



## World-wide list of references

Updated February 2013

	Client	Country	Biogas flow & H <sub>2</sub> S Capacity	Year	Substrate	Power (MW)	Engine make
1	Natural Palm Oil	Thailand	420 m <sup>3</sup> /h 2.200 ppm => 100	2005	Palm oil waste water	1	GEJ
2	Lynggard Biogas	Denmark	500 m <sup>3</sup> /h 3.000 ppm => 200	2005	Animal waste	1	GEJ
3	Nysted Biogas	Denmark	750 m <sup>3</sup> /h 3.000 ppm => 200	2005	Animal waste	1	GEJ
4	Ribe Biogas	Denmark	1.100 m <sup>3</sup> /h 1.500 ppm => 200	2005	Animal waste	2	CAT
5	Thai Biogas Energy Company	Thailand	600 m <sup>3</sup> /h 2.200 ppm => 100	2006	Cassava waste water	1,4	GEJ
6	Linkogas	Denmark	1.100 m <sup>3</sup> /h 1.500 ppm => 200	2006	Animal waste	2	CAT
7	Blaahoj Energiselskab	Denmark	500 m <sup>3</sup> /h 3.000 ppm => 200	2006	Animal waste	1	GEJ
8	GE Jenbacher	Italy	170 m <sup>3</sup> /h 800 ppm => 200	2006	Animal waste	0,3	GEJ
9	Hashoj Biogas	Denmark	1.350 m <sup>3</sup> /h 3.000 ppm => 200	2007	Animal waste	3,8	CAT + MWM +
10	Preseco	Finland	160 m <sup>3</sup> /h 4.000 ppm => 100	2007	Municipal waste water		Gas Turbine
11	P & Papop	Thailand	1.250 m <sup>3</sup> /h 3.000 ppm => 250	2007	Cassava waste water	3	Guascor
12	Lundsby Bioenergi - Gedsted Biogas	Denmark	900 m <sup>3</sup> /h 1.000 ppm => 200	2007	Animal waste	2	GEJ
13	Shakarganj Mills, Phase 1	Pakistan	2.500 m <sup>3</sup> /h 30.000 ppm => 250	2008	Ethanol-distillery Molasses spent wash	4	GEJ
14	Xergi - Veendam Biogas Plant	Netherlands	2.000 m <sup>3</sup> /h 2.000 ppm => 250	2008	Animal waste	5	GEJ
15	Extractora del Atlantico, Phase 1	Guatemala	500 m <sup>3</sup> /h 3.000 ppm => 200	2008	Palm oil waste water	1	GEJ
16	Italthai - CleanThai -Khorat Waste to Energy	Thailand	1.600 m <sup>3</sup> /h 3.000 ppm => 200	2008	Cassava waste water	3	GEJ
17	Waste Solutions	New Zealand	250 m <sup>3</sup> /h 800 ppm => 250	2008	Municipal waste water	0,2	CAT
18	Poldanor - Plaszczycza	Poland	300 m <sup>3</sup> /h 2.000 ppm => 250	2008	Animal waste	0,5	GEJ
19	Italthai - Trang Palm Oil	Thailand	1.100 m <sup>3</sup> /h 3.000 ppm => 50	2009	Palm oil waste water	2	GEJ
20	Extractora del Atlantico, Phase 2	Guatemala	500 m <sup>3</sup> /h 3.000 ppm => 200	2009	Palm oil waste water	1	GEJ

