

	Plant	Country	Capacity (PE)	Application	Cell Surface (m2)	No. Of cells	Daily flow (m3/d)	Start-up	Objective	Effluent criteria
COLD WATER CONDITIONS (8-10 C)	Helsinki	Finland	900,000	PDN		10	240,000	2004	Denitrification	BOD < 6 mg/l TSS < 5 mg/l TN < 5.4 mg/l TP < 0.24 mg/l
	Frederikshavn (Denmark)	Denmark	35,000	NDN+PDN	63	5+1	10,000	1994	Total Nitrogen Removal	< 8 mg/l
	Mariager (Denmark)	Denmark	5,000	NDN+PDN	14	4+2 (6 m2)	2,800	1995	Total Nitrogen Removal	< 8 mg/l
	Hobro (Denmark) Extension	Denmark	75,000	NDN+PDN	28	6+2	9,100	1998	Total Nitrogen Removal	< 8 mg/l
	Nyborg (Denmark) Extension	Denmark	60,000	NDN+PDN	63	7+3	23,000	1998	Total Nitrogen Removal	TN< 7 mg/l
SIMILAR SIZE AND TREATMENT REQUIREMENTS REFERENCE	Nanjing Chengdong	China	1,000,000	NDNs+PDN	173	8+ 2 (129)	200,000	2009	Total Nitrogen Removal	COD < 50 mg/l BOD < 10mg/l TSS < 10 mg/l NH4-N < 4 mg/l Tot-N < 15 mg/l Tot-P < 0.5 mg/l
	Handan	China	385,000	NDNs+PDN	231	6+1 (173)	100,000	2007	Total Nitrogen Removal	TN < 15 mg/l COD 80 mg/l BOD 20 mg/l TSS 20 mg/l TP < 1mg/l
	Urumqi Hedong	China		NDNs+PDN	173	6 + 4	100,000	2011	Total Nitrogen Removal	TN < 15 mg/l NH3-N < 5 mg/l COD 50 mg/l BOD 10 mg/l TSS 10 mg/l TP < 0.5mg/l
	Marne AVAL (F)	France	444,000	NDN+PDN	113	14+3 (84)	75000	2009	Total Nitrogen Removal	< 15 mg/l
	Angers	France	285,000	NDN+PDN	173 / 113	9 + 3	65,000	2011	Total Nitrogen Removal	TN < 10 mg/l COD 90 mg/l BOD 25 mg/l TSS 35 mg/l TP < 1mg/l
	Cergy extension	France	408,000	NDNs+PDN	113	10+ 4 (84)	55,000	2010	Total Nitrogen Removal	COD < 70 mg/l BOD < 25mg/l TSS < 30 mg/l TKN < 5 mg/l Tot-N < 10 mg/l Tot-P < 0.9 mg/l
	Beggen (Luxembourg)	Luxembourg	210,000	NDN+PDN	113 / 84	12 + 4	51,200	2007	Ttotal Nitrogen removal	
	Shenzen Xili	China	166,000	NDNs+PDN	113	6+ 2 (84)	50,000	2009	Total Nitrogen Removal	COD < 50 mg/l BOD < 10mg/l TSS < 10 mg/l NH4-N < 5 mg/l Tot-N < 15 mg/l Tot-P < 0.5 mg/l
	Zhejiang Taizhou Jiaojiang	China	250,000	NDNs+PDN	84	6	50,000	2009	Tertiary Nitrification	COD < 60 mg/l BOD < 10mg/l TSS < 10 mg/l NH4-N < 10 mg/l Tot-P < 1 mg/l

SIMILAR TREATMENT REQUIREMENTS REFERENCES	Nantes La petite Californie	France	180,000	NDNs+PDN	113/63	7+3	46,000	2009	Total Nitrogen Removal	TN < 10 mg/l COD 90 mg/l BOD 25 mg/l TSS 35 mg/l TP < 1mg/l
	Le Mans (France)	France	367,000	NDN+PDN	113	18 + 2	38,000	2003	Total Nitrogen Removal	< 15 mg/l
	Boulogne (France)	France	200,000	NDNs+PDN	113	9+4	20,350	2003	Total Nitrogen Removal	TN < 10 mg/l
	Savio (Extension), Italy	Italy	33,000	NDN+PDN	28	6+2	18,000	2006	Total Nitrogen Removal	TN < 15 mg/l COD < 125 mg/l BOD < 25 mg/l TSS < 35 mg/l P< 2 mg/l
	Songdo (Korea)	Korea	33,000	NDNs+PDN	63	4+3 (13)	10,000	2004	Total Nitrogen Removal	BOD<15 mg/l TSS<12 mg/l TN< 25 mg/l
	Luneville (France)	France	50,000	NDNs+PDN	63	4+6(40 m2)	9,302	2003	Total Nitrogen Removal	
	Savio (I)	Italy	11,500	NDN+PDN	28	3+1	6,000	2004	Total Nitrogen Removal	TN< 15 mg/l
	Douarnenez (France)	France	80,000	NDNs+PDN	63	5+1(28m2)	6,000	2003	Total Nitrogen Removal	< 15 mg/l
	Auvers sur Oise	France	34,300	NDNs+PDN	42	4 + 2 (28)	5,380	2010	Total Nitrogen Removal	COD < 70 mg/l BOD < 25mg/l TSS < 30 mg/l Tot-N < 10 mg/l Tot-P < 2mg/l
	Formigères (France)	France	15,000	NDNs+PDN	42	4+1(14m2)	2,850	2004	Total Nitrogen Removal	< 15 mg/l
	Ebara Coporation (Japan)	Japan		NDN+PDN	12	4 + 2 (3 m2)	1,300	2003	Total Nitrogen Removal	