



**Caribbean Water
Resources
Summit**

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Technical Speaker

Mark Mathis

BlueCarbon Energy and Blue Water Collection Authority

Mark Mathis is an environmental systems entrepreneur and founder of BlueCarbon Energy (BCE) and the Blue Water Collection Authority (BWCA) in Puerto Rico. A graduate of the University of Minnesota Duluth, Mark focuses on practical, deployable solutions that turn coastal waste and nuisance biomass into infrastructure assets.

He previously led what became the largest pine beetle biochar project in North America, demonstrating how invasive biomass can be converted into stable carbon, usable energy, and high value marketable products at commercial scale. That experience now informs his work addressing sargassum and plastic waste impacts across Caribbean shorelines.

Mark's current work integrates proven technologies—nearshore interception, dewatering, thermal conversion, and materials processing—into a modular system designed to prevent sargassum from reaching beaches, reduce cleanup burdens, and convert collected material into biochar, renewable energy, biostimulants, and composite building materials. His approach emphasizes infrastructure that is economically self-sustaining rather than dependent on perpetual cleanup funding.

He works closely with municipalities, researchers, and federal stakeholders to frame coastal sargassum not as a disposal problem, but as an opportunity to deploy scalable, carbon-negative shoreline protection infrastructure using existing technology and practical engineering.