

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

First open-door industrial day

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List of Abbreviations

CDP

Communication and dissemination plan

Executive summary

This document presents the deliverable D7.8 – the report on the first open door industrial day of Fibregy held between the 3rd and 4th of May 2023 in Las Palmas de Gran Canaria, Spain. It is part of the task 7.1 and executes the communication and dissemination strategy of the Fibregy project. The first open door industrial 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 as well as presenting its demonstrator to the public. The following document outlines the main process of the event regarding organisation, attendees and procedure.

1. Introduction

One of the major communication tools of the Fibregy project are the different events throughout the project duration. 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 and following the information days in 2021 and 2022, AVK organized the first open door industrial day in Las Palmas de Gran Canaria. The process of organizing and executing this event will be presented in this document.

2. Organization of the event

Location

The industrial focus of this event was the presentation of the W2Power from EnerOcean. This platform is located in Las Palmas de Gran Canaria in Spain to perform different tests at the nearby PLOCAN testing site. In order to present the W2Power and the components, developed in Fibregy to the public Las Palmas de Gran Canaria was chosen as the suitable event location. For the first seminar day the event was hosted at the University of Las Palmas de Gran Canaria (ULPGC). On the second day the event took place at the Astican Shipyard in the harbour of Las Palmas de Gran Canaria.



Figure 1: Auditorium of ULPGC, where the seminar day was hosted.

Cooperation with E-LASS

In order to increase the audience the event was organized in close collaboration with the E-Lass network. The E-Lass network promotes lightweight application at sea and has organized around 16 number of events throughout Europe. Through the extensive network of E-LASS, it was possible to reach more potential participants and therefore increase the dissemination success of the event.

Promoting the event

The promotion of the event was organized in different steps. Initially after having agreed on date and time with all stakeholders involved, newsletters were sent out to the Fibregy and the E-LASS network. Furthermore, an event was created on LinkedIn as well as several posts promoting the event. A registration of all participants was necessary and managed by E-LASS.

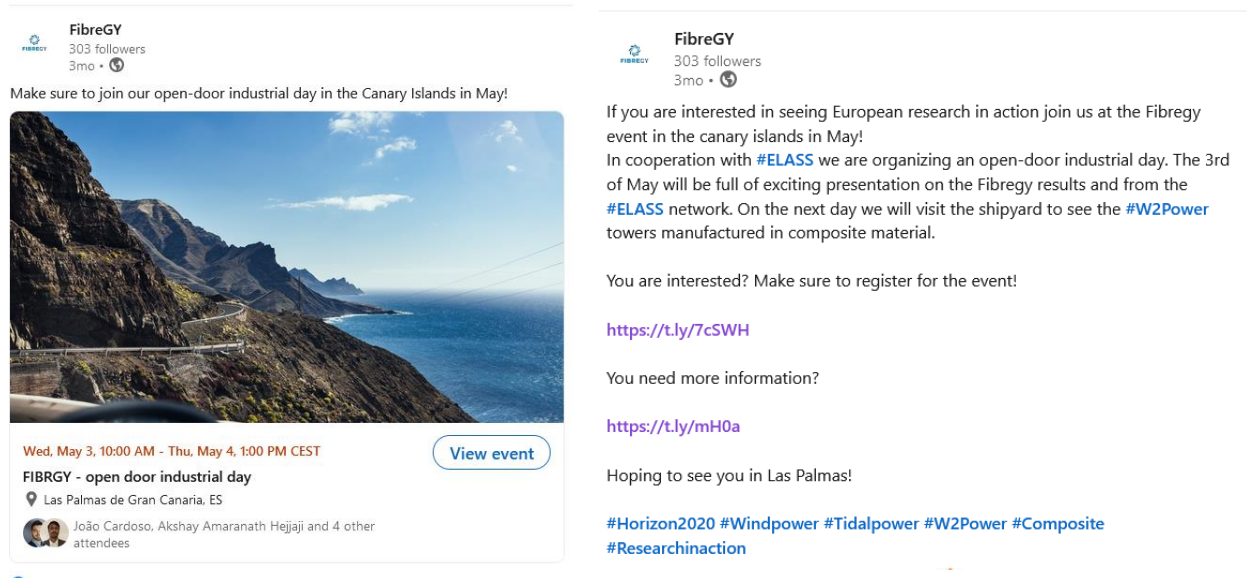




Figure 2: Different posts from LinkedIn to promote the event.

