

# **STUDY TO DETERMINE SEA WAVE ENERGY IN THE SOUTH CENTRAL COAST**

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## **ABSTRACT**

Wave energy is a form of renewable energy that relies on using energy from the periodic oscillation of waves to generate electricity. Renewable energy from waves is considered to be a clean energy source and hardly degrades the environment. According to a study by the Vietnam Administration of Sea and Islands in 2019, the total annual wave energy capacity across the entire coastal strip of Vietnam meets 90% of Vietnam's electricity consumption in the same period. The South Central Coast is determined to be the place with the largest wave energy reserve in the entire coastal area of Vietnam. In this paper, the authors applied the Mike 21 SW model to calculate specific wave parameters and determine wave energy in the South Central Coast according to two prevailing monsoon seasons. The calculation results show that the sea area of Binh Thuan province has the largest sea wave energy in the study area.

***Keywords:*** *Wave Energy, Wave Power, MIKE, Nam Trung Bo.*