

Reference plants for the use of Biomass



Extraction from the Total List of References

15 plants thereof as EPC

List of References of Biomass Power Plants

Biomass Power Plant St. Johann, Austria

Fritz Egger GmbH & Co. OG



Thermal input	:	45	MW
Steam capacity	:	52	t/h
Steam pressure	:	85	bar
Steam temperature	:	500	°C
Electrical power	:	14,5	MW
Fuel	:	Waste wood A1- A4, granulate, recycling dust, natural gas	
Scope	:	Chute to stack	
Year of commissioning	:	2026	

Biomass Cogeneration Plant Hannover-Stoecken, Germany

BEH Bioenergie Hannover GmbH



Thermal input	:	90	MW
Steam capacity	:	102	t/h
Steam pressure	:	71	bar
Steam temperature	:	461	°C
Electrical power	:	19	MW
Fuel	:	Waste wood A3- A4	
Scope	:	EPC-T	
Year of commissioning	:	2024	

E-wood Energiecentrale NV, Beveren, Belgium

E-Wood Energiecentrale NV



Thermal input	:	71,3	MW
Steam capacity	:	86	t/h
Steam pressure	:	73	bar
Steam temperature	:	453	°C
Electrical power	:	20	MW
Fuel	:	Waste wood A3- A4, various biomasses	
Scope	:	EPC	
Year of commissioning	:	2022	

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Biomass Power Plant Rambervillers, France

Egger Panneaux & Décors



Thermal input	:	55	MW
Steam capacity	:	55	t/h
Steam pressure	:	80	bar
Steam temperature	:	500	°C
Electrical power	:	9,6	MW
Fuel	:	Waste wood (A1-A4), fresh wood, wood dusts, natural gas	
Scope	:	Boiler Island	
Year of commissioning	:	2018	

Biomass Power Plant Widnes, Great Britain

Burmeister & Wain Energy A/S (BWSC)



Thermal input	:	70	MW
Steam capacity	:	81,7	t/h
Steam pressure	:	80	bar
Steam temperature	:	468	°C
Electrical power	:	20,2	MW
Fuel	:	Waste wood A1 - A4, fuel oil	
Scope	:	Boiler Island	
Year of commissioning	:	2016	

Biomass Power Plant Speyside, Great Britain

Estover Energy Ltd.



Thermal input	:	46	MW
Steam capacity	:	52	t/h
Steam pressure	:	95	bar
Steam temperature	:	510	°C
Electrical power	:	12,5	MW
Fuel	:	Fresh wood	
Scope	:	EPC	
Year of commissioning	:	2016	

List of References of Biomass Power Plants

Biomass Power Plant Kauai, Hawaii, USA

Green Energy Team LLC



Thermal input	:	27,3	MW
Steam capacity	:	32	t/h
Steam pressure	:	79	bar
Steam temperature	:	477	°C
Electrical power	:	6,7	MW
Fuel	:	Fresh wood	
Scope	:	EPC	
Year of commissioning	:	2015	

Biomass Power Plant Radauti, Romania

Fritz Egger GmbH & Co.



Thermal input, max.	:	83	MW
Thermal input (grate/dust)	:	78/10	MW
Steam capacity	:	55	t/h
Steam pressure	:	71	bar
Steam temperature	:	465	°C
Hot gas extraction	:	43	MW
Electrical power	:	15	MW
Fuel	:	Waste wood A1-A4, wood residues	
Scope	:	Chute to Stack	
Year of commissioning	:	2013	

Biomass Power Plant II, Crotone, Italy

Biomasse Italia S.p.A.



Thermal input	:	2 x	48	MW
Steam capacity	:	2 x	56,5	t/h
Steam pressure	:		92	bar
Steam temperature	:		522	°C
Electrical power	:		31,5	MW
Fuel	:	Fresh wood, olive residues, palm kernel shells		
Scope	:	Boiler Island		
Year of commissioning	:	2012		

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Biomass Cogeneration Plant II, Ulm, Germany

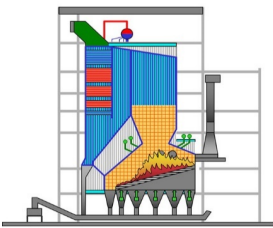
Fernwärme Ulm GmbH



Thermal input	:	25	MW
Steam capacity	:	28	t/h
Steam pressure	:	79	bar
Steam temperature	:	480	°C
Electrical power	:	5	MW
Fuel	:	Fresh wood, waste wood A1-A2	
Scope	:	Chute to Stack	
Year of commissioning	:	2012	

Korindo Biomass Power Plant, Korindo, Indonesia (License)

Techno SK



Thermal input	:	27	MW
Steam capacity	:	32	t/h
Steam pressure	:	45	bar
Steam temperature	:	440	°C
Fuel	:	Wood chips	
Scope	:	Boiler Island	
Year of commissioning	:	2012	

AVR-Afvalverwerking, Rozenburg, The Netherlands

N. V. Afvalverwerking Rijnmond



Thermal input	:	72	MW
Steam capacity	:	82	t/h
Steam pressure	:	68	bar
Steam temperature	:	465	°C
Electrical power	:	22	MW
Fuel	:	Waste wood A1-A4	
Scope	:	EPC	
Year of commissioning	:	2008	

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Biomass Power Plant BEC Twence, Hengelo, The Netherlands Twence Holding B.V.



