

عنوان مقاله:

Design and Analysis of Coastal Structures: A Case Study of the EcoWave Structure

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خلاصه مقاله:

In recent decades, due to the growth of global energy demands and environmental concerns, attention to the design and implementation of sustainable coastal structures for sustainable energy generation has increased. One notable example of such sustainable coastal structures is the EcoWave structure, which utilizes advanced technologies and appropriate construction materials to harness energy from wind and solar sources while addressing environmental management. In this article, we delve into the technical details and conduct a thorough analysis of this structure. Considering the specifications of construction materials such as corrosion-resistant steel and polymer foam composites, as well as energy technologies including wind turbines and solar panels, structural stability, and environmental management, we provide a comprehensive analysis of the capabilities and efficiency of this structure. The results of this study indicate that the EcoWave structure, employing innovative methods and sustainable energy sources, can be a valuable option for energy provision and environmental preservation.

کلمات کلیدی:

Coastal Structure, Sustainable Energy, Environmental Management, EcoWave, Innovative Construction Materials

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