

PARAT HALVORSEN AS - INDUSTRY PROJECTS

# High Voltage Electrode Boilers

Industry	Country	Capacity	Type	Pressure	Voltage	Temp.	Year
Agriculture	NO	5 MW	Steam	10 barg	11 kV	184 °C	1993
Industry	NO	4 MW	Steam	10 barg	11 kV	180 °C	1994
Manufacturing Industry	NO	48 MW	Steam	12 barg	11 kV	191 °C	1996
Hospital	NO	8 MW	Steam	10 barg	11 kV	180 °C	1996
Hospital	NO	8 MW	Hotwater	10 barg	11 kV	180 °C	1996
Hospital	NO	12 MW	Steam	13 barg	11 kV	195 °C	1996
Food Industry	NO	5 MW	Steam	13 barg	11 kV	195 °C	1999
Hospital	NO	8 MW	Hotwater	6 barg	11 kV	165 °C	2006
Hospital	NO	8 MW	Hotwater	6 barg	11 kV	165 °C	2006
Offshore	NO	8 MW	Hotwater	13 barg	11 kV	195 °C	2006
Energy	NO	20 MW	Hotwater	6 barg	11 kV	165 °C	2008
District Heating	DK	10 MW	Hotwater	6 barg	10 kV	160 °C	2010
District Heating	DK	10 MW	Hotwater	6 barg	15 kV	160 °C	2011
District Heating	DK	10 MW	Hotwater	6 barg	10 kV	160 °C	2011
District Heating	DK	10 MW	Hotwater	6 barg	10 kV	160 °C	2011
District Heating	DK	10 MW	Hotwater	6 barg	10 kV	160 °C	2011
Energy	NO	5 MW	Hotwater	6 barg	10 kV	110 °C	2012
District Heating	DK	10 MW	Hotwater	6 barg	10 kV	160 °C	2012
District Heating	DK	20 MW	Hotwater	6 barg	10 kV	160 °C	2012
Food Industry	NO	8 MW	Hotwater	6 barg	10 kV	160 °C	2013
Beverage Industry	NO	5 MW	Hotwater	6 barg	10 kV	165 °C	2013
Metal Industry	KZ	22,5 MW	Hotwater	10 barg	10 kV	110 °C	2013
Metal industry	KZ	6,5 MW	Hotwater	10 barg	10 kV	110 °C	2013
Manufacturing Industry	NO	4 MW	Hotwater	6 barg	10 kV	110 °C	2013
Chemical Industry	DE	2 x 20 MW	Steam	22 barg	10 kV	208 °C	2013
Energy	DE	2 x 25 MW	Hotwater	13 barg	10 kV	180 °C	2013
Energy	DE	2 x 10 MW	Steam	6 barg	10 kV	184 °C	2013
Energy	DK	2 x 40 MW	Hotwater	10 barg	10 kV	150 °C	2014
District Heating	NO	10 MW	Hotwater	6 barg	10 kV	125 °C	2014
Energy	DK	10 MW	Hotwater	6,5 barg	15 kV	110 °C	2014
District Heating	NO	25 MW	Hotwater	6 barg	10 kV	165 °C	2015
Energy	DE	2 x 10 MW	Hotwater	6 barg	10 kV	160 °C	2015
Chemical Industry	DE	7 MW	Steam (S)	35 barg	10 kV	350 °C	2015

(S) = Boiler supplied with Electrical Superheater

[www.parat.no](http://www.parat.no)



