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1. POWER & PROCESS COOLING SYSTEMS

1.1 Dry and Dry/Wet Cooling Systems

Ref. No.	Description	Country	Turbine Power (MW)	Commissioning	Remarks
1.	Pilot plant	Hungary	0,8	1954	Natural draft dry cooling tower
2.	Dunaújváros Steel Mill	Hungary	16	1962	Natural draft dry cooling tower
3.	Rugeley Power Station, Unit V.	UK	120	1962	Natural draft dry cooling tower, DC jet condenser
4.	Eilenburg Chemical Works	Germany	5,3	1964	Mechanical draft dry cooling tower
5.	Karaganda Steel Mill, Unit I.	Kazakhstan	6	1968	Mechanical draft dry cooling tower
6.	Karaganda Steel Mill, Unit II.	Kazakhstan	6	1968	Mechanical draft dry cooling tower
7.	Ibbenbüren Power Station	Germany	150	1967	Natural draft dry cooling tower, DC jet condenser
8.	Mátra Power Station, Unit I.	Hungary	100	1969	Natural draft dry cooling tower, DC jet condenser
9.	Mátra Power Station, Unit II.	Hungary	100	1970	Natural draft dry cooling tower, DC jet condenser
10.	Razdan Power Station, Unit I.	Armenia	210	1970	Natural draft steel structure dry cooling tower, DC jet condenser
11.	Razdan Power Station, Unit II.	Armenia	210	1971	Natural draft steel structure dry cooling tower, DC jet condenser
12.	Razdan Power Station, Unit III.	Armenia	210	1971	Natural draft steel structure dry cooling tower, DC jet condenser
13.	Flötzersteig Incinerator	Austria	3	1970	Natural draft dry cooling tower
14.	Mátra Power Station, Unit IV.	Hungary	220	1972	Natural draft dry cooling tower, DC jet condenser
15.	Mátra Power Station, Unit V.	Hungary	220	1972	Natural draft dry cooling tower, DC jet condenser
16.	Bilibino Nuclear Power Station Unit I.	Russia	12	1972	Mechanical draft dry cooling tower
17.	Bilibino Nuclear Power Station, Unit II.	Russia	12	1972	Mechanical draft dry cooling tower
18.	Bilibino Nuclear Power Station, Unit III.	Russia	12	1973	Mechanical draft dry cooling tower
19.	Bilibino Nuclear Power Station, Unit IV.	Russia	12	1973	Mechanical draft dry cooling tower
20.	Razdan Power Station, Unit IV.	Armenia	210	1974	Natural draft steel structure dry cooling tower, DC jet condenser
21.	Kanegafuchi Chemical Works	Japan	60	1974	Mechanical draft dry cooling tower with supplementary spraying
22.	Ivanovo Power Station, Unit V.	Russia	210	1978	Natural draft dry cooling tower with supplementary spraying, DC jet condenser
23.	Great Isfahan Power Station, Unit I.	Iran	210	1984	Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
24.	Great Isfahan Power Station, Unit II.	Iran	210	1985	Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
25.	Great Isfahan Power Station, Unit III.	Iran	210	1985	Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
26.	Great Isfahan Power Station, Unit IV.	Iran	210	1986	Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
27.	Solar Power Station	Ukraine	5	1986	Mechanical draft dry cooling tower

Dry and Dry/Wet Cooling Systems

Ref. No.	Description	Country	Turbine Power (MW)	Commissioning	Remarks
28.	Trakya Power Station, Unit A.	Turkey	100	1986	Natural draft dry cooling tower, DC jet condenser, peak coolers
29.	Trakya Power Station, Unit B.	Turkey	100	1987	Natural draft dry cooling tower, DC jet condenser, peak coolers
30.	Datong Power Station, Unit V.	China	210	1987	Natural draft dry cooling tower, DC jet condenser
31.	Datong Power Station, Unit VI.	China	210	1988	Natural draft dry cooling tower, DC jet condenser
32.	Trakya Power Station, Unit C.	Turkey	100	1988	Natural draft dry cooling tower, DC jet condenser, peak coolers
33.	Trakya Power Station, Unit D.	Turkey	100	1988	Natural draft dry cooling tower, DC jet condenser, peak coolers
34.	Shahid Rajai Power Station, Unit I.	Iran	250	1992	Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
35.	Shahid Rajai Power Station, Unit II.	Iran	250	1993	Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
36.	Teshrin Power Station, Unit I.	Syria	210	1993	Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
37.	Shahid Rajai Power Station, Unit III.	Iran	250	1993	Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
38.	Teshrin Power Station, Unit II.	Syria	210	1993	Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
39.	Fengzhen Power Station, Unit III.	China	210	1993	Natural draft dry cooling tower designed by EGI, built by 3rd party
40.	Fengzhen Power Station, Unit IV.	China	210	1994	Natural draft dry cooling tower designed by EGI, built by 3rd party
41.	Privodino Compressor Station	Russia	15.8	1995	Mechanical draft dry cooling tower
42.	Shahid Rajai Power Station, Unit IV.	Iran	250	1994	Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
43.	Great Isfahan Power Station Extension, Unit V.	Iran	210	1995	Natural draft dry cooling tower, DC jet condenser
44.	Fengzhen Power Station, Unit V.	China	210	1995	Natural draft dry cooling tower designed by EGI, built by 3rd party
45.	Hebel, Zehdenick	Germany		1995	Direct air cooled condenser, extruded aluminum fins with carbon steel core tubes
46.	Fengzhen Power Station, Unit VI.	China	210	1996	Natural draft dry cooling tower designed by EGI, built by 3rd party
47.	Great Isfahan Power Station Extension, Unit VIII.	Iran	210	1997	Natural draft dry cooling tower, DC jet condenser
48.	Kanegafuchi Chemical Works	Japan	60	1998	Mechanical draft dry cooling tower with supplementary spraying, rebundling
49.	Mátra Power Station, Unit IV-V.	Hungary	220	1998	Wet cooling tower add on to Unit IV-V to create hybrid dry/wet cooling system
50.	Great Isfahan Power Station Extension, Unit VI.	Iran	210	1998	Natural draft dry cooling tower, DC jet condenser
51.	Great Isfahan Power Station Extension, Unit VII.	Iran	210	1999	Natural draft dry cooling tower, DC jet condenser
52.	Razdan Power Station, Unit V.	Armenia	300	1999	Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
53.	Bursa 700 MW CCGP, Unit A.	Turkey	240	1999	Natural draft dry cooling tower, DC jet condenser, peak coolers
54.	Bursa 700 MW CCGP, Unit B.	Turkey	240	1999	Natural draft dry cooling tower, DC jet condenser, peak coolers
55.	Arak Power Station, Unit I.	Iran	325	1999	Natural draft dry cooling tower, designed by EGI, built by 3rd party.

Dry and Dry/Wet Cooling Systems

Ref. No.	Description	Country	Turbine Power (MW)	Commissioning	Remarks
56.	Arak Power Station, Unit I.	Iran	325	1999	Natural draft dry cooling tower, designed by EGI, built by 3rd party.
57.	Arak Power Station, Unit II.	Iran	325	1999	Natural draft dry cooling tower, designed by EGI, built by 3rd party.
58.	Montazer Ghaem 320 MW CCPP, Unit I.	Iran	105	1999	Natural draft dry cooling tower designed by EGI, built by 3rd party
59.	Razdan Power Station, Unit VI.	Armenia	300	2000	Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
60.	Arak Power Station Unit IV.	Iran	325	2001	Natural draft dry cooling tower designed by EGI, built by 3rd party
61.	Montazer Ghaem 320 MW CCPP, Unit II.	Iran	105	2000	Natural draft dry cooling tower designed by EGI, built by 3rd party
62.	Montazer Ghaem 320 MW CCPP, Unit III.	Iran	105	2001	Natural draft dry cooling tower designed by EGI, built by 3rd party
63.	Al-Zara Power Station, Unit I.	Syria	220	2001	Natural draft steel structure dry cooling tower, DC jet condenser
64.	Al-Zara Power Station, Unit II.	Syria	220	2001	Natural draft steel structure dry cooling tower, DC jet condenser
65.	Al-Zara Power Station, Unit III.	Syria	220	2001	Natural draft steel structure dry cooling tower, DC jet condenser
66.	Újpest 100 MW CCPP	Hungary	36	2001	Forced draft dry/ deluged cooling tower
67.	Nowra Plant	Australia	20	2002	Direct air cooled condenser, single row, all aluminum heat exchanger (SKYVE)
68.	Dorog Waste Incineration Plant	Hungary	3	2002	Direct air cooled condenser, extruded aluminum fins with carbon steel core tubes
69.	Gebze 777 MW CCPP, Unit I.	Turkey	270	2002	Natural draft dry cooling tower, DC jet condenser
70.	Gebze 777 MW CCPP, Unit II.	Turkey	270	2002	Natural draft dry cooling tower, DC jet condenser
71.	Adapazari 777 MW CCPP, Unit I.	Turkey	270	2002	Natural draft dry cooling tower, DC jet condenser
72.	CAN 160 MW CFB based Thermal Power Station, Unit I.	Turkey	160	2004	Natural draft dry cooling tower (single tower for Unit I-II.), DC jet condenser, peak coolers
73.	CAN 160 MW CFB based Thermal Power Station, Unit II.	Turkey	160	2004	Natural draft dry cooling tower (single tower for Unit I-II.), DC jet condenser, peak coolers
74.	Vértes CHP Seasonal Cooler	Hungary	18	2004	Forced draft dry cooling tower
75.	Sochi 72 MW CHP, Unit I.	Russia	24	2004	Induced draft steel structure dry cooling tower with supplementary spraying
76.	Szentendre Power Station	Hungary	10	2005	Direct air cooled condenser, single row, all aluminum heat exchanger (SKYVE)
77.	Dalmine CCPP,	Italy	122	2006	Dry section of hybrid dry/wet cooling tower
78.	Levice CCGT CHP Plant	Slovakia	80	2007	Direct air cooled condenser, single row, all aluminum heat exchanger (SKYVE)
79.	MMDC Moscow City 130 MW Town heating CCPP	Russia	46	2008	Forced draft steel structure dry cooling tower
80.	Al Nasserieh 510 MW CCPP	Syria	160	2008	Natural draft steel structure dry cooling tower, DC jet condenser
81.	Modugno 800 MW CCPP	Italy	300	2009	Induced draft steel structure dry cooling tower, DC jet condenser
82.	Deir Ali 750 MW CCPP	Syria	250	2009	Natural draft steel structure dry cooling tower, DC jet condenser
83.	Szakoly 20 MW Biomass Power Plant	Hungary	20	2009	Induced draft steel structure dry cooling tower, DC jet condenser