21	Environmental Fabrics - Olmeca	Guatemala	1.000 m <sup>3</sup> /h 3.000 ppm => 200	2009	Palm oil waste water	2	GEJ
22	Italthai - KI Ethanol	Thailand	1.670 m <sup>3</sup> /h 30.000 ppm => 250	2009	Ethanol-distillery Molasses spent wash	3	GEJ
23	Shakarganj Mills, Phase 2	Pakistan	2.500 m <sup>3</sup> /h 30.000 ppm => 250	2009	Ethanol-distillery Molasses spent wash	4	GEJ
24	Italthai - Tachana Palm Oil	Thailand	1.100 m <sup>3</sup> /h 3.000 ppm => 50	2009	Palm oil waste water	2	GEJ
25	UAB Manfula	Lithuania	3.300 m <sup>3</sup> /h 2.500 ppm => 200	2009	Ethanol-distillery Wheat spent wash	4	Waukesha
26	Italthai - TBEC, Tha Chang Palm Oil	Thailand	1.600 m <sup>3</sup> /h 5.000 ppm => 100	2010	Palm oil waste water	3	GEJ
27	GFE Krogenskær	Denmark	1.200 m <sup>3</sup> /h 3.000 ppm => 10	2010	Animal waste	1,4	GEJ
28	Sistem Yapi - Konya WWTP	Turkey	1.000 m <sup>3</sup> /h 1.300 ppm => 150	2010	Municipal waste water	2	GEJ
29	Italthai - SK Power	Thailand	2.000 m <sup>3</sup> /h 3.000 ppm => 100	2010	Palm oil waste water	5,2	GEJ
30	Jerusalem Wastewater and Purification Ent.	Israel	1.000 m <sup>3</sup> /h 2.500 ppm => 100	2010	Municipal waste water	2	GEJ
31	Waterous Power Systems	Canada	2.200 m <sup>3</sup> /h 3.000 ppm => 100	2011	Municipal waste water	4,2	CAT
32	DDACE / Krüger Lachute, Quebec	Canada	6.500 m <sup>3</sup> /h 1.300 ppm => 50	2011	Landfill	10	CAT
33	Italthai - VG Energy-Thung Kha	Thailand	1.500 m <sup>3</sup> /h 2.500 ppm => 100	2011	Palm oil waste water	3	GEJ
34	Italthai - VG Energy-Thasae	Thailand	2.500 m <sup>3</sup> /h 2.500 ppm => 100	2011	Palm oil waste water	5,2	GEJ
35	Lundsby Bioenergi - Roager Biogas	Denmark	1.200 m <sup>3</sup> /h 2.000 ppm => 50	2011	Energy crops	1	MAN + GEJ
36	RosRoca -Biffa Poplars Site	UK	2.500 m <sup>3</sup> /h 3.000 ppm => 300	2011	Food industry waste water	4	MWM
37	JD Energy -Tian Siang	Malaysia	1.200 m <sup>3</sup> /h 3.000 ppm => 150	2011	Palm oil waste water	3	GEJ
38	Eiamsiri Biogas	Thailand	1.600 m <sup>3</sup> /h 2.500 ppm => 100	2011	Cassava waste water	3	MWM
39	Italthai - CPI	Thailand	1.100 m <sup>3</sup> /h 3.000 ppm => 100	2011	Palm oil waste water	3	GEJ
40	Undisclosed client	Brazil	350 m <sup>3</sup> /h 30.000 ppm => 250	2011	Ethanol-distillery Molasses spent wash	1,4	GEJ
41	QL Resources	Malaysia	1.500 m <sup>3</sup> /h 2.500 ppm => 100	2011	Palm oil waste water	3	MWM
42	Retech - Roi Et Group I	Thailand	1.000 m <sup>3</sup> /h 3.500 ppm => 100	2011	Cassava waste water	2,4	GEJ
43	Retech - Roi Et Group II	Thailand	1.200 m <sup>3</sup> /h 2.000 ppm => 100	2011	Cassava waste water	3	Guascor
44	Retech - Roi Et Group III	Thailand	700 m <sup>3</sup> /h 3.000 ppm => 100	2011	Cassava waste water	1,4	GEJ

