

DM2009 Project Summary

Project Number: 4949 Booth Number: 91

Wave Energy Converter to Mitigate Ocean-Wave Damage and Beach Erosion

COUNTRY: Dominican Republic

ORGANIZATION: Universidad Nacional Pedro Henrique Ureña (UNPHU)

FUNDING REQUEST: \$198,215

OBJECTIVE: To utilize an innovative wave energy converter (WEC) technology in a selected coastal community beach or infrastructure at risk of being hit by waves during storms, in order to determine its effectiveness in lowering the power of waves reaching the coast.

RATIONALE: Island countries in the Caribbean and other tropical regions have many small communities and key infrastructure, such as roads, bridges, and ports, that are positioned close to or on the beach or waterfront, and are thus very exposed to storm surges and high waves. The Municipality of Paraiso in Barahona province has many of such communities.

INNOVATION: The innovative dimensions of the project include promoting and introducing new wave energy conversion technologies to mitigate the impacts of waves on communities, beaches, and key infrastructure caused by rising seas and stronger and more frequent storms and hurricanes, and introducing the generation and distribution of electric power based on ocean-renewable resources.

CONTACT: Moises Alvarez
moisesal.c21@gmail.com