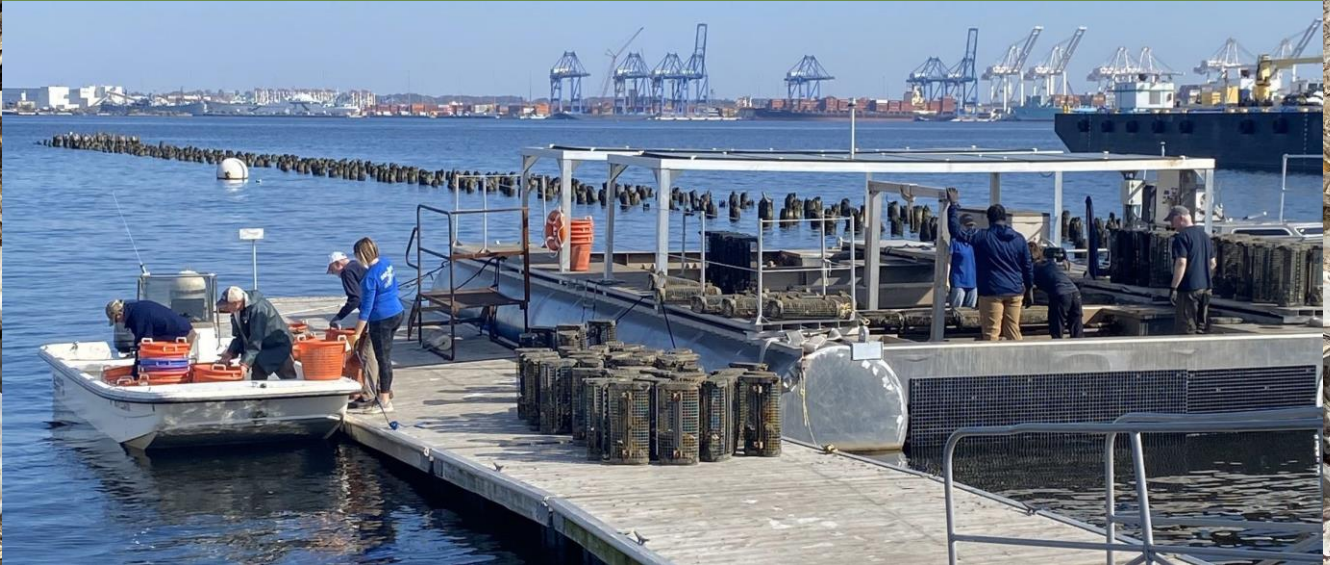


[View this email in your browser](#)



Greetings and Happy Earth Day from Solar Oysters!

Earth day is an annual event that marks the anniversary of the birth of the modern environmental movement and sparks support for environmental protection. This year's theme is *invest in our planet*.

Solar Oysters is a company that invests in innovative aquaculture technology that will help restore and protect the environment by improving water quality and replenishing oyster populations.

SOPS Available!!!

SOPS can be purchased and customized, contact us!

Initial discussions are occurring with potential SOPS customers. The Solar Oysters Team looks forward to working with those interested in acquiring a SOPS platform. For inquiries, please contact Steve Pattison, Business Manager, at steve@solaroysters.com or 410-493-8645.



Growth

SOPS has successfully grown oysters to market sizes at rates similar to or exceeding traditional aquaculture techniques with a much higher survival.



Technology

Additional technological improvements to the prototype have been identified to implement on current and future systems.



Size

Ideal shell height, width, and depth have been achieved.

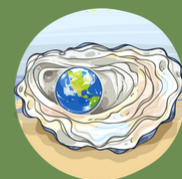


Feedback

Valuable feedback from oyster aquaculture farmers, oyster restoration advocacy groups, regulatory officials, and academia has contributed to further development of the technology.



1970 1st Earth Day was organized



Gearing Up for SOPS Second Growing Season

After a successful 2022 growing season, Solar Oysters is gearing up to continue their efforts in the 2023 growing season with both spat-on-shell and seed.

SPAT-ON-SHELL 2023

- Onboarded in Nov. 2022 with Chesapeake Bay Foundation
- 290 spat-on-shell cages (167 cage increase from 2022) = more oysters towards restoration at Fort Carroll!
- Dense set: 14 spat per shell

SEED

- Continued growth of 4,000 seed from 2022
- Onboarding 65,000 seed at 6mm size in late April/early May



Both spat-on-shell and single seed oysters will be subject to new ladder rotational speeds. We will be testing two new rotational patterns in attempts to find the optimal rotational speed for oyster growth. Regular sampling for water parameters and oyster growth will occur throughout the season. An initial sampling will be conducted in April before ladder rotation begins. Additionally, SOPS Technician will track energy usage and labor inputs for SOPS.



Creation of EPA & other
first of their kind
environmental laws

1970

Chesapeake Oyster Innovation Award project – Spray Wash System Progress

Solar Oysters was recently awarded funding by the Chesapeake Bay Trust and Chesapeake Oyster Alliance's Chesapeake Oyster Innovation Award program. This award will partially fund the build and test of a single semi-automated spray wash bar system. The spray bar will be mounted ovetop of a SOPS ladder to allow oyster cages to be washed in a shorter time frame, minimizing the labor associated with biofouling mitigation. While ladder rotation has shown positive results in biofouling mitigation, we believe the addition of the spray bar will further improve this advantage of the technology.

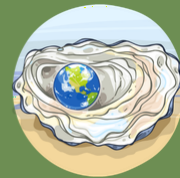


Chesapeake
OYSTER ALLIANCE
10 Billion for the Bay



1990

Earth Day goes global lifting
environmental issues onto
the world stage.



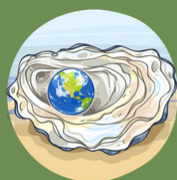
Outreach Activities: Aquaculture America 2023 & 115th Annual NSA Meeting

Engaging our stakeholders in meaningful relationships is important to the success of Solar Oysters. So far this year we have given presentations at the Aquaculture America 2023 conference in New Orleans and the 115th Annual Meeting of the

National [Shellfisheries](#) Association in Baltimore. As part of the National Shellfisheries Association meeting, we provided a tour of SOPS to interested attendees (see below)



We look forward to future opportunities to engage with and inform those interested in Solar Oysters' activities and accomplishments.



Earth Day is recognized as
the largest secular
observance in the world

TODAY

Marketing: Website Updates, New Instagram, New YouTube channel and Factsheet

In the first quarter of 2023, Solar Oysters made great progress in bolstering our marketing efforts. We have made updates to our website and started a Solar Oysters Instagram and YouTube channel. Talking about Solar Oysters and the SOPS is good but sharing images and videos of the technology in action is needed to get people excited and interested. We have also developed a SOPS factsheet that can be downloaded from our website. Check out our website and social medias using the links below.



Fact on the Half Shell



The oysters in the Chesapeake Bay could once filter a volume of water equal to that of the entire Bay (about 19 trillion gallons) in a week. Today, it would take the remaining Bay oysters more than a year.
(Source: cbf.org)

Thank You to Our Partners!

[The Abell Foundation](#)

[Chesapeake Bay Foundation](#)

[Chesapeake Oyster Alliance](#)

[F3 Tech Accelerator Program](#)

[University of MD Center for Environmental Science's Chesapeake Biological Laboratory, Maryland Industrial Partnerships \(MIPS\)](#)

[UMBC ICARE Program](#)





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