



Seminar

RFCS Project JABACO

Development of Modular Steel Jacket for
Offshore Windfarms

Contract RFSR-CT-2015-00024

1st of October

RINA, via Corsica 12, Genoa, Italy

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SEMINAR JABACO DEVELOPMENT OF MODULAR STEEL JACKET FOR OFFSHORE WINDFARMS

The seminar in Genoa on 1st of October 2018, is dedicated to the presentation of the European project Jabaco, which promotes the development of prefabricated steel jacket for offshore wind farms.

The aim of this project is to reduce offshore wind costs by incrementing prefabrication of substructures, via the development of prefabricated standard components, scalable in a significant range of environmental conditions. This lead to increased availability of jacket components, ready for massive fabrication and installation.

In this new concept, the structural components of the offshore jacket are designed as prefabricated sub-assemblies. Emphasis is given on developing solutions for performing the maximum number of welds in the factory, under controlled conditions. This ensures automation of fabrication, and consequently reduced oscillation in final behaviour potentially leading to higher reliability and lower safety factors to be applied.

The seminar will focus on the results of

- loads analysis at different windfarm locations
- welding trials of prefabricated jacket components with application of fully automated processes
- validation of structural performances via full scale experimental testing
- Cost analysis of the modular jacket concept

The Jabaco Workshop is promoted by Steelmaster 2018, XXII Edition, organized by RINA with the support of ESTEP (European Steel Technology Platform), Federacciai and Ordine degli Ingegneri di Genova.

CONSORTIUM

Coordinator

RINA, Italy

Partners

Ramboll GmbH (Ramboll), Germany
National Technical University of Athens (NTUA), Greece
Ingeniería y Diseño Europeo S.A. (IDESIA), Spain
OCAS NV (OCAS), Belgium
University of Thessaly (UTH), Greece



AGENDA

08.30 - 09.15 Registration of participants

09.15 - 09.30 Welcome and Introduction

Guido Chiappa, CEO of RINA-Centro Sviluppo Materiali

Maurizio Michelini, President of Ordine degli Ingegneri della provincia di Genova

09.30 - 10.00 Introduction and project overview: modular Jacket concept

Giuliana Zilli, RINA, Italy

10.00 - 10.30 Wind offshore: state of the art and perspectives of prefabrication

Marc Voßbeck, Ramboll GmbH, Germany

10.30 - 11.00 Met-Ocean Data: relevance to windfarm design

Aero-fluid dynamic analysis of offshore wind turbine

Spyros A. Mavrakos, Dimitris Manolas, National Technical University of Athens, Greece

11.00 - 11.30 Coffee break

11.30 - 12.15 Fatigue of Welded Tubular X-Joints Under In-Plane Bending Loading

Design & Analysis of Seabed Foundation in Structural Systems for Offshore Wind Energy Production

Spyros A. Karamanos, Fani Gelagoti, University of Thessaly, Greece

12.15 - 13.00 Testing of offshore prefabricated joints and development of design recommendations

Philippe Thibaux, OCAS NV, Belgium

(RINA), Italy, tbc

13.00 - 13.30 Fabrication of offshore jacket structures. Automation of welding processes and Cost/Benefits impact

Ingeniería y Diseño Europeo S.A. (IDESA), Spain, tbc

Mauro Monti (RINA), Italy

REGISTRATION

Registration can be made online on the Rina.org website or through the application form which can be downloaded from the site and sent to: steelmaster@rina.org.

Participation is free of charge. However, available seats are limited, so early registration is recommended.

The Jabaco seminar is organized in collaboration with the Order of Engineers of the Province of Genoa.

Participation in the Jabaco seminar provides for the release of 6 CFPs.

CONTACTS

For any information you can contact **steelmaster@rina.org** or **mob. +39 335 6682147**

