

WAVE ROLLER

INTRODUCTION

The Wave Roller is a unique and patented technology that captures and converts wave surge energy into electrical power. It provides about seven times more nominal power generating capacity than a wind turbine in a similar sized area.

TARGET IMPACTS

- ✓ Efficient energy production
- ✓ Reduction of carbon emissions / Environmental sustainability
- ✓ Cost-effectiveness
- ✓ Technical Innovation
- ✓ Job creation and community skills development

MACRO BACKGROUND



With a population of 950 million people, Sub-Saharan Africa contains the highest rates of electrical poverty in the world. Most of the energy consumed in the majority of Sub-Saharan African countries is from biomass, due to a lack of electricity consumption and electricity network coverage.



The International Energy Agency (IEA) estimates that the total demand for electricity in Sub-Saharan Africa will increase at an average rate of 4% per year until 2040.



Sub-Saharan Africa has an estimated potential of 5–10 kWh/m of wave energy, on average.



The best prospects for wave power development are in southern Africa, around the coast of South Africa and from southern Mozambique up to Namibia.

ABOUT IMPACT TANK



- We are Namibia's first social impact venture builder, founded in 2020.
- This project focuses on 1 thematic area: Blue Economy
- We aim to impact the lives of thousands of Namibians and inspire further action by the market.
- Visit www.impacttank.org.na