# High Voltage Electrode Boilers

Industry	Country	Capacity	Type	Pressure	Voltage	Temp.	Year
Paper Industry	DE	30 MW	Steam	16 barg	20 kV	198 °C	2015
Pharmaceuticals	NO	4 MW	Steam	13 barg	21,5 kV	195 °C	2015
Manufacturing Industry	DE	15 MW	Steam	13 barg	6 kV	195 °C	2015
Energy	DE	20 MW	Steam	23 barg	20 kV	222 °C	2015
Energy	DE	22 MW	Hotwater	10 barg	6 kV	140 °C	2015
Car Manufacturing	CZ	15 MW	Hotwater	10 barg	6 kV	160 °C	2016
Power Plant	CH	2 x 11 MW	Steam (S)	19 barg	10,5 kV	221 °C	2016
Power Plant	SK	2,4 MW	Hotwater	6 barg	6 kV	110 °C	2016
Energy	SK	10 MW	Hotwater	10 barg	11 kV	150 °C	2016
District Heating	DK	25 MW	Hotwater	6,5 barg	10,5 kV	110 °C	2016
Food Industry	NO	4 MW	Hotwater	3 barg	22 kV	110 °C	2017
Metal Industry	NO	20 MW	Steam	12 barg	12 kV	191 °C	2017
Waste Recycling & Energy	CH	15 MW	Hotwater	18 barg	16 kV	210 °C	2017
Agriculture	NO	5 MW	Steam	12 barg	11 kV	192 °C	2017
Energy	IT	10 MW	Hotwater	6 barg	6 kV	165 °C	2017
District Heating	DK	15 MW	Hotwater	6 barg	10 kV	110 °C	2017
Energy	CZ	20 MW	Hotwater	10,5 barg	10,5 kV	120 °C	2018
District Heating	DK	10 MW	Hotwater	6 barg	10 kV	110 °C	2018
District Heating	DK	12 MW	Hotwater	6 barg	10 kV	120 °C	2018
Offshore	NO	2 x 12 MW	Hotwater	15 barg	11 kV	170 °C	2018
Energy	SK	30 MW	Steam	11 barg	16 kV	191 °C	2018
Energy	CH	20 MW	Hotwater	8 barg	20,5 kV	140 °C	2018
District Heating	CH	15 MW	Hotwater	12 barg	20 kV	160 °C	2018

PARAT HALVORSEN AS - INDUSTRY PROJECTS

# High Voltage Electrode Boilers

Industry	Country	Capacity	Type	Pressure	Voltage	Temp.	Year
Energy	DE	20 MW	Steam	12 barg	20 kV	170 °C	2019
Metal Industry	DE	10 MW	Steam	16 barg	6 kV	204 °C	2019
District Heating	DK	10 MW	Hotwater	6.5 barg	10 kV	120 °C	2019
Energy	BY	2 x 50 MW	Hotwater	10 barg	10.5 kV	160 °C	2019
Energy	CZ	20 MW	Hotwater	10 barg	6.3 kV	184 °C	2019
Chemestry	DE	10 MW	Steam	32 barg	6 kV	239 °C	2019
Food Industry	NO	10 MW	Steam	16 barg	22 kV	204 °C	2019
Energy	NL	12 MW	Hotwater	8 barg	23 kV	105 °C	2019
District Heating	DK	10 MW	Hotwater	6.5 barg	10 kV	120 °C	2019
Energy	IT	10 MW	Steam (S)	10 barg	6 kV	350 °C	2019
District Heating	BY	30 MW	Hotwater	8 barg	10 kV	176 °C	2019
District Heating	BY	10 MW	Hotwater	10 barg	6.3 kV	184 °C	2019
Food Industry	NO	8 MW	Steam	23 barg	22 kV	220 °C	2019
Energy	NO	25 MW	Hotwater	16 barg	11 kV	190 °C	2020
Energy	SK	30 MW	Steam	11 barg	16 kV	191 °C	2020
District Heating	DK	15 MW	Hotwater	6,5 barg	10 kV	165 °C	2020
Process Indsutry	SI	6 MW	Hotwater	10 barg	5 kV	110 °C	2020
Oil & Gass	NO	2 x 17 MW	Hotwater	20 barg	11 kV	220 °C	2020
Energy	DE	31 MW	Steam (S)	19 barg	10 kV	300 °C	2020
Energy	DE	31 MW	Steam	19 barg	10 kV	212 °C	2020
Energy	DE	31 MW	Steam	23 barg	10 kV	220 °C	2020
District Heating	DK	8 MW	Hotwater	6 barg	10 kV	110 °C	2020
Process Industry	NO	6 MW	Steam	13 barg	22 kV	195 °C	2020
District Heating	DK	7 MW	Hotwater	6 barg	15 kV	110 °C	2021
Metal Industry	BR	60 MW	Steam	18 barg	13.8 kV	210 °C	2021
District Heating	DK	15 MW	Hotwater	10 barg	15 kV	168 °C	2021
Paper Industry	NO	30 MW	Steam	13 barg	11 kV	195 °C	2021
Paper Industry	FI	50 MW	Steam	18 barg	10.5 kV	210 °C	2021
District Heating	DK	6 MW	Hotwater	6.5 barg	10 kV	165 °C	2021
Energy	NL	5 MW	Hotwater	10 barg	10 kV	184 °C	2021
District Heating	DK	5 MW	Hotwater	10 barg	10 kV	184 °C	2021
District Heating	DK	5 MW	Hotwater	10 barg	10 kV	184 °C	2021

