

Supporting Materials

Table S1 Wastewater treatment capability and operating conditions of 20 WWTPs.

WWTP	Process	Designed treatment capacity (m ³ /d)	Treatment volume in winter (m ³ /d)	Treatment volume in summer (m ³ /d)	Electricity consumption in winter (kW·h/m ³)	Electricity consumption in summer (kW·h/m ³)
A	CAST	15	13.27	16.14	0.27	0.18
B	CASS	20	17.07	18.63	0.47	0.29
C	A/O	30	28.12	34.89	0.23	0.15
D	A/A/O	25	22.33	24.38	0.30	0.23
E	A/A/O	45	35.07	46.47	0.29	0.17
F	A/O	60	51.75	55.37	0.21	0.16
G	CAST	60	55.86	61.56	0.26	0.22
H	SBR	45	43.62	44.15	0.44	0.36
I	CASS	40	39.23	40.17	0.47	0.36
J	A/A/O	80	70.54	80.31	0.32	0.24
K	A/O	60	50.21	60.16	0.43	0.33
L	A/A/O	200	155.23	179.61	0.25	0.15
M	A/A/O	150	131.35	144.39	0.20	0.18
N	A/O	100	75.06	93.35	0.33	0.21
O	A/A/O	70	66.13	68.82	0.43	0.30
P	A/A/O	60	57.21	58.32	0.52	0.36
Q	A/O	80	69.47	79.93	0.48	0.21
R	A/O	100	89.59	98.80	0.35	0.22
S	CASS	20	14.37	14.20	0.27	0.23
T	CASS	20	14.63	16.73	0.31	0.29