



# PROFILTER reference list

(exemplary projects)  
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CURRENTLY PROFILTER IS REALIZING THE PROJECTS WHICH INCLUDE I.A. THE COMPLETE INSTALLATION OF THE SEWAGE TREATMENT PROCESS LINE AT THE FACILITIES OF THE MUNICIPAL WATER AND SEWERAGE COMPANY IN WARSAW, DELIVERY OF THE PROFILTER'S DEVICES TO THE NEWLY BUILT POWER UNITS IN PUŁAWY AND DOLNA ODRA AND ALSO TO THE KOZLODUY NUCLEAR POWER PLANT (BULGARIA).

PROFILTER HAS REALIZED DELIVERIES OF ITS DEVICES FOR THE NEWLY BUILT POWER UNITS IN THE OPOLE POWER PLANT (2 X 900 MW) AND KOZIENICE POWER PLANT (1 X 1075 MW), DELIVERY AND ASSEMBLY OF 6 TRAVELLING BAND SCREENS FOR THE KOZLODUY NUCLEAR POWER PLANT (BULGARIA) AND ALSO DEVELOPED A CONCEPT AND FURTHER CARRIED OUT ON ITS BASIS THE MODERNIZATION OF THE PROTECTION SYSTEM OF THE FIRE WATER INTAKE AND PUMPS FOR THE LNG TERMINAL.

## TRAVELLING BAND SCREENS (TBS) (exemplary projects)

Year	Location	Facility / end-user	Number of devices installed	Unit capacity (of one TBS) (m <sup>3</sup> /h)
1992	Ostrołęka	power plant and CHP plant	9	30 000
	Warszawa	"Siekierki" CHP Plant	3	23 000
1993	Kozienice (Świerże Górne)	power plant	4	30 000
	Kraków	CHP plant	1	2 200
1994	Połaniec	power plant	8	30 000
	Pątnów (I i II), Konin	ZE PAK Group (power plants)	20	30 000
	Puławy	ZA „Puławy” Group (chemical company)	3	23 000
	Bełchatów	power plant	10	40 000
	Stalowa Wola	power plant	3	14 000
1995	Wrocław	CHP plant	6	9 400
1996	Gryfino	"Dolna Odra" Power Plant	6	30 000
1998	Rybnik	power plant	4	36 000
	Płock	PKN ORLEN (oil refinery)	17	13 000
	Elbląg	CHP plant	2	5 000
1999	Gdańsk	"Wybrzeże" CHP Plant	4	1 152
	Police	Zakłady Chemiczne "Police" (chemical company)	7	7 200
2000	Wrocław	MPWiK (Municipal Water and Sewerage)	2	2 200

<b>TRAVELLING BAND SCREENS (TBS)</b> (exemplary projects)				
<b>Year</b>	<b>Location</b>	<b>Facility / end-user</b>	<b>Number of devices installed</b>	<b>Unit capacity (of one TBS) (m<sup>3</sup>/h)</b>
		Company)		
2001	Warszawa	"Żerań" CHP Plant	2	15 000
2005	Kostrzyn n/Odrą	Arctic Paper Polska	2	2 100
	Toruń	Toruń Waterworks Company (Water Treatment Plant Drwęca – Jedwabno)	3	2 500
	Gdynia	CHP plant	1	6 500
2006	Jelenia Góra	ZUW Jelenia Góra (water treatment plant)	2	1 100
	Kuala Abang – Brunei	water treatment plant	2	4 800
2007	Kędzierzyn-Koźle	ZAK Zakłady Azotowe "Kędzierzyn" (chemical company)	3	1 400
2013	Kladno near Prague – Czech Republic	Alpiq Generation (CZ) v Kladne (power plant)	2	16 000
2014	Frankfurt am Mein – Germany	Infrasite Griesheim GmbH	1	8 000
2015	Ostrołęka	Stora Enso Narew	2	2 000
2015	Kozienice (Świerże Górne)	power plant	3	1 350
2016	Elbląg	CHP plant (‘new water pumping station’)	2	5 000
2017	Szczecin	thermal waste treatment plant	3	1 550
	Kozloduy – Bulgaria	nuclear power plant	1	8 000
2018	Kozienice (Świerże Górne)	power plant (‘cooling water’)	2	62 000
	Kozienice (Świerże Górne)	power plant (‘raw water’)	2	2 250
	Kozloduy – Bulgaria	nuclear power plant	2	8 000
	Nowe Czarnowo near Gryfino	Dolna Odra Power Plant	1	30 000
	Gdańsk	"Wybrzeże" CHP Plant	1	1 200
	Wrocław	MPWiK (Municipal Water and Sewerage Company)	1	16 200
	Opole	power plant	4	43 000
	Warszawa	"Żerań" CHP Plant	3	15 000
2019	Kozloduy – Bulgaria	nuclear power plant	2	8 000
	Legnica	water intake	2	2 500
	Wrocław	MPWiK	1	16 200