Dry and Dry/Wet Cooling Systems

Ref. No.	Description	Country	Turbine Power (MW)	Commissioning	Remarks
84.	Strogino 130 MW CCPP, Unit I.	Russia	42	2009	Induced draft steel structure dry cooling tower
85.	Strogino 130 MW CCPP, Unit II.	Russia	42	2009	Induced draft steel structure dry cooling tower
86.	Bao Ji 660 MW SC PP, Unit V.	China	660	2010	Natural draft dry cooling tower, DC jet condensers also serving the boiler feed pump turbines, FGD in tower
87.	Sochi 72 MW CHP, Unit III.	Russia	24	2010	Induced draft steel structure dry cooling tower with supplementary spraying
88.	Pervomaysk 180 MW PP, Unit I.	Russia	66	2010	Induced draft steel structure dry cooling tower
89.	Pervomaysk 180 MW PP, Unit II.	Russia	66	2010	Induced draft steel structure dry cooling tower
90.	Bao Ji 660 MW SC PP, Unit VI.	China	660	2011	Natural draft dry cooling tower, DC jet condensers also serving the boiler feed pump turbines, FGD in tower
91.	Tereshkovo 340 MW, CHP PS	Russia	70	2011	Induced draft steel structure dry cooling tower
92.	Shuidonggou 660 MW SC PP, Unit I.	China	660	2011	Natural draft dry cooling tower with supplementary spraying
93.	Shuidonggou 660 MW SC PP, Unit II.	China	660	2011	Natural draft dry cooling tower with supplementary spraying
94.	Shanyin 300 MW PP, Unit I.	China	300	2012	Natural draft dry cooling tower (single tower for Unit I & 2), DC jet condensers also serving the boiler feed pump turbines, FGD in tower
95.	Shanyin 300 MW PP, Unit II.	China	300	2012	Natural draft dry cooling tower (single tower for Unit I & 2), DC jet condensers also serving the boiler feed pump turbines, FGD in tower
96.	Adler 180 MW CCPP, Unit I.	Russia	60	2013	Induced draft steel structure dry cooling tower with supplementary spraying
97.	Adler 180 MW CCPP, Unit II.	Russia	60	2013	Induced draft steel structure dry cooling tower with supplementary spraying
98.	Novy Urengoy 120 MW CCPP	Russia	40	2014	Induced draft steel structure dry cooling tower
99.	Deir Ali 750 MW CCPP, Unit II.	Syria	250	2014	Natural draft steel structure dry cooling tower, DC jet condenser
100.	Jinchang 330 MW TPP, Unit I.	China	330	2014	Natural draft dry cooling tower with supplementary spraying
101.	Jinchang 330 MW TPP, Unit II.	China	330	2014	Natural draft dry cooling tower with supplementary spraying
102.	Tufanbeyli 150 MW TPP, Unit I.	Turkey	150	2015	Natural draft dry cooling tower (single tower for Unit I-II-III.), DC jet condenser, peak coolers, CFB gases exhausted via cooling tower
103.	Tufanbeyli 150 MW TPP, Unit II.	Turkey	150	2015	Natural draft dry cooling tower (single tower for Unit I-II-III.), DC jet condenser, peak coolers, CFB gases exhausted via cooling tower
104.	Kojuhovo 340 MW CHP PS	Russia	70	2015	Induced draft steel structure dry cooling tower
105.	Tufanbeyli 150 MW TPP, Unit III.	Turkey	150	2015	Natural draft dry cooling tower (single tower for Unit I-II-III.), DC jet condenser, peak coolers, CFB gases exhausted via cooling tower
106.	Shengle 350 MW Supercritical CHP TPP, Unit I.	China	350	2015	Natural draft dry cooling tower, FGD-in-tower
107.	Hepo 350 MW Supercritical CHP TPP, Unit I.	China	350	2015	Natural draft dry cooling tower
108.	Erdos 330 MW TPP, Unit I.	China	330	2015	Natural draft dry cooling tower, FGD-in-tower

Dry and Dry/Wet Cooling Systems

Ref. No.	Description	Country	Turbine Power (MW)	Commissioning	Remarks
109.	Erdos 330 MW TPP, Unit I.	China	330	2015	Natural draft dry cooling tower, FGD-in-tower
110.	Erdos 330 MW TPP, Unit II.	China	330	2015	Natural draft dry cooling tower, FGD-in-tower
111.	Shengle 350 MW Supercritical CHP TPP, Unit II.	China	350	2016	Natural draft dry cooling tower, FGD-in-tower
112.	Hepo 350 MW Supercritical CHP TPP, Unit II.	China	350	2016	Natural draft dry cooling tower
113.	Yinxing, 660 MW Ultra-supercritical CHP; Unit I.	China	660	2016	Natural draft dry cooling tower
114.	Yinxing, 660 MW Ultra-supercritical CHP; Unit II.	China	660	2016	Natural draft dry cooling tower
115.	Erdos 330 MW TPP, Unit III.	China	330	2017	Natural draft dry cooling tower, FGD-in-tower
116.	Erdos 330 MW TPP, Unit IV.	China	330	2017	Natural draft dry cooling tower, FGD-in-tower
117.	Shanyin II. 350 MW Supercritical TPP, Unit I	China	350	2017	Natural draft dry cooling tower (single tower for Unit I &2), FGD-in-tower
118.	Shanyin II. 350 MW Supercritical TPP, Unit II	China	350	2017	Natural draft dry cooling tower (single tower for Unit I &2), FGD-in-tower
119.	Hamitabat 600 MW CCPP, Unit I.	Turkey	600	2017	Natural draft dry cooling tower, DC jet condenser; the original cooling towers will serve the new CCPP units
120.	Hamitabat 600 MW CCPP, Unit II	Turkey	600	2017	Natural draft dry cooling tower, DC jet condenser; the original cooling towers will serve the new CCPP units
121.	Sakhalin 2x60 MW TPP	Russia	120	2017	Fan assisted natural draft steel structure dry cooling tower
122.	Zaoquan, 660 MW Ultra-supercritical TPP; Unit I.	China	660	2017	Natural draft dry cooling tower, FGD-in-tower
123.	Zaoquan, 660 MW Ultra-supercritical TPP; Unit II.	China	660	2017	Natural draft dry cooling tower, FGD-in-tower
124.	Gaohe 660 MW Supercritical TPP, Unit I	China	660	2017	Natural draft dry cooling tower (single tower for Unit I &2)
125.	Gaohe 660 MW Supercritical TPP, Unit II	China	660	2017	Natural draft dry cooling tower (single tower for Unit I &2)
126.	Wujianfang, 660 MW Ultra-supercritical CHP; Unit I.	China	660	2017	Natural draft dry cooling tower
127.	Wujianfang, 660 MW Ultra-supercritical CHP; Unit II.	China	660	2017	Natural draft dry cooling tower
128.	Huaneng Guilin gas distribute energy	China		2017	Induced draft plume abated concrete structure hybrid dry/wet cooling tower
129.	Achinsk 2x12 MW TPP	Russia	24	2018	Induced draft steel structure dry cooling tower
130.	Changle, 1000 MW Ultra-supercritical TPP; Unit I.	China	1000	2019	Natural draft dry cooling tower
131.	Changle, 1000 MW Ultra-upercritical TPP; Unit II.	China	1000	2019	Natural draft dry cooling tower
132.	Shanghai Shengneng Fengxian Power plant	China	2x400	2019	Induced draft plume abated concrete structure hybrid dry/wet cooling tower
133.	Hangzhou Linjiang environmental energy	China	3x45	2020	Induced draft plume abated concrete structure hybrid dry/wet cooling tower
134.	Amurskaya TPP (Svobodny TPP, Amurskaya region)	Russia	2x80	2021	Induced draft steel structure dry cooling tower
135.	Amurskaya TPP (Svobodny TPP, Amurskaya region)	Russia	2x80	2021	Induced draft steel structure dry cooling tower

Dry and Dry/Wet Cooling Systems

Ref. No.	Description	Country	Turbine Power (MW)	Commissioning	Remarks
136.	Changcheng, 1000MW Ultra-supercritical TPP, Unit I.	China	1000	2022	Natural draft dry cooling tower
137.	Changcheng, 1000MW Ultra-supercritical TPP, Unit II.	China	1000	2022	Natural draft dry cooling tower
138.	Warsaw EfW	Poland	25	2022	Direct air cooled condenser, single row heat exchangers, Waste to Energy Plant
139.	Avtovskaya TPP	Russia	280	2022	Induced draft steel structure dry cooling tower with supplementary spraying
140.	Hetian 350 MW TPP, Unit I.	China	350	2023	Natural draft dry cooling tower
141.	Hetian 350 MW TPP, Unit II.	China	350	2023	Natural draft dry cooling tower

Natural draft dry cooling tower, DC jet condenser
Mátra Power Station, Unit IV, Hungary



Natural draft steel structure dry cooling tower, DC jet condenser, peak coolers
Great Isfahan Power Station, Unit I-VII., Iran



Induced draft steel cooling tower with supplementary spraying
Sochi CHP Unit 3.72 MW, Russia, 2010



Induced draft steel structure dry cooling tower
Tereshkovo, 340 MW CHP, Russia, 2011



Direct air cooled condenser, single row, all aluminum heat exchanger
Levice CCGT CHP Plant, 80 MW, Slovakia, 2007



1.2 Wet Cooling Systems

Ref. No.	Description	Country	Water flow rate m ³ /h	Inlet/outlet water temp. °C/°C	Wet bulb temp./relative humidity °C/%	Commissioning	Approach °C	Remark
1.	Cold Store, Győr	Hungary	780	32/27	22/60	1986	5	
2.	Cold Store, Székesfehérvár	Hungary	700	32/27	23/30	1986	4	
3.	Steel Work, Dunaújváros	Hungary	2 500	42/27	19/50	1986	8	Natural draft
4.	Gas Storage, Pusztaederics	Hungary	600	37/27	21/40	1987	6	
5.	Canning Factory, Nagyatád	Hungary	850	40/27	18/50	1989	9	Natural draft
6.	Cold Store, Békéscsaba	Hungary	1 170	30,6/25,6	20/40	1990	5,6	
7.	Cold Store, Dunakeszi	Hungary	330	32/26	20/40	1990	6	
8.	Cold Store, Székesfehérvár	Hungary	700	32/27	23/30	1991	4	
9.	Gas Storage, Pusztaederics	Hungary	600	32/27	21/40	1991	6	
10.	Oxygen Works, Budapest	Hungary	700	37/27	22/40	1991	5	
11.	Cold Store, Dunakeszi	Hungary	330	32/26	20/40	1992	6	
12.	Mátra Power Plant, Visonta	Hungary	6 x 600	38,5/28,5	20/40	1993	8,5	
13.	Mátra Power Plant, Visonta	Hungary	600	38,5/28,5	20/40	1993	8,5	
14.	Mátra Power Plant, Visonta	Hungary	12 x 600	38,5/28,5	20/40	1994	8,5	
15.	Coal Mine, Mecsek	Hungary	200	40/30	22/40	1994	8	
16.	Mátra Power Plant, Visonta	Hungary	6 x 600	38,5/28,5	20/40	1995	8,5	
17.	MOL Rt Gas Field, Algyő	Hungary	500	32/25	22/40	1995	3	
18.	Mátra Power Plant, Visonta	Hungary	9 x 600	38,5/28,5	20/40	1996	8,5	
19.	Mátra Power Plant, Visonta	Hungary	9 x 600	38,5/28,5	20/40	1997	8,5	
20.	Pars Oil, Tehran	Iran	550	45/28	24/28	1998	4	Earthquake exposed area
21.	Mátra Power Plant, Visonta	Hungary	9 x 600	38,5/28,5	20/40	1998	8,5	
22.	MOL Rt Gas Field, Algyő	Hungary	280	32/27	22/40	2000	5	
23.	Borsod Chemical Works	Hungary	5 200	36/26	22/40	2001	4	
24.	Kispest Power Plant Seasonal Cooler	Hungary	1695	75/38	21/37	2003	17	
25.	Kispest Power Plant Auxiliary Cooler	Hungary	846	36,5/30,4	21/37	2003	9,4	
26.	Tiszaújváros Chemical Works Olefin-2 and HDPE-2 Plants	Hungary	15400	38,4/25,5	21.5/65	2003	4.0	

Wet Cooling Systems

Ref. No.	Description	Country	Water flow rate m ³ /h	Inlet/outlet water temp. °C/°C	Wet bulb temp./relative humidity °C/%	Commissioning	Approach °C	Remark
27.	Borsod Chemical Works, VCM Plant	Hungary	2000	36/26	23/35	2004	3	
28.	Borsod Chemical Works, MDI Plant	Hungary	6000	36/26	23/40	2004	3	
29.	Wet Cooling Tower for Linde Gas, Hyco II.	Hungary	3400	38/26	22/40	2005	4	
30.	Borsod Chemical Works, Chlorine Plant	Hungary	4000	36/26	23/40	2005	3	
31.	Hungrana, Szabadegyháza	Hungary	1332	34/26	23/40	2005	3	
32.	Pét, Nitrogen Chemical Works	Hungary	5 x 3000	36/26	21.6/30	2006	4.4	
33.	Matra PS - Performance enhancement of Unit IV and 5 for a four cell WTC	Hungary	18000	47.3/31.3	20/40	2006/2007	11.3	
34.	Borsod Chemical Works, Concrete Structure Wet Cooling Tower for the MDI Plant, extension	Hungary	3000	36/26	23/40	2007	3	
35.	Borsod Chemical Works, Cooling Tower for Hydrochloric Acid Plant	Hungary	6000	37/27	23/40	2008	4	
36.	Wet cooling tower for Hungrana Bioetanol Unit	Hungary	400	38/27	23/40	2010	4	
37.	Borsod Chemical Works, Cooling Tower for Nitric Acid Plant	Hungary	6000	37/27	23/40	2012	4	
38.	Wet cooling tower for Linde Gas, Hyco III.	Hungary	2200	38/28	22/38	2012	6	
39.	Wet cooling tower for Auxiliary Cooling of Tishreen 200MW PP Unit III	Syria	2000	44/38	29.3/46	2013	8.7	
40.	Wet cooling tower for Auxiliary Cooling of Tishreen 200MW PP Unit IV	Syria	2000	44/38	29.3/46	2013	8.7	
41.	Tiszaújváros Chemical Works Butadiene Plant	Hungary	3000	36/25	21.5/65	2014	3.5	
42.	BorsodChem, MDI Plant	Hungary	3000	36/26	23/40	2014	3	Cooling fill refurbishment
43.	TVK Chemical Works Olefine 2 & HDPE 2 Plant	Hungary	15400	38.4/25.5	21.5/65	2015	4	Cooling fill refurbishment
44.	Pét, Nitrogen Chemical Works	Hungary	3 x 2800	36/26	21.6/30	2016	4.4	
45.	Hamburger Hungária Kft., Dunaújváros	Hungary	1 x 288	39/27	22/30	2017	5	Extension cell

