



Newsletter

2023 | Issue 2 | Carbo4Power

Project Overview

The Carbo4Power is a 4-year project, which started in November 2020 and it is led by the National Technical University of Athens (NTUA), with the participation of a multidisciplinary team of 18 partners (8 SMEs) from 8 countries provides technological know-how and industrial leadership, with well-balanced dissemination, communication & exploitation impact.

This project is funded by the H2020-EU.2.1.3. (€ 7 8 million – Grant Agreement 953192). The main objective is to develop a new generation of lightweight, high strength, multifunctional, digitalized multi-materials for offshore turbine rotor blades that will increase their operational performance and durability while reducing cost of energy production, maintenance and their environmental impact.

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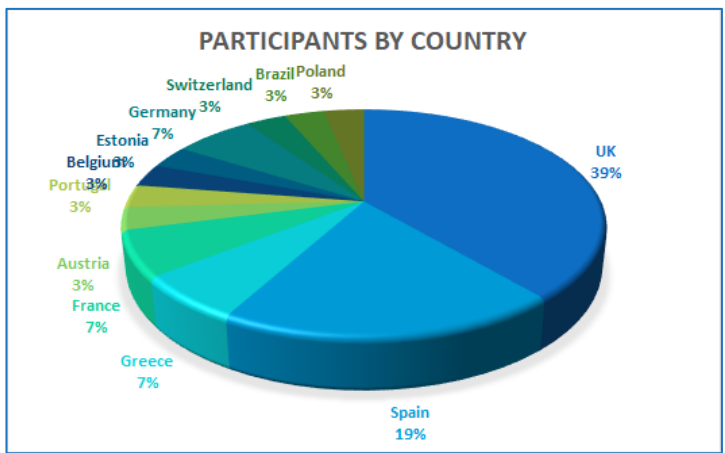
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Carbo4Power 1st Open Day
Workshop – 8 June 2023

The first Open Day took place in Cambridge, UK, on the 8th June 2023 as a hybrid event at the Bamford and Skillicorn Room, in Homerton College, Cambridge. Over 50 people registered to participate in the Open Day. Confirmed external participants to the Open Day came from the following leading organisations, research institutions and universities: Cambridge University, UCL, City, University of London, TWI, Leitai Technology Centre, Cranfield University, Fraunhofer IGCV, Fraunhofer IWM, TMBK, NanoLayr, TÜV, Cepsa energy and omya international AG, among others.



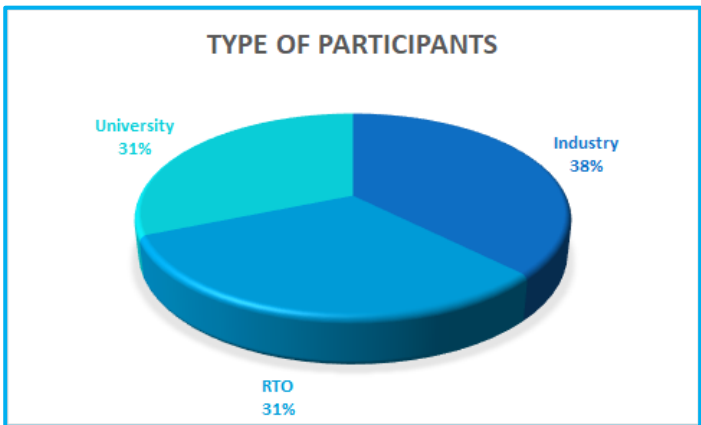
The majority of participants attending the workshop came from UK and rest of Europe, however due to being hosted online, there were participants coming from the Americas (Brazil).



With the aim to enabling clustering activities, Fibregy partner project was invited to attend and give presentations at the Workshop.



The majority of participants who attended, belong to industry (38%), followed by University and RTOs (31%).



