

SEAREN 



VACUUM AIR LIFT™

THE ULTIMATE MASS BALANCE PLATFORM



A Triple Bottom Line
Opportunity

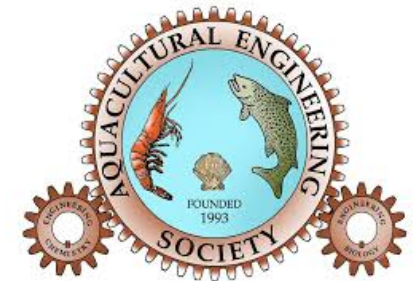
**SEAREN offers
patented filtration
technology
named VAL
designed for RAS
fish farming**



**Award winning
technology**



**CleanTech
REPUBLIC**



Value Proposition

Searen's multifunctional VAL™ provides superior water quality, higher yields and sustainable operation at lower capital and operating costs.

Only VAL™ creates clean, oxygenated water in a single device, producing healthier fish and higher yields, It combines simplicity, durability, reliability, and uptime to cut both CAPEX + OPEX

“VAL™ has run perfectly for 5 years. We've never had such clean water before. We've significantly increased our survival rate.”

Christophe Rivaud – Fish Hatchery General Manager



VAL awarded

Solar Impulse Efficient Solution Label

- Sustainable Aquaculture, a water treatment solution utilizing Searen's VAL™, was awarded in February 2021 the “[Solar Impulse Efficient Solution](#)” Label
- Assessed by a pool of independent experts on:
 1. Feasibility
 2. Environmental Benefits
 3. Profitability
- VAL™ is now part of the [#1000 Solutions Portfolio](#)
 - Presented to decision-makers in business and government by Bertrand Piccard, Chairman of the [Solar Impulse Foundation](#) to encourage the adoption of more ambitious environmental targets and fast-track the implementation of profitable and sustainable a large scale solutions.



ENVIRONMENTAL BENEFITS



01/No Chemical Additives

VAL™ utilizes a purely physical process. It does not require chemical additives.



02/Improves Facility Atmosphere

Stripped gas can be captured or released outside, reducing the need for ventilation and the impact of processing facilities.



03/Captures Extracted Waste

VAL™ captures and contains extracted wastes.



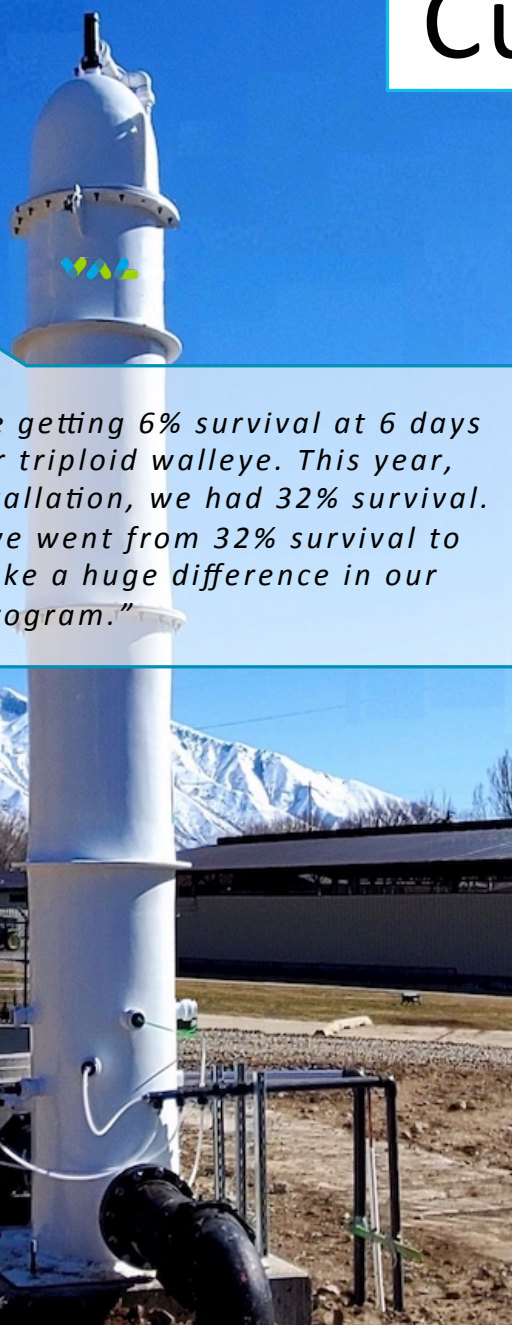
04/Lower Energy Consumption

High efficiency and minimized auxiliary equipment lowers energy consumption, maintenance, discharge, and reduces environmental footprint.

