ORE SEMINAR
since 1966
OCEAN AND RESOURCES ENGINEERING
IN THE SCHOOL OF OCEAN AND EARTH SCIENCE AND TECHNOLOGY AT THE UNIVERSITY OF HAWAI'I AT MĀNOA

Kahului Infrastructure Improvement Project Part 2: Feasibility Study of the Coastal Design

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Wednesday, December 11, 2024
3:30 pm - 4:30 pm
Holmes Hall 243
Meeting ID: 963 5962 3640
Passcode: OREseminar
https://hawaii.zoom.us/j/96359623640

Abstract

Students in the ORE 783 Capstone class are addressing the Kahului Harbor infrastructure improvement project, focusing on supporting Maui's only deep-water port as it transitions to meet future demands. The project objectives are to evaluate the technical, economic, and regulatory feasibility of: (1) retrofitting the harbor's breakwater, seawall, and pier to accommodate increased container throughput and (2) developing an offshore wind farm to replace the retiring Kahului Power Plant by 2045, aligning with Hawaii's renewable energy goals. The first presentation will focus on site background, design parameters, and feasibility studies for proposed coastal designs, including a new ship basin, breakwater extension, and revetment retrofits. The second presentation, scheduled for December 11, will cover the design of an offshore wind farm, environmental monitoring systems, construction sequencing, cost estimates, and permitting.