

Title of case study	Wave Energy Converter
Name of organization(s)	Nova Oceanic Energy Systems Inc.
Business sector	Energy and Utilities
Region(s) relevant to case study	<input type="checkbox"/> All regions <input type="checkbox"/> Africa and the Arab States <input type="checkbox"/> Asia and the Pacific <input checked="" type="checkbox"/> Caribbean and Central America <input type="checkbox"/> Europe <input type="checkbox"/> Least Developed Countries <input type="checkbox"/> North America <input type="checkbox"/> Polar regions <input checked="" type="checkbox"/> Small Island Developing States <input type="checkbox"/> South America
Country(s) relevant to case study	Dominican Republic and other Caribbean States
Adaptation sector(s) relevant to case study	<input type="checkbox"/> Business <input type="checkbox"/> Education and training <input type="checkbox"/> Food security, agriculture, forestry and fisheries <input type="checkbox"/> Human health <input checked="" type="checkbox"/> Oceans and coastal areas <input checked="" type="checkbox"/> Science, assessment, monitoring and early warning <input type="checkbox"/> Terrestrial ecosystems <input type="checkbox"/> Tourism <input checked="" type="checkbox"/> Transport, infrastructure and human settlements <input type="checkbox"/> Water resources <input checked="" type="checkbox"/> Other (please specify): Renewable energy
Adaptation activity	The development of near shore wave energy converters that act in the same way as submerged breakwaters in reducing coastal erosion in island states and tropical regions, while simultaneously converting absorbed wave energy in distributed clean power generation for desalination and electric power. Nova Oceanic Energy Systems Inc, in partnership with a number of other organisations, has started to introduce this technology in a

	<p>number of Caribbean States, to evaluate its use for both adapting to and mitigating climate change in rural coastal communities.</p> <p>Coasts are experiencing the adverse consequences of hazards related to climate and sea level, and are highly vulnerable to extreme events, such as storms which impose substantial costs on coastal societies. This technology is particularly suitable for tropical regions, which are particularly vulnerable to these threats and also often lack to resources to adequately protect coastal communities. The distributed power generation and production of desalinized sea water would contribute to poverty reduction through the creation of new productive opportunities especially in arid communities or coastal communities far from drinking water sources.</p> <p>Also, the possibility of rehabilitation of beaches forbidden for public use (for example, in the communities of the Barahona Province, Dominican Republic) will have a major impact in communities' ability and capacity of income generation due to national and international beach tourism.</p> <p>Another aim of the project was to help provide predictive data on wave heights and strengths 2-3 days in advance of their arrival, allowing communities to make suitable preparations.</p>
<p>Cost-benefit</p>	<p>While still an emergent technology, it has been shown to be an effective solution in reducing coastal impacts while also being potentially very profitable. A number of businesses in the Dominican Republic and neighbouring states have expressed an interest in deploying the technology commercially.</p>
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