

**References Cogeneration Plants**

<b>Project</b>	<b>Location</b>	<b>Fuel</b>	<b>Capacity</b>	<b>Engine</b>	<b>Heat utilization</b>	<b>Service UTEC</b>	<b>Customer</b>	<b>Year</b>
<b>swimmin pool</b>	Emmerich Nordrhein-Westf.	natural gas	650 kW		domestic hot water and heating	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Emmerich	2014
<b>University</b>	Oldenburg	natural gas	1 x 889 kW 1 x 1.189 kW	Jenbacher	domestic hot water and heating	concept, draft- and detail planning, bids for tender	EWE AG	2013
<b>Local heating</b>	Lüneburg	biomethan	1 x 70 kW	Sokratherm GG70	local heating for residential houses	concept, draft- and detail planning, bids for tender, supervision, commissioning	Lüwobau	2013
<b>Gas transfer station</b>	Rotenburg	natural gas	1 x 34 kW	Mephisto G34 KraftWerk	gas heating in gas transfer station	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Rotenburg	2013
<b>Depot</b>	Bremen	natural gas	1 x 20 kW	Mephisto G20+ KraftWerk	domestic hot water and heating	concept, draft- and detail planning, bids for tender, supervision, commissioning	Umweltbetriebe Bremen	2013
<b>Meeting house</b>	Osterholz- Scharmbeck	natural gas	1 x 20 kW	Mephisto G20+ KraftWerk	domestic hot water and heating	concept, draft- and detail planning, bids for tender, supervision, commissioning	Landkreis OHZ	2012
<b>Retirement home</b>	Lilienthal	natural gas	1 x 20 kW	Energie- werkstatt 20/43	domestic hot water and heating	counseling, accompaniment of the construction project	Haus am Markt	2012
<b>Production operation</b>	Lilienthal	natural gas	1 x 20 kW	EC-Power	heating and process water	concept, draft- and detail planning, bids for tender, supervision, commissioning	Gewerbe	2012
<b>House building</b>	Verden	natural gas	1 x 20 kW	Mephisto G20+ KraftWerk	local heating supply	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Verden	2012

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<b>Airport Bremen</b>	Bremen	natural gas	1 x 387 kW	2G KWK-400EG	Local heat airport area	concept, draft- and detail planning, bids for tender, supervision, commissioning	Airport Bremen GmbH	2012
<b>Industry</b>	Bremen	natural gas	1 x 50 kW	G-Box 2G	space heating, integrated in a research project	concept, draft- and detail planning, bids for tender, supervision, commissioning	Deutsche Windtechnik	2012
<b>Heizhaus Weserstraße</b>	LK Verden Niedersachsen	biomethan gas	1 x 250 kW	2G agenitor 406 EG	local heating supply	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Verden	2012
<b>ARA Jever</b>	LK Wittmund Niedersachsen	sewage gas	1 x 50 kW	IET Bio 64 V01_50	heating of digester and commercial buildings	concept, draft- and detail planning, bids for tender, supervision, commissioning	EWE Wasser	2012
<b>Luhetalbad Bispingen</b>	Heidekreis Niedersachsen	natural gas	1 x 50 kW	Sokratherm MAN	Indoor-/outdoor swimming pool	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Munster- Bispingen	2012
<b>Lagerhaus Bremen</b>	Bremen	natural gas	1 x 20 kW	Mephisto G20+ KraftWerk	domestic hot water and heating	concept, draft- and detail planning, bids for tender, supervision, commissioning	Kulturzentrum Lagerhaus	2011/ -2012
<b>Local heating Barth</b>	LK Barth Mecklbg.-Vorp.	natural gas	1 x 889 kW	GE Jenbacher Gas-Otto	local heating supply	Repowering of an old modul, concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Barth	2011/ -2012
<b>2 schools Zeven</b>	LK Rotenburg Niedersachsen	natural gas	2 x 20 kW	Mephisto G20+ KraftWerk	domestic hot water and heating	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Zeven	2011