Wet Cooling Systems

Ref. No.	Description	Country	Water flow rate m ³ /h	Inlet/outlet water temp. °C/°C	Wet bulb temp./relative humidity °C/%	Year of Commissioning	Approach °C	Remark
46.	Ongropack Kft., Szirmabesenyő	Hungary	600	29.4/26.	23/33	2018	3	
47.	MPK Chemical Works Olefine 1 Plant	Hungary	16000	40/25.5	21.5/65	2018	4	Cooling fill refurbishment
48.	Borsodchem Chemical Works Site IV	Hungary	3 x 3000	38/28	23.5/38	2020	4.5	Super Low noise design
49.	Bonduelle Nagykőrös	Hungary	60	50/33	23/40	2021	10	Natural Draft CT refurbishment
50.	Bonduelle Nyírszőlős	Hungary	60	50/22	19/40	2022	3	Low clogging fills
51.	Polgár W2E Plant	Hungary	600	43,5/36	24/40	2022	12	Low clogging fills
52.	Borsodchem Chemical Works, MDI1 Cooling Towers	Hungary	3000	36/26	23/40	2022	3	Wet tower refurbishment
53.	MOL Petrolkémia (MPK) Olefin Conversion Unit	Hungary	3400	36/25	21,55/65	2023	3,5	Wet tower, filter & fire water system

1.3 Auxiliary & Process Air Coolers

Ref. No.	Description	Country	Commissioning	Remarks
1.	Kirchdorf Cement Works Induced draft lube oil cooling tower	Austria	1962	finned surface: 6000 sqm cooler type: L-60 Forgo plate fin
2.	Forced draft cooling deltas with fans and louvers	Hungary Poland	1960 1965	total finned surface: 6000 sqm cooler type: L-60 Forgo plate fin
3.	Zala Oil Refinery Induced draft water cooling tower	Hungary	1964	finned surface: 24 000 sqm cooler type: L-60 Forgo plate fin
4.	Moscow Oil Refinery Induced draft water cooling tower with fans and louvers	Soviet Union	1964	finned surface: 72 000 sqm cooler type: L-60 Forgo plate fin
5.	Generator air coolers for hydro power plants, various sizes	Poland India Nepal	1969 1978	L-60 Forgo plate fin, copper alloy core tubes, removable c. steel headers, finned surface: 15 000 sqm
6.	Borsod Chemical Works, Induced draft water cooling tower	Hungary	1965	cooler surface: 20 000 sqm
7.	Katowice Steel Works Forced draft water cooling towers,	Poland	1966	cooler surface: 8000 sqm cooler type: L-60 Forgo plate fin
8.	Transformer oil coolers with fans and accessories, turbulators in the tuber	Hungary	1968 1976	total surface: 10 000 sqm
9.	Forced draft water cooling towers, Duna Cement Works	Hungary	1969- 1970	cooler surface: 18 000 sqm cooler type: L-60 Forgo plate fin
10.	Miskolc Glass Works Forced draft water cooler tower	Hungary	1970	cooler surface: 8000 sqm all aluminum structure with welded tube ends
11.	Forced draft lube oil coolers with control louvers and turbulators in the tuber	Soviet Union	1973	total cooler surface: 1 580 000 sqm
12.	Forced draft water cooler for arc furnace, with demineralizer	Dubai	1974	cooler surface: 2000 sqm
13.	Forced draft units for greenhouse heating, Kashira and Riga	Soviet Union	1976 1986	total cooler surface: 10 000 sqm
14.	Induced draft lube oil coolers and turbulators in the tubes	Soviet Union	1977	cooler type: T-60 Forgo plate fin total cooler surface: 300 000 sqm
15.	Induced draft lube oil coolers with louvers, turbulators in the tubers, electric heating and air recirculation	Soviet Union	1977 1979	total cooler surface: 5 470 000 sqm cooler type:T-60 Forgo plate fin
16.	Gödöllő Engineering Works Forced draft water coolers for motor test facility	Hungary	1978	L-60 Forgo plate fin air coolers, total surface: 10 000 sqm
17.	Ostrava Steel Works Forced draft oil coolers with control louvers	Czechoslovakia	1978	cooler type: L-60 Forgo plate fin total cooler surface: 41 000 sqm
18.	Kardoskut Compressor Station Forced draft water cooler tower with control louvers	Hungary	1979	cooler type: L-60 Forgo plate fin, total cooler surface: 24 000 sqm
19.	Urdoma Compressor Station Induced draft natural gas coolers,	Soviet Union	1979	cooler type: T-60 Forgo plate fin total cooler surface: 39 000 sqm
20.	Vitkovice steel Works Forced draft oil and water cooling tower	Czechoslovakia	1979	cooler type: L-60 Forgo plate fin total cooler surface: 31 000 sqm
21.	Teplíce Glass Works, Induced draft water cooling tower with adjustable speed fan	Czechoslovakia	1980	cooler type: T-60 Forgo plate fin, total cooler surface: 31 000 sqm
22.				

Auxiliary & Process Air Coolers

Ref. No.	Description	Country	Commissioning	Remarks
23.				
24.	Algyô Oil Refinery, Replacement bundles for forced draft water cooling towers,	Hungary	1980	total cooler surface: 16 000 sqm
25.	Beregdaróc Compressor Station, Induced draft natural gas coolers	Hungary	1980	steel core tube air coolers for 100 bar nominal pressure
26.	Induced draft water cooling tower with adjustable speed fans, Teplice Glass Works	Czechoslovakia	1982	cooler type: T-60 Forgo plate fin total cooler surface: 62 000 sqm
27.	Algyô Oil Refinery, Induced draft gasoline condenser	Hungary	1982	steel core tube air cooler, T-60 Forgo, total cooler surface: 38 400 sqm
28.	Algyô Oil Refinery, Forced draft residual oil cooler	Hungary	1982	steel core tube, extruded aluminum fin air cooler, total surface: 1500 sqm
29.				
30.	Városföld Compressor Station, Induced draft natural gas coolers	Hungary	1983	steel core tube air coolers with T-60 Forgo type plate fins, total surface: 19 200 sqm
31.	Induced draft water coolers with control	Czechoslovakia	1983	total cooler surface: 16 000 sqm
32.	Duna Cement Works, Induced draft water coolers with deluging system,	Hungary	1984	total cooler surface 10 000 sqm
33.	Tiszaszederkény Compressor Station, Induced draft natural gas coolers	Hungary	1984	steel core tubes and T-60 Forgo plate fin, total surface: 38 400 sqm
34.	Szank compressor Station, Induced draft gas and water coolers with control louvers	Hungary	1984	steel core tube, steel fin galvanized air coolers, total surface: 4000 sqm
35.	Isfahan Power Station, Auxiliary water coolers and water, spraying system,	Iran	1984 1986	T-60 Forgo plate fin air coolers, total surface: 192 000 sqm
36.	Algyô Compressor Station, Induced draft gas and water coolers with control louvers	Hungary	1985	steel core tube, steel fin galvanized air coolers, total surface: 4000 sqm
37.	Oroszlány Power Station, Replacement bundles for generators,	Hungary	1986	copper alloy core tuber and aluminum plate fins, total surface: 2000 sqm
38.	Forced draft air coolers for various products, Duna Oil Refinery	Hungary	1986	extruded aluminum fin air coolers, total surface: 10 000 sqm
39.	Szank Compressor Station, Induced draft coolers for natural gas (CHS) and jacket water cooling with control louvers	Hungary	1986	extruded aluminum fin air coolers, total surface: 5000 sqm
40.	Induced draft water coolers with electric heating and control louvers for chemical plants	Soviet Union	1986	T-60 Forgo plate fin coolers, total surface: 16 000 sqm
41.	Induced draft lube oil coolers with electric heating, control louvers and air recirculation	Soviet Union	1986	T-60 Forgo plate fin aluminum air coolers, total surface: 1 086 000 sqm
42.	Trakya Combined Cycle Power Plant, Unit A-B, Induced draft auxiliary water coolers and deluging system,	Turkey	1986 1987	steel core tube, T-60 Forgo plate fin coolers, total surface: 24 000 sqm
43.	Replacement bundles for natural gas and pentane coolers	Hungary	1987	extruded aluminum fins wit steel core tubes, total surface: 2000 sqm
44.	Budapest, Induced draft water cooling tower for nuclear test reactor	Hungary	1987	T-60 Forgo plate fin air coolers, total surface: 76 800 sqm
45.	Algyô Compressor Station, Induced draft coolers for natural gas (CHS) and jacket water cooling with control louvers	Hungary	1987	extruded aluminum fin air coolers, total surface: 5000 sqm
46.	Rosendorf nuclear test reactor Induced draft water cooling tower with adjustable speed fans and control louvers	Germany	1987	T-60 Forgo plate fin aluminum coolers, total surface: 32 000 sqm
47.	Hajdúszoboszló Compressor Station, Forced draft natural gas and water coolers, with control louvers	Hungary	1987	extruded aluminum fin and steel core tube air coolers for 120 bar nominal pressure, total surface: 4000 sqm

