

**Appels à propositions dans le cadre du programme européen pour la recherche et l'innovation
« HORIZON EUROPE »**

Partenariats JTI

Clean Hydrogen

Titre	Type	Budget	Date d'ouverture	Date limite
HORIZON-JTI-CLEANH2-2022 (HORIZON-JTI-CLEANH2-2022-1)				
HORIZON-JTI-CLEANH2-2022-01-01 - Development and validation of pressurised high temperature steam electrolysis stacks (Solid Oxide Electrolysis)	RIA			
HORIZON-JTI-CLEANH2-2022-01-02 - Development and validation of pressurised high temperature steam electrolysis stacks (Proton Conducting Ceramic Electrolysis)	RIA			
HORIZON-JTI-CLEANH2-2022-01-03 - Development of low temperature water electrolyzers for highly pressurised hydrogen production	RIA			
HORIZON-JTI-CLEANH2-2022-01-06 - Efficiency boost of solar thermochemical water splitting	RIA			
HORIZON-JTI-CLEANH2-2022-01-07 - Bringing green hydrogen MW scale off grid installations closer to technical and financial maturity	IA			
HORIZON-JTI-CLEANH2-2022-01-09 - Scaling-up technologies for SOEL	RIA			
HORIZON-JTI-CLEANH2-2022-02-02 - Hydrogen and H2NG leak detection for continuous monitoring and safe operation of HRS and future hydrogen/H2NG networks	RIA			
HORIZON-JTI-CLEANH2-2022-02-03 - Validation of a high-performance hydrogen liquefier	RIA			
HORIZON-JTI-CLEANH2-2022-02-07 - Increased hydrogen capacity of GH 2 road trailers	RIA			
HORIZON-JTI-CLEANH2-2022-02-08 - Development of novel or hybrid concepts for reliable, high capacity and energy-efficient H2 compression systems at real-world scale	IA			
HORIZON-JTI-CLEANH2-2022-02-09 - Sampling methodology and quality assessment of HRS	RIA			

HORIZON-JTI-CLEANH2-2022-02-10 - Implementing new/optimised refuelling protocols and components for high flow HRS	RIA	179,5 M€	31/03/2022	31/05/2022
HORIZON-JTI-CLEANH2-2022-03-02 - Innovative and optimised MEA components towards next generation of improved PEMFC stacks for heavy duty vehicles	RIA			
HORIZON-JTI-CLEANH2-2022-03-03 - Large scale demonstration of European H2 Heavy Duty Vehicle along the TEN-T corridors	IA			
HORIZON-JTI-CLEANH2-2022-03-04 - LH2 tanks for heavy-duty vehicles	RIA			
HORIZON-JTI-CLEANH2-2022-03-05 - Large scale demonstration of hydrogen fuel cell propelled inland waterway vessels	IA			
HORIZON-JTI-CLEANH2-2022-03-06 - Development and optimisation of a dedicated Fuel Cells for Aviation: from dedicated stack (100s kW) up to full system (MWs)	RIA			
HORIZON-JTI-CLEANH2-2022-03-07 - Development of specific aviation cryogenic storage system with a gauging, fuel metering, heat management and monitoring system	RIA			
HORIZON-JTI-CLEANH2-2022-03-08 - Development and optimisation of a dedicated Fuel Cells for Aviation: disruptive next-gen high temperature Fuel Cells technology for future aviation	RIA			
HORIZON-JTI-CLEANH2-2022-04-02 - Ammonia powered fuel cell system focusing on superior efficiency, durable operation and design optimisation	RIA			
HORIZON-JTI-CLEANH2-2022-04-03 - Reversible SOC system development, operation and energy system (grid) integration	RIA			
HORIZON-JTI-CLEANH2-2022-04-04 - Dry Low NOx combustion of hydrogen-enriched fuels at high-pressure conditions for gas turbine applications	RIA			
HORIZON-JTI-CLEANH2-2022-05-02 - Safety of cryogenic hydrogen transfer technologies in public areas for mobile application	RIA			
HORIZON-JTI-CLEANH2-2022-05-04 - Development of validated test methods and requirements for measuring devices intended for measuring NG/H2 mixtures	RIA			
HORIZON-JTI-CLEANH2-2022-05-05 - Research & Innovation co-operation with Africa on hydrogen	CSA			

HORIZON-JTI-CLEANH2-2022-07-01 - Addressing the sustainability and criticality of electrolyser and fuel cell materials	RIA			
HORIZON-JTI-CLEANH2-2022 (HORIZON-JTI-CLEANH2-2022-2)				
HORIZON-JTI-CLEANH2-2022-01-04 - Design for advanced and scalable manufacturing of electrolysers	RIA			
HORIZON-JTI-CLEANH2-2022-01-05 - Scaling up of cells and stacks for large electrolysers	RIA			
HORIZON-JTI-CLEANH2-2022-01-08 - Integration of multi-MW electrolysers in industrial applications	IA			
HORIZON-JTI-CLEANH2-2022-01-10 - Demonstrating offshore production of green hydrogen	IA			
HORIZON-JTI-CLEANH2-2022-02-01 - Compatibility of Distribution non-steel metallic gas grid materials with hydrogen	RIA			
HORIZON-JTI-CLEANH2-2022-02-04 - Ammonia to Green Hydrogen: efficient system for ammonia cracking for application to long distance transportations	RIA			
HORIZON-JTI-CLEANH2-2022-02-05 - Efficient system for dehydrogenation of liquid organic hydrogen carriers for application to long distance transportations	RIA			
HORIZON-JTI-CLEANH2-2022-02-06 - Development of large scale LH2 containment for shipping	RIA	121 M€	31/03/2022	20/09/2022
HORIZON-JTI-CLEANH2-2022-02-11 - Development and demonstration of mobile and stationary compressed hydrogen refuelling solutions for application in inland shipping and short-distance maritime operations	IA			
HORIZON-JTI-CLEANH2-2022-03-01 - Development and optimisation of reliable and versatile PEMFC stacks for high power range applications	RIA			
HORIZON-JTI-CLEANH2-2022-04-01 - Design and industrial deployment of innovative manufacturing processes for fuel cells and fuel cell components	IA			
HORIZON-JTI-CLEANH2-2022-05-01 - Public understanding of hydrogen and fuel cell technologies	CSA			
HORIZON-JTI-CLEANH2-2022-05-03 - Safe hydrogen injection management at network-wide level: towards European gas sector transition	RIA			

HORIZON-JTI-CLEANH2-2022-06-01 - Hydrogen Valleys (large-scale)	IA			
HORIZON-JTI-CLEANH2-2022-06-02 - Hydrogen Valleys (small-scale)	IA			