

## Biogasclean - List of references as of June 31, 2023

No.	Client	Country	Project No.	Type	Year	Biogas flow (m <sup>3</sup> /h)	Off-gas flow (m3/h)	H <sub>2</sub> S in Biogas / Off-gas (ppm)	H <sub>2</sub> S in clean gas (ppm)	Substrate	Power (MW) / Upgrading	Engine / Upgrading
1	Lynggard Biogas	Denmark	N/A	QSR	2005	500	200	3.000	100	Codigestion	1	Jenbacher
2	Nysted Biogas	Denmark	N/A	QSR	2005	750	300	3.000	200	Codigestion	1	Jenbacher
3	Ribe Biogas	Denmark	N/A	QSR	2005	1.100	440	1.500	200	Codigestion	2	CAT
4	Natural Palm Oil	Thailand	N/A	QSR	2005	420	168	2.200	100	Palm oil waste water	1	Jenbacher
5	Linkogas	Denmark	N/A	QSR	2006	1.100	440	1.500	200	Codigestion	2	CAT
6	Blaahoj Energiselskab	Denmark	N/A	QSR	2006	500	200	3.000	200	Codigestion	1	Jenbacher
7	Mamusa	Italy	N/A	Container	2006	170	68	800	200	Codigestion	0,3	Jenbacher
8	TBEC	Thailand	N/A	QSR	2006	600	240	2.200	100	Cassava waste water	1,4	Jenbacher
9	Hashoj Biogas	Denmark	N/A	QSR	2007	1.350	540	3.000	200	Codigestion	3,8	CAT
10	Gedsted Biogas	Denmark	N/A	OS	2007	900	360	1.000	200	Codigestion	2	Jenbacher
11	Preseco	Finland	N/A	QSR	2007	160	64	4.000	100	Public WWTP	0,2	Gas turbine
12	Papop	Thailand	N/A	QSR	2007	1.250	500	3.000	250	Cassava waste water	3	Guascor
13	Italthai - Khorat Waste to Energy	Thailand	41000	QSR	2008	1.600	640	3.000	200	Cassava waste water	3	Jenbacher
14	Waste Solutions	New Zealand	41001	PE	2008	250	100	800	250	Public WWTP	0,2	CAT
15	Poldanor - Plaszczycza	Poland	41006	PE	2008	300	120	2.000	250	Codigestion	0,5	Jenbacher
16	Extractor del Atlantico, Phase 1	Guatemala	N/A	Container	2008	500	200	3.000	200	Palm oil waste water	1	Jenbacher
17	Xergi - Veendam Biogas Plant	Netherlands	N/A	QSR	2008	2.000	800	2.000	250	Codigestion	5	Jenbacher
18	Shakarganj Mills, Phase 1	Pakistan	N/A	OS	2008	2.500	1.000	30.000	250	Ethanol distillery - molasses	4	Jenbacher
19	Extractor del Atlantico, Phase 2	Guatemala	41002	Container	2009	500	200	3.000	200	Palm oil waste water	1	Jenbacher
20	Italthai - KI Ethanol	Thailand	41003	OS	2009	1.670	668	30.000	250	Ethanol distillery - molasses	3	Jenbacher
21	Italthai - Trang Palm Oil	Thailand	41004	QSR	2009	1.100	440	3.000	50	Palm oil waste water	2	Jenbacher
22	Shakarganj Mills, Phase 2	Pakistan	41005	OS	2009	2.500	1.000	30.000	250	Ethanol distillery - molasses	4	Jenbacher
23	UAB Manfula	Lithuania	41007	QSR	2009	3.300	1.320	2.500	200	Ethanol distillery - wheat	6	Waukesha
24	Environmental Fabrics - Olmeca	Guatemala	41008	Container	2009	1.000	400	3.000	200	Palm oil waste water	2	Jenbacher
25	Italthai - Tachana, Phase 1	Thailand	41011	QSR	2009	1.100	440	3.000	50	Palm oil waste water	2	Jenbacher
26	Italthai - SK Power	Thailand	41014	QSR	2010	2.000	800	3.000	100	Palm oil waste water	5,2	Jenbacher
27	Sistem Yapi - Konya WWTP	Turkey	41015	Container	2010	1.000	400	1.300	150	Public WWTP	2	Jenbacher
28	Italthai - TBEC, Tha Chang, Phase 1	Thailand	41017	QSR	2010	1.600	640	5.000	100	Palm oil waste water	3	Jenbacher
29	Jerusalem WWTP	Israel	41018	QSR	2010	1.000	400	2.500	100	Public WWTP	2	Jenbacher
30	GFE Krogenskær	Denmark	41022	QSR	2010	1.200	480	3.000	10	Codigestion	1,4	Jenbacher
31	Omnis Biogas	Brazil	41019	QSR	2011	350	140	30.000	250	Ethanol distillery - molasses	1,4	Jenbacher
32	Waterous - Calgary City	Canada	41020	QSR	2011	2.200	880	3.000	100	Public WWTP	4,2	CAT
33	Undisclosed client	Morocco	41023	QSR	2011	750	300	2.000	250	Public WWTP	1,4	Jenbacher
34	QL Resources	Malaysia	41025	QSR	2011	1.500	600	2.500	100	Palm oil waste water	3	MWM
35	DDACE - Krüger Landfill, Quebec	Canada	41026	QSR	2011	6.500	2.600	1.300	50	Landfill	11	CAT
36	Ros Roca - Biffa Poplars Site	UK	41028	QSR	2011	2.500	1.000	3.000	300	Food industry waste water	4	MWM
37	JD Energy - Tian Siang, Phase 1	Malaysia	41029	QSR	2011	1.200	480	3.000	150	Palm oil waste water	3	Jenbacher
38	DU Digital - NSL Sugars	India	41033	OS	2011	650	260	35.000	200	Ethanol distillery - molasses	1,4	Jenbacher

39	Smith Power Products - Cargill, ID	USA	41031	QSR	2011	1.700	680	4.500	250	Codigestion	2,2	Guascor