45	Retech - Roi Et Group IV	Thailand	700 m <sup>3</sup> /h 3.000 ppm => 100	2011	Cassava waste water	1,4	GEJ
46	Smith Power Products - Cargill, ID	USA	1.700 m <sup>3</sup> /h 4.500 ppm => 250	2011	Animal waste	2,2	Guascor
47	AE Resources - Hilmar Cheese, TX	USA	850 m <sup>3</sup> /h 4.500 ppm => 50	2011	Food industry waste water		Boilers
48	DU Digital - NSL Sugars Ltd.	India	650 m <sup>3</sup> /h 35.000 ppm => 200	2011	Ethanol-distillery Molasses spent wash	1,4	GEJ
49	AE Resources - EMC / American Waters, WA	USA	595 m <sup>3</sup> /h 5.000 ppm => 1.200	2011	Municipal waste water	1	
50	Nixon Energy, FL	USA	2.380 m <sup>3</sup> /h 900 ppm => 100	2011	Landfill	5	GEJ
51	Undisclosed client	Morocco	750 m <sup>3</sup> /h 2.000 ppm => 250	2011	Municipal waste water	1,4	GEJ
52	DU Digital - Vishwa Infrastructure & Services	India	290 m <sup>3</sup> /h 10.000 ppm => 200	2011	Sewage Treatment Plant	0,7	GEJ
53	Topec	Cambodia	1.500 m <sup>3</sup> /h 2.500 ppm => 200	2011	Cassava waste water	2	GEJ
54	Shabat Group I	Indonesia	2.000 m <sup>3</sup> /h 2.500 ppm => 100	2011	Cassava waste water	3	GEJ
55	Sahabat Group II	Indonesia	2.000 m <sup>3</sup> /h 2.500 ppm => 100	2011	Cassava waste water	3	GEJ
56	C.I. Tequendama S.A.	Colombia	1.200 m <sup>3</sup> /h 2.000 ppm => 250	2012	Palm oil waste water	3	Shengdong
57	ItalThai - Sanguan Wongse Industries	Thailand	4.000 m <sup>3</sup> /h 3.000 ppm => 100	2012	Cassava waste water	4,2	GEJ
58	ItalThai - Sri Savai Palm Oil	Thailand	550 m <sup>3</sup> /h 3.000 ppm => 100	2012	Palm oil waste water	1	GEJ
59	Inland Power Group - Bush Brothers, WI	USA	650 m <sup>3</sup> /h 8.500 ppm => 200	2012	Food industry waste water	0,6	GEJ
60	PT. Karya	Indonesia	600 m <sup>3</sup> /h 3.000 ppm => 200	2012	Palm oil waste water	1,3	
61	Shandong Heng Neng	China	850 m <sup>3</sup> /h 12.500 ppm => 200	2012	Paper Mill		CNG
62	Molinos Juan Semino	Argentina	960 m <sup>3</sup> /h 5.000 ppm => 250	2012	Maize starch waste water		Boilers
63	Maabjerg	Denmark	3.600 m <sup>3</sup> /h 3.000 ppm => 80	2012	Animal waste	5	GEJ
64	Muzzam Teknologi - Felda Umas	Malaysia	800 m <sup>3</sup> /h 2.500 ppm => 250	2012	Palm oil waste water	2	Guascor
65	JD Energy -Tian Siang - Expansion	Malaysia	1.300 m <sup>3</sup> /h 3.000 ppm => 150	2012	Palm oil waste water	2,5	GEJ
66	Undisclosed client	South Africa	500 m <sup>3</sup> /h 2.000 ppm => 100	2012	WWTP	1	Guascor
67	Inland Power Group -Freemont Digester	USA	1.360 m <sup>3</sup> /h 3.000 ppm => 200	2012	Food industry waste water	3,5	GEJ
68	Undisclosed client	Thailand	1.400 m <sup>3</sup> /h 1.000 ppm => 100	2012	Cassava waste water	3	GEJ

