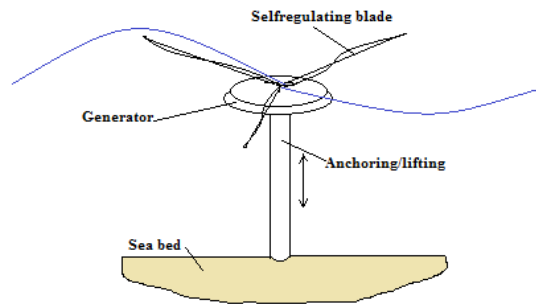


ON A LOOKOUT FOR PARTNERS FOR DEVELOPMENT OF TURBINE FOR WAVE POWER PLANTS

World population is growing. Energy consumption per capita is increasing. Renewable energy demand is growing also as a result of climate change.

One of the renewable energy sources is wave energy. We believe that hydrokinetic turbines with a vertical axis are the most perspective wave energy converters (Please see illustration below).



Turbine's operation scheme

We have conducted laboratory tests of such a turbine model and have obtained the results of *TRL4* (Trail readiness level 4). The results show there is great potential of developing efficient energy generation device. Therefore, this project aims to develop a turbine up to *TRL9* to prepare a new device for the mass production phase of wave power plant equipment.

Next steps of the development consist of the following main tasks:

- elaboration of the self-regulating blade mechanism (functionality, design, material);
- elaboration of electric generator and base/work height adjustment equipment.

With *TRL9* we plan to enter the stage of a production-ready, profit generating wave power technology.

For the implementation of the project, a calendar plan with a binding budget has been prepared. Technical personnel/outourcing of the project has been identified.

We are looking for financial partners to implement this project.

Project chaired by Dr.sc.ing. Jānis Beriņš and co-author of the project Mg. Juris Beriņš

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