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<b>Hotel Rotenburg Wümme</b>	LK Rotenburg Niedersachsen	natural gas	1 x 20 kW	Mephisto G20+ KraftWerk	domestic hot water and heating	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Rotenburg	2011
<b>Botanika Bremen</b>	Bremen	natural gas	1 x 50 kW	G-Box 2G	domestic hot water and heating	concept, draft- and detail planning, bids for tender, supervision, commissioning	SUBV Land Bremen	2011
<b>Südbad Bremen</b>	Bremen	natural gas	1 x 50 kW	Comuna Volvo	pool/domestic hot water and heating	concept, draft- and detail planning, bids for tender, supervision, commissioning	Bremer Bäder	2011
<b>Stadtwerke depot Buxtehude</b>	LK Stade Niedersachsen	natural gas	1 x 20 kW	Mephisto G20+ KraftWerk	domestic hot water and heating	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Buxtehude	2011
<b>Indoor swimming pool Schoofmoor</b>	LK OHZ Niedersachsen	natural gas	1 x 250 kW	2G 250 EG	domestic hot water and heating	concept, draft- and detail planning, bids for tender, supervision, commissioning	Osterholzer Stadtwerke	2011
<b>Sewage Plant Herford</b>	Nordrhein- Westfalen	natural gas	2 x 250 kW	Sokratherm MAN	heating of sewage plant	concept, draft- and detail planning, bids for tender, supervision, commissioning	Abwasser Herford GmbH	2010/ -2011
<b>Heating system Rotenburg</b>	LK Rotenburg Niedersachsen	natural gas	2 x 1.166 kW	MTU AE 12V 4000	Heat supply for hospital facilities for disabled	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Rotenburg	2010/ -2011
<b>Residential buildings Buxtehude</b>	LK Stade Niedersachsen	natural gas	20 kW	Mephisto G20+ KraftWerk	heating buildings / fulfilment of renewable energy heating act	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stdadtwerke Buxtehude	2010
<b>Primary school Kloostergang Zeven</b>	LK Rotenburg Niedersachsen	natural gas	20 kW	Mephisto G20+ KraftWerk	heating buildings with new heating system with CHP	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Zeven	2010

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<b>Primary school Heeslingen Zeven</b>	LK Rotenburg Niedersachsen	natural gas	20 kW	Mephisto G20+ KraftWerk	heating buildings with new heating system with CHP	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Zeven	2010
<b>Indoor swimming pool Otterndorf</b>	LK Cuxhaven Niedersachsen	natural gas	50 kW	M.A.N Box-50 Gas-Otto	Heating of indoor swimming pool	concept, draft- and detail planning, bids for tender, supervision, commissioning	Samtgemeinde Hadeln	2010
<b>Sewage Plant Bünde</b>	Nordrhein-Westfalen	sewage gas	120 kW	Kuntschar&S. M.A.N. Gas-Otto	heating of sewage plant	concept, draft- and detail planning, bids for tender, supervision, commissioning	Kommunalverbund Bünde	2009/ 2010
<b>Local heating Zeven</b>	LK Rotenburg Niedersachsen	biomethan	580 kW	Sokratherm MWM Gas-Otto	domestic hot water and heating	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Zeven	2009
<b>Sewage Plant Cuxhaven</b>	LK Cuxhaven Niedersachsen	sewage gas	2 x 527 kW	GE Jenbacher Gas-Otto	heating of digester and commercial buildings	concept, draft- and detail planning, bids for tender, supervision, commissioning	E.W.E. AG	2009
<b>Kampahalle Minden</b>	LK Minden Nordrhein-Westf.	bio-methane	350 kW	not decided	heating and hot water	draft- and detail planning, bids for tender, supervision, commissioning	AML Immo	2008/ 2009
<b>Hospital Bad Oeynhausen</b>	LK Minden Nordrhein-Westf.	bio-methane	500 kW	not decided	heating and hot water	draft- and detail planning, bids for tender, supervision, commissioning	AML Immo	2008/ 2009
<b>Town hall Minden</b>	LK Minden Nordrhein-Westf.	bio-methane	ca. 250 kW	not decided	heating and hot water	draft- and detail planning, bids for tender, supervision, commissioning	AML Immo	2008/ 2009
<b>Diakonie Lobetal</b>	LK Celle Niedersachsen	natural gas	140 kW	Kuntschar&S. M.A.N. Gas-Otto	heating and hot water	draft- and detail planning, bids for tender, supervision, commissioning	Lobetalarbeit e.V. Celle Innere Mission	2008

