

PRESS RELEASE



PIANC

The World Association for Waterborne
Transport Infrastructure

19 March 2019

NEW PIANC PUBLICATION AVAILABLE



Title: 'Renewables and Energy Efficiency for Maritime Ports'

Author's: MarCom Working Group 159

Price: € 170,00 (167 pages)

Available at: <https://www.pianc.org/publications/marcom/wg159>

Introduction:

This report analyses the state-of-the-art related to the implementation of renewable energy devices and energy efficiency measures in port infrastructure. WG 159 distributed a questionnaire to port authorities and port operators worldwide to understand how facilities use electricity, the planning tools utilised and the technology used at port terminals.

Based on the questionnaire and the expertise of the Working Group members, the report provides guidance for evaluating and implementing Renewable Energy (RE) resources like wind, solar and ocean. The report discusses Energy Efficiency (EE) technologies and cost-effective solutions for port facilities.

The objective is to identify RE resources and EE measures through Energy Masterplans that can be implemented by Port Authorities and Terminal Operators leading to energy systems that minimise power consumption and reduce CO₂ emissions. The vision is to develop self-sustainable ports using RE and EE technologies.

The report focuses on:

- providing a critical review of the current state-of-the-art in the field of renewable energy devices which can be implemented with or within port infrastructure
- providing general criteria to assess the overall potential renewable energy which can be harvested in the entire port area, with the purpose of reaching a reasonable share of the yearly energy consumptions of port infrastructure with 'CO₂-free' solutions; and
- providing general advice for the implementation of both commercial and experimental projects related to the direct connection and/or integration of renewable energy devices to maritime port infrastructure, taking into account port engineering aspects, environmental, operational constraints, electrical aspects, economic and financial aspects and efficiency of the systems.

With special attention to:

- the analysis of the implementation of RE and EE technologies
- the opportunities in the Energy Efficiency sector
- the development of Energy Management culture
- the need for implementation of Energy Masterplans

The report provides a general approach to RE and EE opportunities from a strategic perspective and describes the best available technologies at present. The report does not address a detailed analysis of all these technologies because they are advancing quickly. The continuous evolution of RE and EE technologies may require periodic updates to this report.

The contents of the report are applicable not only for project planners (greenfield and brownfield projects) but also for port authorities and terminal operators.

NOTE: The objective of this report is to provide information and recommendations on good practice. Conformity is not obligatory and engineering judgement should be used in its application, especially in special circumstances. This report should be seen as an expert guidance and state of the art on this particular subject. PIANC disclaims all responsibility in case this report should be presented as an official standard.

PLEASE NOTE that for only € 95,00 (€ 35,00 for students) you can become an **individual member of PIANC**. Individual members receive a login and password to access the members-only page on our website. There you can download all published (English) PIANC reports **FOR FREE**. You'll also receive the new PIANC YEARBOOK as a hard copy. (<http://www.pianc.org/individualmember.php>)