

HyResponder

EUROPEAN HYDROGEN TRAIN THE TRAINER PROGRAMME FOR RESPONDERS



Project ID:	875089
PRD 2023:	Panel 5 – cross-cutting
Call topic:	FCH-04-1-2019: Training of responders
Project total costs:	EUR 1 000 000
Clean H₂ JU max. contribution:	EUR 1 000 000
Project period:	1.1.2020–31.5.2023
Coordinator:	University of Ulster, United Kingdom
Beneficiaries:	Association Comité National Français du Comité Technique International de prévention et d'extinction de Feu, Ayuntamiento de Zaragoza, Commissariat à l'énergie atomique et aux énergies alternatives, Crisis Simulation Engineering SARL, Deutsches Zentrum für Luft- und Raumfahrt EV, DLR Institut für Vernetzte Energiesysteme EV, Ecole nationale supérieure des officiers de sapeurs-pompiers, Fire Service College Limited, International Fire Academy, Air Liquide SA, Landes-Feuerwehrverband Tirol, Ministry of the Interior of the Czech Republic, Persee, Service Public Fédéral Intérieur, Università degli Studi di Roma la Sapienza, Universitetet i Sørøst-Norge

<https://hyresponder.eu/>

PROJECT AND OBJECTIVES

The aim of HyResponder is to develop and implement a sustainable trainers' programme on hydrogen safety for responders throughout Europe. The updated operational, virtual reality and educational training reflects state-of-the-art hydrogen safety. The *European Emergency Response Guide* has been revised. Translated materials for responders will be available in eight languages via a purpose-built e-platform. The translated materials will be utilised by trainers to deliver workshops and impact training nationally in 10 European countries, enhancing the reach of the programme.

NON-QUANTITATIVE OBJECTIVES

- HyResponder aimed to embed elements of the training at national level. Each country has a short- to medium-term plan to maximise impact during and beyond HyResponder.
- The project aimed to develop a formal module/certificate. A draft document has been prepared with the key learning outcomes, content, etc., which will be trialled by some partners during national training.
- It aimed to develop training packages at different levels. Stratified educational materials are now available.

PROGRESS AND MAIN ACHIEVEMENTS

Three activities have been evaluated by the Innovation Radar. The translated material is now available:

- e-platform to support training of responders in hydrogen safety (<https://innovation-radar.ec.europa.eu/innovation/44458>);
- stratified training materials for responders spanning four learning levels (<https://innovation-radar.ec.europa.eu/innovation/44457>);
- novel training sequences to support online training of responders (<https://innovation-radar.ec.europa.eu/innovation/44454>).

FUTURE STEPS AND PLANS

- Within HyResponder, trainers from across Europe have undertaken online (June 2021) and operational (June 2022) training.
- The trainers used this training to deliver training in their regions, as part of HyResponder, but also to ensure that a plan is in place beyond the project.
- The consortium is documenting this through a deliverable and through a paper submitted to the *International Journal of Hydrogen Energy*.

QUANTITATIVE TARGETS AND STATUS

Target source	Parameter	Target	Achieved to date by the project	Target achieved?
Project's own objectives	Training events (1 train-the-trainer event, 10 national events)	12	5	⚙️
	Threefold training materials (lectures, operational training, virtual reality training)	3	3	✓
	Revised <i>European Emergency Response Guide</i>	1	1	✓
	Materials translated into eight languages	8	8 but not all elements	⚙️