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<b>Biogas Plant Negrete</b>	Region VIII Chile	biogas	35 kW	TS Ruhland Belarus Gas-Otto	digester, district heating boarding school	concept, draft- and detail planning, bids for tender, supervision, commissioning	UTECH / Sequa	2008
<b>Biogas Plant Schröder</b>	LK OHZ Niedersachsen	biogas	365 kW	Sokratherm M.A.N. Gas-Otto	digester, district heating farm houses	concept, draft- and detail planning, bids for tender, supervision, commissioning	Schröder Biogas GbR	2008
<b>Biogas Plant Banja Luka</b>	Banja Luka Bosnien	biogas	43 kW	TS Ruhland Belarus Gas-Otto	digester, farm dairy and farm houses	concept, draft- and detail planning, bids for tender, supervision, commissioning	Caritas	2008
<b>Biogas Plant Liebenburg</b>	LK Goslar Niedersachsen	biogas	537 kW	pro2 Deutz Gas-Otto	digester, district heating hospital	concept, draft- and detail planning, bids for tender, supervision, commissioning	Bioenergie Lewe GmbH	2007
<b>Biogas Plant Hüde</b>	LK Diepholz Niedersachsen	biogas / palm oil	265 kW	Schnell Scania Diesel engine	digester, farm dairy and farm houses	concept, draft- and detail planning, bids for tender, supervision, commissioning	Jacob Biogas GbR	2007
<b>Biogas Plant Rauschenberg</b>	LK Marburg Hessen	biogas	500 kW	GE Jenbacher Jenbacher Gas-Otto	digester, district heating farm houses	concept, draft- and detail planning, bids for tender, supervision, commissioning	TRI-S GmbH & Co KG	2007
<b>Biogas Plant Neetze</b>	Neetze Niedersachsen	biogas	537 kW	Haase Deutz Gas-Otto	digester, biogas plant building	concept, draft- and detail planning, bids for tender, supervision, commissioning	e3 Bioenergie GmbH & Co KG	2007
<b>Biogas Plant Staffel</b>	LK Marburg Hessen	biogas / palm oil	265 kW	Schnell Scania Diesel engine	digester, district heating farm houses	concept, draft planning, consultatcy about connection with the electrical grid	Biogas Staffel GbR	2007

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<b>Aschendorf I Palm Oil Cogeneration Plant</b>	Ostfriesland Niedersachsen	palm oil	240 kW	M.A.N. Diesel engine	greenhouse heating	permission planning	EWE AG	2007
<b>Aschendorf II Palm Oil Cogeneration Plant</b>	Ostfriesland Niedersachsen	palm oil	344 kW	M.A.N. Diesel engine	greenhouse heating	permission planning	EWE AG	2007
<b>Wiesmoor Palm Oil Cogeneration Plant</b>	Ostfriesland Niedersachsen	palm oil	317 kW	M.A.N. Diesel engine	greenhouse heating	permission planning	EWE AG	2007
<b>Wastewater Treatment Plant Rotenburg</b>	LK Rotenburg Niedersachsen	biogas	52 kW	Sokratherm M.A.N. Gas-Otto	digester, plant buildings	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Rotenburg (W.)	2007
<b>Wastewater Treatment Plant Bremen-Farge</b>	Bremen-Nord	biogas	350 kW Gas-Otto	Sokratherm M.A.N. Gas-Otto	digester, plant buildings	concept, draft- and detail planning, bids for tender, supervision, commissioning	Hansewasser	2006
<b>Biogas Plant Elm</b>	LK Wolfenbüttel Niedersachsen	biogas	500 kW	Deutz Gas-Otto	digester, district heating hospital "Neuerkeroder Anstalten"	concept, draft- and detail planning, bids for tender, supervision, commissioning	Bioenergie Elm Betriebs GmbH	2006
<b>Biogas Plant Düversbruch</b>	LK Diepholz Niedersachsen	biogas / palm oil	2 x 265 kW	Schnell Scania Diesel engine	digester industrial utilization	concept, draft- and detail planning, bids for tender, supervision, commissioning	Fangmeier Biogas GmbH & Co KG	2006
<b>Wastewater Treatment Plant Delmenhorst</b>	Delmenhorst Niedersachsen	biogas	500 kW	Deutz Gas-Otto	digester, plant buildings	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Delmenhorst	2005
<b>Orphanage St. Petri</b>	LK OHZ Niedersachsen	natural gas	18 kW	Kraftwerk Ford Gas-Otto	district heating, hot water	concept, draft- and detail planning, bids for tender, supervision, commissioning	St. Petri Kinder- u. Jugendhilfe e.V.	2005