40	DU Digital - Vishwa Infrastructure	India	41034	QSR	2011	290	116	10.000	200	Public WWTP	0,7	Jenbacher
41	Topec	Cambodia	41035	QSR	2011	1.500	600	2.500	200	Cassava waste water	2	Jenbacher
42	Roi Et Group, Covered lagoon	Thailand	41036	QSR	2011	700	280	3.000	100	Cassava waste water	1,4	Jenbacher
43	Roi Et Group, UASB	Thailand	41037	QSR	2011	700	280	3.000	100	Cassava waste water	1,4	Jenbacher
44	Roi Et Group, PVD	Thailand	41038	QSR	2011	1.200	480	2.000	100	Cassava waste water	3	Guascor
45	Roi Et Group, SIMA	Thailand	41039	QSR	2011	1.000	400	3.500	100	Cassava waste water	2,4	Jenbacher
46	Italthai - VG Energy, Thasae	Thailand	41040	QSR	2011	2.500	1.000	2.500	100	Palm oil waste water	5,2	Jenbacher
47	Italthai - VG Energy, Thung Kha	Thailand	41041	QSR	2011	1.500	600	2.500	100	Palm oil waste water	3	Jenbacher
48	Holbæk Bioenergi, Roager	Denmark	41045	QSR	2011	1.200	480	2.000	50	Codigestion	2	Jenbacher
49	Eiamsiri Biogas	Thailand	41046	QSR	2011	1.600	640	2.500	100	Cassava waste water	3	MWM
50	Prima Flo - Sinar Permatang 1	Indonesia	41047	QSR	2011	2.000	800	2.500	100	Cassava waste water	3	Jenbacher
51	Prima Flo - Sinar Permatang 2	Indonesia	41047	QSR	2011	2.000	800	2.500	100	Cassava waste water	3	Jenbacher
52	AE Resources - American Waters, WA	USA	41048	QSR	2011	595	238	5.000	1.200	Public WWTP	1,5	Boiler
53	AE Resources - Hilmar Cheese, TX	USA	41051	QSR	2011	850	340	4.500	50	Food industry waste water	2	Boiler
54	Italthai - CPI, Phase 1	Thailand	41052	QSR	2011	1.100	440	3.000	100	Palm oil waste water	3	Jenbacher
55	Nixon Energy - Port Charlotte Landfill, FL	USA	41056	QSR	2011	2.380	952	900	100	Landfill	5	Jenbacher
56	Italthai - Sanguan Wongse Industries	Thailand	41012	QSR	2012	4.000	1.600	3.000	100	Cassava waste water	4,2	Jenbacher
57	Molinos Juan Semino	Argentina	41013	QSR	2012	960	384	5.000	250	Food industry waste water	2,5	Boiler
58	Tequendama	Colombia	41024	QSR	2012	1.200	480	2.000	250	Palm oil waste water	3	Shengdong
59	Italthai - Sri Savai Palm Oil	Thailand	41027	QSR	2012	550	220	3.000	100	Palm oil waste water	1	Jenbacher
60	Italthai - Southern Palm (1978)	Thailand	41042	QSR	2012	1.000	400	3.000	50	Palm oil waste water	2	Jenbacher
61	Inland Power - Bush Brothers, WI	USA	41049	QSR	2012	650	260	8.500	200	Food industry waste water	0,6	Jenbacher
62	Karya Mas - PTPN 5	Indonesia	41054	QSR	2012	600	240	3.000	200	Palm oil waste water	1,3	Guascor
63	Undisclosed client	Thailand	41058	QSR	2012	1.400	560	1.000	100	Cassava waste water	3	Jenbacher
64	Shandong Heng Neng	China	41060	QSR	2012	850	340	12.500	200	Paper & Pulp	2	Boiler
65	Muzzam Teknologi - Felda, Umas	Malaysia	41061	QSR	2012	800	320	2.500	250	Palm oil waste water	2	Guascor
66	Italthai - JR One, Phase 1	Thailand	41062	QSR	2012	1.100	440	3.000	100	Palm oil waste water	3	Jenbacher
67	Maabjerg Bioenergy	Denmark	41063	QSR	2012	3.600	1.440	3.000	80	Codigestion	5	Jenbacher
68	Inland Power - Fremont Digester, MI	USA	41066	QSR	2012	1.360	544	3.000	200	Food industry waste water	3,5	Jenbacher
69	JD Energy - Tian Siang, Phase 2	Malaysia	41075	QSR	2012	1.300	520	3.000	150	Palm oil waste water	2,5	Jenbacher
70	WEC Projects - Northern Works WWTP	South Africa	41079	QSR	2012	500	200	2.000	100	Public WWTP	1	MWM
71	Extractor del Atlántico, Phase 3	Guatemala	41080	Container	2012	1.000	400	2.500	250	Palm oil waste water	2	Jenbacher
72	Fypasa - Planta de Leon	Mexico	41053	QSR	2012	875	350	4.000	250	Public WWTP	1,5	Guascor
73	Seen Technologies	Vietnam	41059	QSR	2012	3.000	1.200	2.500	100	Cassava waste water	5	Jenbacher
74	Yakin Melia	Malaysia	41073	QSR	2012	1.250	500	3.000	200	Codigestion	3	Jenbacher
75	VP Starch	Thailand	41084	QSR	2012	800	320	3.000	100	Cassava waste water	2	Jenbacher
76	Undisclosed client	Morocco	41081	QSR	2012	1.440	576	3.000	500	Public WWTP	3	Jenbacher
77	Chokyuenyoung Industry (CCY)	Thailand	41083	QSR	2012	1.300	520	3.000	100	Cassava waste water	3	MWM
78	Oiltek Nova - KLK	Indonesia	41087	QSR	2012	1.200	480	2.500	100	Palm oil waste water	3	Guascor

79	MAS - Konya WWTP	Turkey	41092	QSR	2012	1.500	600	5.000	400	Public WWTP	2	Jenbacher
