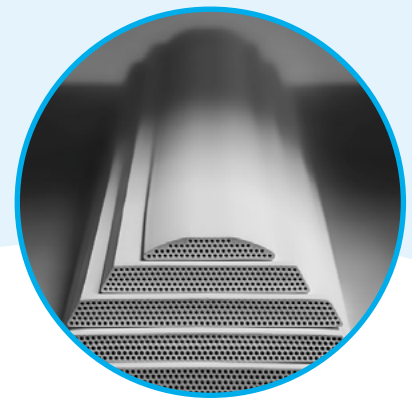




Increase Desalination Plant Availability UP TO 98%



Nanostone Water's state-of-the-art ceramic membrane technology has helped water plants **continuously run at availabilities up to 97%-98%**.

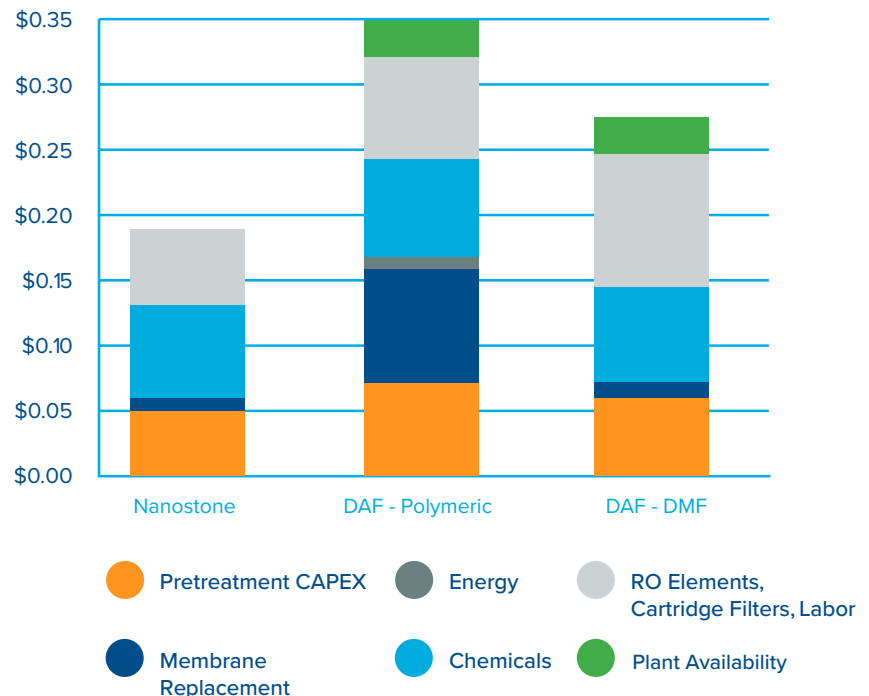


Economic Analysis

Key Features and Benefits

- Operates at very high flux (3–6 times higher than PUF)
- Higher recovery than polymeric MF/UF and conventional methods
- Runs stably at high solids loading, especially inorganics
- Dosing of coagulant is well-tolerated and even improves performance
- pH resistance from 1–13 in cleaning, 2–12 in operation
- Operational temperature 33 –113 °F (0.5 –45 °C)
- Robust and reliable (no fibers to break or repair)
- Lower operational complexity and cost (no air scour required, fewer chemicals and electricity when removing treatment steps, higher water recovery)

PRETREATMENT COST (\$/m3)

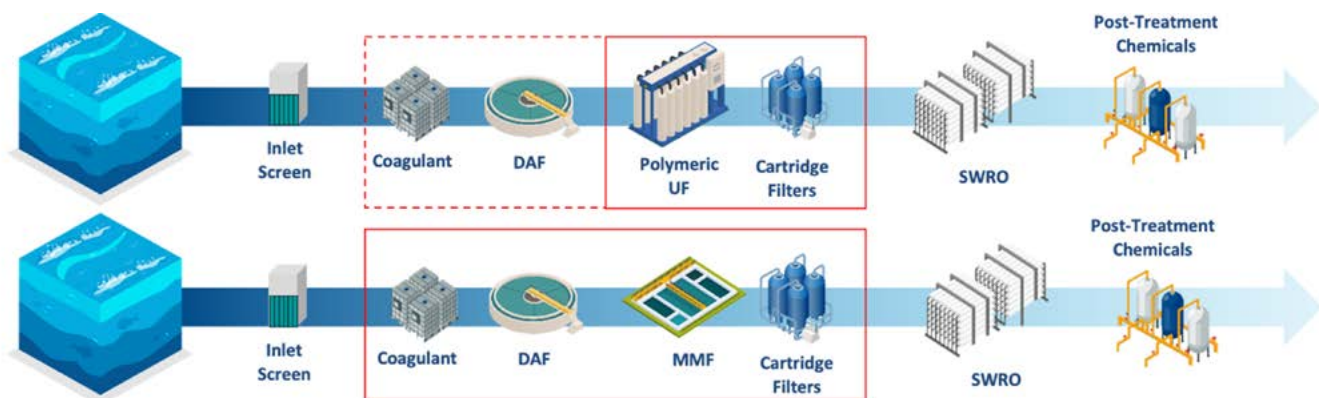




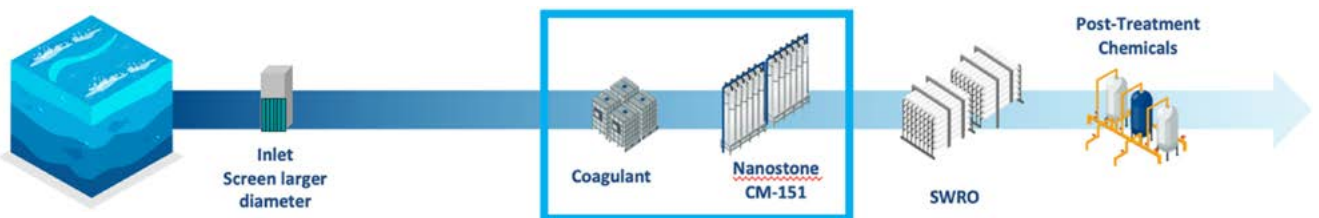
Increase Desalination Plant Availability UP TO 98%



Today's Common Pretreatment Solutions DO NOT WORK.



Nanostone WORKS.



	Ceramic membrane pre-treatment (Coagulant + ceramic membrane)	Polymeric UF pre-treatment (Coagulant + DAF + polymeric UF + cartridge filter)	Conventional pre-treatment (Coagulant + Sedimentation/DAF + Multimedia Filtration + cartridge filter)
Capex	Low	High	Low
Opex	Low	High	Medium
Water Quality	High	Medium	Low
Footprint	Low	Medium	High
Plant Availability	High	Medium	Low