Water Solutions

DUPONT™

Invest to Save with DuPont Seawater Reverse Osmosis technology

Innovation beyond product specifications

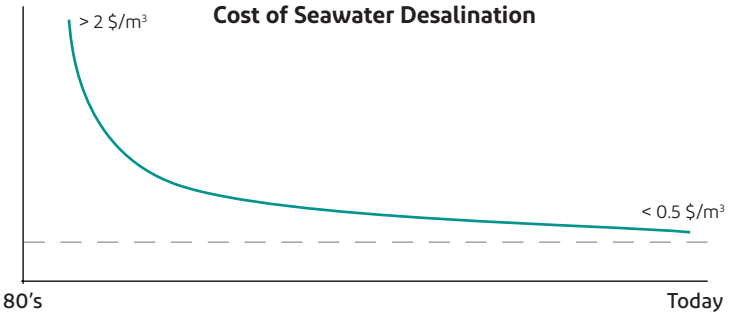
www.dupontwatersolutions.com/desal

The rise of seawater desalination

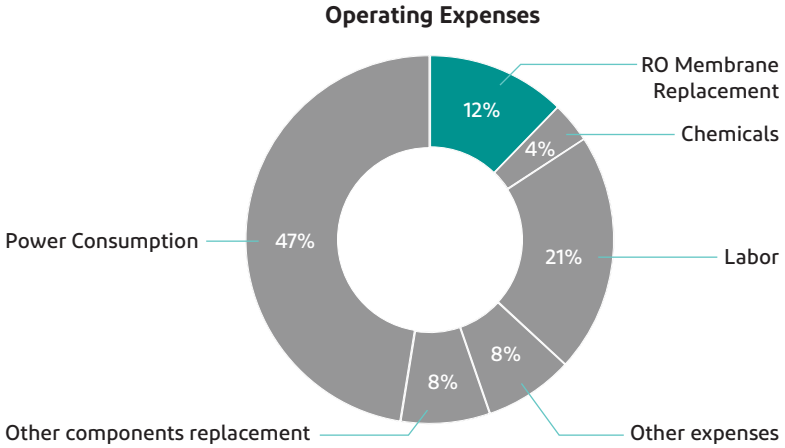
Advancements in membrane technology have made seawater desalination an economically feasible option in the search for new water sources. Over the last three decades, the cost of desalination has dropped by more than half , and now over 300 million people globally get their water from desalination plants, according to the International Desalination Association. Ongoing innovation will continue to improve the efficiency and sustainability of the process over the long run, and desalination is fast becoming a safer investment for securing water supply.

DuPont FilmTec™ Reverse Osmosis

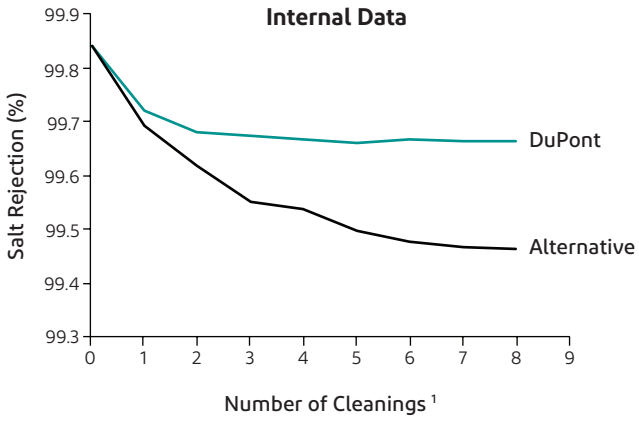
Membrane replacement can account for up to 5% of the total cost of water and 12% of the operating cost.



Durable membranes yield significant operational savings



DuPont shows exceptional Durability



Proven durability in large desalination plants:

San Pedro del Pinatar II Desalination Plant (Murcia, Spain)
14 years without replacement
6,000 membranes

Alicante II Desalination Plant (Valencia, Spain)
12 years without replacement
6,000 membranes

Perth Seawater Desalination Plant (Perth, Australia)
10+ years without replacement
18,000 membranes

Torrevieja Seawater Desalination Plant (Torrevieja, Spain)
7+ years in operation
25,000 membranes

Águilas Seawater Desalination Plant (Águilas, Spain)
7+ years in operation
>20,000 membranes

[1] Cleanings based on standard procedures described in FilmTec™ manual consisting in multiple cycles of caustic cleaning (pH 13 at 35ºC), acid cleaning (pH 1 at room temperature) and stabilized standard test. Spiral wound 8-inch commercial membranes operated side by side at the same permeate flow, recovery feed flow, water composition and temperature

[2,3] Assumptions: 20 years installation lifetime; includes New & Replacement membranes cost

The DuPont difference

FilmTec SWRO **enhanced durability** enables a reduction of: [2]

- 5% in total cost of water
- 50% in membrane cost

DuPont offers more attractive **warranties** based on superior durability

OEMs/Constructors	End users/Operators
More competitive offers to End Users/Operators	Lower Operational costs Smoother & Safer operation Improved Sustainability footprint

Economic benefits

- Up to 50% lower membrane cost[3]
- Decreased downtime
- Man-power cost reduction
- Reduced membranes disposal cost

Operation benefits

- Non interrupted production
- Disruption elimination
- Hazard & operational risks decrease
- Enhanced system predictability
- Smoother & continuous operation downstream

Sustainability benefits

- **Improved** sustainability footprint

Contact us

DuPont's global network of accessible knowledge and market-leading portfolio of purification and separation technologies enables the water productivity from which health, profits and possibilities spring. From manufacturers to municipalities, we help our customers to confidently explore new opportunities and shape the future.

Contact us today at 833-338-7668 (833-3-DUPONT) and invest to save.

DUPONT™

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