

Team
FINLAND

A trade policy and trade promotion perspective to blue and renewables

PORTUGAL AND FINLAND

BLUE + RENEWABLE TOMORROW

Delivering growth through collaboration between Finland and Portugal

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Common goals with regard to environmental protection and Green Growth

- Paris Agreement on Climate Change
- Agenda 2030 – Sustainable Development Goals
- Economic and Trade interests
- R&D, strengthening the technological know how
- Commercializing the innovations
- Promoting the products and finding markets

The Finnish Maritime Cluster: towards the 2020s

- Programme run by the Ministry of Economic Affairs and Employment
- Coordination and funding: Finnish Maritime Society and other actors
- Carried out: University of Turku and other institutions
- Study covered 1500 limited companies (out of 3000)
- 2014 total turnover: c.a. EUR 12.7 Billion
- 48,400 employed
- Added value generated: limited companies 1500
- “Greeninig” through clean tech, digitalisation and software

The Finnish maritime Cluster: towards the 2020s – Offshore renewable energy production

Off shore wind parks:

- in Europe in use/under construction in Europe
11.000 MW (UK, DE, DK, BE)
- Providing transport: **Meriaura**
- Building vessels: **Mobimar**
- Manufacturing components: **Moventas, ABB, Vacon**
- Building cables: **Prysmian Cables and Systems**
- Building a wind park: **Suomen hyötytuuli (Pori)**

Wave energy (developing in process):

- Closer to shore: system by **AW-Energy**
- Off shore: floating system by **Wellon Penguin**
- Co-financing of other solutions

Examples environmentally friendly innovations

More efficient and cleaner energy

- Shaft generation system (axel driven generation) by **WE tech Solutions**
 - Already over 30 orders in 2016
 - Example of ecosystem based activity
 - (**The Switch**: generator, **Danfoss Drives**: frequency transformation, **VEO**: control cabinet)

Wärtsilä

- Exhaust gas (NOx, Sox, CO and VOC) cleaning solutions like sulphur scrubbers
- Gas engines
- Dual fuel engines
- Battery technology
- Ballast water systems
- Energy use optimizing hard and soft ware

Operating environment 1

- Building enabling ecosystems
- smart regulatory policy
- providing test bed possibilities for new technologies
- providing experimental environments for new business models
- providing R&D with a foresight focus

Operating environment 2

Promoting export

Maritime and Offshore from Finland

- One of Growth programs of Team Finland
- Advising on internationalization and identifying market opportunities
- Networking and cooperation among companies
- Providing financing for technological development and exporting
- Developing business models
- Assisting in marketing and visibility

Operating environment 3

Providing market access

- Environmental Goods Agreement (EGA) and other trade agreements
 - Facilitating trade in environmental technologies and solutions
 - Reaching out to gain critical support (Brazil, Lusophone Africa)

Thank you!

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