



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

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PECS(interreg 2 seas)



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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