TRAVELLING BAND SCREENS (TBS) (exemplary projects)				
Year	Location	Facility / end-user	Number of devices installed	Unit capacity (of one TBS) (m <sup>3</sup> /h)
		(Municipal Water and Sewerage Company)		
	Płock	PKN ORLEN (oil refinery)	7	3 000 – 5 000* *delivery of spare parts for the strainer assembly (7 sets)
2020	Kozloduy – Bulgaria	nuclear power plant	1	8 000
	Płock	PKN ORLEN (oil refinery)	1	3 600
2021	Wrocław	CHP plant	1	850
	Wrocław	CHP plant	1	5 000
	Włocławek	ANWIL	2	1 750
2022	Puławy	CHP plant	2	5 000
<b>TOTAL</b>			<b>167</b>	

MECHANICAL BAR SCREENS (exemplary projects)					
Year	Location	Facility / end-user	Number of devices installed	Clearance between bars	Flow rate
2003	Łomianki near Warszawa	sewage treatment plant	1	3 mm	400 m <sup>3</sup> /h
	Ostrowiec Świętokrzyski	sewage treatment plant	1	50 mm	2 300 m <sup>3</sup> /h
			1	30 mm	2 300 m <sup>3</sup> /h
	Warszawa	"Siekierki" CHP Plant	2	62 mm	23 000 m <sup>3</sup> /h
			1	30 mm	150 m <sup>3</sup> /h
			3	30 mm	23 000 m <sup>3</sup> /h
			1	23 mm	23 000 m <sup>3</sup> /h
2005	Halinów near Warszawa	sewage treatment plant	1	3 mm	210 m <sup>3</sup> /h
			1	15 mm	210 m <sup>3</sup> /h
	Żary	Kronopol (Swiss Krono Group)	1	10 mm	72 m <sup>3</sup> /h
2006	Kozienice (Świerże Górne)	power plant	1	15 mm	7500 m <sup>3</sup> /h
2007	Rawa Mazowiecka	sewage treatment plant	1	10 mm	100 m <sup>3</sup> /d
	Bogatynia	Turów Power Plant	2	10 mm	650 m <sup>3</sup> /h
	Pątnów	Pątnów II Power Plant	4	32 mm	15 000 m <sup>3</sup> /h

## MECHANICAL BAR SCREENS (exemplary projects)

Year	Location	Facility / end-user	Number of devices installed	Clearance between bars	Flow rate
			4	4 mm	400 m <sup>3</sup> /h
2008	Przemyśl	sewage treatment plant	1	50 mm	11 000 m <sup>3</sup> /h
	Ożarów Mazowiecki	sewage treatment plant	1	20 mm	1 000 m <sup>3</sup> /h
	Płock	PKN ORLEN (KOP) (oil refinery)	1	5 mm	600 m <sup>3</sup> /h
	Łódź	GOŚ Łódzkiej Aglomeracji Miejskiej (combined sewage treatment plant)	4	4 mm	1 620 m <sup>3</sup> /h
2009	Mechelinki	Sewage Treatment Plant Dębogórze – PEWiK in Gdynia (Water and Sewerage Company in Gdynia)	1	23 mm	8 100 m <sup>3</sup> /h
	Stok (Łagów commune)	MOP (motorway rest and service area) sewage treatment plant	1	10 mm	120 m <sup>3</sup> /d
	Żarska Wieś (Zgorzelec commune)	MOP (motorway rest and service area) sewage treatment plant	1	10 mm	120 m <sup>3</sup> /d
2010	Sochaczew	MARS Polska Sp. z o.o.	1	4 mm	240 m <sup>3</sup> /d
	Starachowice	sewage treatment plant	1	6 mm	2 300 m <sup>3</sup> /h
	Gdańsk	"Wybrzeże" CHP Plant	3	40 mm	6 500 m <sup>3</sup> /h
	Mońki	sewage treatment plant	1	30 mm	3 300 m <sup>3</sup> /d
	Bełchatów	power plant	2	25 mm	8 000 m <sup>3</sup> /h
			2	3 mm	30 m <sup>3</sup> /h
	Chorzów	"Klimzowiec" Sewage Treatment Plant	2	40 mm	3 900 m <sup>3</sup> /h
3			6 mm	3 900 m <sup>3</sup> /h	
2011	Włocławek	ZA "Anwil" (chemical company)	1	40 mm	2 000 m <sup>3</sup> /h
	Bielkowo	Bielkowo Hydro Power Plant	2	40 mm	40 000 m <sup>3</sup> /h
2012	Rypin	sewage treatment plant	1	30 mm	620 m <sup>3</sup> /h
	Warszawa	MPWiK Warszawa (municipal water and sewage service)	6	50 mm	23 400 m <sup>3</sup> /h
	Jasło	MPGK (municipal services)	1	50 mm	6 000 m <sup>3</sup> /h
2013	Straszyn	Kuźnice Hydro Power Plant	2	40 mm	48 000 m <sup>3</sup> /h
	Łapino	Łapino Hydro Power Plant	2	40 mm	39 600 m <sup>3</sup> /h
	Opole	Opole Power Plant	1	30 mm	12 000 m <sup>3</sup> /h
1			6 mm	80 m <sup>3</sup> /h	

