WaveRoller® transforms ocean waves into electricity

https://youtu.be/-Z94liCl9pl
AW-Energy, Finland, Since 2003
Coherent Development & Significant milestones

2014
Grid connected sea trials
Performance verified by DNV GL

2015
Full scale PTO test facility

2016
Technology qualified
Company ISO 9001

2016
EiB financing through InnovFin programme

2018
Lloyd’s Register certified design and manufacture

2019
WaveRoller awarded Solar Impulse Label = both ecological & profitable
WaveRoller assembled and deployed
Bankable insurance criteria met
Sea Trials, Demonstration Unit 2012-14
In Peniche, Portugal
WaveRoller Test Facility for PTO
WaveRoller First-Of-A-Kind Manufacturing
Panel and PTO transportation to Portugal
Panel and PTO Unloading in Peniche

WAVEROLLER Sneak Peek
Final Assembly in Peniche
Final Assembly in Peniche
Shore Substation in Peniche
Installation in Peniche
Installation in Peniche
Working Together, Time for a Toast
Grid Connected, Commissioning

Optimise settings & power performance
Artificial Reef Created by the Foundation
Low Visual Impact
Validation of power performance

Endorsement of TQ plan

Technology Qualification certificate

ISO 9001

Design appraisal certificate

Manufacturing certificate

Third Party Validation

Third Party Certification

Efficient Insurance

Efficient Finance

Met criteria for Business Interruption Insurance 5/2019
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<th>Global Patents Granted/Pending</th>
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<td>Global Trademarks</td>
<td>WaveRoller®</td>
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MegaRoller - Project

- EU funded Horizon 2020 – project
- Designing, building and testing the Power-Take-Off of the first megawatt-level Oscillating Wave Surge Converter

In-Kind contributions:
- University of Bergen
- Leibniz-Institut für Neurobiologie Niasburg
- Lancaster University
- VTT
- SINTEF
- WavEC

Research institutes:
- Hydroll
- HYDMAN

SME:
- AW-Energy Waveroller
- K2 Management

Large enterprise:
- ABB

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YES WE CAN!

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WAVE ENERGY IS OUT-OF-PHASE WITH WIND AND SOLAR

This example from California shows how the energy in waves increases during the winter months as wind and solar power production decreases.
Total theoretical wave energy potential:
32 000 TWh / year

Wave energy potential at US coast is 64% of 2018 electricity generation

Several sites under development ~65MW
Customer financed studies & development
Many other projects in discussion globally

Global Opportunity - let’s do it!