(S) = Boiler supplied with Electrical Superheater

[www.parat.no](http://www.parat.no)



# High Voltage Electrode Boilers

Industry	Country	Capacity	Type	Pressure	Voltage	Temp.	Year
Energy	CZ	15 MW	Hotwater	10 barg	22 kV	184 °C	2021
Energy	DE	31 MW	Steam (S)	19 barg	10 kV	300 °C	2021
District Heating	DK	8 MW	Hotwater	10 barg	10 kV	184 °C	2021
Food Industry	NO	8 MW	Steam	10 barg	22 kV	184 °C	2021
District Heating	DK	10 MW	Hotwater	10 barg	10 kV	184 °C	2021
Oil & Gass	NO	8 MW	Steam	11 barg	22 kV	191 °C	2021
Power Plant	FI	40 MW	Hotwater	10 barg	10 kV	184 °C	2021
District Heating	FI	40 MW	Hotwater	10 barg	13.8 kV	184 °C	2021
Raw material enrichment	NL	20 MW	Steam	18 barg	10 kV	210 °C	2021
District Heating	DK	10 MW	Hotwater	6 barg	10 kV	120 °C	2021
Energy	CZ	10 MW	Hotwater	10 barg	6.3 kV	115 °C	2021
Metal Industry	IR	25 MW	Steam (S)	62 barg	22 kV	277 °C	2021
Energy	NL	3 x 50 MW	Hotwater	13 barg	21 kV	184 °C	2021
Energy	CZ	10 MW	Steam (S)	13 barg	10 kV	220 °C	2021
Healthcare	NO	10 MW	Steam	12 barg	22 kV	195 °C	2021
Process Industry	NO	8 MW	Steam	13 barg	22 kV	195 °C	2022
District Heating	DK	10 MW	Hotwater	6.5 barg	10 kV	168 °C	2022
District Heating	DK	8 MW	Hotwater	6.5 barg	10 kV	168 °C	2022
Power Plant	FI	2 x 50 MW	Hotwater	10 barg	10.5 kV	184 °C	2022
Bevarage Industry	DK	15 MW	Hotwater	18 barg	10 kV	210 °C	2022
District Heating	DK	15 MW	Hotwater	6 barg	10 kV	110 °C	2022
Energy	AT	20 MW	Hotwater	8 barg	10 kV	175 °C	2022
Energy	NL	10 MW	Steam (S)	33 barg	10 kV	239 °C	2022
District Heating	DK	5 MW	Hotwater	6.5 barg	10 kV	110 °C	2022
Food Industry	FI	30 MW	Hotwater	6 barg	20 kV	168 °C	2022
District Heating	DK	15 MW	Hotwater	6 barg	10 kV	110 °C	2022
District Heating	DK	5 MW	Hotwater	6.5 barg	10 kV	110 °C	2022
District Heating	DK	5 MW	Hotwater	6.5 barg	15 kV	165 °C	2022
Industry	EE	40 MW	Hotwater	16 barg	10.5 kV	204 °C	2022
District Heating	DK	30 MW	Hotwater	10 barg	10 kV	184 °C	2022
Energy	FI	45 MW	Hotwater	10 barg	11 kV	184 °C	2022
Energy	DE	20 MW	Hotwater	10 barg	10,5 kV	185 °C	2022