Thermal input	:	73	MW
Steam capacity	:	80	t/h
Steam pressure	:	68	bar
Steam temperature	:	465	°C
Electrical power	:	20	MW
Fuel	:	Waste wood A1-A4	
Scope	:	EPC	
Year of commissioning	:	2007	

Biomass Power Plant Eberswalde, Germany 1Heiz Energie GmbH (formerly HOKAWE Eberswalde GmbH)



Thermal input	:	65	MW
Steam capacity	:	68	t/h
Steam pressure	:	82	bar
Steam temperature	:	482	°C
Electrical power	:	20	MW
Fuel	:	Fresh wood	
Scope	:	EPC	
Year of commissioning	:	2006	

Biomass Power Plant Unterradlberg, Austria Fritz Egger GmbH & Co.



Thermal input	:	40	MW
Steam capacity	:	45	t/h
Steam pressure	:	60	bar
Steam temperature	:	452	°C
Electrical power	:	10	MW
Fuel	:	Wood residues (s), grinding dust, waste wood	
Scope	:	Chute to Stack	
Year of commissioning	:	2006	

List of References of Biomass Power Plants

Biomass Power Plant II, Wismar, Germany

Fritz Egger GmbH & Co.



Thermal input	:	40	MW
Steam capacity	:	45	t/h
Steam pressure	:	66	bar
Steam temperature	:	452	°C
Electrical power	:	6,5	MW
Fuel	:	Wood residues (s), grinding dust, waste wood, natural gas	
Scope	:	Chute to Stack	
Year of commissioning	:	2006	

BMK Lünen, Germany

BMK Biomassekraftwerk Lünen GmbH



Thermal input	:	67	MW
Steam capacity	:	80	t/h
Steam pressure	:	68	bar
Steam temperature	:	462	°C
Electrical power	:	20	MW
Fuel	:	Waste wood A1-A4	
Scope	:	EPC	
Year of commissioning	:	2006	

BVA Hagen Kabel, Hagen, Germany

BVA Hagen-Kabel GmbH



Thermal input	:	2 x	43	MW
Steam capacity	:	2 x	45	t/h
Steam pressure	:		60	bar
Steam temperature	:		452	°C
Electrical power	:		20	MW
Fuel	:	Waste wood A1-A4		
Scope	:	EPC		
Year of commissioning	:	2005		

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Biomass Power Plant Ulm, Germany

Fernwärme Ulm GmbH



Thermal input	:	57,2	MW
Steam capacity	:	64	t/h
Steam pressure	:	64	bar
Steam temperature	:	452	°C
Electrical power	:	8,6	MW
Fuel	:	Waste wood A1-A4, natural gas, fuel oil	
Scope	:	EPC	
Year of commissioning	:	2004	

Biomass CHP Plant Elsterwerda, Germany

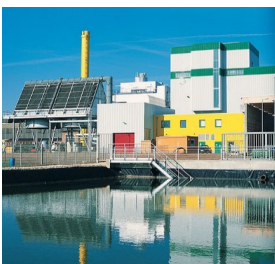
Danpower (formerly Advice2Bau Bau Controlling & Management GmbH, Düsseldorf (KITG))



Thermal input	:	44	MW
Steam capacity	:	50	t/h
Steam pressure	:	66	bar
Steam temperature	:	452	°C
Electrical power	:	12	MW
Fuel	:	Waste wood A1-A2, natural gas, fuel oil	
Scope	:	EPC	
Year of commissioning	:	2004	

Wood CHP Plant Silbitz, Germany

Plambeck Neue Energien AG



Thermal input	:	25,8	MW
Steam capacity	:	28	t/h
Steam pressure	:	45	bar
Steam temperature	:	425	°C
Electrical power	:	5,6	MW
Fuel	:	Waste wood A1-A2	
Scope	:	EPC	
Year of commissioning	:	2003	

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Biomass Power Plant II, Bando d'Argenta, Italy

Carlo Gavazzi Impianti S.p.A.



Thermal input	:	2 x	43,6	MW
Steam capacity	:	2 x	46	t/h
Steam pressure	:		73	bar
Steam temperature	:		493	°C
Electrical power	:	2 x	11	MW
Fuel	:			Fresh wood
Scope	:			Boiler Island
Year of commissioning	:			2002

Biomass Power Plant I, Crotone, Italy

Biomasse Italia S.p.A.



