

OVERVIEW OF SUSTAINABLE MARINE AQUACULTURE SYSTEMS ENGINEERING PROJECTS WITH EMPHASIS ON BIOFILTRATION.

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An overview of past and current projects conducted by the engineering unit of the SMAS project will be presented. The emphasis of the overview will be on system designs and component evaluations. Results to be presented include nitrification rates of moving bed bioreactors and propeller-washed bead filters at various feed loading rates, nitrification rates of various media in both moving bead and propeller-washed bead filters. Solid removal rates of propeller-washed bead filters, micro-screen drum filters, and swirl separators will also be presented.