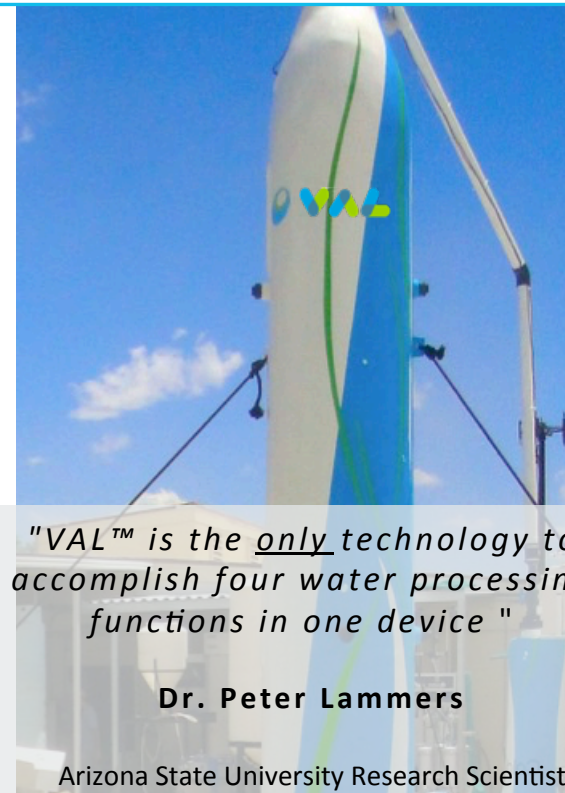




Customer Testimonials

A tall, white, cylindrical VAL unit stands in an open field. In the background, there are snow-capped mountains under a clear blue sky. The unit has a logo on its upper section.


"Pre VAL we were getting 6% survival at 6 days post hatch on our triploid walleye. This year, after the VAL installation, we had 32% survival. On our diploids we went from 32% survival to 84%. This will make a huge difference in our sterile walleye program."

A tall, white, cylindrical VAL unit is being hoisted by a crane. The unit is suspended by several cables. The background shows a clear blue sky with some clouds.

"VAL™ is the only technology to accomplish four water processing functions in one device"

Dr. Peter Lammers

Arizona State University Research Scientist

Two tall, white, cylindrical VAL units are installed in an outdoor facility. They are connected to a network of black pipes. The units have the VAL logo on their upper sections.

"Switching from standard equipment to VAL™ gave us higher water quality and uses 8 times less energy"

Guy Sanchez, G.M.

Major Oyster Producer



100+ VALs have been installed in 40+ locations



Searen

Latest references in RAS segment*

*Many other references in shellfish depuration, micro-algae production, municipal, industrial and Oil & gas segments

Name	Location	Species	Year	Number of VALs	Function
SAFE	Florida	Tilapia	2021	16 (WIP)	Circulation, degassing, oxygenation & skimming
TransparentSea	California	Shrimp	2021	2 (WIP)	Skimming, degassing & oxygenation
DeepWater Farms	Alberta	Stripped bass	2021	1 (WIP)	Skimming
BIGH	Belgium	Trout	2021	2	Circulation, degassing, oxygenation & skimming
Local Coho	New York	Coho	2020	2	Skimming
State Hatchery	Utah	Walleye	2020	1	Degassing
IFREMER	France	Sea Bass	2020	11	Circulation, degassing, oxygenation, skimming & pathogens extraction
Acipencer	Madagascar	Sturgeon	2020	1	Water polishing & Off-flavors removal
ZHWA	Swiss	Salmon	2020	1	Skimming
Estalens	France	Trout	2020	1	Circulation, degassing, oxygenation & skimming

INTRODUCING



SEAREN CEO EMMANUEL BRIQUET

- Created Provence Aquaculture in 1989, the world's first organic-certified fish farm.
- In 2005, founded Corse Aquaculture, an organic-certified fish farm in Corsica.
- Recognized expert in sustainable aquaculture as current/former member of:
 - French Department Of Agriculture's Organic Aquaculture Working Group
 - OrAqua (official EU working group)
 - European Commission on Organic Aquaculture working group
 - USDA's Organic Aquaculture Task Force.
 - UNIDO – expert in sustainable seafood production
- In 2014, Searen LLC received an exclusive license from Coldep the Americas.
- 2015 Ocean Accelerator + Confluence “W” prize. Began Searen aquaculture operations.
- Winner of the 2017 Pipeline H2O award for groundbreaking water technologies
- Awarded Solar Impulse award for performance and profitability



CONFLUENCE
WATER TECHNOLOGY INNOVATION CLUSTER
OHIO RIVER VALLEY REGION



PIPELINE

Emmanuel has been interviewed extensively by the world's news media:

FOUNDING TEAM – Today's Staff

THOMAS ANDREWS



CTO



VP Engineering

Defense Industry



MSME Mechanical

Engineering - Cal. State

EMMANUEL BRIQUET



CEO



27 Years

Entrepreneurial
Experience



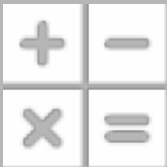
United Nations

Aquaculture
Industry Expert

JOHN BROOKS



CFO



Controller

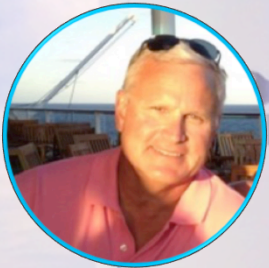
\$25m+
Corporation



MBA

University of
Minnesota

SEAREN – BOARD OF ADVISORS



Tom Browning

Angel Investor

39 years in CPG with startups
and Blue-Chip Fortune 100

University of New Mexico



Richard Cropper

Angel Investor

35 years in corporate and
municipal finance and banking

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Co-founder

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Additive, Vertex
Manufacturing

Dickinson College



Antony Seppi

Executive Director

HCDC , Pipeline H2O,
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Hamilton, AXA

Wake Forest/ U Cincinnati



John Spencer

Senior VP, DMB&B,

Co-founder CoMADE, Planet
Feedback, Unicast

New York University

Aquaculture is the future of food

RAS is the future of aquaculture

VAL is the future of RAS!





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www.searen.com



AES Best Reviews



CONFLUENCE
WATER TECHNOLOGY INNOVATION CLUSTER
OHIO RIVER VALLEY REGION

2017 « W » Prize Winner



PIPELINE

Class 2017 Winner