80	Ithalthai - TBEC UNU	Thailand	41093	QSR	2012	1.500	600	3.500	100	Cassava waste water	3	Jenbacher
81	Ithalthai - TBEC UNK	Thailand	41094	QSR	2012	1.200	480	3.500	100	Cassava waste water	3	Jenbacher
82	Ithalthai - Tachana, Phase 2	Thailand	41085	QSR	2012	1.100	440	3.000	50	Palm oil waste water	3	Jenbacher
83	Italthai - Southern Palm (1993)	Thailand	41044	QSR	2013	2.000	800	3.000	50	Palm oil waste water	4	Jenbacher
84	Undisclosed client	Canada	41065	QSR	2013	1.450	580	3.000	200	Food industry waste water	3	Jenbacher
85	Italthai - Roi Et Group, SIMA	Thailand	41067	QSR	2013	1.400	560	3.000	100	Cassava waste water	3	Jenbacher
86	Italthai - Roi Et Group, CE 5, Chanthaburi	Thailand	41068	QSR	2013	2.800	1.120	3.000	100	Cassava waste water	5	Jenbacher
87	Italthai-Roi Et Group, CE 6, Kalasin	Thailand	41071	QSR	2013	1.800	720	3.000	100	Cassava waste water	4	Jenbacher
88	Biopower - Havys Project	Malaysia	41072	QSR	2013	1.500	600	3.000	100	Palm oil waste water	3	Jenbacher
89	Italthai - TBEC	Laos	41076	QSR	2013	1.200	480	3.500	100	Palm oil waste water	3	Boiler
90	Undisclosed client	Turkey	41077	QSR	2013	340	136	3.400	250	Food industry waste water	0,6	Jenbacher
91	HRSO - Atlantic Plant, VA	USA	41086	QSR	2013	935	374	2.000	50	Public WWTP	2	NNN
92	JD Energy - TSH Plantation	Malaysia	41089	ECO	2013	250	100	3.000	100	Palm oil waste water	0,6	Jenbacher
93	EuroAsiatic - Austindo Aufwind	Indonesia	41096	QSR	2013	750	300	3.000	100	Palm oil waste water	1,5	MWM
94	Inland Power - MMPA, MN	USA	41098	QSR	2013	3.900	1.560	2.500	200	Public WWTP	5	Cummins
95	CPI, Phase 2	Thailand	41105	QSR	2013	1.100	440	3.000	200	Palm oil waste water	2,2	Jenbacher
96	WEC Projects - Driefontain WWTP	South Africa	41088	QSR	2013	400	160	2.000	100	Public WWTP	0,8	Jenbacher
97	CTO Future NRG	Indonesia	41099	QSR	2013	600	240	3.000	100	Palm oil waste water	1,2	Jenbacher
98	Jeng Haut Realty	Malaysia	41104	QSR	2013	1.000	400	3.000	150	Palm oil waste water	2	MWM
99	Undisclosed client	France	41106	QSR	2013	1.700	680	11.000	200	Food industry waste water	4	Boiler
100	Lipp - Sedenak Palm Oil Mill	Malaysia	41109	OS	2013	1.000	400	2.000	200	Palm oil waste water	2	Jenbacher
101	Costell - Hadera Paper	Israel	41110	QSR	2013	600	240	7.000	250	Paper & Pulp	1,2	MWM
102	Undisclosed client	Canada	41101	OS	2013	1.846	738	20.000	100	Paper & Pulp	4	Jenbacher
103	Chew Agriculture	Singapore	41113	ECO	2013	360	144	2.000	200	Codigestion	0,7	Schnell
104	Smith Power Products - Atlatec	Mexico	41057	QSR	2014	4.000	1.600	1.000	150	Public WWTP	8	Jenbacher
105	Industrias Juan Secco	Argentina	41064	QSR	2014	790	316	1.500	50	Petrogas	1,2	Jenbacher
106	Italthai - Roi Et Group, CE 1, Roi Et	Thailand	41069	QSR	2014	1.400	560	3.000	100	Cassava waste water	3	Jenbacher
107	Italthai - Roi Et Group, CE 3, PVD	Thailand	41070	QSR	2014	1.800	720	3.000	100	Cassava waste water	4	Jenbacher
108	DU Digital - Vitthal Sugar	India	41090	OS	2014	750	300	30.000	200	Ethanol distillery - molasses	1,5	Jenbacher
109	Ubon Bio Ethanol	Thailand	41097	OS	2014	5.000	2.000	18.000	200	Ethanol distillery - molasses	10	Jenbacher
110	DU Digital - IOT, Mabagas	India	41102	QSR	2014	1.250	500	5.000	200	Public WWTP	3	MWM
111	Haifa - Upgrading	Israel	41103	QSR	2014	1.100	440	3.500	200	Public WWTP	2,5	Jenbacher
112	JR One, Phase 2	Thailand	41107	QSR	2014	1.100	440	3.000	100	Palm oil waste water	2,2	Jenbacher
113	DU Digital - Satia Papers	India	41108	QSR	2014	150	60	12.500	200	Paper & Pulp	0,3	MTU
114	Biogreen Power	Thailand	41114	QSR	2014	1.250	500	3.500	200	Ethanol distillery - cassava	2,5	Jenbacher
115	J/V Aktor	Greece	41115	QSR	2014	2.500	1.000	2.000	70	Public WWTP	5	Jenbacher
116	Sanut	Dominican Republic	41116	ECO	2014	230	92	1.700	200	Codigestion	0,5	Jenbacher
117	Varec Biogas - Truckee Meadows, NV	USA	41119	QSR	2014	1.530	612	1.900	95	Public WWTP	1	Jenbacher
118	TBEC - Chokwallapa	Thailand	41123	QSR	2014	1.400	560	4.220	100	Palm oil waste water	3	Jenbacher

119	TBEC - Tha Chang, Phase 2	Thailand	41124	QSR	2014	2.800	1.120	4.220	100	Palm oil waste water	6	Jenbacher