Final Agenda


The event starts with a seminar day on the 3rd of May, where the morning session consisted of presentation from the Fibregy consortium and in the afternoon some presentations from the E-LASS network were held. The agenda for the seminar day is display in figure 1. On the second day, an industry tour to see the demonstrator part of Fibregy W2Power from EnerOcean, which was on dry dock at the Astican shipyard in Las Palmas de Gran Canaria, was organized. There, all participants had the time to see the W2Power from a close distance. Special focus was placed on the tower demonstrator part, which was produced during the Fibregy project.




Co-organized with Fibregy Open Industry Day
E-LASS seminar #17
3 May 2023
09:00-16:30




Hosted by



Escuela de Ingenierías Industriales y Civiles





Morning theme: the FibreGy project

08:30	09:00	Registration, check-in and presentation check	
09:00	09:10	Welcome	Franz Evegren, Fabian Rechsteiner
09:10	09:25	Introduction to FIBREGY	Julio García
09:25	09:50	Characterizing the fatigue behavior of sustainable composite offshore structures	Akshay Hejjaji
09:50	10:15	Fatigue assessment methodology for composite wind turbine towers	Pablo Ropero, Joel Jurado, Stéphane Paboeuf
10:15	10:45	Coffee break & mingle	
10:45	11:10	Manufacturing of W2Power and turbine housing demonstrators	Edouard Waldura, João Cardoso
11:10	11:35	Digital twin for the predictive maintenance of offshore wind platform structures	Borja Serván
11:35	12:00	Updates from the national networks: Sweden, Netherlands, Germany	Anna Sandinge, Tahira Ahmed, Jon Steinlein
12:00	13:00	Lunch	
Afternoon theme: Lightweight applications at Sea (general)			
13:00	13:25	COPROPEL project: Composite propeller design considering fluid-structure interaction	Marion Larreur, Stephane Paebeuf
13:25	13:50	New generation of offshore turbine blades of nano-enabled multi-materials	Stefania Termine
13:50	14:15	Use of FRP in the offshore industry and its impact on regulations	Jack Cockerton
14:15	14:30	Request for interview candidates on advanced composites under high strain in HISTRATE	Anna Sandinge, Franz Evegren
14:30	15:00	Coffee break & mingle	
15:00	15:25	Evaluation of composite materials for ro-ro space surfaces in LASH FIRE	Vito Radolovic, Anna Sandinge
15:25	15:50	Material solutions for cost reduction and extended service life of wind offshore facilities	TBC
15:50	16:15	New DNV practice for qualification of composites subjected to environmental effects	Philippe Noury
16:15	16:30	An outlook on the lightweight engagements of Spanish marine industry	TBC
16:30	16:35	Round-up and discussion	Franz Evegren
16:35	18:30	Free time until dinner at local restaurant - potentially sponsored	

Figure 3: The final agenda of the seminar day on the 3rd of May.

Participants

The list of participants can be taken from table 1:

Table 1: This table presents the participants of the event and their respective organisation.

Number	Name	Organisation
1	Ana Isabel Mayorga Rubio	ENEROCEAN SL
2	Pedro Miguel Mayorga Rubio	ENEROCEAN SL
3	Benito Núñez Quintanilla	Ministry of Transport, Mobility and Urban Agenda
4	Andres Pastor Sanchez	CIMNE
5	Søren Frede Pedersen	Tuco
6	Joel Jurado Granados	CompassIS
7	João Cardoso	INEGI
8	Marcos Álvarez De Arcaya	Wedge Global
9	Jorge Ruiz Rico	EnerOcean
10	Frederico Magalhaes	Damen Shipyards
11	Gursahib Singh Bhatia	University of Limerick
12	Edouard WALDURA	iXblue
13	Jack Cockerton	NOV Fiber Glass Systems
14	Fermin Otero Gruer	CIMNE
15	Rui Gomes	Inegi
16	Rui Mendes	INEGI
17	Obrad Kuzmanovic	FLOW ship design ltd.
18	Vito Radolovic	FLOW Ship Design