Auxiliary & Process Air Coolers

Ref. No.	Description	Country	Commissioning	Remarks
48.	Induced draft lube oil coolers with electric heating, louvers and air recirculation	Soviet Union	1987	T-60 Forgo plate fin coolers with turbulators, total surface: 2 500 000 sqm
49.	Kardoskút Compressor Station, Compressed air cooler	Hungary	1987	copper alloy core tubes and alu fins, total surface: 200 sqm
50.	Battonya Compressor Station, Forced draft natural gas and water cooler	Hungary	1987	galvanized steel tube and steel finm, air cooler, total surface: 500 sqm
51.	Trakya Combined Cycle Power Plant, Unit C.,D, Induced draft auxiliary water coolers and deluging system	Turkey	1988	steel core tube, T-60 Forgo plate fin, coolers, total surface: 24 000 sqm
52.	Shahid Rajai Power Station, Induced draft auxiliary water coolers with deluging system	Iran	1988 1989	resin coated T-60 Forgo aluminum, air coolers, total surface: 72 000 sqm
53.	Hajduszoboszló Compressor Station, Forced draft natural gas and water cooler with control louvers	Hungary	1990	extruded aluminum fin and steel core tube air coolers total surface: 20 000 sqm
54.	Shahid Rajai Power Station, Induced draft auxiliary water coolers with deluging system	Iran	1991	resin coated T-60 Forgo aluminum, air coolers, total surface: 72 000 sqm
55.	Induced draft lube oil coolers with electric heating control louvers and recirculation	Russia	1991	T-60 Forgo aluminum air coolers with turbulators total surface: 45 000 sqm
56.	Induced draft lube oil coolers with electric heating, control louvers and recirculation	Russia	1992 1993	T-60 Forgo aluminum air coolers with turbulators, total surface: 45 000 sqm
57.	Sugar Factory, Kaposvár, Forced draft generator cooler bundles	Hungary	1993	T-60 Forgo aluminum air coolers, total surface: 540 sqm
58.	Erbeek, Forced draft auxiliary water coolers with deluging system	The Netherlands	1993	Resin coated T-60 Forgo aluminum air coolers, total surface: 14 400 sqm
59.	Neil Simpson Station Unit II. Induced draft auxiliary water coolers with deluging system	USA	1994	resin coated T-60 Forgo aluminum, air coolers with carbon steel insert tubes, extremely cold climate, total surface: 11 520 sqm
60.	Zsana Underground Gas Storage, Forced draft gas coolers	Hungary	1994	extruded aluminum fin and stainless steel core tube air cooler, design pressure: 144 bar, design temperature: 160°C
61.	Zsana Underground Storage, Forced draft auxiliary glycol-water coolers and cooling system	Hungary	1994	extruded aluminum fins and steel core, tube air cooler total surface: 3 X 2 200 sqm
62.	Forced draft methanol condenser	Hungary	1994	Extruded aluminum fin and steel core, tube air cooler, total surface: 1140 sqm
63.	Induced draft lube oil coolers with electric heating control louvers and recirculation	Argentina	1994	T-60 Forgo aluminum air, coolers with turbulators, total surface: 1920 sqm
64.	Induced draft lube oil coolers with electric heating, control louvers and recirculation	Russia	1994	T-60 Forgo aluminum air coolers with turbulators total surface: 4 X 1920 sqm
65.	Spare parts of oil coolers	Uzbekistan	1995	T-60 Forgo aluminum air cooler with turbulators, total surface: 9600 sqm
66.	Spare parts of oil coolers	Ukraine	1995 1996	T-60 Forgo air cooler with aluminum fins, tubes and turbulators, total surface: 31 700 sqm
67.	Paks Nuclear Station Unit I.-II., Cooler for the pump house of emergency feed-water system	Hungary	1996	T-60 Forgo aluminum air coolers with stainless steel tubes and tube sheets total air side surface: 4 X 60 sqm
68.	OVIT Transmission Co. Ltd. Transformer oil cooler (100KW)	Hungary	1996	T-60 Forgo aluminum air coolers with stainless steel tubes and tube sheets, total air side surface: 10 X 140 sqm
69.	Brugge CCPP, Induced draft auxiliary oil cooler	Belgium	1996	T-60 Forgo air cooler with aluminum, fins and copper tubes, total air side surface: 5184 sqm
70.	Paks Nuclear Station Unit III.-IV., Cooler for the pump house of emergency feed-water system	Hungary	1997	T-60 Forgo aluminum air coolers with stainless steel tubes and tube sheets total air side surface: 4 X 60 sqm

Auxiliary & Process Air Coolers

Ref. No.	Description	Country	Commissioning	Remarks
71.	RMVA Köln, Induced draft auxiliary water cooler	Germany	1997	T-60 Forgo air cooler with aluminum fins, carbon steel tubes, total air side surface: 13 824 sqm
72.	Algyó Forced draft hydrocarbon product condenser refurbishment	Hungary	1998	extruded aluminum fin tubes, total air side surface: 40 700 sqm
73.	Nemesbikk Induced draft high pressure natural gas cooler	Hungary	1998	extruded aluminum fins, steel core tubes, total air side surface: 11 500 sqm
74.	Százhalombatta Forced draft hydrocarbon product condensers and coolers	Hungary	1998	extruded and embedded aluminum fins, steel core tubes, total air side surface: 39 100 sqm
75.	Bursa 1400 MWe CCPP Induced draft auxiliary water coolers with deluging system	Turkey	1999	TA-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 61 500 sqm
76.	Virginia Power Company Remington P. P. Induced draft gas turbine water coolers	USA	1999	TA-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 48 000 sqm
77.	Florida Power Corporation Intercession City Forced draft gas turbine water coolers	USA	2000	TA-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 21 600 sqm
78.	Tennessee Valley Authority Lagoon Creek Forced draft gas turbine water coolers	USA	2000	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 38 400 sqm
79.	SEI#-4, Michigan Forced draft gas turbine water coolers	USA	2000	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 19 200 sqm
80.	Ray Olinger, Texas Forced draft gas turbine water cooler	USA	2000	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 3 600 sqm
81.	Doswell, Virginia Forced draft gas turbine water cooler	USA	2000	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 14 400 sqm
82.	Virginia Power Company Ladysmith P. P. Induced draft gas turbine water coolers	USA	2000	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 24 000 sqm
83.	West Phoenix Power Plant Arizona Forced draft gas turbine water cooler	USA	2000	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 2 400 sqm
84.	ECAR Power Project Ceredo, West Virginia Forced draft gas turbine water cooler	USA	2000	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 14 400 sqm
85.	Gebze 2 x 770 MWe CCPP Forced draft auxiliary water coolers	Turkey	2001	TA-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 115 200 sqm
86.	Adapazari 770 MWe CCPP Forced draft auxiliary water coolers	Turkey	2001	TA-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 57 600 sqm
87.	Tristate Brighton Forced draft gas turbine water coolers,	USA	2001	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 9 600 sqm
88.	Tristate Limon Forced draft gas turbine water coolers	USA	2001	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 9 600 sqm
89.	Linden 07 Forced draft gas turbine water coolers	USA	2001	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 14 400 sqm
90.	First Energy Sumpter Forced draft gas turbine water coolers	USA	2001	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 19 200 sqm
91.	SEI Mobil Forced draft gas turbine water coolers	USA	2001	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 9 600 sqm

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Ref. No.	Description	Country	Commissioning	Remarks
92.	Dominion (Pleasants) Forced draft gas turbine water coolers	USA	2001	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 28 800 sqm
93.	Platte River Plant Unit A Arizona Forced draft gas turbine water coolers	USA	2001	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 2 400 sqm
94.	Dominion (Troy) Forced draft gas turbine water coolers	USA	2001	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 57 600 sqm
95.	Forced draft gas turbine water	USA	2001	TA-60 Forgo air cooler with aluminum plate fins and steel tubes total air side surface: 57 600 sqm
96.	Wygen Station 1, Unit III. Induced draft auxiliary water coolers with deluging system	USA	2001	resin coated T-60 Forgo aluminum air coolers with carbon steel insert tubes, extremely cold climate, total surface: 11 700 sqm
97.	Tennessee Valley Authority Lagoon Creek II Forced draft gas turbine water coolers	USA	2001	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 19 200 sqm
98.	Tennessee Valley Authority Kemper Forced draft gas turbine water coolers	USA	2001	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 19 200 sqm
99.	Platte River Plant Unit B&C Arizona Forced draft gas turbine water cooler	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 4 800 sqm
100.	Williams-Memphis Refinery Forced draft gas turbine water coolers	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 4 800 sqm
101.	Morristown Tennessee Forced draft gas turbine water coolers	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 14 400 sqm
102.	Mirant Portage County Ohio Forced draft gas turbine water coolers	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes,
103.	Colbun Nehuenco Forced draft gas turbine water coolers	Chile	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 14 400 sqm
104.	FPL Energy Fort Myers, Florida Forced draft gas turbine water coolers	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 28 800 sqm
105.	Calhoun Power Co. Calhoun, Alabama Forced draft gas turbine water coolers	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 57 600 sqm
106.	Blue Spruce Energy Center Aurora, Colorado Forced draft gas turbine water coolers	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 43 200 sqm
107.	Southern Illinois Power Co. Marion Station, Illinois Forced draft gas turbine water coolers	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 9 600 sqm
108.	WSP Resources Co. Pulliam, Wisconsin Forced draft gas turbine water coolers,	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 4 800 sqm
109.	Kansas City Power & Light. West Gardner, Forced draft gas turbine water coolers	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes
110.	Kansas City Power & Light. Paola, Forced draft gas turbine water coolers	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes
111.	Rainey Generation Santee Cooper, South Carolina Forced draft gas turbine water coolers	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes
112.	Corn Belt / Basin Electric Wisconsin Iowa Forced draft gas turbine water coolers	USA	2002	TA-60 Forgo air cooler with aluminum plate fins and steel tubes

Auxiliary & Process Air Coolers

Ref. No.	Description	Country	Commissioning	Remarks
113.	Spalding CCPP; Bechtel Co./Intergen Forced draft auxiliary water coolers Low noise design	Great Britain	2002	T-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 101 400 sqm
114.	Hitachi GT-s, LNG plant, Damietta Forced draft auxiliary oil cooler	Egypt	2003	TA-60 Forgo air cooler with aluminum fins and stainless steel tubes
115.	GEA Luftkühler; MOL GOK-3 Hydrocarbon products condenser and cooler tube bundles	Hungary	2003	extruded and embedded aluminum fins, steel core tubes, welded and expanded tube to tube sheet connections, total air side surface: 65 150 sqm
116.	GEA Luftkühler; PCK Hydrocarbon products cooler tube bundles	Germany	2003	extruded aluminum fins, steel core tubes, welded and expanded tube to tube sheet connections, total air side surface: 26 300 sqm
117.	DOOSAN Co., Rehab Power Plant Induced draft gas turbine water coolers,	Jordan	2004	T-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 9 400 sqm
118.	Sakhalin II. Onshore Processing Facility Project, Induced draft auxiliary oil cooler	Russia	2004	TA-60 Forgo air cooler with aluminum plate fins and tubes, with turbulator total air side surface: 14 040 sqm
119.	OTF; MOL-BEK 5 Forced draft hydrocarbon product condensers and coolers	Hungary	2004	extruded and embedded aluminum fins, steel core tubes, welded and expanded tube to tube sheet connections, total air side surface: 38 600 sqm
120.	GEA Luftkühler; BAMAG Hydrocarbon products cooler tube bundles	Germany	2004	wrap-on aluminum fins, stainless steel core tubes, welded and expanded tube to tube sheet connections, total air side surface: 11 000 sqm
121.	GEA Luftkühler; Shin Etsu Hydrocarbon products cooler tube bundles	Germany	2004	embedded aluminum fins, steel core tubes, welded and expanded tube to tube sheet connections, total air side surface: 47 200 sqm
122.	GEA Luftkühler; Erfurt Hydrocarbon products cooler tube bundles	Germany	2004	extruded aluminum fins, steel core tubes, welded and expanded tube to tube sheet connections, total air side surface: 11 600 sqm
123.	GEA Luftkühler; Shell & DEA Hydrocarbon products cooler tube bundles	Germany	2004	wrap-on aluminum fins, steel core tubes, welded and expanded tube to tube sheet connections, total air side surface: 13 200 sqm
124.	GEA Luftkühler; Alstom Hydrocarbon products cooler tube bundles	Latvia	2004	extruded and wrap-on aluminum fins, steel core tubes, welded and expanded tube to tube sheet connections; total air side surface: 49 200 sqm
125.	GEA Luftkühler; NETRA Hydrocarbon products cooler tube bundles	Germany	2004	extruded aluminum fins, steel core tubes, welded and expanded tube to tube sheet connections, total air side surface: 45 200 sqm
126.	GEA Luftkühler; MAN Hydrocarbon products cooler tube bundles	Germany	2004	extruded aluminum fins, steel core tubes, expanded tube to tube sheet connections, total air side surface: 15 800 sqm
127.	GEA Luftkühler; OMV Hydrocarbon products cooler tube bundles	Austria	2004	extruded aluminum fins, steel core tubes, welded and expanded tube to tube sheet connections, total air side surface: 27 300 sqm
128.	GEA Luftkühler; Linde Hydrocarbon products cooler tube bundles	Ukraine	2004	embedded aluminum fins, steel core tubes, expanded tube to tube sheet connections, total air side surface: 12 200 sqm
129.	GEA Luftkühler; BAMAG Hydrocarbon products cooler tube bundles	Germany	2004	wrap-on aluminum fins, stainless steel core tubes, welded and expanded tube to tube sheet connections total air side surface: 5 500 sqm
130.	GEA Luftkühler; Tebodin Hydrocarbon products cooler tube bundles	Germany	2004	embedded aluminum fins, stainless steel core tubes, welded and expanded tube to tube sheet connections stainless steel headers, total air side surface: 10 900 sqm
131.	GEA Luftkühler; Plock Hydrocarbon products cooler tube bundles	Poland	2005	embedded aluminum fins, steel core tubes, welded and expanded tube to tube sheet connections, total air side surface: 30 900 sqm