## MECHANICAL BAR SCREENS (exemplary projects)

Year	Location	Facility / end-user	Number of devices installed	Clearance between bars	Flow rate
	Płock	PKN ORLEN (KOR)	1	5 mm	600 m <sup>3</sup> /h
2014	Straszyn	Straszyn Hydro Power Plant	2	40 mm	40 000 m <sup>3</sup> /h
	Żary	Kronopol (Swiss Krono Group)	1	15 mm	1 450 m <sup>3</sup> /h
	Leżajsk	sewage treatment plant	1	14 mm	1 500 m <sup>3</sup> /h
	Płock	PKN ORLEN (KOR)	1	5 mm	600 m <sup>3</sup> /h
2015	Międzyrzec Podlaski	sewage treatment plant	1	30 mm	500 m <sup>3</sup> /h
	Ostrołęka	Stora Enso Narew	2	15 mm	2000 m <sup>3</sup> /h
2016	Mała Panew	Opole Power Plant	2	30 mm	10 800 m <sup>3</sup> /h
	Płock	PKN ORLEN (1 <sup>st</sup> system)	1	6 mm	1400 m <sup>3</sup> /h
2017	Warszawa	Żerań CHP Plant	2	6 mm	8400 m <sup>3</sup> /h
	Płock	PKN ORLEN (2 <sup>nd</sup> system)	1	5 mm	450 m <sup>3</sup> /h
2018	Kozienice (Świerże Górne)	power plant ('raw water')	1	40 mm	2 250 m <sup>3</sup> /h
	Kozienice (Świerże Górne)	power plant ('cooling water')	1	10 mm	150 m <sup>3</sup> /h
2019	Bolesławiec	sewage treatment plant	1	3 mm	8000 m <sup>3</sup> /d
	Warszawa	MPWiK Warszawa (municipal water and sewage service)	1	20 mm	23 400 m <sup>3</sup> /h* *modernization of the mechanical bar screen (decreasing the bar spacing)
2019/ 2020	Warszawa	MPWiK Warszawa (municipal water and sewage service)	6	50 mm	3 900 m <sup>3</sup> /h
2020	Drzewica	sewage treatment plant (PGKiM Drzewica)	1	3 mm	80 m <sup>3</sup> /h
2021	Chorzów	sewage treatment plant (OŚ Klimzowiec)	1	6 mm	3 900 m <sup>3</sup> /h
	Mońki	sewage treatment plant	1	10 mm	3 300 m <sup>3</sup> /d
	Warszawa	MPWiK Warszawa (municipal water and sewage service)	2	30 mm	1 440 m <sup>3</sup> /h
2022	Puławy	CHP plant	2	25 mm	5 000 m <sup>3</sup> /h
2022	Warszawa	MPWiK Warszawa (municipal water and sewage service)	4	35 mm	3 000 m <sup>3</sup> /h
2022	Warszawa	MPWiK Warszawa (municipal water and sewage service)	2	40 mm	10 260 m <sup>3</sup> /h

## MECHANICAL BAR SCREENS (exemplary projects)

Year	Location	Facility / end-user	Number of devices installed	Clearance between bars	Flow rate
2022	Sława	sewage treatment plant (ZWiK Sława)	1	5 mm	450 m <sup>3</sup> /h
2022	Ciernie	sewage treatment plant (WPWiK Wałbrzych)	1	3 mm	1 500 m <sup>3</sup> /h
2023	Sochaczew	MARS Polska Sp. z o.o.	1	3 mm	240 m <sup>3</sup> /d *modernization of the mechanical bar screen
<b>TOTAL</b>			<b>107</b>		

## BAR SCREENS WITH CLEANING GRAB (exemplary projects)

Year	Location	Facility / end-user	Number of devices installed	Clearance between bars	Flow rate
2009	Pątnów	Pątnów Power Plant	12 bar screens + 2 cleaning grabs	25 mm	30 000 m <sup>3</sup> /h
2012	Konin	Konin Power Plant	mechanical scraper at the water intake		
2018	Kozienice (Świerże Górne)	power plant ('raw water')	2 bar screens + cleaning grabs	30 mm	2 250 m <sup>3</sup> /h
	Kozienice (Świerże Górne)	power plant ('cooling water')	2 bar screens + cleaning grabs	30 mm	62 000 m <sup>3</sup> /h
	Opole	power plant	2 bar screens + 2 cleaning grabs	25 mm	43 000 m <sup>3</sup> /h

