



Development, engineering, production and life cycle management of improved FIBRE-based material solutions for the structure and functional components of large offshore wind enerGY and tidal power platforms

1st information day

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List of Abbreviations

CDP	Communication and dissemination plan
FRP	Fibre-reinforced plastics

Executive summary

This document presents the deliverable D7.3 – the report on the first information day of FibreGY held on the 1st of July 2021. It is part of the task 7.1 and executes the communication and dissemination strategy of the Fibregy project. The first information day is used to present the FibreGY project to the public by giving a detailed insight into the project's work plan structure and presenting first results. The following part outlines the main process of the event regarding organisation, attendees and procedure.

1. Introduction

Effective external communication of FIBREGY project is a priority. Therefore, the CDP (D7.2) describes the main communication and dissemination strategy providing a framework for the internal and external communication activities, taking into consideration and contributing to the achievement of the project's objectives. Taking this plan into action, AVK organized the first information day originally planned in month 6 of the project. The process of organizing and executing this event will be presented in this document.

2. Organisation of the event

On the first progress meeting in March, the AVK presented the outline of the first information day of FibreGY. On this slide (see figure 1), it was originally planned to invite the consortium to Frankfurt am Main and hold the event in the facilities of AVK, if the pandemic situation would allow this. Concerns were raised that a face-to-face event will be unlikely to be held in June 2021. Therefore, planning of an online event was started. CIMNE proposed to combine the event of FibreGY with another Horizon 2020 project which is organized by CIMNE called Fibre4Yards. Both projects follow the same holistic goal promoting the use of fibre-reinforced plastics (FRP) in the maritime environment, whereby the idea of joining the events of both projects seems practical since they address the same audience, and the reached audience can therefore be increased. A first date set to the 17th of June. Due to a conflict with another event, the information day had to be moved to the 1st of July 2021.



FIBREGY First information day

- Proposed dates:
 - Wednesday, 02.06.2021
 - Thursday, 10.06.2021
- Proposed meeting place (if Covid allows)
 - At AVK facilities in Frankfurt am Main
 - Arrivals either 01.06/09.06

FIBREGY: H2020 project N° 952966

Figure 1: outline for the planned 1st information day.

To increase the number of attendees of the event the news was spread throughout the network of AVK, as one of the biggest composite federations in Europe, and through the network of both projects' consortia. Additionally, an event on LinkedIn was created to make the event visible to the public. As a registration form the EU survey tool was used (<https://ec.europa.eu/eusurvey/runner/FID>). The list with registered people can be found in the annex. A total of 54 people registered through the EU Survey tool of which 75% were already part of either the FibreGY or Fibre4Yards consortium or their Advisory Boards.

The proposed agenda can be found in table 1. The event starts with a welcome and introduction of the coordinators. Following, the goals and progress of FibreGY is presented with a subsequent discussion. After a 20-minute coffee break the goals and progress of the Fibre4Yards project is presented. Then a 25 minute discussion is planned. The event ends at 18.00h.

Table 1: Agenda of the event.

Time	Agenda
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14:00 - 14:30	Welcome and Introduction
14.30 – 15.45	Overview of the goals and progress of FibreGY
15.45 – 16.00	Discussion
16.00 – 16.20	Coffee Break
16.20 – 17.35	Overview of the goals and progress of Fibre4Yards
17.35 – 18.00	Discussion
18.00	End of the event

3. Execution of the event

The event starts with a welcome and introduction of the coordinators of both projects with a brief introduction to today's agenda and the advantages of FRP in the naval and marine industry. Xavier Martinez (XM) presents classical application of composites in the naval and marine industry. Julio Garcia Espinosa (JGE) introduces the Fibreship project, which can be considered as the predecessor project of both FibreGY and Fibre4Yards. A video is shown, where the production of the demonstrator part of the Fibreship project is shown. At 14.22 JGE start with the presentation of FibreGY and gives a brief introduction and facts about FibreGY like budget, duration, etc. Then the consortium is introduced and the motivation for the project is explained.

At 14.50 Rui Marques from Inegi gives an introduction to the materials and the production processes for the turnable composite turbine. The filament winding process is explained and the material selection process for the demonstrator is thoughtfully clarified. At 15.05 Ovidi Casals from Compassis presents the development and validation of the models for material degradation, strength assessment and structural health monitoring. At 15.22 Cristobal Garcia (TSI) presents the engineering and design of two concepts of large offshore wind and turbine power platforms (OWTP). This includes the re-design in fibre-reinforced plastics of the W2Power wind turbine and turnable tidal turbine, the design of large-scale demonstrator designs, development of project guidelines and recommendations for design and assessment of FRP-based platforms.

