	
Springfield Power LLC Biomass Facility	New Hampshire	Springfield	16.00	
Tillotson Rubber	New Hampshire	Coos	0.70	1978

Wheelabrator Claremont Facility	New Hampshire	Sullivan	4.50	1987
Wheelabrator Concord Facility	New Hampshire	Merrimack	14.00	1989
Whitefield Power & Light	New Hampshire	Coos	14.50	1987
American Ref-Fuel of Essex	New Jersey	Essex	60.00	1990
Camden Resource Recovery Facility	New Jersey	Camden	30.00	1991
Covanta Warren Energy	New Jersey	Warren	10.00	1988
Middlesex Generating Facility	New Jersey	Middlesex	18.80	2001
Union County Resource Recovery	New Jersey	Union	37.50	1994
Wheelabrator Gloucester LP	New Jersey	Gloucester	12.00	1990
Southside Water Reclamation Plant	New Mexico	Bernalillo	6.40	1987
American Ref-Fuel of Hempstead	New York	Nassau	67.70	1989
American Ref-Fuel of Niagara	New York	Niagara	18.00	1980
Chateaugay Biomass Facility	New York	Chateaugay	20.00	1993
Covanta Babylon Energy	New York	Suffolk	14.36	1989
Dutchess County Resource Recovery Agency	New York	Dutchess	7.20	1987
Huntington Resource Recovery Facility	New York	Suffolk	25.00	1991
Lyonsdale Biomass LLC	New York	Lewis	19.00	1992
MacArthur Waste to Energy Facility	New York	Suffolk	4.60	1990
Montgomery Biomass Facility	New York	Montgomery	24.00	
Ogdensburg Power	New York	St. Lawrence	25.00	2009
Onondaga County Resource Recovery	New York	Onondaga	30.00	1994
Oswego County Energy Recovery	New York	Oswego	3.34	1986
Wheelabrator Hudson Falls, LLC	New York	Washington	11.50	1991
Wheelabrator Westchester	New York	Westchester	51.00	1984
Craven County Wood Energy LP	North Carolina	Craven	48.00	1990
Green Power Kenansville	North Carolina	Duplin	32.40	1986
New Hanover County WASTEC	North Carolina	New Hanover	3.60	1991
Sauder Power Plant	Ohio	Fulton	7.20	1993
Biomass One	Oregon	White City	30.00	
Biomass One LP	Oregon	Jackson		1985
Co-Gen II LLC	Oregon	Douglas	6.98	1987
Co-Gen LLC	Oregon	Grant	6.98	1986
Covanta Marion Inc.	Oregon	Marion	11.50	1986
Evergreen Biopower LLC	Oregon	Lyons	10.00	
Klamath Falls Power Plant	Oregon	Klamath Falls	42.00	
Medford Operation Biomass Facility	Oregon	Jackson	7.50	1956
PNW_OR_Biomass	Oregon	NA	13.20	2011
Prairie City Biomass Facility	Oregon	Prairie City	10.00	

