



**Grand Breakthrough Award
Winner 2024
GLOBAL PRIZE FOR INNOVATION
IN DESALINATION**



www.nalamembranes.com

Contact: Sue Mecham, sjmecham@nalamembranes.com

Global water scarcity is surging demand for advanced water treatment innovations

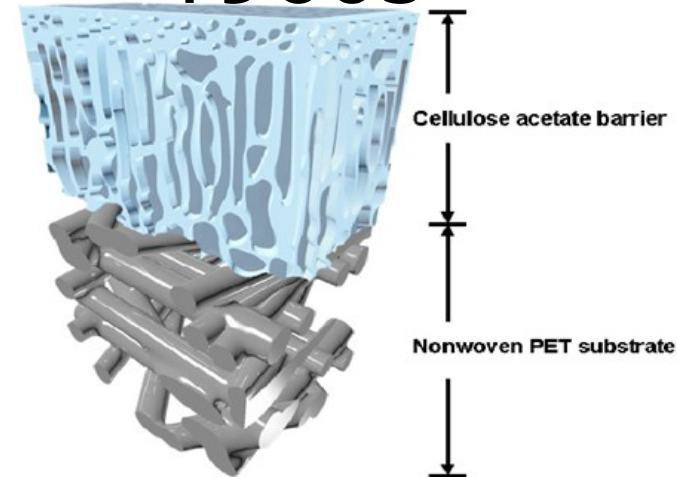
- **Reverse osmosis membranes:**
 - Desalination
 - Wastewater treatment
- **40 yr old membrane technology adds cost and limits functionality**
 - Fouling
 - Failure
 - OPEX
 - CAPEX



Why no new membrane materials for 40 yrs?

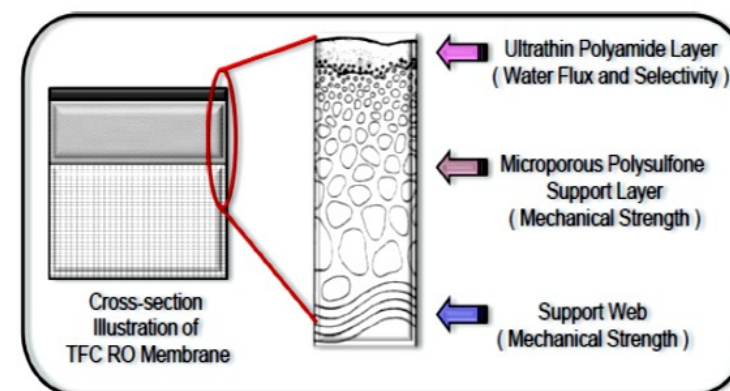
Cellulose Acetate Membranes

1960s



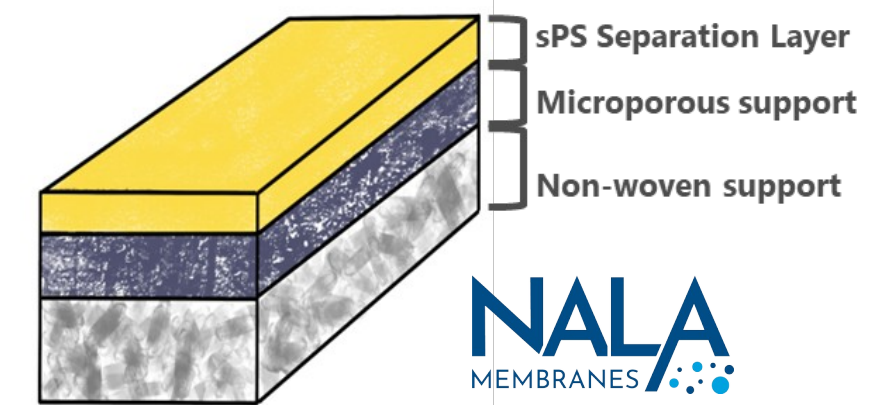
Polyamide TFC Membranes

1980s



Sulfonated Polysulfone TFC Membranes

2020s



1960

1970

1980

1990

2000

2010

2020

2030

Research Funding:



| Key Innovations in Membrane Manufacturing

- Patented Polymers
- Proprietary Coating Process-
New Membrane Manufacturing Platform

