



## PROJECT PARTNERS

PECS is a cross-border cooperation project in the 2 Seas region between 10 partners from England, France, the Netherlands and Belgium, consisting of ports, knowledge institutions, municipalities, agencies and businesses.



## MORE INFO AND CONTACT DETAILS

Read all about the PECS project online, register for our free newsletter and follow the latest news on social media:



[www.pecs2seas.eu](http://www.pecs2seas.eu)  
subscribe to our newsletter!



PECS\_proj  
#PECS2SEAS



PECS(interreg 2 seas)



Any questions? Please get in touch with us:

**Wim Stubbe**  
Project Coordinator PECS  
Port of Oostende  
wim.stubbe@portofoostende.be  
+32 487 54 87 68

**Marijke Mahieu**  
Communication Officer PECS  
Power-Link, Ghent University  
marijke.mahieu@ugent.be  
+32 59 24 27 43

# PORTS ENERGY and CARBON SAVINGS

PECS is funded by the European Interreg 2 Seas programme with a total budget of 8,07 M €, including an ERDF-budget of 3,98 M €. With the financial support of:

*Making your port or marina more energy efficient  
in a cost-effective way  
involving renewable energy technologies*

## WHAT IS PECS ABOUT?

### Aim

PECS aims to develop, test, validate and demonstrate **DIFFERENT TOOLS AND TECHNOLOGIES** that will help **REDUCE THE CARBON FOOTPRINT** of small, medium and entrepreneurial (SME-) ports and marinas, and make their functioning more **ENERGY-EFFICIENT** in a **COST-EFFECTIVE WAY**.

Demonstrating and disseminating these innovative applications for energy efficiency, specific **COAST-RELATED RENEWABLE ENERGY SOURCES** and **ENERGY STORAGE**, will **CONVINCE OTHER SMALL AND MEDIUM-SIZED PORTS** to increase the adoption and usage of these technologies and thus reduce their carbon emissions significantly.

### How?

PECS will develop and test different tools and technologies to find **WORKING SOLUTIONS** for SME-ports, in **REAL LIFE SITUATIONS** and under **DIFFERENT CIRCUMSTANCES**.

We will demonstrate 8 of these technologies in our ports, develop tools that audit the energy consumption, the potential of renewables, energy savings and a way to select the best mix of low carbon options. Furthermore we will also work on a model of an energy cooperations structure.



## TOOLS AND METHODS

Within the scope of the project four tools will be developed and validated to achieve carbon reduction:



**ENERGY AUDIT:** to understand the energy consumption and carbon emissions in SME-ports

**POTENTIALS OF RENEWABLES:** to understand the potential of implementing renewables in ports and how much energy they can produce

**ENERGY SAVINGS:** to target the potential of energy saving options and decrease carbon emissions in ports

**DECISION MAKING TOOL:** to select the best mix of low carbon options for any interested SME-port



## VERIFICATION STUDIES

There will be 9 independent **STUDIES OF FEASIBILITY** of the implemented low carbon technologies brought together in an overall report useful for other SME-ports.

## PILOT PROJECTS

Several pilots will be implemented in the partner ports of Ostend, Portsmouth, Dunkirk, OD IJmond and Hellevoetsluis.

**1 MEDIUM SIZED WIND TURBINE:** to provide self-sufficient energy for the activities of the port of Ostend

**2 SMART LED-LIGHTS PONTOON:** a pontoon including lightpoles with self-charging LED-lights, sensors and smart cameras to improve cost efficiency and port safety

**3 LINKSPAN:** an environmentally friendly linkspan which operates more quickly, allowing ships to save fuel and resulting in lower emissions

**4 ENERGY PONTOON:** a 24 meters long self-supporting energy pontoon equipped with wind and solar production, with incorporated energy storage system

**5 SIX SMALL WIND TURBINES +**

**6 SOLAR PANELS:** production of energy in a sustainable way for the consumption of the marina and public activities at Hellevoetsluis

**7 LEM-PLATFORM:** a local energy market (LEM-) software platform to ensure flexible distribution of local renewable energy at IJmond

**8 WASTE RECYCLING UNIT:** new treatment plant at Dunkirk to recover chlorine from waste. The chlorine and the energy produced in the process are used by neighbouring companies