120	DU Digital - Nava Bharat Agro	India	41126	QSR	2014	500	200	5.000	200	Palm oil waste water	1	Waukesha
121	Yamato - PUB Jurong WWTP	Singapore	41127	QSR	2014	2.400	960	250	100	Public WWTP	5	Jenbacher
122	DU Digital - Pepsi 150 m3/h, Ranjangaon	India	41128	ECO	2014	150	60	3.000	200	Brewery	0,5	Jenbacher
123	Industrias del Espino	Peru	41111	QSR	2014	850	340	2.000	200	Palm oil waste water	1,7	Waukesha
124	Agricola Ancali	Chile	41117	QSR	2014	850	340	2.000	500	Codigestion	2	CAT
125	TT Rematech - Felda	Malaysia	41118	QSR	2014	800	320	3.000	150	Palm oil waste water	1,5	Jenbacher
126	Universal Robina Corp.	Philippines	41120	ECO	2014	140	56	3.530	100	Codigestion	0,3	MAN
127	Multico - PTPN 10, Mojokerto	Indonesia	41121	OS	2014	1.100	440	15.000	200	Ethanol distillery - molasses	3	Guascor
128	Swing Water - KKSJ	Malaysia	41125	QSR	2014	2.500	1.000	3.000	100	Palm oil waste water	5	Capstone
129	Shandong Heng Neng	China	41130	QSR	2014	500	200	23.000	200	Paper & Pulp	1	Boiler
130	Prima Flo - AES, Sampoerna Agro	Indonesia	41133	QSR	2014	1.200	480	3.000	100	Palm oil waste water	3	Guascor
131	Prima Flo - AES Mutiara Bunda Jaya	Indonesia	41134	QSR	2014	1.200	480	3.000	100	Palm oil waste water	3	Guascor
132	SC Return - Valcea WWTP	Romana	41122	PE	2014	120	48	2.000	100	Public WWTP	0,2	Jenbacher
133	Eneraque - Anaeco	Australia	41055	QSR	2015	450	180	3.000	250	Public WWTP	1	MWM
134	DU Digital - KITL	India	41091	QSR	2015	500	200	7.000	200	Food industry waste water	1	Waukesha
135	DU Digital - Pepsi 300 m3/h, Kolkotta	India	41129	ECO	2015	300	120	3.000	200	Brewery	0,5	Jenbacher
136	NP Bio Energy	Thailand	41135	QSR	2015	1.700	680	2.500	200	Cassava waste water	3	Jenbacher
137	Palm Mas Abadi- PTPN 2	Indonesia	41136	QSR	2015	600	240	3.000	200	Palm oil waste water	1	NNN
138	United Plantations, Ulu Basir Mill	Malaysia	41137	QSR	2015	600	240	3.000	100	Palm oil waste water	1,2	MWM
139	United Plantations, UIE Mill	Malaysia	41138	QSR	2015	600	240	3.000	100	Palm oil waste water	1,2	MWM
140	Yamato - PUB Changi WWTP	Singapore	41139	QSR	2015	1.200	480	250	100	Public WWTP	3	Jenbacher
141	Prima Flo - PT SMART, Libo Mill	Indonesia	41140	QSR	2015	1.000	400	2.500	100	Palm oil waste water	2	Jenbacher
142	Prima Flo - PT SMART, Rama Mill	Indonesia	41141	QSR	2015	1.000	400	2.500	100	Palm oil waste water	2	Jenbacher
143	GLT Energy - Cheekah Kemayan	Malaysia	41144	QSR	2015	650	260	4.000	250	Palm oil waste water	1,4	Jenbacher
144	GLT Energy - Sawira Makmur	Malaysia	41145	QSR	2015	650	260	4.000	250	Palm oil waste water	1,4	Jenbacher
145	Thai Bev - Ubon Ratchathani	Thailand	41147	QSR	2015	600	240	8.000	200	Ethanol molasses	1	Jenbacher
146	Thai Bev - Burren	Thailand	41148	QSR	2015	600	240	13.000	200	Ethanol molasses	1	Jenbacher
147	Tian Siang Air Kuning Expansion	Malaysia	41153	QSR	2015	1.300	520	3.000	150	Palm oil waste water	2,5	Jenbacher
148	TPK Absolute	Thailand	41149	QSR	2015	3.000	1.200	3.000	200	Cassava waste water	5	Jenbacher
149	Traco Iberia - Monterrey WWTP	Mexico	41159	QSR	2015	1.520	608	2.900	850	Public WWTP	3	Boiler
150	CCY, Phase II	Thailand	41168	QSR	2015	1.200	480	2.000	100	Cassava waste water	3	Jenbacher
151	Jirachot Electricity	Thailand	41142	QSR	2015	1.600	640	4.000	200	Palm oil waste water	3	Jenbacher
152	Dresser Rand - Pig farm	Dominican Republic	41146	ECO	2015	300	120	2.000	250	Codigestion	0,5	Guascor
153	Choon Hin - Sime Darby Plantations - Merotai	Malaysia	41152	QSR	2015	300	120	4.000	200	Palm oil waste water	0,5	CAT
154	PT Navigat - PT Pinago Utama	Indonesia	41154	QSR	2015	800	320	2.500	200	Palm oil waste water	1,4	Jenbacher
155	Inland Power - Western Superior Sanitary, Duluth, MN	USA	41155	QSR	2015	1.182	473	3.500	100	Public WWTP	2	Jenbacher
156	Lundsby - Spjald	Denmark	41164	QSR	2015	650	260	2.000	50	Codigestion	1,5	NNN
157	Climate Energy - MHC Plantations No. 1, Sabah	Malaysia	41156	QSR	2015	1.000	400	3.000	200	Palm oil waste water	2	Guascor
158	Climate Energy - MHC Plantations No. 2, Sabah	Malaysia	41156	QSR	2015	1.000	400	3.000	200	Palm oil waste water	2	Guascor

