





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 or Josephine Petersen +45 5534 0393











Program DECEMBER 9, 2019

12:30 - 13:30	Lunch and get together.
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. Lauren 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.



Scapa - Orkney, Scotland.

By Mr. David Hibbert, Technical Superintendent, Development & Infrastructure - Marine Services,









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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, 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, 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. Uffe Jørgensen, Project leader, University of Aarhus, Denmark (tbc).

18:00 – 18:15 Sum Up and closing of the workshop

By Project leader Mr. Wim Stubbe, Port of Oostende, Belgium

The workshop will be moderated by Partner Mr. Jens Henrik Møller, GEMBA.

18:30 – 19:45 Refreshment and snack served at Captains Lounge (approx. 150 meters walking distance from

Menighedshuset)

20:00 – 22:00 Dinner at Restaurant Kommandobroen

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

Small local hotel with a limited number of rooms

Hotel Fjordgaarden: www.hotelfjordgaarden.dk

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

Feriepartner Hvide Sande: 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

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

Car rental at Billund Airport: <u>WWW.rentalcars.com/billund-airport</u> 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 and www.northsearegion.eu/dual-ports

LEAD PARTNER

Port of Oostende, Slijkensesteenweg 2, 8400 Oostende (BELGIUM) Wim Stubbe - <u>wim.stubbe@portofoostende.be</u> +32 487 54 87 68



