

**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
<b>HORIZON-JTI-CLEANH2-2022 (HORIZON-JTI-CLEANH2-2022-1)</b>				
<a href="#">HORIZON-JTI-CLEANH2-2022-01-01 - Development and validation of pressurised high temperature steam electrolysis stacks (Solid Oxide Electrolysis)</a>	RIA			
<a href="#">HORIZON-JTI-CLEANH2-2022-01-02 - Development and validation of pressurised high temperature steam electrolysis stacks (Proton Conducting Ceramic Electrolysis)</a>	RIA			
<a href="#">HORIZON-JTI-CLEANH2-2022-01-03 - Development of low temperature water electrolyzers for highly pressurised hydrogen production</a>	RIA			
<a href="#">HORIZON-JTI-CLEANH2-2022-01-06 - Efficiency boost of solar thermochemical water splitting</a>	RIA			
<a href="#">HORIZON-JTI-CLEANH2-2022-01-07 - Bringing green hydrogen MW scale off grid installations closer to technical and financial maturity</a>	IA			
<a href="#">HORIZON-JTI-CLEANH2-2022-01-09 - Scaling-up technologies for SOEL</a>	RIA			
<a href="#">HORIZON-JTI-CLEANH2-2022-02-02 - Hydrogen and H2NG leak detection for continuous monitoring and safe operation of HRS and future hydrogen/H2NG networks</a>	RIA			
<a href="#">HORIZON-JTI-CLEANH2-2022-02-03 - Validation of a high-performance hydrogen liquefier</a>	RIA			
<a href="#">HORIZON-JTI-CLEANH2-2022-02-07 - Increased hydrogen capacity of GH 2 road trailers</a>	RIA			
<a href="#">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</a>	IA			
<a href="#">HORIZON-JTI-CLEANH2-2022-02-09 - Sampling methodology and quality assessment of HRS</a>	RIA			

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

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

<a href="#">HORIZON-JTI-CLEANH2-2022-06-01 - Hydrogen Valleys (large-scale)</a>	IA			
<a href="#">HORIZON-JTI-CLEANH2-2022-06-02 - Hydrogen Valleys (small-scale)</a>	IA			



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

**Partenariats JTI**

**Europe's Rail**

<b>Titre</b>	<b>Type</b>	<b>Budget</b>	<b>Date d'ouverture</b>	<b>Date limite</b>
<b>EU-RAIL JU Call Proposals 2022-01 (HORIZON-ER-JU-2022-01)</b>				
<a href="#">HORIZON-ER-JU-2022-FA6-01 - Regional rail services / Innovative rail services to revitalise capillary lines</a>	IA	16,5 M€	10/03/2022	23/06/2022
<a href="#">HORIZON-ER-JU-2022-FA4-01 -A sustainable and green rail system</a>	IA	38,3 M€		
<a href="#">HORIZON-ER-JU-2022-FA1-TT-01- Network management planning and control &amp; Mobility Management in a multimodal environment and Digital Enablers</a>	IA	38 M€		
<a href="#">HORIZON-ER-JU-2022-FA3-01-Intelligent &amp; Integrated asset management</a>	IA	46,3 M€		
<a href="#">HORIZON-ER-JU-2022-FA5-01-Sustainable Competitive Digital Green Rail Freight Services</a>	IA	40,6 M€		
<a href="#">HORIZON-ER-JU-2022-FA2-01-Digital &amp; Automated up to Autonomous Train Operations</a>	IA	54,3 M€		

