



Hydrogen Europe: European Hydrogen & Fuel cell Project Database

Project REMOTE

Remote area Energy supply with Multiple Options for integrated hydrogen-based TEchnologies

REMOTE will demonstrate technical and economic feasibility of two fuel cells-based H₂ energy storage solutions (integrated P2P system; non-integrated P2G+G2P system), deployed in 4 DEMOs, based on renewables, in isolated micro-grid or off grid remote areas. DEMO 1: Ginostra (South Italy): off-grid configuration (island); RES based on hybrid system with PV- generators; residential loads on-site; almost complete substitution of fossil fuels. End-user: ENEL Green Power utility; DEMO 2: (Greece): isolated micro-grid application; RES based on hydro generators; industrial (SME) loads onsite; complete substitution of fossil fuels; avoid costs for new transmission line. End-user: Horizon SA owner of hydro plant; DEMO 3: Ambornetti (North Italy): off-grid configuration (remote Alps); RES based on hybrid system with PVbiomass CHP generators; residential loads on-site; complete substitution of fossil fuels. End-user: IRIS stakeholder of the hamlet; DEMO 4: Froan Island (Norway): isolated micro-grid application; RES based on hybrid system with PV-wind generators; residential loads+ fish industry on-site; complete substitution of fossil fuels; avoid costs for new transmission line. End-user: Trønder Energi utility. VALIDATE the 4 DEMO units, to enable suppliers, end-users and general stakeholders to gain experience throughout the value chain of the energy storage; DEMONSTRATE the added value of the fuel cell-based H₂ energy storage solutions with respect to alternative technologies in terms of economics, technical and environmental benefits; VALIDATE EU-based sub-MW P2P manufacturing solutions to fill the gap in the European energy storage sector while utilising the existing EU know-how already developed in previous consortium among partners; EXPLOITATION and BUSINESS scenarios for the replication of P2P solutions, considering different typologies of micro-grids (isolated or not); DISSEMINATION, build up confidence among stakeholders and raise public interest.

Project Information

Type of project : Demonstration

Timing : 01/01/2018 > 31/12/2021

Project Budget : 6.761.557 €

Funding

European Union through FCH JU: [Grant agreement 779541 - CORDIS link](#)

Project partners

Coordinator :[Politecnico di Torino](#)**Partners :**[Ballard Power System Europe A/S \(Previously Dantherm\)](#)[EPS S.r.l \(previously Electro Power Systems\)](#)[CERTH \(National Centre for Research and Technology Hellas\) with CPERI](#)[Hydrogenics Europe](#)[REMOTE](#)[Stiftelsen SINTEF](#)[ENEL GREEN POWER](#)[IRIS SRL](#)[ORIZWN ANONYMH TECHNIKI ETAIREIA](#)[TRONDERENERGI AS](#)

Sub project(s)**Sub project 1****Country:** Italy**Address:** Corso Duca degli Abruzzi 24 10129 TORINO**Sub project categories**

Demonstration

Project Id: 1241

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