Participants were welcome to the Open Day by Dr Bojan Boskovic (Cambridge Nanomaterials Technology Ltd - CNT, Partner Organiser). Followed by Stefania Termine (NTUA, Project Coordinator). Other speakers from partner organisations on the day were: Stephen Jones & Peter Greaves, (Offshore Renewable Energy Catapult); Aratz Genua (Fundación CIDETEC); Elena Rodríguez Senín & Lourdes Blanco Salgado (AIMEN Technology Centre); Antonine De Fontgalland (IRT Jules Verne); Daniel Gomez (INEGI); Xiaoying Li (University of Birmingham); Andreas Flanschger (bionic surface technologies); Kayleigh McEwan (Haydale Composite Solutions); Xingguo Zhou (University of Strathclyde); Ana Bankovic Cassidy (CNT Ltd); Agustín Chiminelli (ITAINNOVA); Frank Sobel (Sense IN); and, Lydia Peraki (IRES). External guest speakers were: Krzysztof Koziol, Head of the Electric Carbon Nanomaterials Group, Cranfield University and João Cardoso from FibreGY Project (INEGI).



Carbo4Power Partners News

M30 Meeting- ITAINNOVA · 10-11 May 2023.

The M30 Consortium Meeting of the Carbo4Power project was hosted by ITAINNOVA · Instituto Tecnológico de Aragón in Zaragoza, Spain, on the 10-11 May 2023. This meeting was a great opportunity to present the progress of the project and to discuss about the forthcoming Open Day, which will be held in Cambridge (UK) on the 8 June 2023.

Participation in the Matcomp23 conference in Gijon, Spain – 13-15 June 2023

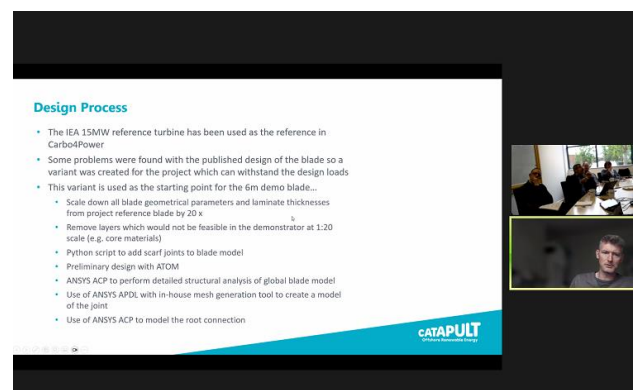
Dr Aratz Genua from the partner organisation CIDETEC, participated in the National Congress of Composite Materials (Matcomp23 conference) in Giron Spain. Dr Genua presented some of the advances of the Carbo4Power project



Participation in the NanoMECommons Open Day Workshop – 3-4 July 2023

Carbo4Power was represented at the **nanoMECommons** Open Day Workshop, by the partner ORE Catapult. Peter Greaves, Principal R&D Engineer at ORE gave a presentation titled: Structural Modelling of a Demonstrator Wind Turbine Blade.

The focus of the NanoMECommons Project (www.nanomecommons.net) is to employ innovative nano-scale mechanical testing procedures in real industrial environments, by developing harmonised and widely accepted characterisation methods, with reduced measurement discrepancy, and improved interoperability and traceability of data.



Participation at the Antifouling Conference – Sweden

The **Carbo4Power** partner **Fraunhofer IFAM**, will represent the project at this year's Antifouling Conference taking place in Gothenburg (Sweden) from 12th to 14th September, 2023. They will give a presentation entitled "Eco-friendly non-biocidal fouling control coatings for optimized efficiency of tidal energy converters". This is an international, scientific conference on marine biofouling and antifouling solutions.

For more information on this conference, please visit the conference website [at this link](#).

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Carbo4Power Partners



This project is supported by the European Union under the HORIZON2020 Framework Programme Grant Agreement no. 953192. The contents of this Newsletter are the sole responsibility of the parties and cannot be considered as reflecting the position of the European Union.