Riddle Biomass Facility	Oregon	Riddle	7.50	
Rough and Ready Lumb	Oregon	Josephine	1.70	2007
Short Mountain Biomass Facility	Oregon	Lane	3.20	1993
Wauna Mill Biomass Facility	Oregon	Clatsop	20.00	1996
American Ref-Fuel of Delaware Valley	Pennsylvania	Delaware	80.00	1991
Koopers Susquehanna Plant	Pennsylvania	Lycoming	11.50	1988
Lancaster County Resource Recovery	Pennsylvania	Lancaster	32.40	1990
MACW_PA_Biomass	Pennsylvania	NA	30.00	2011
Montenay Montgomery LP	Pennsylvania	Montgomery	28.00	1991
Montgomery Biomass Facility	Pennsylvania	Montgomery	7.50	
P H Glatfelter	Pennsylvania	York	22.40	1993
Spring Grove Biomass Facility	Pennsylvania	Spring Grove	24.00	
Viking Energy of Northumberland	Pennsylvania	Northumberland	16.00	1988
Wheelabrator Falls	Pennsylvania	Bucks	48.10	1994
York County Resource Recovery	Pennsylvania	York	28.00	1989
Charleston Resource Recovery Facility	South Carolina	Charleston	9.50	1989
Pinelands Allendale	South Carolina	Allendale	17.8	2013
Pinelands Dorchester	South Carolina	Dorchester	17.8	2013
Stone Container Florence Mill	South Carolina	Florence	15.27	1974
Stone Container Florence Mill	South Carolina	Florence	7.63	1963
McMinnville	Tennessee	Warren	1.80	2005
Celanese Biomass Facility	Texas	Gray	13.00	1964
ENTG_TX_Biomass	Texas	NA	14.20	2011
ERCT_TX_Biomass	Texas	NA	50.09	2011
Lufkin Power Plant	Texas	Lufkin	50.00	2009
Nacogdoches Power Plant	Texas	Sacul	100.00	
Rhodia Houston Plant	Texas	Harris	6.00	1970
Snider Industries	Texas	Harrison	5.00	1983
Woodville Renewable Energy Project	Texas	Tyler	50.00	
Wasatch Energy Systems Energy Recovery	Utah	Davis	1.40	1986
Berkshire Cow Power	Vermont	Franklin	0.30	2007
Blue Spruce Farm Ana	Vermont	Addison	0.30	2005
Burlington Biomass Facility	Vermont	Burlington	50.00	
Green Mtn Dairy	Vermont	Franklin	0.30	2007
J C McNeil	Vermont	Chittenden	52.00	1984
Montagne Farms	Vermont	Franklin	0.30	2007
Ryegate Power Station	Vermont	Caledonia	20.00	1992
Covanta Alexandria/Arlington Energy	Virginia	Alexandria	29.00	1987
Covanta Fairfax Energy	Virginia	Fairfax	79.00	1990

Multitrade of Pittsylvania LP	Virginia	Pittsylvania	79.64	1994
Scott Wood Biomass Facility	Virginia	Amelia	3.40	2003
South Boston Energy Plant	Virginia	Halifax	49.90	2013
SPSA Waste To Energy Power Plant	Virginia	Portsmouth	46.50	1987
Stone Container Hopewell Mill	Virginia	Hopewell (city)	20.35	1980
Aberdeen Biomass Facility	Washington	Aberdeen	12.00	
Colville Indian Power & Veneer Facility	Washington	Okanogan	12.50	2002
Everett Cogen	Washington	Snohomish	36.00	1996
Kettle Falls Generating Station	Washington	Stevens	50.00	1983
Longview Fiber Power	Washington	Longview	54.00	
PNW_WA_Biomass	Washington	NA	16.25	2011
Sierra Pacific Aberdeen	Washington	Grays Harbor	16.50	2003
Sierra Pacific Burlington Facility	Washington	Skagit	25.00	2006
Simpson Tacoma Biomass Facility	Washington	Tacoma	50.00	
S.P. Everett Biomass Facility	Washington	Burlington	20.00	
West Point Treatment Plant	Washington	King	3.90	1983
Wheelabrator Spokane	Washington	Spokane	26.00	1991
Bay Front	Wisconsin	Ashland	74.00	1954
E J Stoneman Station	Wisconsin	Grant	50.00	2009
French Island Biomass Facility	Wisconsin	La Crosse	28.00	1940
MMSD South Shore Wastewater	Wisconsin	Milwaukee	1.40	2000
Minergy Neenah Biomass Facility	Wisconsin	Winnebago	6.50	1999
Project Apollo Power Plant	Wisconsin	Milwaukee	40.00	
Rothschild Cogeneration Plant	Wisconsin	Marathon	50.00	2013

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One Response to “Biomass Power Plants In the United States”

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Ed Gee says:

August 13, 2013 at 12:01 pm



Thank you for the webpage and spreadsheet. Do you have additional information on location or distance of biomass? In general, would the radius be 50 mile radius from the biomass power plant be the norm? There would be aberrations to the norm, of course.

Also, do you provide projections in the future about the increase (%) of biomass power plants? Thank you for the information.

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