



H2EXCELLENCE

Partnership for Excellence - Centres of Vocational Excellence Projects selected for funding under the ERASMUS+ 2022 call

The **Fuel Cells and Green Hydrogen Centres of Vocational Excellence towards affordable, secure, and sustainable energy for Europe** project aims to close the existing skills gap in the fuel cells and clean hydrogen industry. The project will establish the H2Excellence Platform of Vocational Excellence that will create and implement lifelong learning offers and develop transnational curricula. In addition, by creating local clusters in a subset of countries with high potential for industry and the development of training programs and curricula, the desired impact of the project is to contribute to the energy transition targets laid out in the European Green Deal.

Main objectives

- To support the goals of the European Green Deal by creating an educational offer that will tackle skills gaps in the sector of fuel cells and clean hydrogen technology.
- To create pan-European knowledge centres to become a benchmark in training, research, knowledge-transfer, and awareness-raising on fuel cells and green hydrogen technology.
- To map and integrate green hydrogen in local regional economic and innovative systems to contribute to quality employment and career-long opportunities in the sector.

Main deliverables

- Connect and build 6 national CoVEs on green hydrogen technologies within an international European platform of Centres of Vocational Excellence on green hydrogen technologies and applications.
- Investigate state of the art, national/regional hydrogen roadmaps, and large-scale emerging hydrogen projects driving the need for new/upgraded market skills. To assess skill market

needs based on company survey consultations, followed by identification of profiles and competencies needs for development and requalification of professional profiles.

- Design, deploy and pilot different EQF level (3-8) lifelong and professional trainings, education programmes and qualification (for learners, workforce, teachers) in green hydrogen value chain areas including production, transportation, storage, and applications.
- Design, deploy and pilot a teacher upskilling training programme, equipping VET trainers with skills and expertise to teach FC and hydrogen technologies.
- Design, develop and pilot a mobility programme dedicated to support teachers, students, and staff in mobility actions across CoVEs.
- Design and develop open innovation, competitions and flagship projects oriented towards the increase of the attractiveness of the sector among VET students, teachers, engineers, and professionals.
- Design and develop training and technical support initiatives for SMEs in green hydrogen technologies, addressing technical, training, and reskilling topics.
- Design, plan, and pilot dedicated learning environment/lab (physical lab) to support the development of H2Excellence e-learning interactive activities in Green Hydrogen technologies and more broadly for teaching and training hydrogen related subjects to staff, students, and lifelong learners.

Project duration **4 years**

EU grant **€ 3.996.343**

Lead organisation **Vaasa University of Applied Sciences**

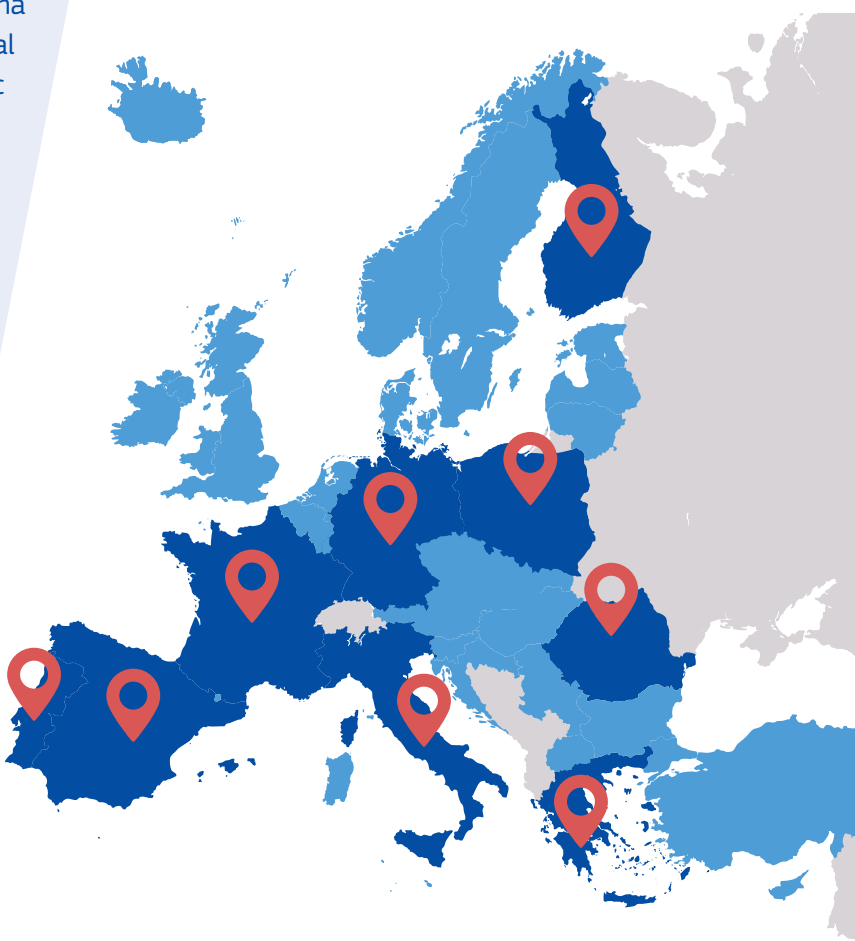
Location **Wolffintie 30, 65200 Vaasa, Finland**

Partners

FINLAND Vaasa University of Applied Sciences; Oy Merinova Ab; Vaasan Kaupunki. **FRANCE** Pôle Véhicule du Future.

GERMANY Europäischer Verband Beruflicher Bildungsträger (Evbb) Ev. **GREECE** Eeo Group SA. **ITALY** National Agency for New Technologies, Energy and Sustainable Economic Development; University of Perugia; Enti CONfindustriali Lombardi per l'Education; Federation of Scientific and Technical Associations; Atena scarl - Distretto Alta tecnologia Energia Ambiente Italy. **POLAND** Regionalna Izba Gospodarcza Pomorza. **PORTUGAL** National Laboratory for Energy and Geology; Polytechnic Institute of Portalegre; Instituto de Soldadura e Qualidade. **ROMANIA** Ascendis Consulting. **SPAIN** Centro Superior de Formación Europa Sur; Mondragon Goi Eskola Politeknikoa Jose Maria Arizmendiarieta S Coop; Energy Cluster of Valencia Region; Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas; University of Malaga; Parque Tecnológico De Andalucía Sa-Pta.

Countries
Finland, France,
Germany, Greece, Italy,
Poland, Portugal,
Romania, Spain



For more information

ec.europa.eu/social/vocational-excellence

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