Auxiliary & Process Air Coolers

Ref. No.	Description	Country	Commissioning	Remarks
132.	Zsana Underground Gas Storage Forced draft gas coolers	Hungary	2005	extruded aluminum fin and stainless steel core tube air cooler, design pressure: 144 bar, design temperature: 160°C , total air side surface: 9 100 sqm
133.	GEA Luftkühler; Saarstahl Water cooler tube bundles	Germany	2005	embedded aluminum fins, steel core tubes, welded tube to tube sheet connections total air side surface: 22 300 sqm
134.	GEA Luftkühler; Perstorp Water cooler tube bundles	Sweden	2005	L-footed aluminum fins, steel core tubes, welded tube to tube sheet connections total air side surface: 22 700 sqm
135.	Algyő Underground Gas Storage Forced draft gas coolers	Hungary	2005	extruded aluminum fin and stainless steel core tube air cooler, total air side surface: 10 160 sqm
136.	Al Nasserieh 510 MWe CCPP Forced draft auxiliary water coolers	Syria	2006	TA-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 28 000 sqm
137.	Zayzoun 510 MWe CCPP Forced draft auxiliary water coolers	Syria	2006	TA-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 28 000 sqm
138.	MOL (Hungarian Oil Company), Beregdaróc Induced draft gas turbine glycol-water coolers	Hungary	2006	TA-67 Forgo air cooler with aluminium plate fins and steel core tubes, total air side surface: 1 150 sqm
139.	Beregdaróc, Induced draft high pressure natural gas cooler	Hungary	2006	TA-67 Forgo air cooler with aluminium plate fins and steel core tubes, total air side surface: 27 000 sqm
140.	Beregdaróc, High pressure natural gas cooler retrofit (changing of extruded finned tubes to TA67 finned tube bundle)	Hungary	2006	TA-67 aluminium fins, steel core tubes, total air side surface: 27 000 sqm
141.	Hajdúszoboszló, Induced draft high pressure natural gas cooler	Hungary	2006	TA-67 aluminum fins, steel core tubes, total air side surface: 20 250 sqm
142.	Wygen Station 2, Unit IV. Induced draft auxiliary water coolers with deluging system	USA	2006	resin coated T-60 Forgo aluminum air coolers with carbon steel insert tubes, extremely cold climate, total surface: 11 700 sqm
143.	Polk Power Station, Florida Forced draft auxiliary water cooler	USA	2006	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 18 716 sqm
144.	MMDC Moscow City 130 MWe Town heating CCPP Forced draft auxiliary water coolers	Russia	2007	TA-67 Forgo air cooler with aluminum plate fins and steel core tubes, total air side surface: 36 800 sqm
145.	Modugno CCPP Auxiliary Cooler	Italy	2008	TA-60 Forgo air cooler with aluminum plate fins and steel core tube, total air side surface: 76 800 sqm
146.	Wygen Station 3, Unit V. Induced draft auxiliary water coolers with deluging system	USA	2008	resin coated T-60 Forgo aluminum air coolers with carbon steel insert tubes, extremely cold climate, total surface: 23 400 sqm
147.	Virginia Power Company Ladysmith P. P. Unit III-4 and Unit V Induced draft gas turbine water coolers,	USA	2008	TA-60 Forgo air cooler with aluminum plate fins and steel tubes, total air side surface: 36 000 sqm
148.	Tereshkovo Power Station Induced draft auxiliary-glycol water coolers with deluging system	Russia	2009	resin coated T-60 Forgo aluminum air coolers with carbon steel insert tubes, total surface: 38 400 sqm
149.	Kojuhovo Power Station Induced draft auxiliary-glycol water coolers with deluging system	Russia	2009	resin coated T-60 Forgo aluminum air coolers with carbon steel insert tubes, total surface: 38 400 sqm
150.	Tube bundles for corn dryer plant	Hungary	2010	T-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 3 000 sqm
151.	XKK Kazakhstan oil field project Induced draft auxiliary oil cooler	Kazakhstan	2010	TA-60 Forgo air cooler with aluminum plate fins and tubes, with turbulator total air side surface: 14 040 sqm

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Ref. No.	Description	Country	Commissioning	Remarks
152.	Sochi III, Induced draft auxiliary water coolers with deluging system	Russia	2010	T-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 15 600 sqm
153.	Brunswick County Power Station Dominion Induced draft auxiliary water glycol cooler with deluging system	USA	2013	T-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 140 000 sqm
154.	Fortum, Loviisa Nuclear Power Plant Forced draft emergency water cooler	Finland	2013	TA-60 Forgo air cooler with aluminum plate fins and stainless steel tubes, total air side surface: 39 800 sqm
155.	Centralnaya Power Station, Saint Petersburg Induced draft auxiliary water glycol cooler with deluging system	Russia	2014	T-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 23 400 sqm
156.	Greensville County Power Station, Dominion Induced draft auxiliary water glycol cooler with deluging system	USA	2015	T-60 Forgo air cooler with aluminum plate fins, tubes and steel core tubes, total air side surface: 140 000 sqm
157.	Gösgen Nuclear Power Plant, Natural draft emergency water cooler	Switzerland	2016	TA-60 Forgo air cooler with aluminum plate fins and stainless steel tubes,
158.	Avtovskaya TPP-15 AC, St. Petersburg Induced draft peak auxiliary water cooler with deluging system	Russia	2022	T-60 Forgo air cooler with aluminum plate fins and tubes, total air side surface sqm 65 000
159.	MIFÚ, Miskolc CCPP Forced draft water cooler for excess heat rejection units	Hungary	2022	TA-60 Forgo air cooler with aluminum plate fins and stainless steel tubes, total air side surface sqm 10 000

2. POWER ENGINEERING & PROCESS TECHNOLOGY

2.1 Conventional Heat Production - Boiler and Heating Plants

Ref. No.	Description	Country	Year	Remarks	
1.	Boiler plant, Óbuda	Hungary	1970	2x6 t/h, 2,50 Gcal/h, 150/70 °C 1x100 Gcal/h, 150/70 °C	n. gas
2.	Boiler plant, Benátky	Czechoslovakia	1970	3x10 t/h 10 bar	oil
3.	Boiler plant, Blankenburg	Germany	1971	3x10 t/h 12 bar	oil
4.	Boiler plant, Zugló	Hungary	1971	2x6 t/h 3x50 Gcal/h, 150/70 °C	n. gas
5.	Boiler plant, Újpalota	Hungary	1971	2x6 t/h 3x50 Gcal/h, 150/70 °C	n. gas
6.	Extension of boiler plant, Debrecen	Hungary	1974	3x50 Gcal/h 150/70 °C	oil or n. gas
7.	Boiler plant, Branderburg	Germany	1975	3x12 t/h, 12 bar	oil
8.	District Heating plant, Észak-Buda	Hungary	1977 1979 1977	2,6 t/h 1x50 Gcal/h, 150/70 °C 2x50 Gcal/h, 150/70 °C 2x 10.000 m ³ storage tank	oil or n. gas oil
9.	Boiler plant, Pesterzsébet	Hungary	1977	2x50 Gcal/h, 150/70 °C	oil or n. gas
10.	Boiler plant, Pesterzsébet	Hungary	1977	4x 6 t/h, 1x50 Gcal/h, 150/70 °C	n. gas
11.	Boiler reconstruction, cogeneration plant, Halle	Germany	1981	3x125 t/h 102 bar/525 °C	n. gas
12.	Extension of boiler plant, Szekszárd	Hungary	1982	2x35 Gcal/h 150/70 °C	oil
13.	Extension of boiler plant, Alkaloida Works, Tiszavasvári	Hungary	1982	50 t/h 38 bar/420 °C	oil
14.	Heat transfer oil boiler plant, Forestry, Szombathely	Hungary	1982	1.6 Gcal/h 285 °C	oil
15.	Boiler reconstruction, cogeneration plant, Premnitz	Germany	1983	2x125 t/h 102 bar/525 °C	oil or inert gas
16.	Boiler reconstruction, Dresden	Germany	1983	4x10 t/h 12 bar/525 °C	oil or n.gas

Conventional Heat Production - Boiler and Heating Plants

Ref. No.	Description	Country	Year	Remarks
17.	Boiler reconstruction, Elsterwerda	Germany	1983	3x10 t/h 12 bar n. gas
18.	Boiler plant, Mosonmagyaróvár	Hungary	1983	3x4 t/h 12 bar coal
19.	Extension of district heating plant, Debrecen	Hungary	1983	2x50 t/h 38 bar/420 °C 1x100 Gcal/h 150/70 °C oil or n.gas
20.	Boiler reconstruction, cogeneration plant, Halle	Germany	1984	2x100 Gcal/h oil or inert gas or n.gas
21.	Extension of boiler plant, Kőbánya Brewery	Hungary	1986	50 t/h 38 bar/420 °C n. gas
22.	Extension boiler plant, Hodsusa Hamre	Czechoslovakia	1986	12 t/h 8 bar n. gas
23.	Extension boiler plant, Banska Stiavnica	Czechoslovakia	1987	7 t/h 8 bar n. gas
24.	Boiler plant, Pesterzsébet Paper Works	Hungary	1988	12 t/h n.gas
25.	District Heating Plant Csepel	Hungary	1988	10 t/h 16 bar/240 °C sunflower seed shell
26.	Boiler plant, AGROFERM	Hungary	1989	2x2.8 t/h oil
27.	Boiler plant, Ball Bearing Works, Debrecen	Hungary	1989	3x12 t/h n.gas
28.	Boiler plant, Ball Bearing Works, Diósd	Hungary	1989	3x12 t/h n.gas
29.	Boiler plant, HAGE, Kaba	Hungary	1990	4x20 t/h 2x23 t/h oil or n. gas
30.	Boiler plant, Szentendre Paper Works	Hungary	1990	16 t/h oil
31.	Extension of boiler plant, Behovice	Czechoslovakia	1990	25 t/h 37 bar/450 °C n. gas
32.	Boiler plant, Znojmo Canning Works	Czechoslovakia	1990	2x20 t/h 1x16 t/h 16 bar/230 °C n. gas oil or n. gas
33.	Boiler plant, Dunaújváros Steel Works	Hungary	1990	100 t/h 42 bar/450 °C oil n. gas Furnace gas or chamber gas

Conventional Heat Production - Boiler and Heating Plants

Ref. No.	Description	Country	Year	Remarks
34.	Boiler plant, Dunaújváros Steel Works	Hungary	1991	100 t/h 42 bar/450 °C
35.	Boiler plant reconstruction, Dunaferr Steel Works	Hungary	1994	75 t/h 46 bar/450 °C oil n. gas furnace gas or chamber gas
36.	Boiler plant reconstruction, Dunaferr Steel Works	Hungary	1995	75 t/h 46 bar/450 °C oil n. gas furnace gas or chamber gas
37.	Boiler plant, Planetárium Budapest	Hungary	2003	n.gas
38.	Boiler plant reconstruction Debrecen, Power Plant	Hungary	2004	circulation pump installation
39.	Boiler plant reconstruction Nyíregyháza, Power Plant	Hungary	2005	N°9, N°10 n.gas fired boilers reconstruction

