

Case Study - Hyflux, Singapore

Seawater Desalination - Pre-treatment RO



Challenges:

- Variation in the quality of the sea water. The turbidity ranges from 3-30 NTU
- Frequent clogging of membranes and existing cartridges due to organic UF impurities and biological, leading to intensive operating costs
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- Frequent clogging of membranes. High cost and regulatory problems: RO

Parameter	Existing Values	Required Values	Results Achieved?
Turbidity (NTU)	3-30 NTU	NTU < 1 @ 90% of the time	✓
Total Suspended Solids	30 mg/liter	> 1 mg/liter @ 80% of the time	✓
Drift Density Index (SDI)	Not Measurable	5 > @ 90% of the time	✓