159	Prima Flo - Tapioca Starch Lampung	Indonesia	41157	BASIC	2015	1.000	400	1.000	100	Cassava waste water	2	Jenbacher
160	Millar Western	Canada	41095	OS	2015	2.400	960	15.000	45	Paper & Pulp	6	Jenbacher
161	Teguh Karsa	Indonesia	41143	QSR	2015	1.000	400	3.500	200	Palm oil waste water	2	Jenbacher
162	Telemenia - Kfar Saba	Israel	41132	QSR	2015	383	153	3.500	100	Public WWTP	0,5	MWM
163	Advanced Energy Engineering	Malaysia	41171	BASIC	2016	500	200	3.500	100	Codigestion	1	Shandong
164	IPS - St. Cloud WWTP, MN	USA	41178	QSR	2016	502	201	1.600	75	Public WWTP	1	Jenbacher
165	PC Palm	Thailand	41165	QSR	2016	2.100	840	5.000	200	Palm oil waste water	4	Jenbacher
166	Niko Bioenergy - Sime Darby Plantations - Hadapan	Malaysia	41166	QSR	2016	900	360	3.500	200	Palm oil waste water	2	CAT
167	Niko Bioenergy - Sime Darby Plantations - Flemington	Malaysia	41167	QSR	2016	900	360	3.500	200	Palm oil waste water	2	CAT
168	Gan Teng Siew - Ulu Kanchong	Malaysia	41169	QSR	2016	1.500	600	2.500	100	Palm oil waste water	3	CAT
169	Karya Mas - PRDM	Indonesia	41179	QSR	2016	1.200	480	3.000	100	Palm oil waste water	3	Guascor
170	Green & Smart	Malaysia	41174	BASIC	2016	1.000	400	3.000	100	Palm oil waste water	2	MTU
171	Thana Palm Product	Thailand	41175	QSR	2016	1.650	660	3.000	100	Palm oil waste water	4	Jenbacher
172	Oscar Bioenergy	Hong Kong	41160	QSR	2016	1.470	588	3.002	125	Public WWTP	3	NNN
173	Future Biomass - Future NRT Kuala Ketil	Malaysia	41161	QSR	2016	1.200	480	2.500	100	Palm oil waste water	3	CAT
174	Wangdee - Khamphaengphet	Thailand	41162	QSR	2016	500	200	3.500	200	Cassava waste water	1	Jenbacher
175	Wangdee - Lopburi	Thailand	41163	QSR	2016	700	280	3.500	200	Cassava waste water	1,5	Jenbacher
176	Biotech Farms	Philippines	41170	QSR	2016	1.200	480	3.500	100	Codigestion	3	NNN
177	Bounty Farms	Philippines	41173	ECO	2016	250	100	3.000	100	Codigestion	0,5	MAN
178	Modipalm Engineering, Pematang	Indonesia	41176	QSR	2016	800	320	3.000	100	Palm oil waste water	2	CAT
179	Modipalm Engineering, Rantau	Indonesia	41177	QSR	2016	800	320	3.000	100	Palm oil waste water	2	CAT
180	Mvance, Sime Darby	Malaysia	41182	QSR	2016	450	180	3.250	100	Palm oil waste water	1	CAT
181	Sika Farm	Philippines	41183	ECO	2016	250	100	2.500	100	Codigestion	0,2	MAN
182	Green Lagoon, Rompin Palm Oil Mill	Malaysia	41172	QSR	2016	1.200	480	3.000	150	Palm oil waste water	3	Jenbacher
183	Prima Flo, KIS, PT Agro Muko	Indonesia	41181	QSR	2016	1.000	400	2.500	100	Palm oil waste water	2,5	Jenbacher
184	PT Multi Fabrindo Cattle Project, East Java	Indonesia	41187	BASIC	2016	600	240	2.000	150	Codigestion	1,6	MWM
185	Asian Agri PGS	Indonesia	41188	QSR	2016	1.000	400	3.500	200	Palm oil waste water	1	Jenbacher
186	Asian Agri PTR	Indonesia	41189	QSR	2016	1.000	400	3.500	200	Palm oil waste water	1	Jenbacher
187	Advanced Energy, CP Foods, Pahang	Malaysia	41195	BASIC	2016	300	120	3.500	100	Codigestion	0,5	Shandong
188	PSTC, Arun Power Plant	Thailand	41197	QSR	2016	600	240	15.000	200	Ethanol molasses	1,2	Jenbacher
189	Ecoscience, KLK Jeram Padang	Malaysia	41158	QSR	2016	1.200	480	3.000	100	Palm oil waste water	2,4	MWM
190	Asian Agri PTU	Indonesia	41190	QSR	2016	1.000	400	3.500	200	Palm oil waste water	3	MWM
191	Asian Agri PSG	Indonesia	41191	QSR	2016	1.000	400	3.500	200	Palm oil waste water	3	MWM
192	Asian Agri PND	Indonesia	41193	QSR	2017	1.000	400	3.500	200	Palm oil waste water	1	Jenbacher
193	Cenergi, Sri Jelutung, Pahang	Malaysia	41196	BASIC	2017	800	320	3.000	100	Palm oil waste water	1,4	Jenbacher
194	Thai Roong Ruang Energy	Thailand	41200	MBR	2017	2.100	840	15.000	200	Ethanol molasses	4	Jenbacher
195	Palm Mas Abadi - N4MDG	Indonesia	41180	QSR	2017	1.200	480	3.000	100	Palm oil waste water	3	Guascor
196	Asian Agri PUS	Indonesia	41192	QSR	2017	1.000	400	3.500	200	Palm oil waste water	1	Jenbacher
197	Asian Agri PBS	Indonesia	41194	QSR	2017	1.000	400	3.500	200	Palm oil waste water	1	Jenbacher
198	Coral Farms	Philippines	41199	QSR	2017	540	216	3.500	100	Codigestion	1	MAN

199	CCY, Phase III	Thailand	41201	QSR	2017	1.200	480	2.000	100	Palm oil waste water	2	Jenbacher