2.2 Conventional Heat Production - Power and Heating Plants

Ref. No.	Description	Country	Year	Remarks	
1.	Extension of cogeneration plant, Mosonmagyaróvár Alumina Works	Hungary	1952	7 x 212 t/h 12 bar/310 °C	coal
2.	Power station Marosújvár Soda Works	Rumania	1954	3 x 50 t/h, 8,2 MW 40 bar/430 °C	n.gas
3.	Power stations (several units)	China	1954-56	10t/h, 0,4 to 1,5 MW (each) 22 bar/390 °C	coal
4.	Cogeneration plant, Budapest, Textile Works	Hungary	1955	18+14 t/h, 1,6 MW 29 bar/390 °C	coal
5.	Cogeneration plant, Nyergesújfalu, Chemical Works	Hungary	1957	20 t/h, 0,7 MW 17 bar/350 °C	coal
6.	Cogeneration plant, Nagykanizsa Brewery	Hungary	1957	20t/h, 0,2 MW 23 bar/390 °C	coal
7.	Cogeneration plant, Hungarian Chemical Works	Hungary	1958	2x14 t/h, 2,8 MW 41 bar/450 °C	coal
8.	Extension of Wang Ting Power Station	China	1958	120 t/h, 25 MW 37 bar/450 °C	coal
9.	Cogeneration plant, Hida Coal-cake Works	Hungary	1960	2x14 t/h, 2,1 MW 37 bar/450 °C	coal
10.	Cogeneration plant, Csepel Paper Works	Hungary	1960	2x50 t/h, 12,6 MW 116 bar/500 °C	coal
11.	Cogeneration plant, United Pharmaceutical Works	Hungary	1960	2x14 t/h, 2 MW 41 bar/450 °C	coal
12.	Cogeneration plant, Budapest, Distillation Works	Hungary	1961	52 t/h, 4,5 MW 41 bar/450 °C	coal
13.	Power Station Csepel Works	Hungary	1961	48 t/h, 4,6 MW 41 bar/450 °C	coal
14.	Cogeneration plant extension, Kőbánya Brewery	Hungary	1961	2x24 t/h, 4,5 MW 41 bar/450 °C	coal
15.	Cogeneration plant, Mohács Wood-fibred Works	Hungary	1961	2x22 t/h, 1,8 MW 40 bar/450° C	coal
16.	Cogeneration plant, Kispest	Hungary	1961	2x50 t/h, 12,6 MW 116 bar/500 °C	coal
17.	Cogeneration plant, Sopron	Hungary	1962	2x16 t/h, 4,4 MW 31 bar/390 °C	coal
18.	Cogeneration plant, Hungarian Wool Works, Budapest	Hungary	1962	21 t/h, 0,8 MW 23 bar/380 °C	coal
19.	Cogeneration plant, Nitrochemical Works, Fűzfő	Hungary	1962	2x25 t/h, 4,5 MW 41 bar/450 °C	coal

Conventional Heat Production - Power and Heating Plants

Ref. No.	Description	Country	Year	Remarks	
20.	Power Station, Tanh-Hoa	Vietnam	1962	2x10 t/h, 2x1,5 MW 22 bar/390 °C	coal
21.	Power Station, Tura	India	1962	2x18 t/h, 2x1,5 MW 37 bar/400 °C	coal
22.	Power Station, Lasi	Rumania	1963	3x120 t/h, 2x28 MW 101 bar/540 °C	oil or n. gas
23.	Cogeneration plant, Szolnok Paper Factory	Hungary	1964	24 t/h, 2,5 MW 41 bar/450 °C	coal
24.	Cogeneration plant, Kőbánya	Hungary	1964	4x50 t/h, 2x12,7 MW, 1x2,1 MW 116 bar/500 °C	oil or n. gas
25.	Cogeneration plant, LANG Engineering Works	Hungary	1964	2x33 t/h, 10,6 MW, 41 bar/450 °C	coal
26.	Power Station, Site not disclosed	Vietnam	1964	2x25 t/h, 2x4,5 MW, 41 bar/450 °C	coal
27.	Extension of cogeneration plant, Kőbánya	Hungary	1965	2x50 Gcal/h 150/80 °C	oil
28.	Cogeneration plant, Szerencs Sugar Works	Hungary	1967	2x32 t/h, 8,4 MW, 46 bar/420 °C	oil
29.	Cogeneration plant, Szolnok Sugar Works	Hungary	1968	2x40 t/h, 10,5 MW, 45 bar/420 °C	oil
30.	Cogeneration plant, Magyaróvár Alumina Works	Hungary	1968	2x35 t/h, 10,7 MW, 70 bar/500 °C	coal
31.	Extension of cogeneration plant, Kispest	Hungary	1970	2x50 t/h, 12,6 MW, 116 bar/500 °C	coal
32.	Extension of power station, Almásfüzitő Aluma Works	Hungary	1971	35 t/h 70 bar/500 °C	coal
33.	ETIBANK power Station	Turkey	1971	8x13,2 MW gas turbine	n.gas
34.	Extension of cogeneration plant, Nyíregyháza	Hungary	1973	2x60 t/h, 8,5 MW 43 bar/430 °C	oil or n. gas
35.	Extension of power station, Devnia	Bulgaria	1974	5x220 t/h, 2x21,3 MW, 101 bar/540 °C	n. gas
36.	Extension of cogeneration plant, Sopron	Hungary	1976	2x35 t/h, 10,5 MW 37 bar/450 °C	oil

Conventional Heat Production - Power and Heating Plants

Ref. No.	Description	Country	Year	Remarks	
37.	Extension of cogeneration plant, Győr	Hungary	1976	2x50 Gcal/h, 150/70 °C	n. gas
38.	Power station, Sirte	Libya	1976	3x10 MW, gas turbine	n. gas
39.	NESTE power station	Finland	1977	1x30 MW gas turbine	n. gas
40.	Power station, Obrovac Alumina Works	Yugoslavia	1987	3x80 t/h, 17,5 MW 100 bar/535 °C	n. gas
41.	Power station, Paros island	Greece	1978	3x2,6 MW	oil diesel
42.	Power station, Kalymnos island	Greece	1979	4x2,6 MW and 2x5,2 MW diesel	oil
43.	Pre-heater plant, Schönwalde	Germany	1984	200+105 t/h water	flue gas
44.	Power station boilers, Neyveli	India	1986	3x670 t/h 163 bar/540 °C	lignite
45.	Condensate water polishing system Datong Power Plant	China	1988	2x550 t/h	
46.	Extension of power station, Dorog	Hungary	1989	50 t/h 40 bar/450 °C	coal
47.	Reconstruction of IC system, Sopron Power Station	Hungary	1989	2x35 t/h 40 bar/425 °C	oil or n.gas
48.	Boiler plant, Szentendre Paper Works	Hungary	1990	16 t/h	oil
49.	Reconstruction of I&C system, Győr Power Station	Hungary	1990	2x35 t/h 40 bar/425 °C	oil or n. gas
50.	I&C system in power plant, Petőháza Sugar Works	Hungary	1990	60 t/h 40 bar/450 °C	oil or n. gas
51.	Boiler reconstruction, Tatabánya Power Station	Hungary	1991	2x55 t/h 31 bar/415 °C	oil
52.	Extension of Győr power plant	Hungary	1991	75 t/h 40 bar/425 °C	oil or n. gas
53.	I&C system, Győr power plant	Hungary	1991	75 t/h 40 bar/425 °C	oil or n. gas
54.	Combined cycle plant extension, boiler plant Debrecen, (PFS, FS, DSI)	Hungary	1993	80 MWe	
55.	Fluidized bed combustion boiler extension, Pécs power station	Hungary	1993	85-100 MWe	coal

Conventional Heat Production - Power and Heating Plants

Ref. No.	Description	Country	Year	Remarks
56.	Circulating fluidized bed combustion boiler and steam turbine extension, Inota power station, (PFS, FS, DSI)	Hungary	1993	150 MWe coal
57.	Circulating fluidized bed combustion boiler and steam turbine extension, Borsod power station (PFS)	Hungary	1993	150 MWe coal
58.	Combined cycle plant extension, cogeneration plant Kispest (CS)	Hungary	1993	60-140 MWe n. gas
59.	Retrofit of 215 MW units of Dunamenti power station (CS)	Hungary	1995	215 MWe n. gas or oil
60.	Ash conditioning system, Dunamenti Power Station	Hungary	1995	ammonia dosage and dust processing
61.	Hydro Power Plant, Ghamashiab	Iran	1997	2x1,5 MWe
62.	Back pressure Power Station, Dunaferri	Hungary	1997	5,6 MWe 35 bar/400 °C
63.	Auxiliaries for gas turbine plant, Sajószöged	Hungary	1998	oil system, water system I&C, civil works, etc.
64.	Auxiliaries for gas turbine plant, Litér	Hungary	1998	oil system, water system I&C, civil works, etc.
65.	Desulfurization plant, Mátra Power Station	Hungary	2000	joint venture with Deutsche Babcock Anlagen for 636 MWe capacity
66.	Auxiliaries for secondary reserve gas turbine plant, Lőrinci	Hungary	2000	170 MWe
67.	Installation of steam turbine and generator unit, Onyx Kft. waste incineration	Hungary	2002	857 kW _e , 10 t/h; 16 bar/260°C
68.	Boiler plant reconstruction Nyíregyháza, Power Plant	Hungary	2005	oil system, water system, steam system, etc.
69.	North Buda gas turbine cogeneration Heating plant	Hungary	2007 2007 <u>2008</u> 2008	9,88 MWe 9,88 MWe <u>30.22 MWe</u> 49.98 MWe
70.	Ajka OCGT plant (BOP)	Hungary	2010	2x58 MWe gas turbines

2.3 Heat Recovery Units

Ref. No.	Description	Country	Year	Remarks	
1.	Cogeneration plant, Tisza Chemical Works	Hungary	1963	42 t/h, 4,5 MW 41 bar/450 °C	waste heat boiler
2.	Boiler plant, Orosháza Glass Factory	Hungary	1972	5x3,6 t/h 16 bar/320 °C	waste heat boiler
3.	Boiler plant, Orosháza Glass Factory	Hungary	1974	10 t/h 16 bar/320 °C	waste heat boiler
4.	Boiler plant, Salgótarján Glass Factory	Hungary	1974	1,5 Gcal/h 130/110 °C	waste heat boiler
5.	Boiler plant, Tokod Glass Factory	Hungary	1977	3 t/h, 12 bar	waste heat boiler
6.	Boiler plant, Salgótarján Glass Factory	Hungary	1979	4,5 t/h 7 bar	waste heat boiler
7.	Boiler plant, Százhalombatta Oil Refinery	Hungary	1979	5,7 t/h 12 bar	waste heat boiler
8.	Boiler plant, Dunaújváros Metallurgical Works	Hungary	1979	26 t/h 18 bar/320 °C	waste heat boiler
9.	Combinated cycle power plant, Aliaga	Turkey	1980	4x60 t/h, 2x30 MW 37 bar/450 °C	waste heat boiler
10.	Boiler plant, Miskolc Metallurgical Work	Hungary	1980	12 t/h 11 bar	waste heat boiler
11.	Boiler plant, Martfű Shoe Factory	Hungary	1980	6,5 t/h 14 bar	waste heat boiler
12.	Boiler plant, Pulmonological Institute, Budakeszi	Hungary	1981	1,5 t/h 6 bar	waste heat boiler
13.	Waste heat recovery boiler plant, CEREOL Veg.Oil Factory, Martfű	Hungary	1981	3x15 t/h 30 bar/380 °C	sunflower sees shell

Heat Recovery Units

Ref. No.	Description	Country	Year	Remarks	
	Mátra Power Station	Hungary	—	1983	LOTHUS system, green house heating
14.	Waste heat recovery boiler plant, Kecskemét	Hungary	1981	6 t/h 12 bar	sawdust& cuttings
15.	Waste heat recovery boiler plant, CEREOIL Veg.Oil Factory, Győr	Hungary	1981	10 t/h 16 bar 240 °C	sunflower seed shell
16.	Boiler plant, TUNGSRAM, Nagykanizsa	Hungary	1982	4,1 t/h 4 bar	waste heat boiler
17.	Boiler plant Salgótarján Glass Factory	Hungary	1982	1 Gcal/h 130/110 °C	waste heat boiler
18.	Waste heat recovery boiler plant, Budavidék Forestry, Budakeszi	Hungary	1982	2x2 t/h 12 bar	chips of woods
19.	Waste heat recovery boiler plant, Nagykunság Forestry, Nagykőrös	Hungary	1982	2x4 t/h 12 bar	wood-waste
20.	Boiler plant, Ajka Glass Works	Hungary	1983	2.4 t/h 2 bar	waste heat boiler
21.	Waste heat recovery boiler plant, Délalföld Forestry, Szeged	Hungary	1983	10 t/h 12 bar	wood-waste
22.	Waste heat recovery boiler plant, Pilis State Forestry, Visegrád	Hungary	1983	2x4 t/h 12 bar	wood-waste
23.	Boiler plant, Nemsova Glass Works	Czechoslovakia	1984	3x1.5 t/h 4 bar	waste heat boiler
24.	Boiler plant, Dunaújváros Steel Works	Hungary	1984	4x15.5 t/h 18 bar/320 °C	waste heat boiler
25.	Boiler plant, Light Metal Works, Székesfehérvár	Hungary	1984	12 t/h 8 bar/220 °C	waste heat boiler

