

# Aqua Membranes Closes New Investment to Advance Water Sustainability in Semiconductor Manufacturing

*Micron and Clean Energy Ventures co-led the round to accelerate energy efficiency and water filtration solutions for sustainable semiconductor production.*

ALBUQUERQUE, NEW MEXICO, UNITED STATES, April 22, 2021

/EINPresswire.com/ -- [Aqua Membranes](#), the developer of a patented 3D Printed Spacer Technology® for water filtration, announced today it has secured a new round of additional financing to apply its products to the semiconductor market. The deal is co-led by [Micron](#), a world leader in innovative memory and storage solutions, and [Clean Energy Ventures](#), a venture capital firm investing in early-stage climate tech.



Aqua Membranes' Printed Spacer Technology(R) seamlessly integrates into existing reverse osmosis (RO) systems to increase system capacity and reduce operating costs.

“Reducing the amount of energy we use to purify water and improving our ability to efficiently recycle that water after use is one of Micron’s top environmental priorities,” said Andrew Byrnes, director of Venture Capital at Micron. “Aqua Membranes’ high-efficiency filtration solution will play a critical role in our future water sustainability efforts, and we are investing to help ensure their overall success to accelerate expansion into the semiconductor and ultrapure water market.”

“

Aqua Membranes’ high-efficiency filtration solution will play a critical role in our future water sustainability efforts.”

*Andrew Byrnes, director of  
Venture Capital at Micron*

Water conservation is one of the key pillars of Micron’s sustainability goals to improve the environmental impact

of its global operations and advance innovation, people, communities and manufacturing.

Micron plans to invest approximately \$1 billion over the next five to seven years to supporting its sustainability vision and mission.

Aqua Membranes' patented 3D Printed Spacer Technology seamlessly integrates into existing reverse osmosis (RO) systems to increase system capacity and reduce operating costs. By replacing existing feed mesh spacers with a customized 3D printed resin that adheres directly to the membrane surface, Printed Spacer Technology significantly reduces pressure drop and increases membrane surface area in spiral-wound elements. This improves filtration performance and dramatically reduces energy requirements in industrial processes like semiconductor manufacturing.

"Our technology provides an enormous opportunity to reduce energy requirements for even the highest-grade of purified water and we're now seeing unprecedented demand from companies looking to proactively and meaningfully invest in their sustainability efforts," said Craig Beckman, CEO of Aqua Membranes. "The semiconductor industry is a major consumer of purified water, and we look forward to a strong partnership with Micron to improve water sustainability everywhere."

In addition to providing financing, Micron is partnering with Aqua Membranes to advance its technology for the semiconductor industry, to improve wastewater recycling and ultimately reduce energy usage in Micron's UPW production processes. The initial partnership aims to improve the effectiveness of Micron's wastewater recycling while simultaneously lowering energy use per gallon of recycled water.

#### About Aqua Membranes

Aqua Membranes is revolutionizing membrane water filtration with its unique dimensional polymer applied directly to flat sheet membranes to replace conventional extruded mesh feed spacers. This Printed Spacer Technology® is proven to significantly reduce pressure drop,



Aqua Membranes CEO Craig Beckman



**Aqua**  
**Membranes**

**PRINTED SPACER TECHNOLOGY®**

increase membrane surface area in spiral-wound elements, boost permeate flow, and reduce membrane fouling. For more information, visit [www.aquamembranes.com](http://www.aquamembranes.com)

Beth Boeh

BB Communications Group, LLC

+1 610-787-0379

[email us here](#)

Visit us on social media:

[Twitter](#)

[LinkedIn](#)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/539072651>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2021 IPD Group, Inc. All Right Reserved.