



EDP GROUP THERMAL POWER PLANTS

2022	Treated and rejected effluents quality (annual average)							
	Portugal			Spain				Brazil
	Sines	Ribatejo	Lares	Aboño	Soto de Ribera	Los Barrios	Soto de Ribera G4 + G5	Pecém
pH	7.33	7.98	7.80	8.00	8.30	8.14	8.09	7.47
Total residual Chlorine (mg/l)	n.a.	0.07	0.15	n.a.	23.40	0.01	n.a.	0.00
BOD5 (mg/l)	2.58	3.48	2.10	0.00	0.00	0.00	n.a.	N/A
COD (mg/l)	11.75	21.98	25.20	15.10	0.00	1.55	n.a.	N/A
Total Suspended Solids (mg/l)	7.39	5.03	n.a.	7.90	0.00	5.51	5.68	484.00
Total Nitrogen (mg/l)	1.92	3.48	n.a.	n.a.	n.a.	n.a.	n.a.	3.36
Nitrate(mg/l)	5.53	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	N/A
Total phosphate (mg/l)	0.20	1.25	0.09	0.00	0.00	0.15	n.a.	N/A
Iron (mg/l)	0.15	n.a.	n.a.	n.a.	0.64	0.00	n.a.	0.05
Copper (mg/l)	0.01	n.a.	n.a.	n.a.	3.70	0.00	n.a.	0.01
Zinc (mg/l)	0.17	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.08
Nickel (mg/l)	0.020	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.01
Vanadium (mg/l)	0.35	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	N/A
Chromium (mg/l)	0.010	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/A
Oil and fats (mg/l)	0.27	0.18	0.25	4.10	0.10	0.01	2.84	10.00
Hydrocarbons (mg/l)	0.06	1.25	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