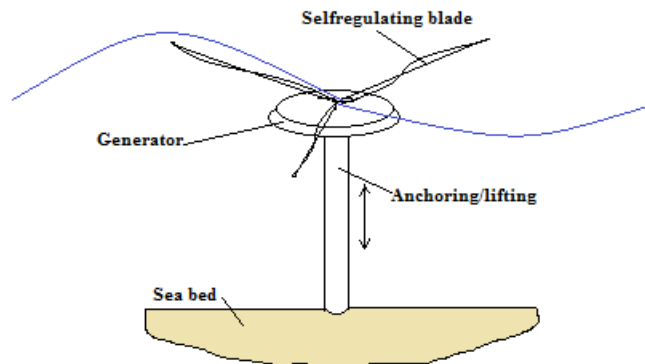


ON A LOOKOUT FOR PARTNERS FOR WAVE POWER PLANT TURBINE DEVELOPMENT

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

One of the renewable energy sources is wave energy. We believe, that hydro-kinetic turbines (*ASRBHK*) with a vertical axis (please see illustration below) are the most perspective wave energy converters.



Turbine's operation scheme.

We have conducted laboratory tests of such a turbine model and have obtained the results of *TRL4* (trial 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 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 seven-year calendar plan with a binding budget has been prepared. We are looking for partners to implement it.

The plan includes:

- installing a laboratory (building has been purchased)
- production, tests and analysis of turbine *TRL5*
- manufacture of turbine *TRL6* model
- tests and analysis
- production of turbine *TRL7* prototype, offshore tests and analysis
- production and tests of three different diameters *TRL8* at sea and *TRL9* trials

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

More details: www.aplacetoinvest.com

@ALLRIGHT RECEIVED