# High Voltage Electrode Boilers



Industry	Country	Capacity	Type	Pressure	Voltage	Temp.	Year
District Heating	DE	2 x 63 MW	Steam (S)	15 barg	22 kV	310 °C	2022
District Heating	DK	15 MW	Hotwater	6 barg	15 kV	110 °C	2022
Energy	IT	10 MW	Steam (S)	13 barg	6 kV	335 °C	2022
Energy	IT	5 MW	Steam (S)	13 barg	6 kV	250 °C	2022
Paper Industry	DE	50 MW	Steam	28 barg	20 kV	232 °C	2022
Paper Industry	FI	60 MW	Steam	28 barg	10 kV	232 °C	2022
Paper Industry	DE	50 MW	Steam	20 barg	20 kV	215 °C	2022
Paper Industry	DE	50 MW	Steam	18 barg	10 kV	210 °C	2022
Paper Industry	FI	50 MW	Steam	18 barg	10 kV	210 °C	2022
Paper Industry	FI	50 MW	Steam	18 barg	10 kV	210 °C	2022
Paper Industry	FI	50 MW	Steam	28 barg	10 kV	232 °C	2022
Paper Industry	FI	50 MW	Steam	18 barg	19 kV	210 °C	2022
Energy	FI	2 x 60 MW	Hotwater	10 barg	14.5 kV	184 °C	2022
Energy	NL	10 MW	Steam (S)	33 barg	10 kV	239 °C	2022
Oil & Gas	NO	6 MW	Hotwater	12 barg	11 kV	192 °C	2022
Energy	FI	2 x 50 MW	Hotwater	10 barg	10.5 kV	184 °C	2022
Manufacturing industry	FI	13 MW	Steam	19 barg	6.6 kV	212 °C	2022
Manufacturing industry	NL	20 MW	Steam (S)	29 barg	10 kV	275 °C	2022
District Heating	DK	12 MW	Hotwater	6.5 barg	10 kV	168 °C	2022
Food Industry	NL	20 MW	Hotwater	6 barg	20 kV	130 °C	2022
Food Industry	DK	10 MW	Hotwater	6.5 barg	10 kV	120 °C	2022
District Heating	DK	8 MW	Hotwater	6.5 barg	10 kV	110 °C	2022
District Heating	DK	8 MW	Hotwater	6.5 barg	10 kV	110 °C	2022
Process Industry	NO	6 MW	Steam	13 barg	22 kV	195 °C	2022
Process Industry	NO	8 MW	Steam	13 barg	22 kV	195 °C	2022
Car manufacturing	HU	2 x 15 MW	Hotwater	10 barg	22 kV	168 °C	2022
Metal Industry	HU	2 x 6 MW	Hotwater	10 barg	22 kV	184 °C	2022
Food Industry	NL	10 MW	Steam	16 barg	10 kV	203 °C	2022
Power Plant	HU	30 MW	Hotwater	11 barg	22 kV	187 °C	2022
District Heating	DK	50 MW	Hotwater	6 barg	10 kV	168 °C	2022
Fabrics & Yarn	NL	30 MW	Steam	18 barg	20 kV	210 °C	2022
Energy	NL	2 x 10 MW	Hotwater	12 barg	10 kV	192 °C	2022