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<b>Biogas Plant Grüne Energie</b>	LK Rotenburg Niedersachsen	biogas	2 x 350 kW	SEVA Caterpillar Gas-Otto	digester, biogas plant building; fire wood drying	concept, draft- and detail planning, bids for tender, supervision, commissioning	Grüne Energie GmbH & Co KG	2005
<b>Biogas Plant Wüsthof</b>	Soltau Niedersachsen	biogas	1.020 kW	Haase Deutz Gas-Otto	digester, district heating with farm- and industrial buildings	concept, draft- and detail planning, bids for tender, supervision, commissioning	Wüsthof Biogas GmbH	2005
<b>District Heating Soltau-Therme</b>	City of Soltau Niedersachsen	natural gas	2 x 1400 kW	GE Jenbacher Jenbacher Gas-Otto	district heating	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Soltau	2004
<b>Biogas Plant Humuswerk</b>	Amt Neuhaus Niedersachsen	biogas	330 kW	GE Jenbacher Jenbacher Gas-Otto	biogas plant buildings, aquaculture	concept, draft- and detail planning, bids for tender, supervision, commissioning	Hanseatische Humus GmbH	2003
<b>Biogas Plant Jakarta</b>	Jakarta Indonesien	biogas	40 kW	Sokratherm Deutz Gas-Otto	slaughterhouse	concept, draft- and detail planning, bids for tender, supervision, commissioning	TÜV Rheinland	2003
<b>Biogas Plant Wüsthof</b>	Soltau Niedersachsen	biogas	1.020 kW	GE Jenbacher Jenbacher Gas-Otto	digester, district heating with farm- and industrial buildings	concept, draft- and detail planning, bids for tender, supervision, commissioning	Wüsthof Biogas GmbH	2003
<b>Biogas Plant Wüsthof</b>	Soltau Niedersachsen	biogas	650 kW	Deutz Gas-Otto	digester, district heating with farm- and industrial buildings	concept, draft- and detail planning, bids for tender, supervision, commissioning	Wüsthof Biogas GmbH	2002
<b>Swimming Baths Rotenburg</b>	LK Rotenburg Niedersachsen	natural gas	350 kW	M.A.N. Gas-Otto	swimming baths	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Rotenburg (W.)	1999
<b>Wastewater Treatment Plant Zeven</b>	LK Rotenburg Niedersachsen	biogas	200 kW	M.W.M. Gas-Otto	digester, plant buildings	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Zeven	1999