200	BB Biogas, Vraa	Denmark	41203	QSR	2017	3.000	1.200	1.500	50	Codigestion	Upgrading	Ammongas
201	Michael Sangild, Roedekro	Denmark	41205	QSR	2017	400	160	1.200	50	Codigestion	0,7	MAN
202	Nature Energy Månsson, Brande	Denmark	41206	QSR	2017	1.500	600	7.500	50	Codigestion	Upgrading	Ammongas
203	Prima Flo, Muara Jaya, Lampung	Indonesia	41207	BASIC	2017	2.450	980	1.000	100	Cassava waste water	5	Jenbacher
204	Hoffstetter	Colombia	41150	QSR	2017	1.500	600	1.000	200	Public WWTP	2	NNN
205	Hoffstetter	Colombia	41151	QSR	2017	1.500	600	1.000	200	Public WWTP	2	NNN
206	Lundsby, Grønhøj	Denmark	41208	QSR	2017	1.638	655	1.000	50	Codigestion	Upgrading	Ammongas
207	Green Lagoon, Kedah	Malaysia	41204	QSR	2017	1.440	576	2.500	150	Palm oil waste water	2,4	Jenbacher
208	PSTC, SYS & KPP	Thailand	41209	MBR	2017	3.000	1.200	15.000	200	Ethanol molasses	7	MTU
209	SIEA Alcoholera WWTP, Requena	Spain	41210	QSR	2017	150	60	10.000	200	Ethanol molasses	0,3	Jenbacher
210	United Plantaions, Uli Bernam Mill	Malaysia	41202	QSR	2018	600	240	3.000	100	Palm oil waste water	1,2	MWM
211	Lundsby, Iglso	Denmark	41216	QSR	2018	1.625	650	2.220	50	Codigestion	Upgrading	Ammongas
212	Lundsby, Storde	Denmark	41217	QSR	2018	1.350	540	2.220	50	Codigestion	Upgrading	Ammongas
213	Prima Flo, PT Pasadena	Indonesia	41219	BASIC	2018	500	200	3.000	100	Palm oil waste water	0,8	NNN
214	Prima Flo, Wilmar Mustika Sembuluh	Indonesia	41222	QSR	2018	900	360	2.500	200	Palm oil waste water	1,6	NNN
215	Lundsby, Haerup	Denmark	41225	QSR	2018	550	220	2.000	50	Codigestion	1	NNN
216	KS Green, Kilang Sawit Muar	Malaysia	41223	QSR	2018	2.400	960	3.000	100	Palm oil waste water	3,6	Jenbacher
217	DU Digital - United Breweries, Hyderabad	India	41186	ECO	2018	100	40	2.000	200	Brewery	0,2	NNN
218	AIDC	Taiwan	41211	QSR	2018	400	160	8.000	300	Codigestion	0,5	Capstone
219	PW Eco Biotech	Malaysia	41212	BASIC	2018	300	120	3.000	100	Palm oil waste water	0,6	Jenbacher
220	Green Lagoon, Taclico	Malaysia	41214	QSR	2018	720	288	2.500	150	Palm oil waste water	1,2	Jenbacher
221	Green Lagoon, Central	Malaysia	41215	QSR	2018	1.440	576	2.500	150	Palm oil waste water	2,4	Jenbacher
222	DU Digital, Pepsi	India	41218	ECO	2018	150	60	3.000	200	Brewery	0,2	Jenbacher
223	Cenergi, Pantai Remis	Malaysia	41221	BASIC	2018	800	320	3.000	100	Palm oil waste water	1,2	NNN
224	CPP	Thailand	41224	QSR	2018	1.500	600	3.000	200	Palm oil waste water	Upgrading	ERDI
225	CYY, Surin Factory	Thailand	41226	QSR	2018	2.000	800	2.000	200	Cassava waste water	4,2	Jenbacher
226	Nature Energy, Korskro	Denmark	41228	QSR	2018	5.000	2.000	8.000	50	Codigestion	Upgrading	Wärtsila Biogas
227	DU Digital, Mor Bio, Haryana	India	41229	QSR	2018	500	200	5.000	200	Codigestion	1,2	MWM
228	Eneraque, Dairy Project	Australia	41230	QSR	2018	1.200	480	4.000	150	Codigestion	3	MWM
229	DU Digital, Millienium Starch, Karnataka	India	41231	QSR	2018	300	120	9.000	200	Food industry waste water	0,3	Jenbacher
230	Sime Darby Industrial, IPP	Malaysia	41232	QSR	2018	800	320	3.500	150	Palm oil waste water	1,2	CAT
231	Concord Renewable Energy	Malaysia	41233	QSR	2018	1.500	600	3.500	200	Palm oil waste water	1,2	Jenbacher
232	Asian Agri PAN	Indonesia	41234	QSR	2018	1.500	600	3.500	200	Palm oil waste water	3	Jenbacher
233	Asian Agri PTS	Indonesia	41235	QSR	2018	1.500	600	3.500	200	Palm oil waste water	3	Jenbacher
234	Asian Agri PGD	Indonesia	41236	QSR	2018	1.500	600	3.500	200	Palm oil waste water	3	Jenbacher
235	KSL	Thailand	41237	MBR	2018	3.000	1.200	20.000	200	Ethanol molasses	6	Boiler
236	Oiltek Hub Seng, Sabah	Malaysia	41241	QSR	2019	800	320	3.000	100	Palm oil waste water	1,2	Jenbacher
237	NISSEN energy, Netanya WWTP	Israel	41242	QSR	2019	250	100	2.900	50	Public WWTP	0,5	MAN
238	Lesico, Haifa WWTP	Israel	41198	QSR	2019	1.100	440	4.300	200	Public WWTP	2,5	Jenbacher

239	GREE Energy Hamparan	Indonesia	41238	QSR	2019	1.800	720	2.200	100	Cassava waste water	3	Jenbacher
240	Cenergi - Felcra Jaya Puta	Malaysia	41239	BASIC	2019	800	320	3.000	100	Palm oil waste water	1,2	Jenbacher