At Scale: Lower Cost and Lower Waste Than Polyamide Membrane Manufacturing Operations

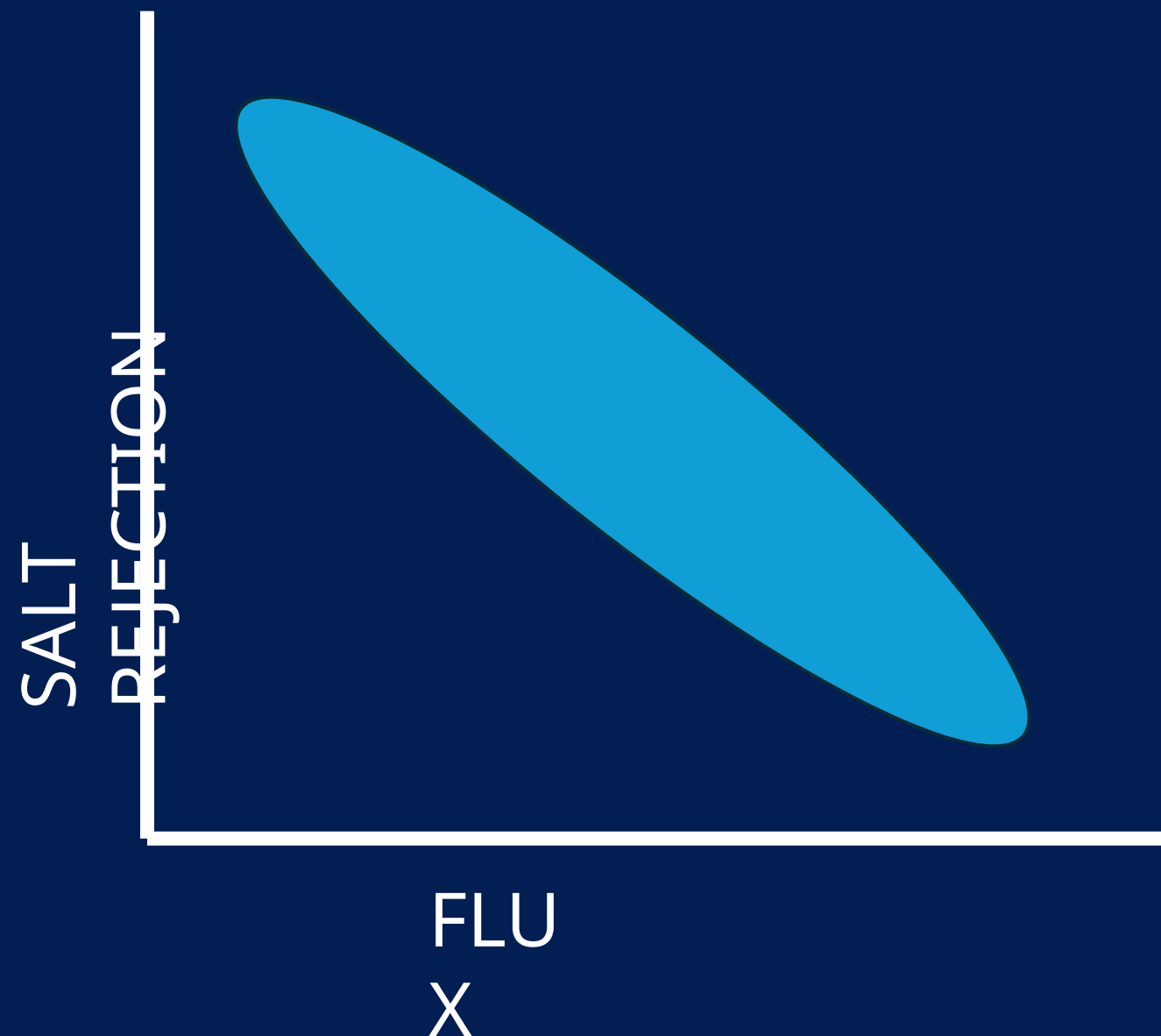
\$5B RO Membrane Market Dominated by Polyamide Membranes

