



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
subscribe to our newsletter!



PECS_proj
#PECS2SEAS



PECS(interreg 2 seas)



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:



Any questions? Please get in touch with us:

Wim Stubbe
Project Coordinator PECS
Port of Oostende
wim.stubbe@portfoostende.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

*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

