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e-SHYIPS

ON THE WAVE OF HYDROGEN

NEWS LETTER 1

The e-SHYIPS project was launched on 1st January 2021, and will last for 4 years.

e-SHYIPS's ambition is to fill the existing gap in normative and technical knowledge concerning all the related aspects on hydrogen in the maritime transport sector.

The project aims to define guidelines for an effective introduction of hydrogen in passenger shipping, and to promote its adoption within the framework of the global and EU strategy for a clean and sustainable environment.

e-SHYIPS's will make use of the deep expertise of a wide international, interdisciplinary partnership, towards:

GENERATION OF NEW KNOWLEDGE to define a standardized database and a data gathering methodology on the arrangement and installation of on-board hydrogen-based systems;

DEVELOPMENT OF CFD MODELS AND TOOLS for ship design and safety assessment;

ACQUISITION OF EXPERIMENTAL DATA on hydrogen systems for vessels;

DEFINITION OF A PRE-STANDARDIZATION PLAN FOR IGF CODE UPDATE for the hydrogen-based fuels passenger ships international regulation;

CREATION OF A ROADMAP for the adoption of hydrogen-based fuels on passenger ships in EU maritime sector.

e-SHYIPS will be based on an ecosystem approach where all the main stakeholders from maritime and hydrogen sectors, research and industry will be involved in order to not leave out any relevant aspect for the future regulatory framework.



PROJECT IDENTITY CARD

GRANT AGREEMENT ID: 101007226

STATUS: ONGOING PROJECT

START DATE: 1 JANUARY 2021

END DATE: 31 DECEMBER 2024

FUNDED UNDER: H2020-EU.3.4.6.

OVERALL BUDGET: € 2.500.000

EU CONTRIBUTION: € 2.500.000

COORDINATED BY: POLITECNICO DI MILANO

WWW.E-SHYIPS.COM



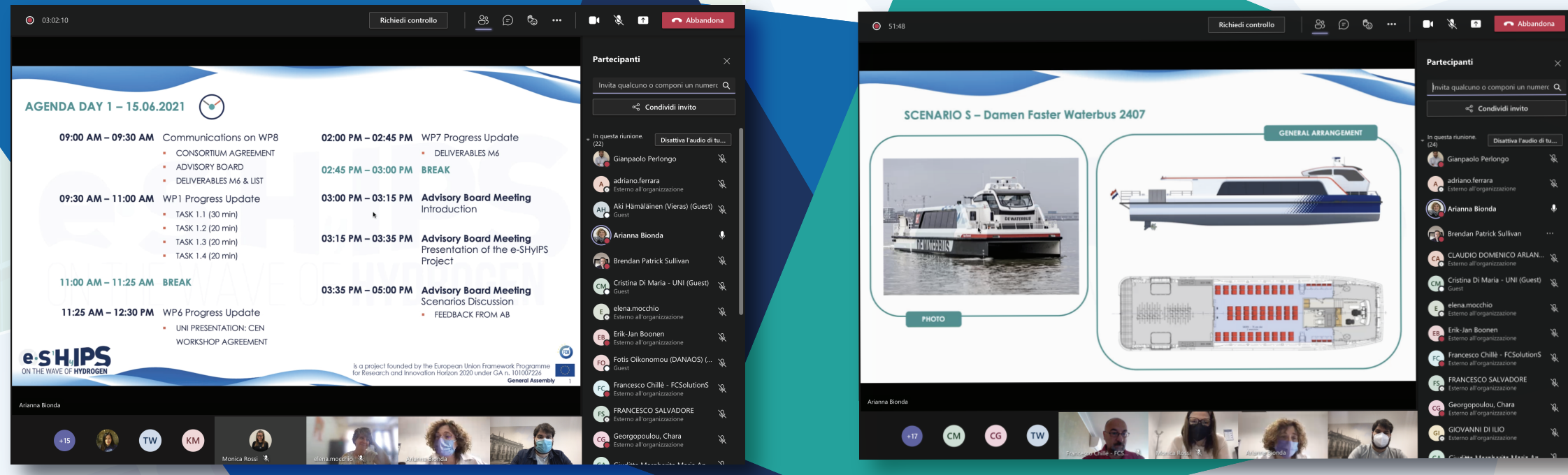
E-SHYIPS FIRST GENERAL ASSEMBLY

Due to Covid-19 restrictions, the first General Assembly of the e-SHYIPS project was held virtually on June 15th-16th 2021. This meeting aimed to present the progress update of the different operational WPs and to formally introduce the project to the Advisory Board members, who were invited to join dedicated sections of the event.

The two-days event was crucial in setting the basis for the experimental activities that will be carried out throughout the followings months with relation to Ship Design, Safety Systems, Materials & Components and Port-Bunkering-Ships Solutions.

Moreover, for the first time, the project partners had the chance to meet the members of the Advisory Board, and receive useful feedbacks with relation to the scenarios and operational profiles that had been defined by the project consortium and that will be further enriched throughout the development of the project during the experimental activities.

The event concluded with the official launch of the experimental activities.



RELEVANT EVENTS

Below, we report about two of the most relevant events on hydrogen, which will be hold in the next months, where one or more e-SHYIPS partners will participate.



HESE - HYDROGEN ENERGY SUMMIT & EXPO

6-8 OCTOBER 2021, BOLOGNA

HESE - Hydrogen Energy Summit & Expo is the project, born from an idea of In Fieri and Mirumir, to start the comparison of the supply chain on the future prospects of hydrogen.

An exhibition area to learn about the development of technologies relating to the production, transport and storage of hydrogen.

Three days of debates and conferences, technical seminars and workshops in which national and international experts, public and private decision-makers and representatives of industry and science will discuss market scenarios, research and technology development.

AN OVERVIEW OF THE E-SHYIPS PROJECT, WITH FOCUS ON THE RELATED NORMATIVE ASPECTS, WILL BE PRESENTED BY UNI - ENTE ITALIANO DI NORMAZIONE AND POLITECNICO DI MILANO ON 7TH OCTOBER, SESSION: INDUSTRY, TRANSPORTS AND RAILWAYS: TECHNOLOGICAL AREAS FOR THE STRATEGIC DEVELOPMENT OF HYDROGEN

[HTTPS://HESE.IT](https://hese.it)

EFC21 - EUROPEAN FUEL CELLS AND HYDROGEN CONFERENCE

15-17 DECEMBER 2021 – VIRTUAL EVENT



European Fuel Cells and Hydrogen
PIERO LUNGHU CONFERENCE 2021

The European Fuel Cells and Hydrogen PieroLunghi Conference - EFC21 aims to discuss the scientific progress and the most modern applications of hydrogen and fuel cell-based technologies, to prove that the need for change is a resource to cultivate. Such a view is reflected in the cross-cutting topics and wide range of applications considered one of the pillars of future European energy and transport systems, making a valued contribution to the transformation to a low carbon economy by 2050.

EFC21, arriving at its 9th edition, aims to bring together academia, research world, industry, public sector to exchange and share their experiences and research results on all aspects of Hydrogen and Fuel Cells technologies and clean energy. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Hydrogen and Fuel Cell technologies and clean energy.

THE CONFERENCE IS ORGANIZED BY ATENA, TOGETHER WITH ENEA, UNIVERSITY OF NAPLES "PARthenope" AND UNIVERSITY OF PERUGIA, WITH A LONG AND DURABLE TRADITION SINCE THE FIRST EDITION IN 2005.

[HTTPS://EUROPEANFUELCELL.IT](https://europeanfuelcell.it)

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