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<b>Swimming Baths Ottersberg</b>	LK Verden Niedersachsen	natural gas	2 x 110 kW	AN M.A.N. Gas-Otto	swimming baths	concept, draft- and detail planning, bids for tender, supervision, commissioning	Gemeindewerke Ottersberg	1997
<b>Biogas Plant Wüsthof/Soltau</b>	Stadt Soltau Niedersachsen	biogas	2 x 110 kW	AN M.A.N. Gas-Otto	digester, district heating with farm- and industrial buildings	concept, draft- and detail planning, bids for tender, supervision, commissioning	Wüsthof Biogas GmbH	1997
<b>Shipyard SSW</b>	Bremerhaven	natural gas	3 x 108 kW	AN M.A.N. Gas-Otto	shipyard with boilers, 2,5 MWth	concept, draft- and detail planning, bids for tender, supervision, commissioning	Schichau- Seebeck-Werft	1997
<b>Wastewater Treatment Plant Thedinghausen</b>	LK Verden Niedersachsen	biogas	50 kW	Sokratherm M.A.N. Gas-Otto	digester, plant buildings	concept, draft- and detail planning, bids for tender, supervision, commissioning	Gemeinde Thedinghausen	1996
<b>District Heating Barth</b>	LK Barth Mecklbg.-Vorp.	natural gas	3 x 800 kW	MDE M.A.N. Gas-Otto	district heating city of Barth	concept, draft- and detail planning, bids for tender, supervision, commissioning	Stadtwerke Barth	1995
<b>District Heating Auf den Häfen</b>	Bremen	natural gas	50 kW	Sokratherm M.A.N. Gas-Otto	district heating with 40 business and private users	concept, draft- and detail planning, bids for tender, supervision, commissioning	Tandem GmbH	1995
<b>Wastewater Treatment Plant Bremen-Farge</b>	Bremen-Nord	biogas	200 kW	Zeppelin Caterpillar Gas-Otto	digester, plant buildings	concept, draft- and detail planning, bids for tender, supervision, commissioning	Hansewasser	1995
<b>Swimming Baths Ottersberg</b>	Emmerich Nordrhein-Westf.	natural gas	2 x 495 kW	GE Jenbacher Jenbacher Gas-Otto	swimming baths	Sanierungs- und Optimierungsgutachten, Kostenschätzung, Vorplanung	Stadtwerke Emmerich	1995
<b>Swimming Baths Vegesack</b>	Bremen-Nord	natural gas	2x108 kW Gas-Otto	AN M.A.N. Gas-Otto	swimming baths	concept, draft- and detail planning, bids for tender, supervision, commissioning	GÖB Bremen	1994



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<b>Compact Shipyard MTW</b>	Stadt Wismar Mecklbg.-Vorp.	natural gas	2 x 450 kW	GE Jenbacher Jenbacher Gas-Otto	district heating shipyard	Konzepterstellung, Kosten- schätzung, Wirtschaftlichkeits- analyse, Bauüberwachung	MTW	1993
<b>Swimming Baths Bremervörde</b>	LK Rotenburg Niedersachsen	natural gas	108 kW Gas-Otto	AN M.A.N. Gas-Otto	swimming baths	Konzept, Vor- und Detailplanung, Ausschreibung, Bauüberwachung, Inbetriebnahme	Stadtwerke Bremervörde	1992
<b>Wastewater Treatment Plant Bremervörde</b>	LK Rotenburg Niedersachsen	biogas	72 kW Gas-Otto	AN M.A.N. Gas-Otto	digester, plant buildings	Konzept, Vor- und Detailplanung, Ausschreibung, Bauüberwachung, Inbetriebnahme	Stadtwerke Bremervörde	1990
<b>Wastewater Treatment Plant Bramsche</b>	LK Bramsche Niedersachsen	biogas / natural gas	3 x 72 kW Gas-Otto	AN M.A.N. Gas-Otto	digester, plant buildings	Konzept, Vor- und Detailplanung, Ausschreibung, Bauüberwachung, Inbetriebnahme	Stadtwerke Bramsche	1990
<b>Wastewater Treatment Plant Seehausen</b>	Bremen	biogas	3 x 800 kW 2 x 800 kW Druckluft	Deutz Gas-Otto	digester, plant buildings	Energiekonzept mit den Schwerpunkten Kraft-Wärme- Kopplung und Abwärmepotentiale	BEB Bremen	1990
<b>Wastewater Treatment Plant Bremen-Farge</b>	Bremen-Nord	biogas	2 x 120 kW	M.W.M. Gas-Otto	digester, plant buildings	Konzept, Vor- und Detailplanung, Ausschreibung, Bauüberwachung, Inbetriebnahme	BEB Bremen	1985