This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking (now Clean Hydrogen Partnership) under grant agreement No 101007226. This Joint Undertaking receives support from the European Union's Horizon 2020 Research and Innovation programme, Hydrogen Europe and Hydrogen Europe research.

e-SHyIPS
ON THE WAVE OF **HYDROGEN**

NEWSLETTER 6

STANDARDS FOR THE USE OF HYDROGEN: STATE OF THE ART AND FUTURE PROSPECTS

e-shyips wil participate to Hydrogen EXPO, the first Italian exhibition and conference entirely dedicated to the technological sector for the development of the hydrogen supply chain.

In Piacenza, on May 18th, UNI - the Italian Standardization Body willorganize the workshop "Standards for the use of hydrogen: state of the art and future prospects" to analyze the state of the art of standardizationand tocollect from the market feedbacks on existing gaps, barriers and challenges to promote the hydrogen supply chain.

It is essential that shared standards and clear and precise guidelines on hydrogen are available.This is why in 1990, the ISO/TC 197 "Hydrogen technologies" and the IEC/TC 105 "Fuel cell technologies" were established at international level, while in 2016 at European level the CEN/CLC/JTC 6 "Hydrogen in energy systems"started its activity.

In recent years, these Technical Committees have developed important technical standards on systems, devices and connections for the production, storage, transport, distribution, measurement and use of hydrogen; on fuel cell technologies and related applications. Activities relating to the guarantee of origin and hydrogen safety issues have also recently started. But still there is much to build and EU research and innovation projects, like e-shyips, have an important role in this.

To support the large-scale deployment of hydrogen technologies by 2030, the European Commission has recently developed the new Roadmap on the standardization of hydrogen, thanks to the work carried out by the European Clean Hydrogen Alliance, which has involved industry and industry stakeholders. In fact, gaps, challenges and standardization needs must be identified along the entire hydrogen chain to encourage the introduction of hydrogen solutions on a large scale throughout the EU.

E-SHYIPS GENERAL ASSEMBLY IN SEVILLE

The 3rd e-SHyIPS General Assembly took place in Seville, Spain, from 22nd to 24th of February 2023, at Ghenova Headquarter.

During the three-days meeting, the e-SHyIPS partners had the chance of sharing progress updates on t scussmain findings, work together and reinforce collaborations. The event was indeed crucial to analyze t status and toplan future actions. Topics covered in the meeting included project management, dissemina communication, experimental activities, numerical modeling activities, IGF gap assessment, bunkering st and operation, safety systems and risk assessment.

During the GA a communication strategy aimed at transferring the e-SHyIPS results to the International Maritime O ganization has been discussed and consolidated. This strategy will be implemented during the third and fourth yea of the project, in order to lead the Consortium towards the accomplishment of its goals.

THE EUROPEAN FUEL CELLS AND HYDROGEN PIEROLUNGHI CONFERENCE 2023

Findings and research outcomes from e-SHyIPSwill be presented at the 10th edition of therenowned "European Fuel Cells and Hydrogen PieroLunghi Conference"(EFC2023), that will take place in Capri, Naples, from 13th to 15th September 2023.

In particular, a specialsession of the conference will be dedicated to the dissemination of e-SHyIPS and otherEuropean projects on hydrogen technologies in the maritime sector.

TheEFC2023 aims to discuss the scientific progresses and the most advanced applications of hydrogen and fuel cell-based technologies. The event will bring together academia, industry, stakeholder and public sector, thus providing an excellent opportunity toshare knowledge, experiences and research results on all aspects related to hydrogen.

The conference is organized by ATENA, an e-SHyIPS partner, along with ENEA, University of Naples "Parthenope" and University of Perugia.

The event is open to all those with an interest in hydrogen and fuel cells technologies and in clean energy, in general.The event represents a unique opportunity to intensify international cooperation, expanding understanding and promoting efforts and disciplines in the field of hydrogen, as well as to learn about market opportunities, global policies and future energy scenarios.

ATENA FUTURE TECHNOLOGY

ENEA Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile

Università degli Studi di Napoli Parthenope

A.D. 1308 unipg UNIVERSITÀ DEGLI STUDI DI PERUGIA