

SUMMARY

SEABREATH SRL 130 feet PROTOTYPE

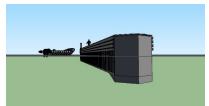








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INTRODUCTION

Seabreath wave energy is a new high efficiency technology producing energy from the sea

It represents the evolution and optimisation of the OWC (oscillating water column) family of wave energy converters with approximately double efficiency. The OWC over the years has ensured higher reliability and production levels and attracted more than half of the studies in the entire wave energy industry. It is a significant and innovative step forward in the state of the art and can make this source a reality, thanks to low costs, efficiency, unprecedented production levels and reliability under adverse conditions

In addition to this project already in TRL6, we are looking for collaborations or interested in developing our new ideas for a smart anchorage, for a low-cost modular structure for offshore wind, for a new umbelican, for a modular lattice and tubular structure, for a new swing-stop and more related to marine energy

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HISTORY

- 2008 after decades of studies, seabreath was granted an Italian industrial patent
- 2008 it was european patent for three years an for 15 years Italian patent.
- 2009 it was tested in the laboratories of the University of Padua, was successfully presented at several international conferences in the field and it was the subject of different thesis
- 2010 seabreath was in exposition at the Italian Pavilion Shanghai Expo
- 2011 silver medal at the IV International Fair of the Inventions of the Middle East Kuwait City
- 2012 Confindustria Lamarck SMAU Award
- 2012 second place at the International Marevivo competition
- 2012 to 2024 Seabreath had, and continues to have, several international experiences, collaborations and expositions in fairs like Ecomondo, Key Energy and Pollutec



PROBLEM DETECTED

The other wave energy solution are **up to 5 times more expensive** than other energy sources,, with higher risks and more manutention which makes wave energy uncompetitive and therefore difficult to commercialise.

SOLUTION

EFFICIENCY

Compared to other devices, the difference is the high efficiency and production level. The efficiency is about double that of other OWC systems

LOW COSTS

The system is designed to have minimal implementation, transport, installation and maintenance costs

VERSATILITY

high versatility of construction, shipping, assembly, installation and sizing according to the chosen site with very low costs

COAST PROTECTION

the device has Break-Water functions against the coast erosion

CREATION OF USABLE SPACE

The next scale realisations will look like a floating pier that can be used for different types of activities

ENVIRONMENTAL SUSTAINABILITY

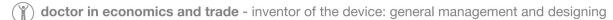
The production of energy from renewable sources, the use of recycled or recyclable and non-polluting materials, the protection of the coastline and the repopulation function of the installation area for flora and fauna, and environmental sustainability are all aspects of this project. The environmental impact is almost zero, if not positive

SURVIVOL TO EXTREME CONTITIONS

The device has an emergency system, a very robust structure and is designed to withstand 30-metre waves



TEAM



mechanical engineer - inventor, scientist: design and technical direction

naval engineer - designer, tester: designing

industrial engineer - expert in green economy: research materials, market and logistics

electronic engineer - electrical an electronic design

(designer - graphic and industrial design

specialized technicians - support for technical realizations

collaborations
design companies special marine constructions: overhaul, anchorage and technical advice design center and research on renewable sources: electrical and electronic design

LOGISTICS

A commercial, administrative and R&D representative office will be located in Venice, 200 metres from the centre, in a dock with a park, many other facilities and where another wave energy converter was tested years ago.

Our main technical partner is very close and reachable by sea.

The production site will be located in Mestre, where there is a supply of unused facilities. The registered office is located in Parma

MARKET AND TRACTION

The target market is worldwide and clearly large. Possible main customers are: public administrations, energy companies, oil platforms, private individuals located along the coast, especially if they are far from the grid and supply sources.

A possible demand for the devices could come from the Colombian government of Nariño, where there is a long stretch of coastline with an ideal wave 24 hours a day for 12 months and where there is a power generation problem for the local population. Years ago, the design of the prototype was about to start with the collaboration of the University of Narino and other Italian universities, interested in providing renewable energy in the Tumaco area.

Another interesting traction could be the Indian state Government of West Bengal, which has expressed interest in the project because of the problem of clean energy and coastal erosion, and with which there have been contacts in person with the Reseach Centre in Kolkata.



TIMING AND FINANCIAL PLAN

The funds for the construction of the 30-metre prototype on a 1:1 scale are estimated at EUR 1 million for a period of 17 months, as per the Gantt below:



- Amounts can be disbursed monthly
- There are frequent public tenders for the sector that provide funding even up to 100% of the research costs incurred
- Current legislation provides for an unconditional tax deduction of 50% of the costs incurred in the R&D phase
- Engineers and special collaborators participating in the project will receive an incentive and a supplement of their remuneration in shares totalling 4% of the share; 5% is reserved for a private investor.

Financial projection scenarios after 4 years:





BUSINESS MODEL

At the end of all experiments and approvals, it will be possible to have revenues from the sale, installation and maintenance of the devices even with a franchising strategy, as it is necessary to have a partner close to the installation site.

A further source of revenue, given the vastness of the market and the impossibility of covering all future demand, may be the commercialisation of technologies that can significantly lower the pay back period.

There will be the possibility of other revenues for ship maintenance carried out for a dock of 300 berths and for a part of Venice that lacks this service.

RISKS MANAGEMENT

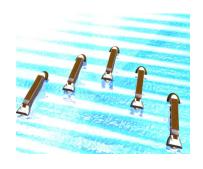
IT and general security will be improved.

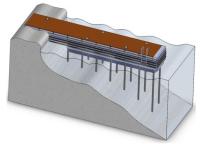
EXIT

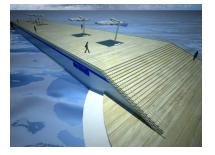
The shareholder who no longer wants to be part of Seabreath can offer his share, in pre-emption and at the same acquisition price, to other shareholders or to the company (which will no longer have to bear any extraordinary and unnecessary costs to raise the necessary resources), or can go to the market without any restrictions.

M&A proposals will be evaluated as well as other exit options

ADDITIONAL POSSIBLE FUTURE DEVELOPMENTS







- Factories of multiple devices
- Long-size devices
- Fixed devices connected to the coast (piers)
- Large industrial type oceanic device
- Non-anchored oceanic devices for **hydrogen** production



JUMP INTO SEABREATH SRL

- We share 30% of the social share against a financing of EUR 1M, as shown in the table above,
- If the transfer is not in one lump sum, the amounts can also be paid monthly, revalued on steel quotation.
- A second round of fundraising will take place after the tests, for another 10% of our shares with pro-rata right, to finance the start-up of all activities related to the production and commercialisation of the products and technology.

On the website you can find: a presentation, a video, a Business Plan (not updated), reports from the University of Padua study, abstracts of some conferences, information on wave energy and publications.

In Deep:
Publications
Documents

Awards Wave energy

Thank you

confidential document

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