241	Lundsby, Outrup	Denmark	41243	QSR	2019	1.975	790	4.500	50	Codigestion	Upgrading	Ammongas
242	Sobono, Biotech Frams II	Philippines	41244	QSR	2019	4.400	1.760	1.500	100	Codigestion	4	Jenbacher
243	Ribe Biogas	Denmark	41250	QSR	2019	3.750	1.500	5.550	50	Codigestion	Upgrading	Ammongas
244	Green Lagoon, Kema, Pahang	Malaysia	41240	BASIC	2019	300	120	2.500	150	Palm oil waste water	0,6	Jenbacher
245	Lundsby, Gedsted	Denmark	41251	QSR	2019	600	240	2.000	50	Codigestion	1,1	Jenbacher
246	Green Lagoon, Asagrow	Indonesia	41252	QSR	2019	1.200	480	3.000	100	Palm oil waste water	2,4	Jenbacher
247	Green Lagoon, Palong Cocoa, Johor	Malaysia	41253	BASIC	2019	800	320	3.000	200	Palm oil waste water	1,6	Jenbacher
248	Northeast Premium Starch	Thailand	41254	QSR	2019	1.600	640	1.000	100	Cassava waste water	3	Jenbacher
249	Korat Flour Industry	Thailand	41255	QSR	2019	1.200	480	4.000	100	Cassava waste water	2,1	Jenbacher
250	Michael Sangild, Extension, Roedekro	Denmark	41257	QSR	2019	1.500	600	5.000	200	Codigestion	Upgrading	Ammongas
251	Iglsøe Biogas, Extension	Denmark	41256	QSR	2019	2.500	1.000	2.750	50	Codigestion	Upgrading	Ammongas
252	Varec Biogas, Trinity River Authority, TX	USA	41227	QSR	2019	4.590	1.836	2.600	150	Public WWTP	9	Boiler
253	Lundsby, Vinkel	Denmark	41245	QSR	2019	6.750	2.700	6.700	30	Codigestion	Upgrading	Ammongas
254	Nature Energy Baanlev, Aarhus	Denmark	41258	QSR	2019	2.750	1.100	7.500	50	Codigestion	Upgrading	Wärtsila Biogas
255	Multico	Indonesia	41259	BASIC	2019	650	260	3.000	100	Codigestion	1,2	Guascor
256	E.ON - Greenlab Skive	Denmark	41247	QSR	2020	5.625	2.250	7.400	50	Codigestion	Upgrading	Wärtsila Biogas
257	Cenergi - Chersonese	Malaysia	41248	BASIC	2020	800	320	3.000	100	Palm oil waste water	1,2	Jenbacher
258	PW ECO Biotech	Indonesia	41260	QSR	2020	800	320	3.000	100	Palm oil waste water	1,5	Jenbacher
259	Blaahøj Biogas	Denmark	41261	QSR	2020	700	280	5.000	50	Codigestion	1,8	Jenbacher
260	TRE, MBR No. 2	Thailand	41262	MBR	2020	1.200	480	17.000	200	Ethanol molasses	2	MTU
261	Lundsby, OL Bioenergy, Phase 2	Denmark	41263	QSR	2020	1.438	575	4.500	50	Codigestion	Upgrading	Ammongas
262	Lundsby, Vesthimmerland	Denmark	41249	QSR	2020	4.813	1.925	6.700	50	Codigestion	Upgrading	Ammongas
263	Undisclosed client	USA	41265	QSR	2020	850	340	20.000	250	Food industry waste water	1,5	-
264	Anaergia, Seng Choon, Singapore	Singapore	41266	QSR	2020	1.150	460	3.500	100	Codigestion	2,4	Jenbacher
265	Serba Dinamik, Felcra, Seberang, Malaysia	Malaysia	41267	BASIC	2020	1.000	400	3.000	100	Palm oil waste water	2	MTU
266	Serba Dinamik, Felcra, Nasaruddin, Malaysia	Malaysia	41268	BASIC	2020	600	240	3.000	100	Palm oil waste water	1,2	MTU
267	Green Lagoon, Perak	Malaysia	41213	QSR	2020	1.080	432	2.500	150	Palm oil waste water	2,4	Jenbacher
268	Penn Power Group, Ruann Dairy, California	USA	41264	QSR	2020	289	116	3.000	40	Codigestion	0,6	Jenbacher
269	Cenergi - Sri Ganda	Malaysia	41270	BASIC	2020	1.200	480	3.000	100	Palm oil waste water	2,4	Jenbacher
270	Nature Energy, Glansager	Denmark	41269	QSR	2020	5.400	2.160	7.500	50	Codigestion	Upgrading	Ammongas
271	Cenergi - West	Malaysia	41271	BASIC	2020	800	320	3.000	100	Palm oil waste water	1,5	Jenbacher
272	Green Lagoon - Sri Morib	Malaysia	41272	QSR	2020	750	300	3.000	150	Palm oil waste water	1,5	Jenbacher
273	Prima Flo, First Resources	Indonesia	41275	QSR LTE	2020	1.200	480	3.000	100	Palm oil waste water	2	Jenbacher
274	Renew Energy, Blaabjerg Biogas	Denmark	41274	QSR	2021	2.500	1.000	5.000	50	Codigestion	Upgrading	Ammongas
275	Desa Kim Loong, Desa	Malaysia	41282	QSR LTE	2021	1.500	600	2.500	500	Palm oil waste water	3,6	Jenbacher
276	Green Lagoon, Perak Agro	Malaysia	41283	QSR LTE	2021	1.080	432	2.500	150	Palm oil waste water	2,4	Jenbacher
277	Green Lagoon - Topaz Emas	Malaysia	41273	QSR	2021	1.100	440	3.000	150	Palm oil waste water	2,4	Jenbacher
278	Green Lagoon, OUP	Malaysia	41276	QSR	2021	750	300	3.000	150	Palm oil waste water	1,5	Jenbacher

279	Roeslein, Sunray, Texas	USA	41277	QSR	2021	2.975	1.190	5.000	1000	Codigestion	Upgrading	Morrow Energy
