



EDP GROUP THERMAL POWER PLANTS

2023	Treated and rejected effluents quality (annual average)							
	Portugal			Spain				Brazil
	Sines	Ribatejo	Lares	Abofio	Soto de Ribera	Los Barrios	Soto de Ribera G4 + G5	Pecém
pH	7.28	8.20	7.65	7.76	8.60	8.29	8.00	7.82
Total residual Chlorine (mg/l)	n.a.	0.11	0.40	n.a.	0.00	0.03	n.a.	0.00
BOD5 (mg/l)	2.39	3.05	2.10	21.58	0.00	0.00	n.a.	n.d.
COD (mg/l)	16.82	12.90	45.00	23.68	0.00	3.01	n.a.	n.d.
Total Suspended Solids (mg/l)	9.37	5.95	n.a.	7.33	0.00	8.72	8.75	15.33
Total Nitrogen (mg/l)	0.79	1.20	n.a.	n.a.	n.a.	n.a.	n.a.	0.66
Nitrate(mg/l)	1.97	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.d.
Total phosphate (mg/l)	0.04	0.28	0.11	0.50	0.00	0.20	n.a.	n.d.
Iron (mg/l)	0.15	n.a.	n.a.	n.a.	0.60	0.00	n.a.	0.03
Copper (mg/l)	0.00	n.a.	n.a.	n.a.	27.00	0.00	n.a.	0.01
Zinc (mg/l)	0.06	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.03
Nickel (mg/l)	0.012	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.00
Vanadium (mg/l)	0.35	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.d.
Chromium (mg/l)	0.004	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.01
Detergents (mg/l)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.d.
Oil and fats (mg/l)	0.28	0.23	0,2	5.85	0.00	0.01	7.40	10.00
Hydrocarbons (mg/l)	0.08	0.49	0.03	n.a.	n.a.	n.a.	n.a.	0.02

Treatment process	Neutralization, flocculation/decanting, biological treatment (for domestic effluents), water-oil separation (for oily effluents)	Neutralization, flocculation/decanting, water-oil separation (for oily effluents)	Neutralization, coagulation, flocculation and decanting	Clarification, flocculation and decanting (Industrial effluent)
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n.a. - not applicable

N/A - not available