

H2CoVE

2024 – 2028

Hydrogen Centres of Vocational Excellence

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Why hydrogen skills matter?

- Governments and industries have set **ambitious goals** for hydrogen production in **Europe**.
- Hydrogen is an enabler of **decarbonation, energy security and industrial innovation**.
- A **skilled workforce** is a prerequisite to reaching the industry's and governments' hydrogen-sustainable goals.
- Important for **energy security** as hydrogen can be stored.
- Knowledge from different **countries and regions in Europe** is needed to complement the missing expertise across **the value chain**.



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Picture made by copilot AI



Regional Example: HyFuel investment decision

- Green Hydrogen production for the maritime sector, transport, construction and industry.
- 20 MW
- Delivered by NEL a 50 million US dollars
- Development of new value chains
- **How many skills do you need?**



Hyfuel AS is owned by HYDS, Sogn og Fjordane Energi AS and Fjord Base Holding AS. The new green hydrogen plant will be located at the supply base in Florø.

Rigging for green hydrogen production in Florø

The green hydrogen production project Hyfuel in Florø is embarking on the next leg after an investment decision to start building a new facility at Fjord Base in Florø. When in operation the facility will deliver 20 MW of green hydrogen production.

What skills do we need in the hydrogen value chain

H2cove Regional Roadmap

Vocational education:

- Mechanical repair and maintenance skills
- Welding and fabrication
- Electrical installation and maintenance
- Process operation skills
- Safety and risk management
- Equipment troubleshooting
- Maritime technical skills
- Practical problem-solving

Higher vocational education:

- Hydrogen production operations
- Fuel cell and electrolyser maintenance
- Automation and robotics
- Process technology
- Quality control
- Logistics and supply chain skills
- Technical documentation
- Environmental and safety compliance

Higher education:

- Engineering skills (electrical, mechanical, energy)
- ICT and digital systems
- Data analysis and modelling
- Automation and robotics
- Hydrogen and renewable energy expertise, Electrochemistry and materials science
- Research and innovation skills
- Project management and leadership
- Sustainability and environmental assessment
- System integration and optimisation
- Technical communication
- Commercialisation and business development

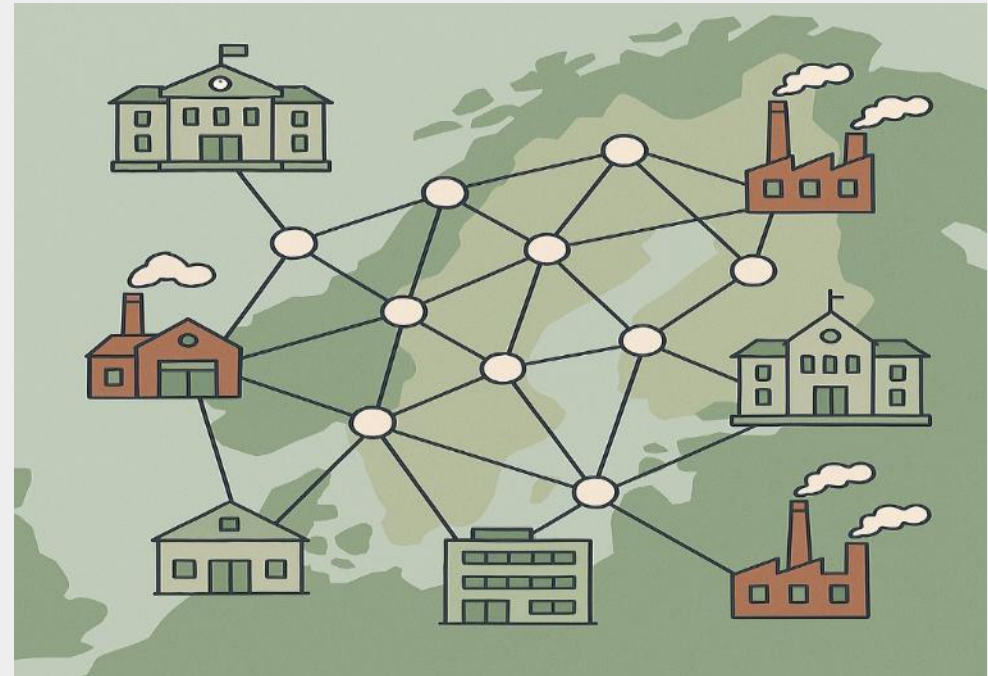
What can the H2CoVE project do?

Create hydrogen vocational courses and training modules



Pictures: Made by ChatGPT

Regional and European Networks
(Ecosystem or CoVEs)



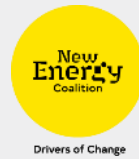
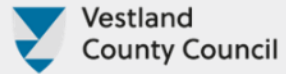
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Our impact goals

- 25 Formal learning courses
- 1,000 Employees upskilled or reskilled within the industries
- 800 Business stakeholders engaged
- 75 Teachers involved in "Train the Trainer" courses
- 80 Participants in the international teacher training workshops
- 300 Participants in information sessions for people outside the workforce
- 100 Students participate in the 5 partner regions student competitions
- 30 Students and 10 staff members participate in the international competitions
- 12 Project/Bachelor's or Master's thesis



The Partners



Precarpathian
eco-energy cluster





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Dialogue with stakeholders in all regions



A growing hydrogen vocational network



H2 Train and Learn Hub

JTF H2 Train and Learn Hub



SCHMIDLIN
GASGENERATOREN | LABORAUSRÜSTUNG | ZUBEHÖR

SCHMIDLIN Smart Energy Solutions



Kurtala

Kurtala Green Ammonia AS



Federazione delle associazioni
scientifiche e tecniche
fondata nel 1897

FAST - Federazione Associazioni Scientifiche e Tecniche
Federation of Scientific and Technical Associations (FAST)



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Hochschule Nordhausen University of Applied Sciences



H2VE - Hydrogen Valley Vocational Excellence Hub



Eco-Stream Maroc



Gewerblichen Schule Backnang
Commercial School Backnang



FH Oberösterreich
University of Applied Sciences Upper Austria



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News

Education and Skills for Estonia's Hydrogen Future

At the Tartu Hydrogen Days 2025, Mare Roosileht, Director of TalTech Virumaa College and Estonian regional coordinator of the H2CoVE project, delivered an Ecosystem Talk titled Education and Workforce Development for Securing Estonia's Hydrogen Future. Her presentation provided an overview of Estonia's progress in building hydrogen competence and summarised the results of a national skills and education analysis carried out within the European H2CoVE project. [...get more information](#)



News

Our H2CoVE team was proud to take part in the Forum on Vocational Excellence 2025 in Kolding, Denmark!

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News

Hands-on experience of green hydrogen technology - HTL-Kramsach started with exciting excursions.

Since the start of the H2CoVE project in March 2024, the Tyrolean project partners from business, science and education have laid essential groundwork in terms of data collection and network development. In the 2025 summer term, H2CoVE project partner HTL Kramsach organised three excursions to provide students with practical insights into hydrogen technologies. [...get more information](#)



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The Future of Hydrogen Education and Skills

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