## SCREW CONVEYORS (exemplary projects)

Year	Location	Facility / end-user	Number of devices installed	Type	Length
2008	Warszawa	"Siekierki" CHP Plant	1	PSb200	5 m
			1	PSb200	6,5 m
	Łódź	GOŚ Łódzkiej Aglomeracji Miejskiej (combined sewage treatment plant)	1	PSb200	13,4 m
2009	Mechelinki	Sewage Treatment Plant Dębogórze – PEWiK in Gdynia	1	PSb200	3 m

## SCREW CONVEYORS (exemplary projects)

Year	Location	Facility / end-user	Number of devices installed	Type	Length
		(Water and Sewerage Company in Gdynia)			
2010	Starachowice	sewage treatment plant	1	PSb200	1,9 m
			1	PSb200	4,3 m
	Chorzów	"Klimzowiec" Sewage Treatment Plant	1	PSb200	11 m
2012	Warszawa	MPWiK Warszawa (municipal water and sewage service)	2	PSb250	15,7 m
2013	Straszyn	Kuźnice Hydro Power Plant	1	PSb200	16,4 m
2015	Ostrołęka	Stora Enso Narew	1	PSb200	15,0 m
2016	Mała Panew	Opole Power Plant	1	PSb200	6,4 m
2018	Kozienice (Świerże Górne)	power plant	1	PSb200	1,5 m
	Kozienice (Świerże Górne)	power plant	1	PSb200	2,5 m
2019	Warszawa	MPWiK Warszawa (municipal water and sewage service)	2	PSb250	15,7 m* *modernization
2019/ 2020	Warszawa	MPWiK Warszawa (municipal water and sewage service)	2	PSb300	22 m
2021	Włocławek	ANWIL	1	PSb250	6,5 m
2022	Puławy	elektrociepłownia	1	PSb200	6 m
2022	Warszawa	MPWiK w m.st. Warszawie	2	PSb300	13 m
2022	Warszawa	MPWiK w m.st. Warszawie	1	PSb250	8,4 m

## ROTARY SCREENS (exemplary projects)

Year	Location	Facility / end-user	Number of devices installed	Mesh size	Flow rate
2004	Milejów	sewage treatment plant	1	0,7 mm	400 m <sup>3</sup> /h

## SCREENINGS WASH PRESSES

Year	Location	Facility / end-user	Number of devices installed
2014	Warszawa	MPWiK Warszawa (municipal water and sewage service)	1
2018	Warszawa	MPWiK Warszawa (municipal water and sewage service)	3 – overhaul

## REPAIR GATES

Year	Location	Facility / end-user	Number of devices installed	Dimensions width x height
2007	Pątnów (II)	ZE PAK Group (power plants)	2	4,6 m x 3,6 m
			6	1,6 m x 2,0 m
			8	2,6 m x 1,8 m
2015	Ostrołęka	Stora Enso Narew	4	0,9 m x 2,1 m
			1	9,6 m x 2,35 m
2018	Opole	power plant	4 x 2	5,7 x 2,3 m

## CONTAINER STATION FOR THE MECHANICAL PRE-TREATMENT OF THE SLOP OIL

Year	Location	Facility / end-user	Number of devices installed	Clearance between bars	Flow rate
2012	Płock	PKN ORLEN	1	2 mm	120 m <sup>3</sup> /h

## TECHNICAL CONCEPTS

Year	Location	Facility / end-user	Device / scope of works
2019 – 2020	Świnoujście	LNG terminal	developing a concept and further carrying out on its basis the modernization of the protection system of the fire water intake and pumps



## OTHER DEVICES AND WORKS

Year	Location	Facility / end-user	Number of devices installed	Device / scope of works
2015 – 2018	Warszawa	CHP plant	-	framework service agreement
2017	Kozienice (Świerże Górne)	power plant	1	intake structure
2018 – 2020	Warszawa	CHP plant	-	framework service agreement
2019	Legnica	water intake	2	adjusting of existing repair gates in order to cut off water inlet to the pump station and to install the wall mounted penstock
2020	Świnoujście	LNG terminal	-	modernization of the protection system of the fire water intake and pumps, on the basis of our own concept
2021 – 2022	Starachowice	sewage treatment plant PWiK Starachowice	2	rental of the macerator and wash press
2021 – 2023	Warszawa	MPWiK Warszawa (municipal water and sewage service)	-	service agreement
2021 – 2023	Warszawa	CHP plants	-	framework service agreement