19	Daniel Sa	Compass IS SA
20	Rachel Zeringue	Tidetec
21	Adrián Falcón Ortega	EnerOcean
22	Pablo Ropero Giralda	ENEROCEAN S.L.
23	Stefania Termine	National Technical University of Athens
24	Akshay Amaranath Hejjaji	University of Limerick
25	Julio García-Espinosa	Technical University of Madrid
26	Aquilino Álvarez-Castro	TSI - Técnicas y Servicios de Ingeniería SL
27	Olivia CHAN TAW	Corso Magenta
28	Anthony Comer	University of Limerick
29	Javier Piazzese	COMPASS INGENIERÍA Y SISTEMAS S.A.
30	Anna Sandinge	RISE Research Institutes of Sweden
31	JAYARAM RAMANATHA POTHNIS	BERNAL INSTITUTE UNIVERSITY OF LIMERICK LIMERICK
32	Marion Larreur	Méca
33	Fabian Rechsteiner	AVK e.V.
34	Matthias Krause	Center of Maritime Technologies gGmbH
35	Benito Núñez Quintanilla	Minister for Transport
36	Borja Servan-Camas	CIMNE
37	Jaime Pancorbo	Bureau Veritas
38	Frederico Garcia Magalhaes	Damen Shipyards Gorinchem
39	LUIS GUERRERO GOMEZ	BUREAU VERITAS
40	Stephane Paboeuf	Bureau Veritas Marine & Offshore
41	Annelie Eveborn	Element Materials Technology
42	Jon Steinlein	Center of Maritime Technologies gGmbH
43	Alex Frederick Liebau	Fraunhofer IGP
44	Franz Evegren	RISE

3. Execution of the event

Seminar day

The event started in line with the agenda at 09.00 am with a welcome from the organisation team of Fibregy and E-LASS. Afterwards all presentation were held of both the Fibregy consortium as well as the presentation from the E-LASS network. During two coffee breaks and one lunch break, there was plenty of time for all participants to network and discuss the content of the presentations. Figures 4 to 6 show representative pictures of the seminar day at ULPGC.



Figure 4: Arrival of the participants of the seminar day.



Figure 5: Scientific coordinator professor Julio García Espinosa of the Fibregy event opens the seminar with an overview of the Fibregy project and the results achieved so far.



Figure 6: On of the coffee breaks, where many participants used the opportunity to connect with each other.

Industry day

For the industry day, a bus transfer was organized. The bus transfer had four stops on the way to the Astican shipyard:

- Departure 10.15 at Campus Tafira (ULPGC)
- Stop 1: Santa Ana – Calle Juan de Quesada
- Stop 2 : San Telmo – Calle Muelle Las Palmas
- Arrival at 11.00 at Avenida de las petrolíferas S/N – Astican Shipyard

At 11.00 am all participants were registered at the entrance of the shipyard and with the busses available from the bus transfer everyone was transferred safely to the W2Power location on the Astican Shipyard. When the buses arrived at the W2Power all participants had the chance to get a close look at the W2Power and especially the tower, which was developed and manufactured in the Fibregy project. All safety standards and regulations have been controlled by the employees of Astican shipyard and EnerOcean. Compared to the conventional tower, which was deployed on the W2Power before, the tower developed in Fibregy was manufactured with carbon fiber reinforced plastics. Figure 7 shows two pictures from the industry day at Astican shipyard. The event ended at 12.30 at the Astican shipyard. One bus took the participants back to the city center.



Figure 7: The W2Power at the Astican shipyard with the tower, which was developed in Fibregy laying in front of the platform.

4. Conclusion

In conclusion, the open-door industrial day organized by Fibregy in collaboration with the ELASS network in the Canary Islands proved to be a highly successful event. Drawing participants from various European regions, the day encompassed a range of presentations that shed light on the current research outcomes of Fibregy as well as insights shared by the ELASS network. The topics covered encompassed composite materials specifically designed for wind and tidal power applications, along with the broader subject of lightweight solutions in maritime environments.

One notable highlight of the event was the opportunity for attendees to visit a shipyard in Las Palmas de Gran Canaria and witness first-hand one of the W2Power towers, which were developed and constructed using composite materials under the Fibregy project. This demonstration effectively showcased Fibregy's dedication to employing sustainable materials in the fabrication of offshore energy structures.

The event received positive feedback from participants who appreciated the informative presentations, engaging discussions, and valuable networking prospects. Attendees were delighted by the chance to connect with representatives from other projects and networks and showcase their pioneering research in the field. The overall success of the event would not have been possible without the support and participation of the wider community.

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