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## **Energy Harvesting in Water Wave: The Review**

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Abstract: With regards to small communities living in remote locations, particularly on the islands, there is limited amount of electricity available as they are not connected to the main power grid. As such, the energy demand is high and to cater for this there is a need to source out alternative ways of harnessing power to meet the demand. A wave energy generation devise is needed as it may provide sufficient power to cater for the local communities. There are several mechanism that are available that has gone into production to generate electricity. This project will focus on using the rack and pinion mechanism particularly. The design will be specifically made to operate on the near shore where the waves are relatively high but not high enough that it may cause damage to the device. The main objective of the device would be to generate electricity using the forces from the oncoming waves. This is the prototype model and if further research is carried out, this model has the potential to be used commercially

Keywords: Water Wave, Energy Harvesting, Power Generation etc

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