Heat Recovery Units

Ref. No.	Description	Country	Year	Remarks	
26.	Waste heat recovery boiler plant, CEREOIL Veg.Oil Factory Nyírbátor	Hungary	1984	10 t/h 16 bar/240 °C	sunflower seed shell
27.	Waste heat recovery boiler plant, CEREOIL Veg.Oil Factory Győr	Hungary	1984	10 t/h 16 bar/240 °C	sunflower seed shell
28.	Waste heat recovery boiler plant, CEREOIL Veg.Oil Factory, Budapest	Hungary	1984	10 t/h 16 bar/240 °C	sunflower seed shell
29.	Waste heat recovery boiler plant, Textile Plant, Nagylak	Hungary	1984	10 t/h 12 bar	wood-waste & hemp tow
30.	Boiler plant, Glass Works, Dubravka	Czechoslovakia	1985	1.5 t/h 5 bar	waste heat boiler
31.	Boiler plant, Glass Works, Salgótarján	Hungary	1986	2.2 Gcal/h 130/110 °C	waste heat boiler
32.	Boiler plant, Moravian Glass Works, Kvetna	Czechoslovakia	1986	1 t/h 6 bar	waste heat boiler
33.	Waste heat recovery boiler plant, Furniture Works, Rousinov	Czechoslovakia	1986	2x6 t/h 12 bar	wood waste
34.	Waste heat recovery boiler plant, Timber Plant, Bystrice pod Hostinem	Czechoslovakia	1986	8 t/h 12 bar	sawmill waste
35.	Boiler plant, Petroleum Refinery, Tiszaújváros	Hungary	1987	4.5 t/h 12 bar	waste heat boiler
36.	Boiler plant, Metallurgical Works, Diósgyőr	Hungary	1987	25 t/h 36 bar 430 °C	waste heat boiler
37.	Waste heat recovery boiler plant, CEREOIL Veg.Oil Factory, Rákospalota, Budapest	Hungary	1987	10 t/h 16 bar/240 °C	sunflower seed shell

Heat Recovery Units

Ref. No.	Description	Country	Year	Remarks	
38.	Waste heat recovery boiler plant, CEREOIL Veg. oil Factory Kőbánya, Budapest	Hungary	1987	10 t/h 16 bar/240 °C	sunflower seed shell
39.	Boiler plant, Petroleum Refinery, Százhalombatta	Hungary	1988	5 t/h 16 bar/270 °C	waste heat boiler
40.	Boiler plant, Glass Factory, Lednicke Rovne	Czechoslovakia	1988	2x1.5 t/h 6 bar	waste heat boiler
41.	Boiler plant, Petroleum Refinery, Százhalombatta	Hungary	1988	16 t/h 16 bar/270 °C	waste heat boiler
42.	Waste heat recovery Boiler plant CEREOIL Veg.Oil Factory, Martfű	Hungary	1988	15 t/h 30 bar/380 °C	sunflower seed shell
43.	Boiler plant, Chemical Factory, Breclav	Czechoslovakia	1989	6 t/h 25 bar	waste heat boiler
44.	Boiler plant, Slovakian Glass Factory Nemsova	Czechoslovakia	1989	2x1.5 t/h 3 bar	waste heat boiler
45.	Boiler plant, Glass Factory Poltar	Czechoslovakia	1989	0.9 Gcal/h 130/90 °C	waste heat boiler
46.	Boiler plant, Glass Factory, Jaroslaw	Poland	1989	2x1.5 t/h 4 bar	waste heat boiler
47.	Waste heat recovery boiler plant FALCO Timber Processing Plant, Körmend	Hungary	1989	2x4 MW 110/90 °C	mixed wood
48.	Waste heat recovery boiler plant, Furniture Works Trebic	Czechoslovakia	1989	4 t/h 10 bar	cuttings & sawdust
49.	Waste heat recovery boiler plant, CEREOIL Veg. Oil Factory Nyírbátor	Hungary	1989	10 t/h 16 bar/240 °C	sunflower seed shell
50.	Boiler plant, Glass Works, Torgau	Germany	1990	13 t/h 16 bar/240 °C	waste heat boiler
51.	Boiler plant, Glass Factory, Jaroslaw	Poland	1990	2x1,5 t/h 4 bar	waste heat boiler

Heat Recovery Units

Ref. No.	Description	Country	Year	Remarks
52.	Heat recovery unit for autoclaves, HEBEL Zehdenick	Germany	1995	
53.	Heat recovery unit MOL, Szeged	Hungary	1999	waste heat recovery unit for gas turbine (Type Taurus 70 Solono)
54.	Steam recovery, BorsodChem Kazincbarcika	Hungary	2005	waste heat boiler
55.	Waste heat recovery boiler plant, Villeroy & Boch Magyarország Zrt.	Hungary	2007	460 kW 110/90°C waste heat boiler
56.	Waste heat recovery boiler plant, Villeroy & Boch Magyarország Zrt.	Hungary	2007	220 kW 110/100°C waste heat boiler

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2.4 Nuclear power plant related engineering and service projects

Ref. No.	Scope of work at Paks I. Nuclear Power Plant, Hungary	Year
1.	Mechanical earthquake proofing design using "EASY FIX" software	1994.
2.	Design of the „Paks Maintenance Center”	1994 – 95.
3.	Mechanical, electrical, instrumentation & control design work for Paks Maintenance Directorate	1994
4.	Mechanical, electrical and I&C design of emergency feedwater pumps	1995 – 96.
5.	Measurement of the thermal capacity at closed loop heat exchangers	1997.
6.	Detailed design and EPC contracting of increased earthquake proofing of piping and steel structures of primary circuit in Units 1 – 4.	1998.
7.	Mechanical design for strengthening of Nr. 1 water treatment circuit of Units 1 – 4	1998.
8.	Mechanical design and EPC contracting for increased earthquake proofing of live steam pipelines in the reactor hall and hermetic compartments of Units 1 – 4.	1998 – 99.
9.	Design and EPC contracting of overpressure control system of Units 1 – 4.	1999 – 02.
10.	Design of pressure relief system of Units 1 – 4.	1999 – 02.
11.	Modification of the steam generator header covers of Units 1-4. EPC contracting.	1999 – 02.
12.	Seismic qualification and structural strength calculation of small-bore piping of secondary circuits of Units 1-4.	2000 – 02.
13.	Status report on high pressure feedwater preheaters.	2001.
14.	Modification of foam extinguishing system of the turbine hall (Units 1-4). EPC contracting.	2001 – 02.
15.	Feasibility study on modification of high pressure feedwater preheaters.	2001
16.	Status report and qualification of the nozzles of safety valves "SC 50"	2002.
17.	Feasibility study on replacement of high pressure feedwater preheaters	2003.
18.	Design of implementation of TN01 iodine filters	2003.
19.	EPC contract for replacement of pipe lines under DN 200 mm of the safety cooling system of Unit No.2.	2005 - 06.
20.	Status report on outdoor 01, 02 TM55 pipeline running on pipe racks.	2005.
21.	Review of steam supply of turbine stuffing boxes	2005.
22.	Independent expert opinion on selection of oil pumps of the diesel generators of Unit 1 and 2.	2005.
23.	Licensing documentation for changing the thermostats of emergency diesels.	2005.
24.	Independent expert opinion of division of steam space of pressure suppression towers by installing burst plate before the flap, dividing the bubbling tray compartment from the steam space (Units 1 – 4)	2005.
25.	Licensing documentation on installation of strainer in the trickle-water pit.	2005.
26.	Design of 01UJ17(18)B001 tank level control	2006
27.	Independent expert report on increase of daily tank capacity of diesel generators (Units 3 and 4)	2006
28.	Independent expert opinion on shaft and impeller change of main circulating pumps of the primary circuit (Units 1, 3 and 4)	2006
29.	Independent expert opinion on reducing the impact of guillotine break of pipelines of primary circuit	2006
30.	Independent expert opinion on the effect of blow down of auxiliary steam lines into the hermetic compartments	2006
31.	Installation of new valves to increase redundancy of the fire water system (EPC contract)	2006
32.	Design of a new condensate pipeline of 02WO30-34B001 tanks (Units 3 and 4)	2006
33.	Design of installation of iron / manganese filters	2006
34.	Design of maintenance tool of actuators of SZBV type valves.	2006 - 07
35.	Design of new 01WWB001 type caustic soda tank	2006 - 07
36.	Study on possible bypassing of high pressure feedwater heaters (Units 1-4)	2006 - 07
37.	Installation of new type (10-40TN01,TN02,TL02) of iodine filters	2006 - 08
38.	EPC contract for replacement of pipe lines under DN 200 mm of the safety cooling system of Unit No.1.	2006 - 08
39.	Design review of the change of the 01(02)TW44D001 type pumps	2008
40.	EPC contract for replacement of pipe lines under DN 200 mm of the safety cooling system of Unit No.3, 4.	2008 - 10
41.	Detailed design of new low pressure compressed air pipeline in the hermetic compartments	2009 - 10

Nuclear power plant related engineering and service projects

Ref. No.	Scope of work at Paks I. Nuclear Power Plant, Hungary	Year
42.	Detailed design of new low pressure compressed air pipeline in the hermetic compartments	2009 - 10
43.	Review of motive air pipeline of YP safety valves	2009
44.	Design of new steam pipe line to the stuffing boxes of turbines (Units 1 – 4).	2009
45.	Design of replacement of the 01(02)TW44 type pumps	2010
46.	Design of motive air pipeline of YP safety valves	2010
47.	Design mockup stand of actuators of SZBV type valves	2010
48.	Design of installation of new hydrogen recombiners (Units 1-4)	2010 - 11
49.	Design of strengthening of TG pipeline of the spent fuel pond (Units 1-4)	2010 - 13
50.	Design of core catcher modification (Units 1-4)	2010 - 14
51.	Feasibility study on cooling options of Paks Extension (for Units 5-6).	2010 - 11
52.	Data sharing / update for AVEVA PDMS model	2011
53.	Design of modification of steel structure of SZBV type valve actuator mockup stand	2012
54.	Design of submerge able actuators of valves in hermetic compartments	2012 - 13
55.	Design of replacement of gas blowers in auxiliary buildings I. & II.	2013 - 15
56.	Seismic qualification and structural strength calculation of steam generator tanks' RZ blowdown piping of Unit 3.	2014
57.	Hydraulic revision of the safety cooling system at the box (Units 1-4)	2014
58.	Seismic qualification and structural strength calculation of a new emergency cooling system's piping	2014 - 15
59.	Design and seismic qualification and structural strength calculation of steam generator tanks' RZ blowdown piping of Units 1- 4	2015
60.	Design of replacement of the 01(02)TC12 type pumps and modification of the waste condense water pipeline system	2015
61.	Design of replacement of cleaning valves into the condensate pipelines of the high pressure feed water heaters (Units 1-4)	2015 - 16
62.	Design of replacement of a new regulation valve into the block regulation system (Units 1-4)	2016
63.	Feasibility study on radiation protection of pipe lines in room A101 (Units 1-4)	2016
64.	EPC contract for increased earthquake proofing of boron pipelines in auxiliary buildings I-II (Units 1-4)	2016 - 17
65.	Design of radiation protection of pipe lines in room A101 (Units 1-4)	2017
66.	EPC contract for replacement of Drain pool's pumps (Units 1-4)	2018 - 23
67.	EPC contract for replacement of Sprinkler system's pumps (Units 2 & 4)	2019 - 23
68.	EPC contract for replacement of FKSz system's pumps (Unit 4)	2019 - 24
69.	Design of Unit's inside cooling regulation system (Unit 3)	2020
70.	EPC contract for replacement of the complete H2O2 system's	2021 - 22

