



National Alliance
for Water Innovation

NAWI Update for Western States Water Council

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August 4, 2022

Why should all Western States (including non-coastal states) care about desalination?

- Desalination = removing salt and other dissolved contaminants from water
- There's a LOT of salty water available to desalinate away from the coast
- Desalination is a critical tool in our water reuse toolkit
- Desalination can also be used to remove contaminants such as PFAS

Desalination can provide a new, climate-resilient marginal water supply to communities and industries in the West

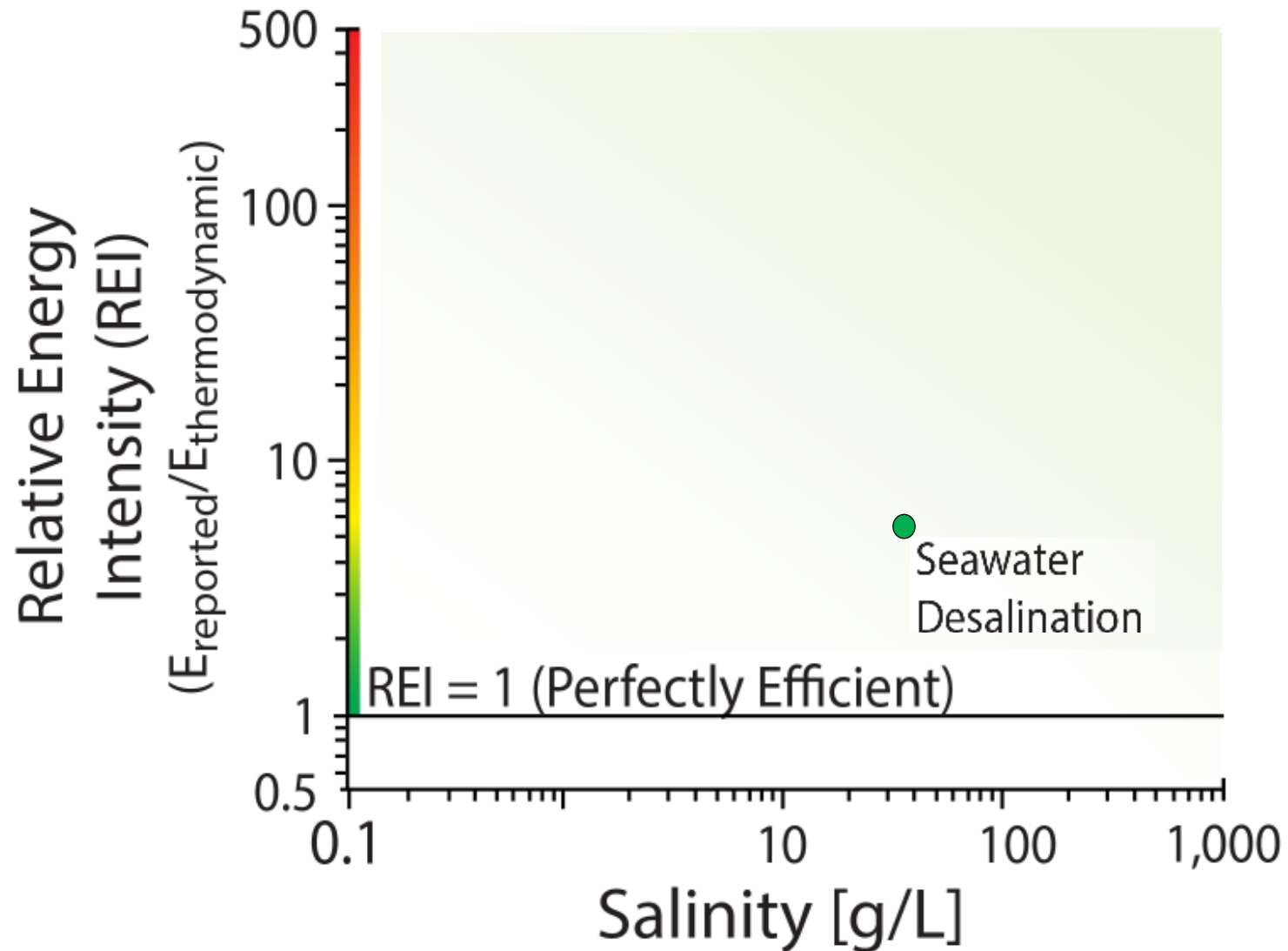
A Manhattan Project for Water

The Largest Federal Investment in Desalination, Water Reuse R&D since the 1960's

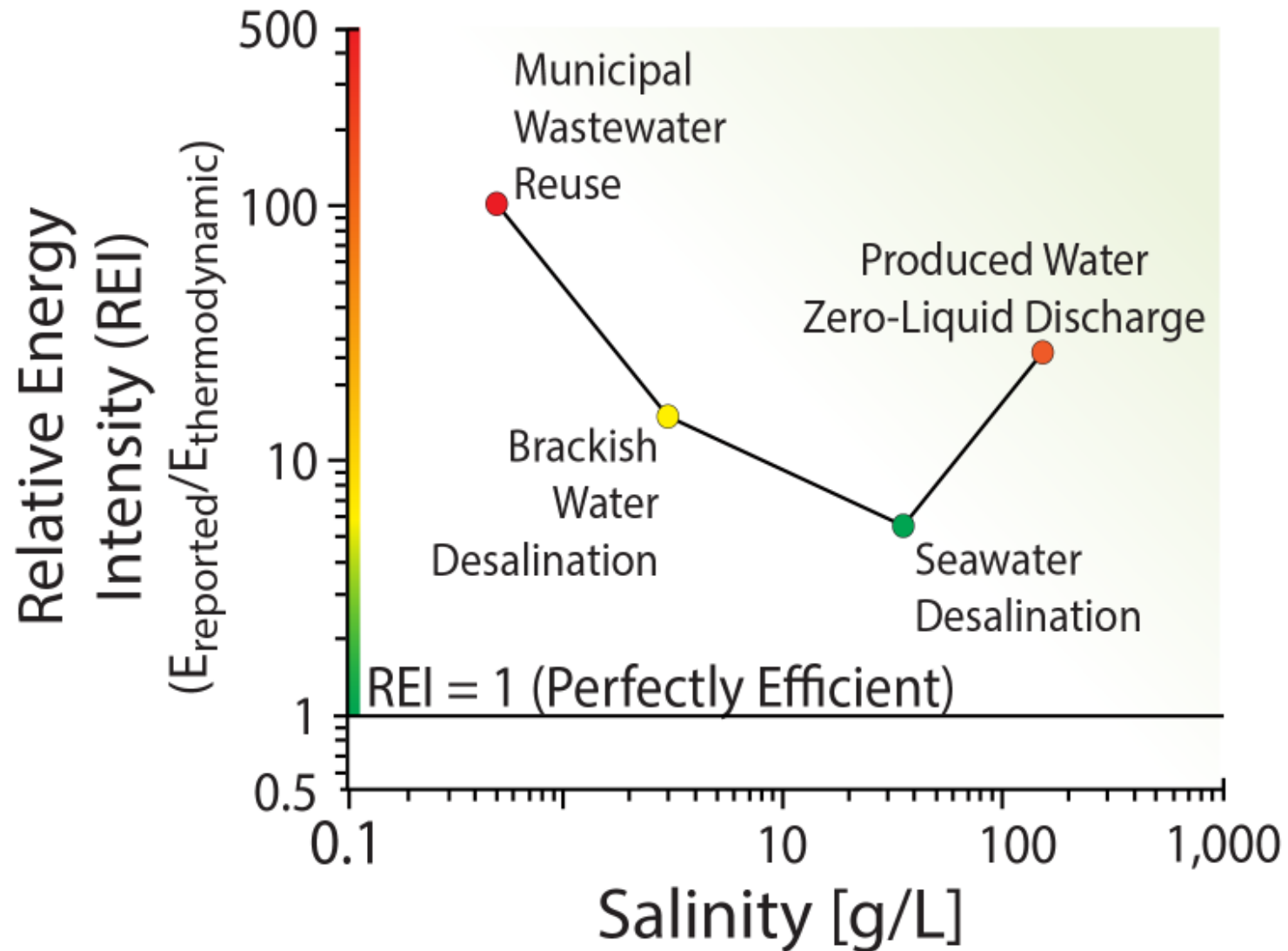
- 5-Year, \$110M+ “early-stage applied research” program from DOE’s Advanced Manufacturing Office (EERE)
- \$23 million in cost share support from CA State Agencies (Prop 1 + FY21 Budget Appropriation)
- Goal: 75% reduction in cost and energy of desalination



NAWI's Insight: Largest Efficiency Opportunity is with "Non-traditional" Water Sources...