# High Voltage Electrode Boilers



Industry	Country	Capacity	Type	Pressure	Voltage	Temp.	Year
District Heating	DK	10 MW	Hotwater	6 barg	15 kV	110 °C	2022
District Heating	DK	10 MW	Hotwater	6.5 barg	10 kV	168 °C	2022
District Heating	DK	10 MW	Hotwater	6.5 barg	20 kV	168 °C	2022
Energy	FI	40 MW	Steam	16 barg	20 kV	204 °C	2022
Pharmaceutical	NO	8 MW	Steam	22 barg	22 kV	248 °C	2022
District Heating	DK	10 MW	Hotwater	6 barg	10 kV	110 °C	2022
District Heating	DK	10 MW	Hotwater	6 barg	10 kV	110 °C	2022
District Heating	DK	10 MW	Hotwater	6.5 barg	10 kV	168 °C	2022
District Heating	CH	20 MW	Hotwater	10 barg	16 kV	184 °C	2022
District Heating	DK	10 MW	Hotwater	6 barg	10 kV	110 °C	2023
District Heating	DK	10 MW	Hotwater	6 barg	10 kV	110 °C	2023
District Heating	DK	10 MW	Hotwater	6 barg	10 kV	110 °C	2023
Plant Industry	NL	10 MW	Hotwater	6 barg	10 kV	110 °C	2023
Wood & Timber Industry	NO	8 MW	Steam	21 barg	6,6 kV	215 °C	2023
Food Industry	NL	30 MW	Hotwater	10 barg	10 kV	184 °C	2023
Energy	ES	20 MW	Steam	16 barg	6 kV	204 °C	2023
District Heating	FI	30 MW	Hotwater	10 barg	10,5 kV	184 °C	2023
District Heating	DK	13 MW	Hotwater	10 barg	10 kV	184 °C	2023
Minerals and Agriculture Industry	DE	30 MW	Steam	12 barg	20 kV	192 °C	2023
Minerals and Agriculture Industry	DE	20 MW	Steam	16 barg	20 kV	204 °C	2023
Energy	DE	14 MW	Hotwater	20 barg	10 kV	210 °C	2023
Oil & Gas	NO	6 x 28 MW	Hotwater	70 barg	11 kV	286 °C	2023
District Heating	DK	15 MW	Hotwater	6,5 barg	10 kV	184 °C	2023
Chemistry	DE	30 MW	Steam	62 barg	10 kV	271 °C	2023
Oil & Gass	NO	2 x 25 MW	Steam	60 barg	11 kV	276 °C	2023
Power Plant	DE	30 MW	Steam	22 barg	11 kV	184 °C	2023
Manufacturing Industry	NL	10 MW	Steam	10 barg	10 kV	191 °C	2023
Metal Industry	BR	60 MW	Steam	18 barg	13,8 kV	210 °C	2023
Energy	NO	10 MW	Steam	11 barg	20 kV	192 °C	2023
Fabrics & Yarn	NL	30 MW	Hotwater	6 barg	10 kV	125 °C	2023
Energy	CZ	15 MW	Hotwater	10 barg	22 kV	184 °C	2023
Metal Industry	FR	7 MW	Steam	12,5 barg	8 kV	194 °C	2023
Energy	BE	2 x 5 MW	Steam	11 barg	15 kV	184 °C	2023

