



## Delivering sustainable energy solutions for ports

### **Bringing innovation to container terminals in European ports to reduce carbon emissions**

Focusing on the Ports of Felixstowe (PoF), and the Valencia (VpF) Delivering sustainable energy solutions for ports (SUSPORTS) aims to reduce the GHG emissions produced by European container ports. By locally storing and reusing surplus energy generated by container cranes radical improvements in energy efficiency can be achieved, with consequent reductions in carbon emissions.

Container ports continue to be integral to Europe's trade and economy but until now little has been done to address their carbon footprint. The Ports of Felixstowe (PoF) in the UK, and Valencia (VpF) in Spain, currently produce 65,000 and 60,000 tonnes of GHGs a year respectively. Most of the emissions from ports are generated at the container terminals where the container cranes are located. Due to the crane's fluctuating demand and supply for energy their power management can be complex, and feeding energy back into the supply grid can result in transient faults which may affect power quality and security of supplies to other users.

Name

Delivering sustainable energy solutions for ports (SUSPORTS)

Project Type

Innovation – Develops and brings to market climate relevant knowledge, products and services

Lead Partner	CRESS
Project Partners	CRESS Carbon Reducing Energy Storage Systems Limited School of System Engineering, University of Reading Royal HASKoningDHV (RHDHV) Valenciaport Foundation (VpF)
Project Manager	Rayner Mayer, CRESS
Project Location	Pan-European, co-ordinated from the UK
Project Start Date	October 2013
Theme	Sustainable cities