Thermal input	:		43,6	MW
Steam capacity	:		46	t/h
Steam pressure	:		73	bar
Steam temperature	:		493	°C
Electrical power	:		11	MW
Fuel	:			Fresh wood
Scope	:			Boiler Island
Year of commissioning	:			2002

Biomass Power Plant Bazeilles, France

Unilin S.A.



Thermal input	:		62	MW
Steam capacity saturated steam	:		26	t/h
Design pressure	:		16	bar
Steam temperature	:		200	°C
Hot gas to the dryer	:		28	MW _{th}
Thermal oil heater	:		12	MW _{th}
Steam generator	:		17,7	MW _{th}
Fuel	:			Grinding dust, granules, fibre, bark, wood
Scope	:			Boiler Island
Year of commissioning	:			2002

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Biomass Power Plant Baruth, Germany

Kunz Holding GmbH & Co



Thermal input	:	2 x	40	MW
Steam capacity boiler 1 + 2 each	:		46	t/h
Steam pressure, each	:		95	bar
Steam temperature, each	:		450	°C
Fuel	:	Waste wood A1-A4, grinding dust, granules		
Thermal input	:		30	MW
Steam capacity boiler 3	:		34	t/h
Steam pressure	:		95	bar
Steam temperature	:		480	°C
Fuel	:	Grinding dust		
Scope	:	Chute to Stack		
Year of commissioning	:	2002		

Biomass Power Plant Baena, Spain

Oleicola El Tejar



Thermal input	:		105	MW
Steam capacity	:		110	t/h
Steam pressure	:		64	bar
Steam temperature	:		455	°C
Electrical power	:		25	MW
Fuel	:	Olive residues		
Scope	:	EPC		
Year of commissioning	:	2002		

Glunz, Nettgau Span, Germany

Sonae Arauco Deutschland AG (formerly Glunz AG)



<u>Hot gas generator</u>				
Thermal input	:		43	MW
Hot gas temperature to the dryer	:		820	°C
Fuel	:	Grinding dust, barks and rest wood		
Scope	:	Boiler Island		
Year of commissioning	:	2001		

Glunz, Nettgau OSB, Germany

Sonae Arauco Deutschland AG (formerly Glunz AG)



Hot gas generator

Thermal input	:	62	MW
Hot gas temperature to the dryer	:	820	°C
Fuel	:	Grinding dust, barks and rest wood	
Scope	:	Boiler Island	
Year of commissioning	:	2001	

Biomass Power Plant I, Unterradlberg, Austria

Fritz Egger GmbH & Co



Thermal input	:	40	MW
Steam capacity	:	56,3	t/h
Steam pressure	:	95	bar
Saturated steam temperature	:	317	°C
Electrical power	:	-	MW
Fuel	:	Grinding dust, granules, barks and waste wood	
Scope	:	Boiler Island	
Year of commissioning	:	2000	

Biomass Power Plant I, Wismar, Germany

Fritz Egger GmbH & Co.

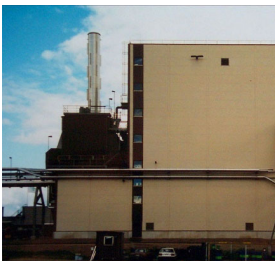


Thermal input	:	40	MW
Steam capacity	:	56,3	t/h
Steam pressure	:	95	bar
Saturated steam temperature	:	317	°C
Electrical power	:	-	MW
Fuel	:	Grinding dust, granules, rest wood	
Scope	:	Boiler Island	
Year of commissioning	:	1999	

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Biomass Power Plant, Suolahti, Finland

Kumpuniemen Voima Oy



Thermal input	:	29,5	MW
Steam capacity	:	33	t/h
Steam pressure	:	45,5	bar
Steam temperature	:	483	°C
Electrical power	:	-	MW
Fuel	:	Grinding dust, barks, rest wood from production	
Scope	:	Boiler Island	
Year of commissioning	:	1999	

Cowie Biomass Facility, Cowie, Great Britain

Norbord Europe Ltd. (formerly Caberboard Ltd.)



Thermal input	:	21	MW
Steam capacity	:	27,5	t/h
Steam pressure	:	19	bar
Saturated steam temperature	:	210	°C
Electrical power	:	-	MW
Fuel	:	Grinding dust, granules, wood chips Burner: oil and gas	
Scope	:	Boiler Island	
Year of commissioning	:	1998	

Biomass CHP Plant Wismar, Germany

Ilim Nordic Timber GmbH & Co. KG (formerly Klausner Nordic Timber)



Thermal input	:	32	MW
Steam capacity	:	36	t/h
Design pressure	:	58	bar
Steam temperature	:	450	°C
Electrical power	:	5	MW
Fuel	:	Bark, rest wood, wood from production	
Scope	:	EPC	
Year of commissioning	:	1998	