PARAT HALVORSEN AS - INDUSTRY PROJECTS

# High Voltage Electrode Boilers



Industry	Country	Capacity	Type	Pressure	Voltage	Temp.	Year
Estate Management	NL	10 MW	Hotwater	10 barg	20 kV	184 °C	2023
District Heating	DK	30 MW	Hotwater	6,5 barg	11 kV	168 °C	2023
Power Plant	FI	2 x 50 MW	Hotwater	10 barg	10,5 kV	130 °C	2023
Power Plant	FI	30 MW	Hotwater	10 barg	10,5 kV	130 °C	2023
Food Industry	DK	16 MW	Steam	24 barg	10 kV	215 °C	2023
Infrastructure Solutions	NL	10 MW	Steam	16 barg	10 kV	204 °C	2023
Food Industry	NL	15 MW	Hotwater	7 barg	15,6 kV	120 °C	2023
District Heating	FI	20 MW	Hotwater	10 barg	20 kV	150 °C	2023
Energy	UK	12 MW	Hotwater	10 barg	11 kV	179 °C	2023
Power Plant	FI	10 MW	Hotwater	10 barg	20 kV	140 °C	2023
District Heating	FI	2 x 50 MW	Hotwater	10 barg	20 kV	184 °C	2023
District Heating	DK	15 MW	Hotwater	6,5 barg	15 kV	168 °C	2023
Energy	FI	60 MW	Hotwater	10 barg	10,5 kV	140 °C	2023
Food Industry	DE	10 MW	Hotwater	29 barg	10 kV	225 °C	2023
Energy	DK	10 MW	Hotwater	6 barg	10 kV	168 °C	2023
Estate Management	NL	20 MW	Hotwater	10 barg	21 kV	115 °C	2023
Biomaterials & packaging	FI	2 x 4 MW	Steam	20 barg	20 kV	225 °C	2023
Chemical	NL	8 MW	Hotwater	10 barg	6 kV	135 °C	2023
District Heating	DE	20 MW	Hotwater	10 barg	10,5 kV	160 °C	2023
Power Plant	FI	60 MW	Hotwater	10 barg	10,5 kV	145 °C	2023
Pharmaceutical	NL	10 MW	Steam	23 barg	15 kV	222 °C	2023
Manufacturing Industry	FR	2 x 5,5 MW	Steam	30 barg	6 kV	243 °C	2023
Car Manufacturing	NL	6 MW	Hotwater	10 barg	20 kV	184 °C	2024
Car Manufacturing	NL	20 MW	Hotwater	10 barg	20 kV	184 °C	2024
District Heating	DK	40 MW	Hotwater	8 barg	20 kV	174 °C	2024
District Heating	DK	10 MW	Hotwater	6,5 barg	15 kV	110 °C	2024
Energy	CZ	20 MW	Hotwater	10 barg	6,3 kV	184 °C	2024
Energy	DE	14 MW	Hotwater	18 barg	10 kV	219 °C	2024
District Heating	FI	2 x 50 MW	Hotwater	10 barg	11,5 kV	184 °C	2024
District Heating	DK	20 MW	Hotwater	10 barg	10 kV	168 °C	2024
District Heating	FI	2 x 50 MW	Hotwater	10 barg	20 kV	184 °C	2024
Energy	DK	20 MW	Hotwater	10 barg	20 kV	184 °C	2024
Bio-ingredients	AT	30 MW	Steam	18 barg	20 kV	210 °C	2024

(S) = Boiler supplied with Electrical Superheater

[www.parat.no](http://www.parat.no)



# High Voltage Electrode Boilers



Industry	Country	Capacity	Type	Pressure	Voltage	Temp.	Year
Energy	NL	20 MW	Steam	18 barg	10 kV	210 °C	2024
Energy	DE	8 MW	Steam	22 barg	6 kV	219 °C	2024
District Heating	DK	50 MW	Hotwater	8 barg	10 kV	174 °C	2024
Energy	FI	2 x 60 MW	Hotwater	10 barg	20 kV	184 °C	2024
Energy	FI	60 MW	Hotwater	10 barg	10 kV	145 °C	2024
Energy	FI	60 MW	Hotwater	10 barg	11,5 kV	184 °C	2024
Energy	FI	30 MW	Steam	16 barg	21 kV	204 °C	2024
Energy	FI	30 MW	Hotwater	10 barg	20 kV	184 °C	2024
Fabric & Textile	NL	10 MW	Steam	16 barg	10 kV	204 °C	2024
Energy	FI	50 MW	Hotwater	10 barg	20 kV	184 °C	2024
Energy	DE	2 x 15 MW	Steam	23 barg	10 kV	221 °C	2024
Food Industry	NL	5 MW	Steam	19 barg	12 kV	212 °C	2024
Energy	HU	20 MW	Hotwater	10 barg	11 kV	184 °C	2024
District Heating	NO	25 MW	Hotwater	12 barg	11 kV	192 °C	2024
Energy	NL	2 x 30 MW	Steam	56 barg	10 kV	272 °C	2024
Energy	SE	2 x 37 MW	Steam	12 barg	6 kV	192 °C	2024
District Heating	DK	10 MW	Hotwater	10 barg	10 kV	184 °C	2024
Energy	LV	10 MW	Hotwater	10 barg	6,3 kV	184 °C	2024
Food Industry	NZ	30 MW	Steam	38 barg	11 kV	248 °C	2024
Beverage Industry	SP	7 MW	Hotwater	6,5 barg	10 kV	167 °C	2024

High Voltage Projects	241	
High Voltage Boilers	273	
GW capacity	534	(5347 MW)