280	Cenergi - Sua Betong	Malaysia	41278	BASIC	2021	800	320	3.000	100	Palm oil waste water	1,5	CAT
281	Cenergi - Asthana Endah	Indonesia	41279	BASIC	2021	800	320	3.000	100	Palm oil waste water	1,5	CAT
282	Lundsby, Grauballegaard	Denmark	41280	QSR	2021	1.975	790	4.500	50	Codigestion	Upgrading	Ammongas
283	Kim Loong, Telupid	Malaysia	41281	QSR LTE	2021	1.500	600	3.000	100	Palm oil waste water	3,6	Jenbacher
284	Cenergi, Bell YP Biogas	Malaysia	41284	BASIC	2021	1.200	480	3.000	100	Palm oil waste water	2,4	CAT
285	Nissen Energy, Hasharon	Israel	41286	QSR	2021	250	100	2.900	50	Public WWTP	0,5	MAN
286	KSL, Khon Kaen	Thailand	41285	MBR	2022	5.000	2.000	15.000	100	Ethanol molasses	10	Boiler
287	Nature Energy, Holsted. E-fuel Pilot	Denmark	41246	BEF	2022	-	-	-	-	Codigestion	Methanation	Methanation
288	Nature Energy, Koeng	Denmark	41287	QSR	2022	6.250	2.500	7.000	50	Codigestion	Upgrading	Wärtsila Biogas
289	Nature Energy, Kvaers	Denmark	41288	QSR	2022	5.000	2.000	7.500	50	Codigestion	Upgrading	Wärtsila Biogas
290	Storde Biogas	Denmark	41289	QSR	2022	1.350	540	2.222	50	Codigestion	Upgrading	Ammongas
291	Regenis, West point dairy	USA	41290	QSR	2022	1.093	437	3.800	100	Codigestion	1,5	Jenbacher
292	Visudhi, Parnish	Thailand	41291	QSR LTE	2022	1.000	400	1.000	100	Palm oil waste water	1,5	Jenbacher
293	Thana Palm Expansion	Thailand	41292	QSR	2022	2.350	940	3.900	100	Palm oil waste water	3,6	Jenbacher
294	Green Lagoon, ASMJ Pekanbaru	Indonesia	41293	QSR LTE	2022	600	240	300	150	Palm oil waste water	1,2	Jenbacher
295	Sotreg, AB Brazil	Brazil	41294	QSR	2022	1.431	572	10.400	125	Ethanol molasses	2,5	Jenbacher
296	Biogasclean MBR Pilot	Brazil	-	MBR	2022	-	-	-	-	Ethanol molasses	-	-
297	Cernergi, Elphil	Malaysia	41295	BASIC	2022	800	320	300	100	Palm oil waste water	1,5	CAT
298	Stream BioEnergy, Tully AD	Northern Ireland	41296	QSR	2022	1.570	628	2.000	250	Codigestion	3,6	Jenbacher
299	DU Wabag, STP	India	41297	QSR	2022	720	288	10.000	200	Public WWTP	1,5	CAT
300	Roeslein, Perryton, Texas	USA	41298	QSR	2022	4.013	1.605	5.000	1000	Codigestion	Upgrading	Morrow Energy
301	Green Lagoon, Kempas	Malaysia	41301	QSR LTE	2022	1.080	432	2.500	150	Palm oil waste water	2,4	Jenbacher
302	Green Lagoon, Seri Intan	Malaysia	41302	QSR LTE	2022	1.080	432	2.500	150	Palm oil waste water	2,4	Jenbacher
303	KLK - CHANGKAT CHERMIN BIOGAS POWER PLANT	Malaysia	41303	QSR LTE	2022	1.600	640	3.000	100	Palm oil waste water	3	Jenbacher
304	NTACT, Guymon.	USA	41304	QSR	2022	2.163	865	6.500	1000	Codigestion	Upgrading	Morrow Energy
305	PT. Prima Flo, Wilmar.	Indonesia	41205	QSR LTE	2022	900	360	3.000	100	Palm oil waste water	1,5	Jenbacher
306	Cernergi, Langkap	Indonesia	41306	QSR LTE	2022	2.400	960	3.000	100	Palm oil waste water	3,6	CAT
307	Green Lagoon, Bukit Pasir	Indonesia	41307	QSR LTE	2022	2.400	960	3.000	100	Palm oil waste water	3,6	Jenbacher
308	Eneraque, Northlands waste	New Zealand	41308	QSR	2022	900	360	2.400	50	Landfill	1,5	Jenbacher
309	SUEZ, McCain Foods	UK	41309	QSR	2022	350	140	6.000	150	Food industry waste water	1	Jenbacher
310	Lundsby, Vesthimmerland II	Denmark	41310	QSR	2022	2.250	900	6.700	50	Codigestion	Upgrading	Ammongas
311	Ribe Biogas II	Denmark	41311	QSR	2022	2.000	800	5.550	50	Codigestion	Upgrading	Ammongas
312	Green Lagoon, Jerantut.	Malaysia	41312	QSR LTE	2022	1.600	640	3.000	150	Palm oil waste water	3	Jenbacher
313	NTACT, Ladder Creek East	USA	41313	QSR	2022	4.000	1.605	5.000	1000	Codigestion	Upgrading	Morrow Energy
314	NTACT, Ladder Creek West	USA	41314	QSR	2022	2.975	1.190	5.000	1000	Codigestion	Upgrading	Morrow Energy
315	NTACT, Optima.	USA	41316	QSR	2022	940	375	5.000	1000	Codigestion	Upgrading	Morrow Energy
316	Lipp Engineering, Fermanagh Palm Oil Mill.	Malaysia	41317	QSR LTE	2022	700	280	3.500	100	Palm oil waste water	1,5	Jenbacher
317	Lundsby, Vesthimmerland III	Denmark	41318	QSR	2022	1.125	450	6.700	50	Codigestion	Upgrading	Ammongas
318	NTACT, Hough.	USA	41319	QSR	2022	4.900	1.960	5.000	1000	Codigestion	Upgrading	Morrow Energy