TORAY
Innovation by Chemistry

 **LG NanoH2O**

DUPONT

Nitto
Innovation for Customers
HYDRANAUTICS

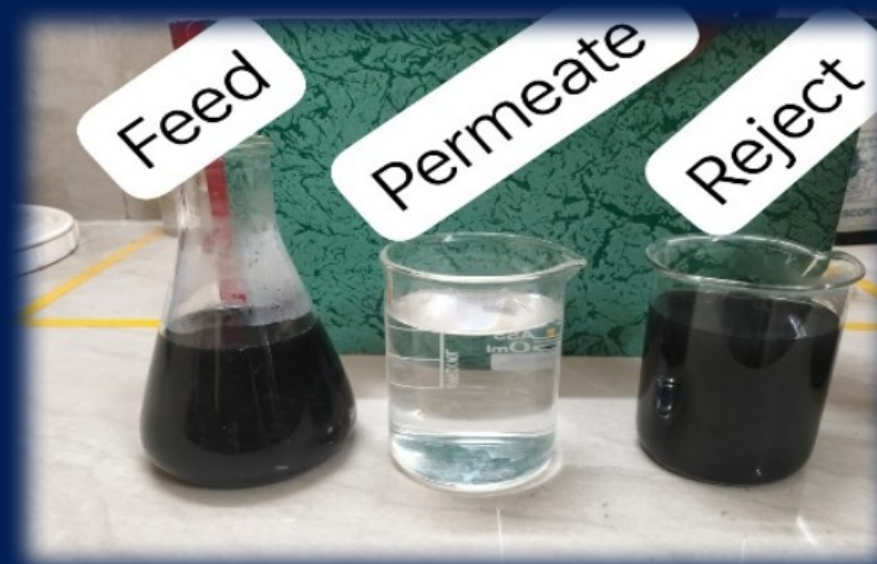
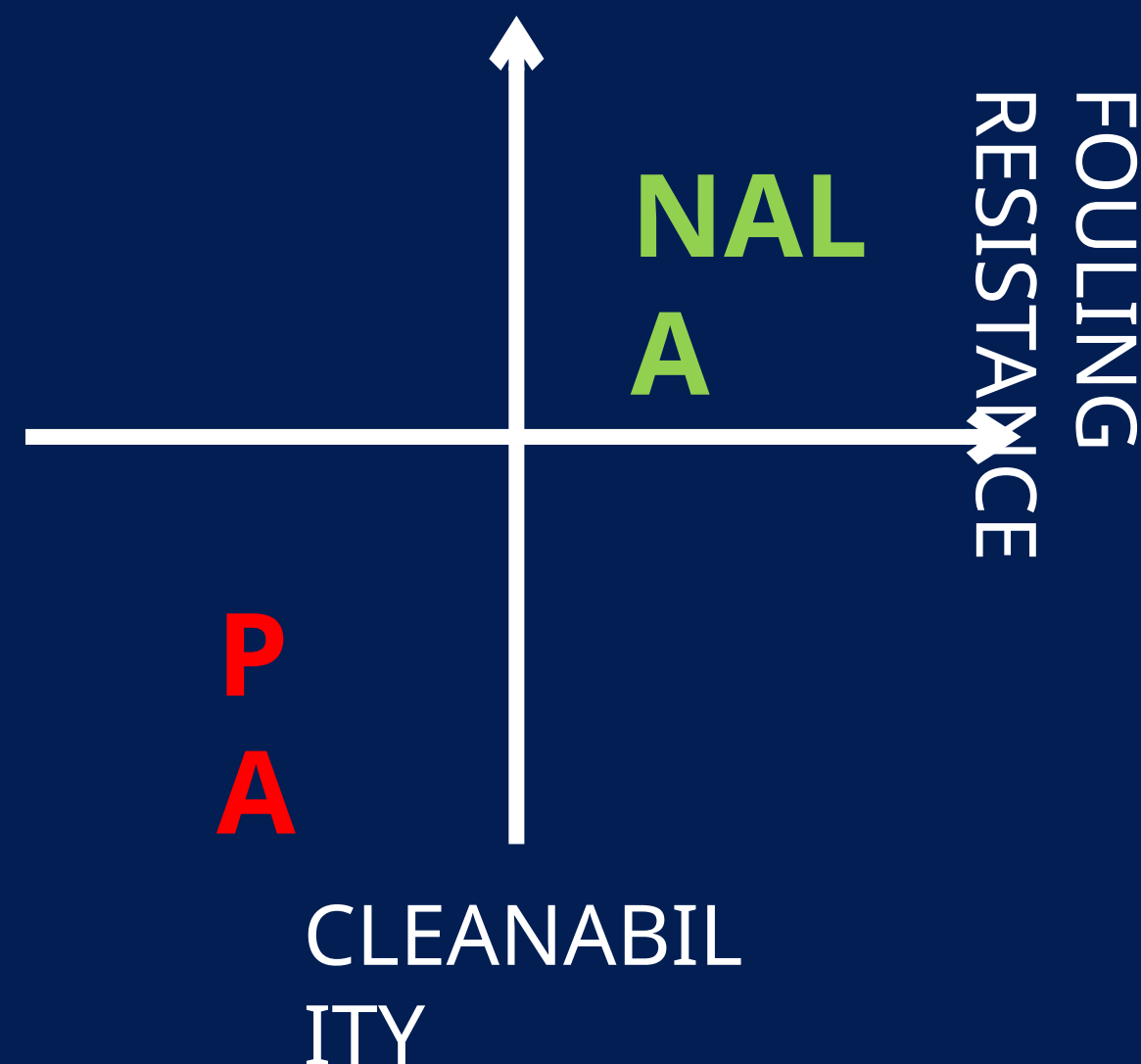


