

# Anti-Fouling Coating for Hydropower Cost Reduction



## Impact

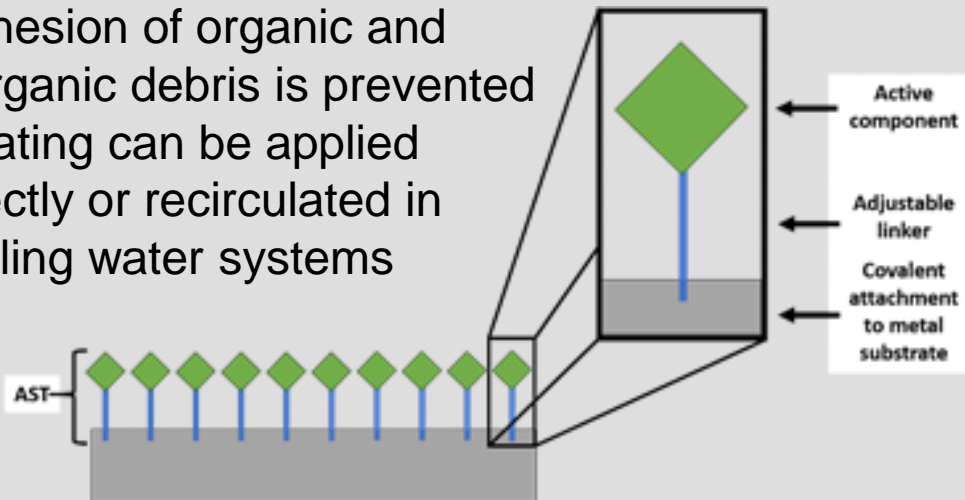
- Hydropower is a critical source of renewable energy storage but has high energy costs
- Bio-fouling due to mussels and other organisms lowers efficiency and increases maintenance costs



Quagga mussels have spread to waterways across U.S.

## Innovation

- Interphase Materials has developed an anti-fouling coating called THERMOPHASE
- Adhesion of organic and inorganic debris is prevented
- Coating can be applied directly or recirculated in cooling water systems



## Feasibility

- Ability to prevent bio-fouling from mussels has been demonstrated
- Coating is durable and non-toxic
- THERMOPHASE has been successfully used to improve heat exchanger efficiency in HVAC and power generation applications