69	Italthai – Southern Palm (1978)	Thailand	1.000 m <sup>3</sup> /h 3.000 ppm => 50	2012	Palm oil waste water	2	GEJ
70	Extractora del Atlántico - Phase 3	Guatemala	1.000 m <sup>3</sup> /h 2.500 ppm => 250	2012	Palm oil waste water	2	GEJ
71	Italthai - JR One	Thailand	1.100 m <sup>3</sup> /h 3.000 ppm => 100	2012	Palm oil waste water	3	GEJ
72	Undisclosed client	Turkey	340 m <sup>3</sup> /h 3.400 ppm => 250	2013	WWTP	0,6	
73	Italthai -TBEC	Laos	1.200 m <sup>3</sup> /h 3.500 ppm => 100	2013	Palm oil waste water		Boilers
74	Italthai - Roi Et Group, SIMA	Thailand	1.400 m <sup>3</sup> /h 3.000 ppm => 100	2013	Cassava waste water	3	GEJ
75	MAS-Konya WWTP	Turkey	1.500 m <sup>3</sup> /h 5.000 ppm => 400	Under commissioning	Municipal waste water	2	GEJ
76	Italthai – Southern Palm (1993)	Thailand	2.000 m <sup>3</sup> /h 3.000 ppm => 50	Under construction	Palm oil waste water	4	GEJ
77	DU Digital - KITL	India	500 m <sup>3</sup> /h 7.500 ppm => 200	Under construction	Food industry waste water	1	Waukesha
78	Fypasa - Planta de Leon	Mexico	875 m <sup>3</sup> /h 4.000 ppm => 250	Under construction	WWTP	1,5	Guascor
79	Energen Solutions	Australia	450 m <sup>3</sup> /h 3.000 ppm => 250	Under construction	WWTP	1	MWM
80	Smith Power	Mexico	4.000 m <sup>3</sup> /h 1.000 ppm => 150	Under construction	WWTP	8	GEJ
81	Seen Technologies	Vietnam	3.000 m <sup>3</sup> /h 2.500 ppm => 100	Under construction	Cassava waste water	5	
82	Industrias Juan Secco	Argentina	790 m <sup>3</sup> /h 1.500 ppm => 50	Under construction	Petro gas	1,2	GEJ
83	Undisclosed client	Canada	1.450 m <sup>3</sup> /h 3.000 ppm => 200	Under construction	Food industry waste water	3	GEJ
84	Italthai - Roi Et Group, Chanthaburi	Thailand	2.800 m <sup>3</sup> /h 3.000 ppm => 100	Under construction	Cassava waste water	5	GEJ
85	Italthai - Roi Et Group, Roi Et	Thailand	1.400 m <sup>3</sup> /h 3.000 ppm => 100	Under construction	Cassava waste water	3	GEJ
86	Italthai - Roi Et Group, PVD	Thailand	1.800 m <sup>3</sup> /h 3.000 ppm => 100	Under construction	Cassava waste water	4	GEJ
87	Italthai- Roi Et Group, Kalasin	Thailand	1.800 m <sup>3</sup> /h 3.000 ppm => 100	Under construction	Cassava waste water	4	GEJ
88	Yakin Melia	Malaysia	1.250 m <sup>3</sup> /h 3.000 ppm => 200	Under construction	Animal Waste	3	GEJ
89	Shandong Heng Neng	China	200 m <sup>3</sup> /h 12.000 ppm => 200	Under construction	Paper Mill	0,5	Jinan
90	Undisclosed client	Morocco	1.440 m <sup>3</sup> /h 3.000 ppm => 500	Under construction	WWTP	3	GEJ
91	Retech - CCY	Thailand	1.300 m <sup>3</sup> /h 3.000 ppm => 100	Under construction	Cassava waste water	3	MWM + GEJ
92	Retech - VP Starch	Thailand	800 m <sup>3</sup> /h 3.000 ppm => 100	Under construction	Cassava waste water	2	GEJ
93	Italthai - Tachana Expansion	Thailand	1.100 m <sup>3</sup> /h 3.000 ppm => 50	Under construction	Palm oil waste water	3	GEJ

94	Undisclosed client	USA	935 m3/h 2.000 ppm => 50	Under construction	WWTP	2	
95	Oiltek Nova	Indonesia	1.200 m3/h 2.500 ppm => 100	Under construction	Palm oil waste water	3	
96	Biopower - Havys Project	Malaysia	1.500 m3/h 3.000 ppm => 100	Under construction	Palm oil waste water	3	GEJ
97	JD Energy - TSH Plantation	Malaysia	250 m3/h 3.000 ppm => 100	Under construction	Palm oil waste water	0,6	GEJ
98	DU Digital - Vitthal Sugar	India	750 m3/h 30.000 ppm => 200	Under construction	Ethanol-distillery Molasses spent wash	1,5	
99	DU Digital - KITL II	India	500 m3/h 7.000 ppm => 200	Under construction	Food industry waste water	1	Waukesha
100	Ithalthai - TBEC UNI	Thailand	1.500 m3/h 3.500 ppm => 100	Under construction	Palm oil waste water	3	
101	Ithalthai - TBEC UNK	Thailand	1.200 m3/h 3.500 ppm => 100	Under construction	Palm oil waste water	3	
102	Undisclosed client	Canada	2.400 m3/h 15.000 ppm => 45	Under construction	Paper & Pulp	6	GEJ
103	EuroAsiatic-Austindo Aufwind	Indonesia	750 m3/h 3.000 ppm => 100	Under construction	Palm oil waste water	1,5	MWM
104	Undisclosed client	Thailand	5.000 m3/h 18.000 ppm => 200	Under construction	Ethanol-distillery Molasses spent wash	10	GEJ
105	Inland Power Group - MMPA	USA	3.900 m3/h 2.500 ppm => 200	Under construction	Food industry waste water	5	Cummins
106	WEC Projects - Driefontain	South Africa	400 m3/h 2.000 ppm => 100	Under construction	WWTP	0,8	GEJ
107	Sahabat Group - Medan, North Sumatra	Indonesia	600 m3/h 3.000 ppm => 100	Under construction	Palm oil waste water	1,2	

<b>Total capacity in MW</b>	<b>269</b>
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