Customer
Industrial
Municipal

Feed Water
Seawater
Brackish
Wastewater

Purpose
Drinking
Production
Release

CLEAN MEMBRANES WORK BETTER



Industrial Wastewater: \$1B+ market

Textiles
Agriculture
Food & Beverage
Landfill Leachate
Mining
Brewery
Tannery

Oil & Gas: \$1B+ market

Sulfate Removal
(offshore)
Produced Water

NALA'S \$60M PIPELINE includes recurring

System Builders
Membrane Manufacturers
Large End-users

2024: R&D---no product

2025:

- Manufacturing derisked
- Recurring sheet sales
- Elements in pilots

2026 Plans:

- 6X Production
- 9X Revenue
- Profitable manufacturing
- Recurring sheet sales
- Element sales



الهيئة السعودية للمياه
Saudi Water Authority



**MANN +
HUMMEL**



osmoFlo



PETROBRAS

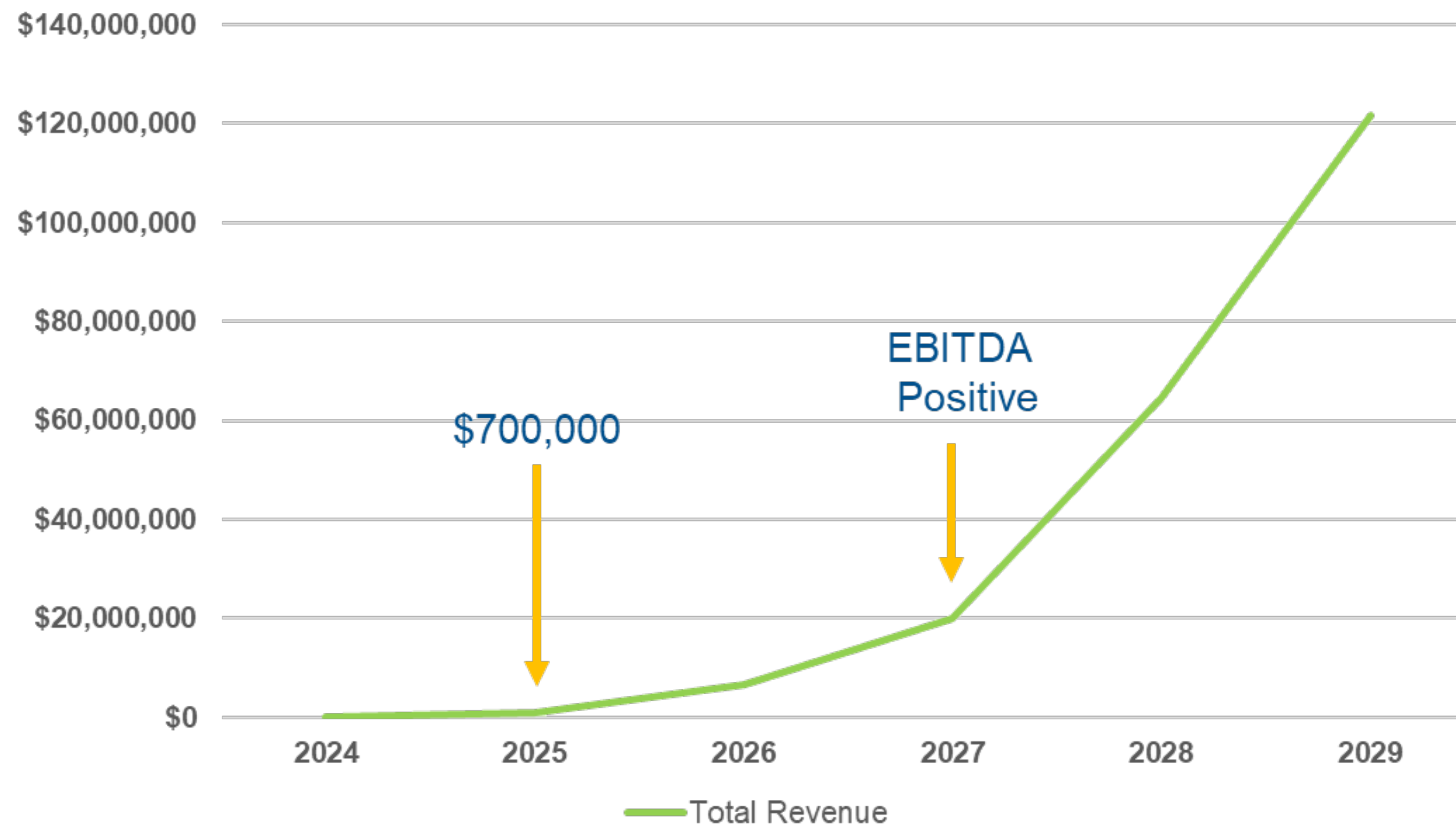


SAMSUNG



NALA Membranes

STRONG REVENUE PROJECTIONS



STRONG TEAM

Leadership
Operations
Polymers
Membranes
Membrane
Industry



Sue Mecham | CEO



Judy Riffle | CTO



Tim DeBone | CFO



Randy Truby | EVP Sales



\$5M PRE-SERIES A

INVESTMENT OPPORTUNITY:

CAPITAL UTILIZATION STRATEGY TO POSITION FOR STRONG SERIES A OR M&A:

- Scaling Profitable Manufacturing
- Sales with Early Adopters
- Market Testing and Expansion

Non-Dilutive: \$2M



National
Science
Foundation



NAWI
National Alliance for Water Innovation

Equity: \$7M



GOOD
GROWTH
CAPITAL

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TEXAS
The University of Texas at Austin

NEW
NETWORK FOR ENTREPRENEURS
IN WILMINGTON

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