At 15.45 the discussion on the FibreGY presentations started. Nicholas Tsouvalis (NT) from the national technical university of Athens opens the introduction with the questions if the new weight is considered, when replacing metals with FRP especially regarding the joints between the tower and platform. JGE answers that the design is largely kept and the joints are mostly under copyright restrictions. Cristobal Garcia confirms that the new weight is considered. Nicholas Tsouvalis continues with a question on the geometry of the specimens, which are produced through filament winding. Rui Marques explains that the specimen will be of rectangular form and that Inegi has made positive experiences with this geometry in the past.

Borja Serván Camas proceeds with the next question to the classification society on the major challenges throughout this project. Stephane Paboeuf from Bureau Veritas explains that the major issue will be the weight safety factor since the loads are different compared to metallic structures. Another challenge will also be the fatigue test on the connections.

Xavier Martinez (XM) mentions that drawbacks of composites were addressed in the beginning of the event. Having this in mind, he asks what are the expected outcomes of this project and if will the next generation OWTP will be made from composites? JGE answers that the idea is to produce two demonstrator parts to prove the feasibility of this technology, both technical and economical. NT adds that in his opinion it will take time until the industry will adapt to these changes and use composite material on a big scale since the long-term feasibility of this material needs to be proven. XM agrees and adds that the industry is a little bit reluctant to composite material.

In table 2 the list of attendees is visible (. The list is generated through the Zoom programme and the names, which are used in the zoom programme are shown. Therefore, some of the names are abbreviated.

Table 2: List of attendees

Attendees

Diogo Cardoso	Rui Marques - INEGI
Rui Gomes - INEGI	Alex - Ulim
Mário Moutinho - INEGI	Irek
A.Chicharo2	Daniel Sá (Compass IS)
Rui Mendes	Volker Mathes
JULIO GARCIA ESPINOSA	Dominika Behrendt (L-UP)
Youzef Youzef	Nicholas TSOUVALIS
Borja (CIMNE)	Francisco De la Rosa_CIMNE
Iván (IRU)	Elmar Witten
Santiago Á-Buylla	Abraham Casas (CTC)
Brandan + Jose Ignacio	pdavies
Fabian Rechsteiner	Montserrat Dolz (CIMNE) (Montserrat Dolz)
Irene Torres	A.Chicharo
Ovidi Casals Boixadós	cgarcia
stephane paboef (BV)	rpereira
Mário Moutinho	Gregoire Beauvain Com&Sens
Rachel Zeringue (Tidotec)	Eduardo Sanchez (TSI)
Olivia CHAN TAW (Corso)	CIMNE - Francesc Turon Pujol
Bárbara Fernandes	Xavier Martinez (CIMNE) (Xavier Martinez)
Akshay Hejjaji	Miguel Calpe
Annette Nüsslein	Ruben Pereira (INEGI)
Juan Pablo Cilia	Pablo Ropero
Anthony	Pablo Ropero EnerOcean
Irene Berdugo	Fermín Otero
Margarita Glöckner	MITMA DGMM - Miguel Nunez
Alfonso Jurado	Sergio Fernandez-Ruano
jsilva	Erik J.

From 16.00 – 16.20 a coffee break is held. Afterwards the Fibre4Yards project is presented.

4. Conclusion

With a total of 54 attendees a relevant crowd of stakeholders could be reached. The goal of FibreGY to increase the use of FRP in the maritime environment in the energy sector could be presented. First results of different work packages could be presented and be discussed with an audience from industry, research institutes and public authorities. Through the combination of the two projects FibreGY and Fibre4Yards a bigger audience could be targeted and through the success of this event, the audience of future events will increase. Therefore, the news about future events will be spread in an even bigger network using the mailing list generated from this event.

5. Annex

First Name	Family Name	Email	Organisation	Position within the organisation	Sector	How did you hear about this event?	I am a member of FibreGY/Fibre4Yards Consortium or Advisory Board
Rui	Marques	rmarques@inegi.up.pt	INEGI - Instituto de Ciência e Inovação em Engenharia Mecânica e Engenharia Industrial	Project Manager	Research association	Colleague	Yes
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Diogo	Cardoso	dcardoso@inegi.up.pt	INEGI	Engineer	Research association	Other	Yes
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