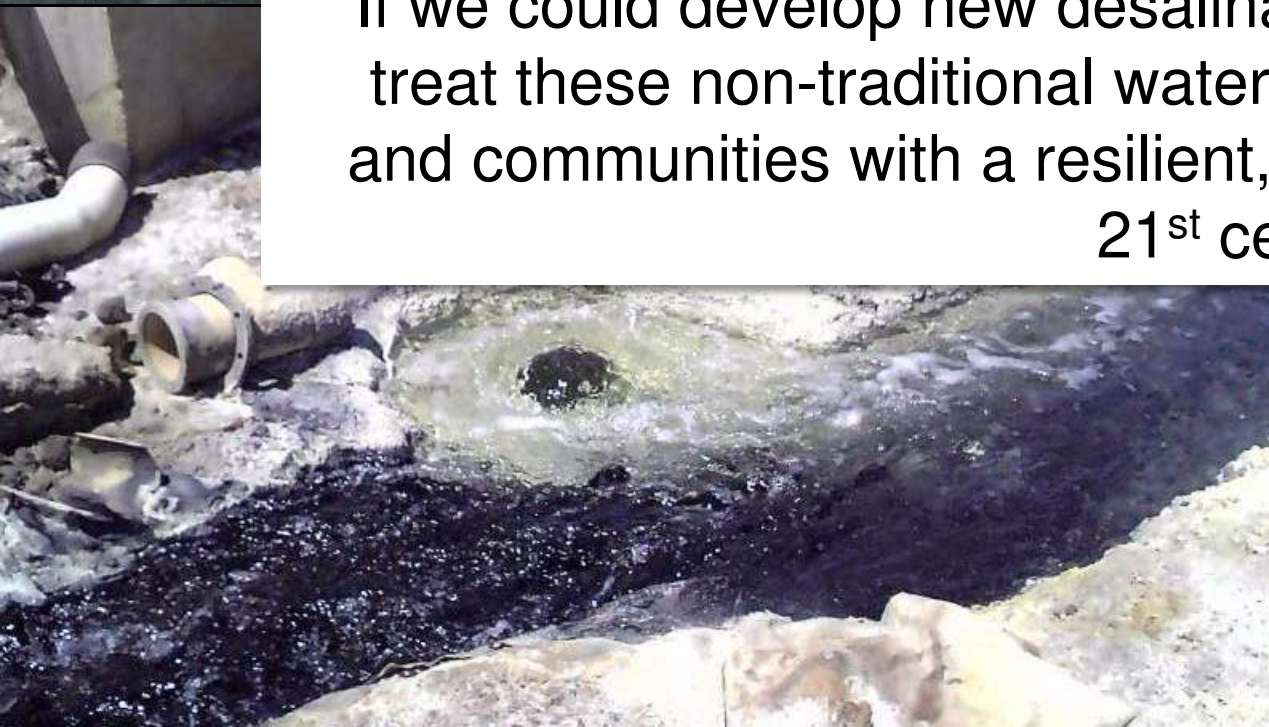
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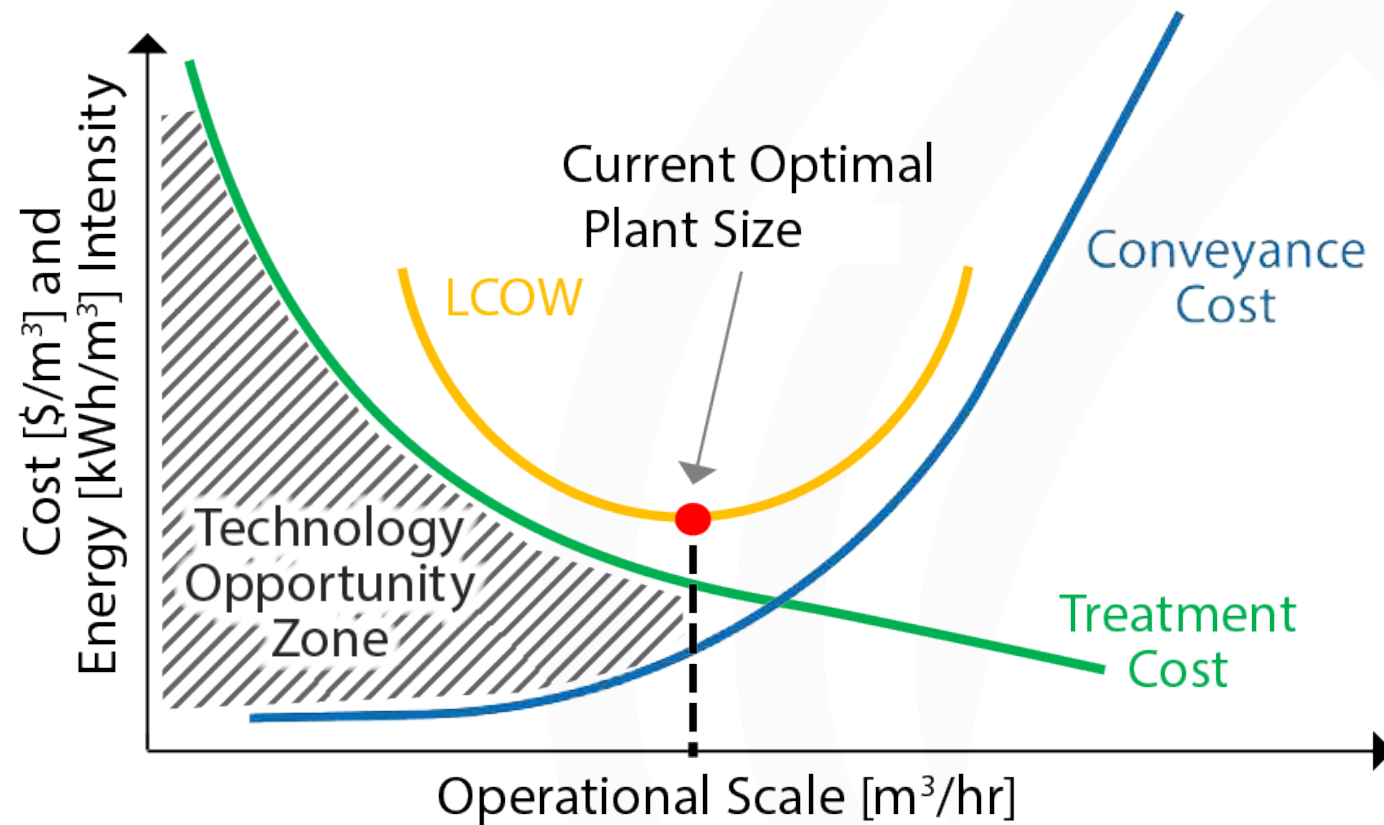


These non-traditional waters are geographically widespread, often contain valuable constituents, and are presently discarded...

If we could develop new desalination technologies to economically treat these non-traditional waters, we could provide our industries and communities with a resilient, cost-effective water supply for the 21st century...



Where's the biggest opportunity? Going SMALL



NAWI's Goal: Enable cost-effective (small-scale) distributed water treatment and reuse

NAWI's vision mirrors a transformation that has already happened in the energy sector...



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Custom-designed
Long lead time
\$B
1 per town



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Distributed
Manufactured
Short lead time
\$K
1 per building

How can you and your state get engaged?

- California led the way with:
 - Encouraging their state water agencies (DWR, SWRCB) to get engaged with NAWI
- California DWR and SWRCB pledged cost share to support research and pilot systems that aligned with the goals of their agency
 - 4:1 leverage of Federal \$s
 - Many of the pilot systems fielded in 2023 will be in California
- Membership in the NAWI Alliance is FREE
 - We have more than 1,300 individuals across 340 organizations
- Encourage your water agencies to identify a NAWI champion who can engage in the program and identify valuable research partnership opportunities

For more information:



www.nawihub.org/join/