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**Project Abstract**

**Microflo Wave Energy Converter**

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# Project Abstract

Providing clean and affordable power to remote coastal communities is often a challenge due to the high upfront implementation costs and intermittent generating abilities of existing renewables such as wind and solar. At Microflo, we believe the next step in renewable energy lies in the abundant and reliable power source of ocean waves. Our small-scale wave energy converter design utilizes this source at a fraction of the expense of commercial-scale competitors. As surface waves cause the device to bob and tilt, an internal hydraulic system captures the kinetic energy and feeds it directly to an onshore generator, producing inexpensive and eco-friendly power for coastal residents. Although our current physical prototype serves only as a proof of concept, this project demonstrates that smaller-scale alternatives show a promising future in renewable energy.