The Baltic Sea – a favorable place for offshore wind power(?,!)





MSc civil engineering, MBA

Construction and construction industry, mining, energy industries, IT

Estonian long-term energy plan 2030

Regional investment agency to develop the business environment, create new businesses and attract investments

Co-founder Cleantech ForEst

Promotor of Estonian 500MW PHES

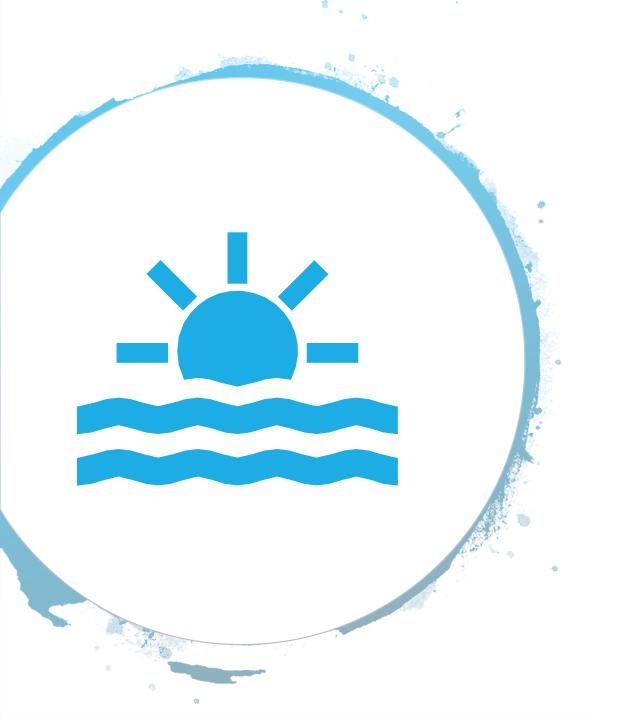
Synergies Build the Future



High wind, low waves – a favourable place for OWP

Baltic Sea Declaration

- Global Wind Day, June, 15 2017
- The Baltic Sea countries National Associations
- Accelerating the use of offshore wind power in the region



Natural conditions

- Strong and stable winds, low waves, shallow waters;
- Close distances to shore & easy accessibility;
- Less harsh conditions compared to North Sea;
- Offshore wind energy combined with hydropower and interconnectors can provide intensive baseload in the Baltic Sea region.

SE New Gulf of Bothnia - 5000 MW

I New Etelainen Merkenkurkku #2 - 1000 MW FI New Etelainen Merkenkurkku #1 - 500 MW FI New Selkameri #2 - 1000 MW SE Gretas Klackar - 500 MW

New market Worth of 100 bn EUR

SE Utposten II - 500 MW SE Finngrunden 3 - 500 MW SE Utknallen - 1500 MW SE Finngrunden 1-2 - 1000 MW

FI New Selkameeri #1 - 1000 MW

FI Inkoo-Raaseporin - 500 MW

SE Svenska Bjørn Offshore - 500 MW, FI-New Aalands Hav - 1000 MW

EST Hiiumaa 700 - 1100 MW

SE Långgrund II - 1000 MW SE Långgrund - 1000 MW

PUTCHIA

EST New Saaremaa - 1000 MW EST New Kihnu Saar - 3000 MW EST Liivi laht - 1000 MW

DK Sæby (Nearshore Tender Area) - 500 MW SE Oskarshamn - 500 MW

LV LV07 4-5 - 1000 MW LA New Ventspils South Coast #3 - 1000 MW

DK New Kattegat - 3000 MW

LV LV07-1 - 500 MWI AV LV06-2 - 500 MW

LA New Gulf of Riga #1 - 4000 MW

DK Store Middelgrund Reserved Area - 1000 MW SE New Laholmsbukten - 1000 MW

■ U LV06-1 - 500 MW A New Interest Zone - 2500 MW

DK New Hesselø Bugt - 1500 MW

SE New Ølands Sødrav 1000 MW

DK New Samsø - 500 MW

SE New Hanøbukten - 500 MW PL Baltex-5 - 1000 MW

DK Lillebælt Syd (Lillegrund) - 500 MW, DK New Faxe Bugt - #000 MW

PL New POL #4 - 1000 MW

LITHUMNIA

DK New Aeroe - 1000 MW

DE Baltic Eagle 500 MW

PL Baltica 2 - 1000 MW

PL AEGIR 4 - 500 MW

BL New POL #1 - 2000 MW



1

Red vs Blue Ocean strategies

- New supply chains (e.g. substructures, turbines, maintenance, shipping)
- High value jobs
- Cost reduction to support European industry

2

Public and industry involvement

- New "utilities"
- Combining industrial and OWP cuts CAPEX

3

Value innovation vs technology innovation

The Sea of opportunities



Legal framework, interconnections and spatial planning needed

Legal framework:

- •Stable and long-term national plans to create an attractive market;
- Defining OWP volumes sharing;
- •MS cross-border co-operation projects;
- •Reforming market design: actions, not slogans!

Interconnections:

- •Coordinated development of grid projects creates synergies and reduces costs;
- •Higher level of interconnections means less environmental impacts and more economic benefits.

Spatial planning:

- Sharing is caring
- OWF locations
- •Removing obstacles in spatial planning

ABILITY = POTENTIAL x WILL x CAPABILITY

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