

# DUAL Ports

De-carbonizing port business today

## Invitation to DUAL Ports

### WAVE/HYDROGEN/HEAT Workshop in Hvide Sande, DK

Time: December 9, 2019 hrs. 12:30 to December 10 hrs. 13:00

Venue: Klittens Menighedshus, Søndergade 2, 6960 Hvide Sande



Registration to mail: [jp@vordingborgerhverv.dk](mailto:jp@vordingborgerhverv.dk) or Josephine Petersen +45 5534 0393



## Program

DECEMBER 9, 2019

- 12:30 - 13:30 Lunch and get together.  
The workshop will be moderated by Partner Mr. Jens Henrik Møller, GEMBA.
- 13:30 – 13:35 Welcome to Hvide Sande and Port of Hvide Sande  
By Mr. Steen Davidsen, CEO - Port of Hvide Sande, DK
- 13:35 – 13:50 Information about North Sea Region Program and what we can expect in next period?  
By Mr. Christian Byrith, CEO, Interreg North Sea Region Secretariat Viborg, DK
- 13:50 – 14:00 DUAL Ports in Hvide Sande – progress and position  
By Mr. Wim Stubbe, Director - Business development, Port of Oostende, Belgium
- 14:00 – 14:20 DUAL Ports HEAT Pilot - Wave, Solar, Wind, Heat and Hydrogen – making Hvide Sande to a zero-emission city - How we will utilize our position at the coast!  
By Mr. Martin Halkjær, Director, Hvide Sande Heat System, Denmark
- 14:20 – 14:40 Windfarms at the west coast of Jutland  
Case of wind energy development in the North Sea  
By Mr. Arne Rahbek, Director for Communication, Vattenfall, Denmark
- 14:40 – 15:00 DUAL Ports WAVE Pilot – Technology and potential  
Case of wave energy development in the North Sea  
By Mrs. Irina Temiz, PhD Senior lecturer, Renewable Electricity Production, Division of Electricity, Uppsala University, Sweden
- 15:00 – 15:20 The Wave sector in Northern Europe - Outlook, practical experiences and news.  
By Mr. Jens Peter Kofoed, Head of Division, Associated Professor, Department of Civil Engineering, University of Aalborg, Denmark
- 15:20 – 15:40 Wave technology and possibilities – dual or multi tech solutions.  
By Mr. Laurent Albert, CEO, Seabased ab, Sweden
- Coffee break and networking
- 16:00 – 16:20 Hydrogen technology and green technology.  
How do we combine different sources of energy?  
By Mrs. Kristina Fløche Juelsgaard, Business Development Director, Ballard Power, Denmark
- 16:20 – 16:40 Hydrogen introduction in Port of Hvide Sande  
How we plan to implement hydrogen to ships.  
By Mr. Carl Erik Kristensen; CEO, Hvide Sande Ship Yard
- 16:40 – 17:00 DUAL Ports HYDROGEN Pilot experiences  
The Orkney island case – how we use green surplus energy and how we are training in the field of Hydrogen.  
By Mr. David Hibbert, Technical Superintendent, Development & Infrastructure - Marine Services, Scapa - Orkney, Scotland.



## Program

DECEMBER 9, 2019

- 17:00 – 17:20 Port and City - How to combine different energy forms in port areas. Renewable Energy Cluster – Norway, The Trondheim Case  
By Mr. Ole Svendgård, Fornybarklyngen - Cluster leader, Norway
- 17:20 – 17:40 How we run the Blue-Green development in our part of the world – The GRO case  
By Mr. Lars Korsgaard Jørgensen and Mrs. Susanne Trip Nielsen, Project leader Municipality of Ringkøbing-Skjern, Denmark
- 17:40 - 18:00 How to create a better environment in Ringkøbing Fjord - The Biomass production Case  
By Mr. Kim Iversen, Biologist at Denmark's Center for Wild Salmon, Denmark
- 18:00 – 18:15 Sum Up and closing of the workshop  
By Project leader Mr. Wim Stubbe, Port of Oostende, Belgium
- Refreshment and snack served at Captains Lounge (approx. 150 meters walking distance from Menighedshuset)
- 20:00 – 22:00 Dinner at Restaurant Kommandobroen, Toldbodgade 8, 1 6960 Hvide Sande

DECEMBER 10, 2019

- 08:30 – 12:00 Visit at Port of Hvide Sande, Hvide Sande Sluse  
Hvide Sande Ship Yard and Hvide Sande Fjernvarme
- 12:00 – 12:15 Sum up and closing of the WAVE/HYDROGEN/HEAT Workshop in Hvide Sande
- 12:15 – 13:15 Lunch at Menighedshuset, Søndergade 2, 6960 Hvide Sande



## Practicalities: Accommodation and transport

### For hotel and accommodation in Hvide Sande

Hvide Sande Hotel: [www.hssh.dk](http://www.hssh.dk)

*Small local hotel with a limited number of rooms*

Hotel Fjordgaarden: [www.hotelfjordgaarden.dk](http://www.hotelfjordgaarden.dk)

*The hotel is about 25 min drive by car away from Hvide Sande*

Feriepartner Hvide Sande: [www.feriepartner.dk/hvide-sande](http://www.feriepartner.dk/hvide-sande)

*Top quality holidays flats in Hvide Sande for rent*

### Transport to Hvide Sande from Billund Airport

Shuttle transport: From Billund Airport to Hvide Sande will be organized by Port of Hvide Sande December 9 and return December 11 to Billund Airport. More information about this please contact Mr. Bent Haumann by mail to [bh@hvshavn.dk](mailto:bh@hvshavn.dk)

Public transport: Bus from Billund Airport (BLL) to Hvide Sande: Takes around 3h 43m. Recommended route line 580 bus Billund Lufthavn, Herning Station Bus, Ringkøbing Rtb., Hvide Sande.

Car rental at Billund Airport: [WWW.rentalcars.com/billund-airport](http://WWW.rentalcars.com/billund-airport)

Driving time around 1h 30m.

DUAL Ports aims to de-carbonise Regional Entrepreneurial Ports (REPs) through a shared eco-innovation port programme that minimises the environmental footprint. The objective is to specifically develop sustainable utilities and abilities of REPs. This will be achieved by collaboratively piloting and managing technologies, that tackle targeted measurable direct/indirect emission/pollution sources, with a goal of 20% cost reduction and 10% carbon reduction.

DUAL Ports is a 6 year project, started in 2015.

It is 50% co-funded by the European Union and the European Regional Development Fund (ERDF) through the Interreg North Sea Region Programme 2014 – 2020; Eco-innovation priority.

DUAL Ports addresses the Programme objective of promoting resource efficiency and stimulating the adoption of new products, services and processes to reduce the environmental footprint of regions around the North Sea.

DUAL Ports will be measured in the concrete success of the pilots and the pilots' transferability to other Regional Entrepreneurial Ports. The aim of the project is to collectively reduce carbon emissions by 12% and lower cost by 20%

### The objective of DUAL Ports is

- reducing the environmental footprint of regional entrepreneurial ports.
- improving the sustainability of port operational and administration resources.
- promoting responsible growth and supporting eco-innovation-oriented development.

Follow the progress at [www.dualports.eu](http://www.dualports.eu) and [www.northsearegion.eu/dual-ports](http://www.northsearegion.eu/dual-ports)

### LEAD PARTNER

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