2.5 Water Treatment Projects

Ref. No.	Description	Country	Year	Remarks
1.	Condensate water polishing system Datong Power Plant	China	1988	2x550 m ³ /h
2.	Reactor reconstruction for the Water Treatment Plant in the BORSOD PP.	Hungary	1993	Reconstruction 250 m ³ /h Turn-key
3.	Water Treatment RO Plant, Oroszlány P.S.	Hungary	1994	Reconstruction 2 x 25 m ³ /h Ultra filter Reverse osmosis Turn-key
4.	Water Treatment RO Plant, Debrecen P. P.	Hungary	1995	New 180 m ³ /h (softener) 4 x 60 m ³ /h demineraliser 2 x 170 m ³ /h mixed-bed Turn-key
5.	Water Treatment Plant, LITÉR Gas turbine P.P MVM (Hungarian Electricity Board)	Hungary	1998	New 2 x 70 m ³ /h RO + Mixed-bed Turn-key
6.	Water Treatment Plant, SAJÓSZÖGED Gas turbine P.P MVM (Hungarian Electricity Board)	Hungary	1998	New 2 x 70 m ³ /h RO + Mixed-bed Turn-key
7.	Extension of Water Treatment Plant Plant at Richter Gedeon Co. Ltd (Pharmaceutics Factory), Budapest	Hungary	1998	Extension 60 m ³ /h RO Desalination with biological cleaning
8.	Renovation of the pre-treatment of the settled Alkaline Water Treatment Plant at Balti P.P	Narva Estonia	1999	New 3 x 75 m ³ /h sand filter 2 x 150 m ³ /h active carbon filter 2 x 50-55 m ³ /h RO Turn-key
9.	Water Treatment Plant, LÓRINCI Gas turbine P.P MVM (Hungarian Electricity Board)	Hungary	2000	New 2 x 80 m ³ /h Ultra filter 2 x 36 m ³ /h reverse osmosis 4 x 36 mixed bed Turn-key
10.	Water treatment plant at Narva P.P	Narva Estonia	2001	New 2 x 150 m ³ /h softener 2 x 80 m ³ /h demineralizer 2 x 120 m ³ /h mixed bed Turn-key

Water Treatment Projects

Ref. No.	Description	Country	Year	Remarks
11.	Extension of the Water Treatment Plant, of the settled alkaline water, Balti P.P	Narva Estonia	2002	New 140 m ³ /h Clarifier, Gravel filter, Active carbon filter Reverse osmosis Turn-key
12.	TVK Water Treatment Plant Tisza WTP Ltd.	Hungary	2004	New 450 / 560 m ³ /h ultra filter, reverse osmosis, mixed bed Turn-key
13.	GYŐR District heating station	Hungary	2007	10 m ³ /h Fe, Mn filter RO Na ion exchanger
14.	Szakoly P.P	Hungary	2008	1 x 17.6 m ³ /h Methane deareator 2 x 8.8 m ³ /h gravel filter 2 x 8.8 m ³ /h Fe, Mn separator 2 x 5 m ³ /h RO (single pass) Cooling make-up water 2 x 5.5 m ³ /h RO (double pass) 2 x 5.5 m ³ /h membrane CO ₂ deareator 2x50 m ³ /h condensate polishing plant 2x5.0 m ³ /h EDI boiler make-up water 5 m ³ /d drinking water treatment

2.6 Fuel Handling and Storage Plants

Ref. No.	Description	Country	Year	Remarks
1.	Oil storage tanks, co-generation plant, Tatabánya	Hungary	1991	2x10.000 m ³
2.	Oil storage tank and auxiliaries, Oroszlány Power Station	Hungary	1992	1x10.000 m ³
3.	Tank farm, Dunamenti Power Station	Hungary	1994	3x30.000 m ³ oil storage tanks
4.	Fuel oil and gas supply system for Kelenföldi combined cycle plant (CS)	Hungary	1995	2x2.500 m ³ l. oil n. gas
5.	Tank farm, Tiszai power station	Hungary	1995	4x20.000 m ³ tanks with pump stations
6.	Fuel oil tanks at various power plants	Lithuania	1996	11 pcs oil tanks for 105 000 m ³ over all capacity
7.	Light oil storage plant Sajószöged	Hungary	1998	2x1000 m ³
8.	Light oil storage plant Litér	Hungary	1998	2x1000 m ³
9.	Light oil storage plant Lőrinci	Hungary	2000	2x2000 m ³
10.	Railway heavy oil reloading station Komoró (Hungarian State Railway)	Hungary	2001	daily 10 wagon capacity 55 m ³ /h
11.	Gas oil handling plants for MÁV Zrt. (Hungarian Railway)	Hungary	2002-2008	44 pcs. plants on different places
12.	Quench oil unloading station for TVK Nyrt. (Chemical plant)	Hungary	2008	Daily 5 wagon unloading capacity

2.7 Power Plant Waste Processing and Disposal Systems (Dense Slurry Systems)

Ref. No.	Description	Country	Year	Remarks
1.	Pécs Power Plant 200 MWe Dense slurry plant	Hungary	1991	3 x 100 tons/h dry solids mixing units (slag/flash) Intermittent (Emulgat) mixing technology 2 km slurry transport distance Fly ash storage system extension
2.	Tatabánya Power Station 30 MWe Dense slurry plant	Hungary	1993	2 x 20 tons/h of dry solids mixing units (flash) CIRCMIX continuous mixing technology 0.5 km slurry transport distance
3.	Borsod Power Plant 200 MWe Dense slurry plant	Hungary	1996	2 x 102 tons/h dry solids mixing units (slag/flash) CIRCMIX continuous mixing technology 2 x 100 m ³ /h piston type slurry pump 3 sets of dense slurry transport lines 3 km slurry transport distance
4.	Mátra Power Plant 836 MWe Dense slurry plant	Hungary	1998	4 x 160 tons/h of dry solids mixing units (slag/flash/ FGD gypsum) CIRCMIX continuous mixing technology 2 x 750 m ³ /h slag slurry thickener 3 x 240 m ³ /h transport lines 3 sets of centrifugal type slurry pumps in series per transport line 3.6 km slurry transport distance
5.	Jacksonville Northside 600 MWe Generating Station, CFB Unit 1 & 2 / Dense slurry mixers	USA, Florida	2001	2 x 62.5 tons/h of fly ash + 2 x 62.5 t/h of fly ash slurry + bed ash mixing units (high CaSO ₄ fly ash / high CaO bed ash) CIRCUMIX continuous mixing technology/ high concentration slurry 2 sets of piston diaphragm type slurry distance transport pumps (supplied by GEHO under separate contract for the Client)
6.	Timisoara Sud Power Plant 270 MWe Dense slurry plant extension	Romania	2001/2007	18 t/h of solids mixing units (low CaO ash) CIRCUMIX continuous mixing technology Slag transfer system (by Client) 30 m ³ /h transport lines (by Client) 2 sets of membrane diaphragm type piston pumps for distance slurry transport (supplied by GEHO / ABEL under separate contracts for the Client) 7 km slurry transport distance 10 m geodetic level difference
7.	Craiova-II Power Plant Dense Slurry Plant 300 MWe energetic units (+8 district heating boilers)	Romania	2010	3 x 60.2 t/h of dry solids (9.2 t/h bottom ash + 51 t/h fly ash) mixing units CIRCUMIX continuous mixing technology 3 x 120 m ³ /h transport slurry lines (by Client) 3 sets of FELUVA membrane diaphragm slurry pumps for distance transport (by Client) 9400 m transport distance 90 m geodetic level difference

Power Plant Waste Processing and Disposal Systems (Dense Slurry Systems)

Ref. No.	Description	Country	Year	Remarks
8.	Isalnita Power Plant Dense Slurry Plant	Romania	2010	<p>4x57 t/h of dry solids (7t/h bottom ash +50 t/h fly ash)</p> <p>630 MWe (2x510 t/h) boilers gas unit mixing units (low CaO ash + FGD gypsum)</p> <p>CIRCUMIX continuous mixing technology</p> <p>2 x 120 m³/h transport slurry lines (by Client) – 2 ash fields; 4 sets of Warman centrifugal pump groups (3 pumps/group) for distance transport (by Client)</p> <p>4600 m transport distance</p> <p>45 m geodetic level difference</p>
9.	Rovinari Power Plant / Dense Slurry Plant 1320 MWe	Romania	2012	<p>4 x 190 t/h at dry solids (30 t/h bottom ash + 127 t/h fly ash + 33 t/h dry gypsum) mixing units (low CaO ash + FGD gypsum)</p> <p>CIRCUMIX continuous mixing technology</p> <p>4 x 270 m³/h transport slurry lines (by Client)</p> <p>4 sets of Warman centrifugal pump groups (3 pumps) for distance transport (by Client)</p> <p>5600 m transport distance</p> <p>32 m geodetic level difference</p>
10.	Turceni Power Plant / Dense Slurry Plant 2310 MWe	Romania	2013	<p>140 t/h at dry solids (30 t/h bottom ash + 110 t/h fly ash + 80 t/h dry gypsum) mixing units</p> <p>CIRCUMIX continuous mixing technology</p> <p>6 sets of Warman centrifugal pump groups (24 pumps) for distance transport</p> <p>5000 m transport distance</p> <p>24 m geodetic level difference</p>

2.8 Heat Transfer Oil Boiler Plants

Ref. No.	Description	Country	Year	Remarks	
1.	Heat-transfer oil boiler plant, Geisweld	Germany	1971	2x4 Gcal/h 32 bar	n. gas
2.	Heat-transfer oil boiler plant, Forestry Szombathely	Hungary	1975	2x0,6 Gcal/h, 285 °C	oil
3.	Heat-transfer oil boiler plant, Oil Refinery, Tiszaújváros	Hungary	1976	2x4 Gcal/h,	oil or n. gas
4.	Heat-transfer oil boiler plant, KEMIKAL Building Materials Factory, Barcs	Hungary	1978	2x0,7 MW	gas
5.	Heat-transfer oil boiler plant, Chemical Industries, Kedzierzyn	Poland	1980	2x1,6 Gcal/h 300 °C	n. gas
6.	Heat-transfer oil boiler plant, KEMIKAL Insulation Products, Újkígyós	Hungary	1983	1.6 Gcal/h 0.6 Gcal/h 285 °C	oil
7.	Heat-transfer oil boiler plant, Chemical Products, Zalaegerszeg	Hungary	1983	0.6 Gcal/h 300 °C	n. gas
8.	Heat transfer oil boiler plant, Petroleum Refinery, Nyírbogdány	Hungary	1984	0.6 Gcal/h 300 °C	oil
9.	Heat-transfer oil boiler plant, NITROIL Chemical Works, Várpalota	Hungary	1985	0.6 Gcal/h 300 °C	oil
10.	Heat-transfer oil boiler plant, Petroleum Refinery, Tiszaújváros	Hungary	1986	4 Gcal/h	n.gas or oil
11.	Heat-transfer oil boiler plant, Oil industries, Almásfűzitő	Hungary	1987	1.6 Gcal/h 285 °C	oil
12.	Heat-transfer oil boiler plant, MIRELITE Refrigerating Industries, Miskolc	Hungary	1988	1.6 Gcal/h 300 °C	n. gas
13.	Heat-transfer oil boiler plant, PEVDI Chemical & Plastic Factory Gyömrő	Hungary	1988	1 Gcal/h 320 °C	oil

2.9 Gas Engine Heating Plants

Ref. No.	Description	Country	Year	Remarks
1.	Elektric Work (Sub-contractor)	Greece Paros Island	1978	3 x 2600 kWe
2.	Elektric Work (Sub-contractor)	Greece Kalymnos Island	1978	4 x 2600 kWe 2 x 5200 kWe
3.	Gas Engine Heating Plant Szentcs	Hungary	2003	1170 kWe
4.	Gas Engine Heating Plant Region of Miskolc, Tatár Str.	Hungary	2003	5 x 3900 kWe
5.	Gas Engine Heating Plant Region of Miskolc, Diósgyőr	Hungary	2003	1 x 3900 kWe
6.	Gas Engine Heating Plant Region of Miskolc, Bulgárföld	Hungary	2004	1 x 1011 kWe
7.	Gas Engine CHP Plant Tatabánya Power Plant	Hungary	2004	3 x 6000 kWe
8.	Gas Engine CHP Plant Újpalota – Budapest	Hungary	2005	3 x 7700 kWe

2.10 Biomass Projects

Ref. No.	Description	Country	Year	Remarks
1.	Biofuel production, Visonta	Hungary	2007	40.000 t/year rape-seed oil production plant
2.	Biomass-fired power plant Szakoly	Hungary	2009	biomass-fired combined cycle power plant plant capacity: 20 MWe
3.	Zöldforrás Biogas Power Plant, Szeged	Hungary	2012	biogas-fired cogeneration power plant biogas production: 3.88 Mm ³ /year



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