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

**Partenariats JTI**

**Clean Aviation**

<b>Titre</b>	<b>Type</b>	<b>Budget</b>	<b>Date d'ouverture</b>	<b>Date limite</b>
<b>Clean Aviation CfP 01 (HORIZON-JU-Clean-Aviation-2022-01)</b>				
<b>Hydrogen-powered aircraft topics</b>				
<a href="#">HORIZON-JU-CLEAN-AVIATION2022-01-HPA-01 - Direct Combustion of Hydrogen in Aeroengines</a>	IA	115 M€	12/04/2022	23/06/2022
<a href="#">HORIZON-JU-CLEAN-AVIATION2022-01-HPA-02 - Multi-MW Fuel Cell Propulsion System for Hydrogen-Powered Aircraft</a>	IA	50 M€		
<a href="#">HORIZON-JU-CLEAN-AVIATION2022-01-HPA-03 - Large Scale Lightweight Liquid Hydrogen Integral Storage Solutions</a>	IA	10 M€		
<a href="#">HORIZON-JU-CLEAN-AVIATION2022-01-HPA-04 - Near Term Disruptive Technologies for Hydrogen-Powered Aircraft</a>	IA	7 M€		
<b>Hybrid-electric powered regional aircraft topics</b>				
<a href="#">HORIZON-JU-CLEAN-AVIATION2022-01-HER-01 - Multi-MW Hybrid-Electric Propulsion System for Regional Aircraft</a>	IA	75 M€	12/04/2022	23/06/2022
<a href="#">HORIZON-JU-CLEAN-AVIATION2022-01-HER-02 - Thermal Management Solutions for Hybrid Electric Regional Aircraft</a>	IA	40 M€		
<a href="#">HORIZON-JU-CLEAN-AVIATION-2022-01-HER-03 - Electrical Distribution Solutions for Hybrid-electric Regional Aircraft</a>	IA	40 M€		
<a href="#">HORIZON-JU-CLEAN-AVIATION2022-01-HER-04 - Innovative Wing Design for Hybrid-Electric Regional Aircraft</a>	IA	20 M€		
<b>Short/short-medium range aircraft topics</b>				
<a href="#">HORIZON-JU-CLEAN-AVIATION-2022-01-SMR-01 - Ultra Efficient Propulsion Systems for Short and Short-Medium Range Aircraft</a>	IA	175 M€	12/04/2022	23/06/2022
<a href="#">HORIZON-JU-CLEAN-AVIATION2022-01-SMR-02 - Ultra Performance Wing for Short and Short-medium Range Aircraft</a>	IA	55 M€		
<a href="#">HORIZON-JU-CLEAN-AVIATION2022-01-SMR-03 - Advanced Low Weight Integrated Fuselage and Empennage for Short Range and Short-Medium Range Aircraft</a>	IA	40 M€		

Transversal activity topics				
<a href="#">HORIZON-JU-CLEAN-AVIATION2022-01-TRA-01 - Aircraft architectures &amp; technology integration for aircraft concepts ranging from regional to short-medium range applications</a>	IA	90 M€	12/04/2022	23/06/2022
<a href="#">HORIZON-JU-CLEAN-AVIATION2022-01-TRA-02 - Novel Certification Methods and Means of Compliance for Disruptive Technologies</a>	IA	18 M€		
Coordination and Support Actions				
<a href="#">HORIZON-JU-CLEAN-AVIATION-2022-01-CSA-01 - Developing a European Clean Aviation Regional Ecosystem (ECARE)</a>	CSA	0,72 M€	12/04/2022	23/06/2022

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

**Partenariats JTI**

**Key Digital Technologies (KDT)**

Titre	Type	Budget	Date d'ouverture	Date limite
<b>HORIZON-KDT-JU-2022-1-IA (HORIZON-KDT-JU-2022-1-IA)</b>				
IA				
<a href="#">HORIZON-KDT-JU-2022-1-IA-Topic-1 - General according to ECS-SRIA 202</a>	IA	120 M€	03/05/2022	21/09/2022
<a href="#">HORIZON-KDT-JU-2022-1-IA-Focus-Topic-2 - Industrial supply chain for silicon photonics</a>	IA	20 M€		
<a href="#">HORIZON-KDT-JU-2022-1-IA-Focus-Topic-3 - Design of Customisable and Domain Specific Open-source RISC-V Processors</a>	IA	20 M€		
<b>HORIZON-KDT-JU-2022-2-RIA (HORIZON-KDT-JU-2022-2-RIA)</b>				
<a href="#">HORIZON-KDT-JU-2022-2-RIA-Topic-1 - General according to ECS-SRIA 2022</a>	RIA	74,5 M€	03/05/2022	21/09/2022
<a href="#">HORIZON-KDT-JU-2022-2-RIA-Focus-Topic-2 - Ecodesigned smart electronic systems supporting the Green Deal objectives</a>	RIA	20 M€		