2022-06-29

Clean Hydrogen

Stefan Fischer, PhD
National Contact Point for Energy and EIC
Euresearch Network Office

stefan.fischer@euresearch.ch

euresearch

at your side for 20 years

Status of Switzerland in Horizon Europe

Stefan Fischer, PhD
NCP Energy
Euresearch Network Office

stefan.fischer@euresearch.ch

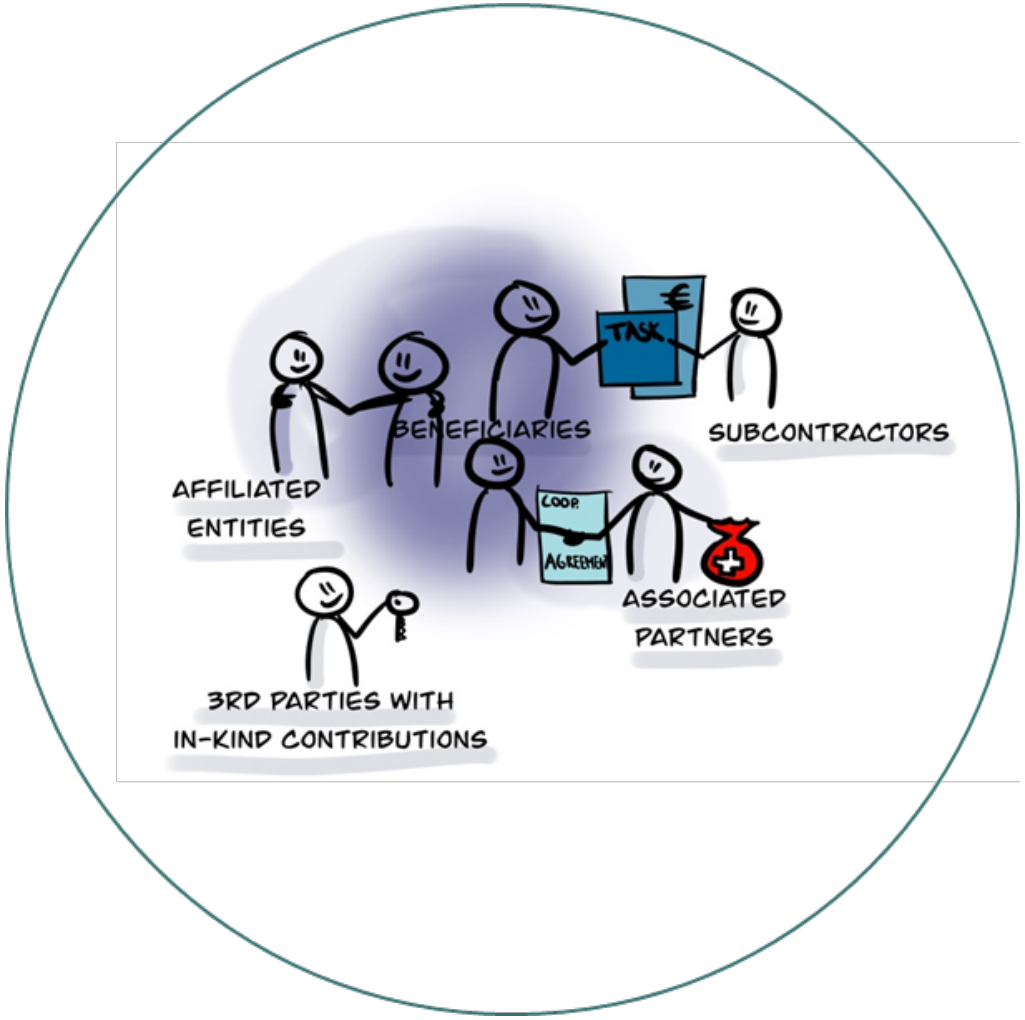
Status of Switzerland in Horizon Europe

Switzerland is not (yet) associated to Horizon Europe.

- As a non-EU country, Switzerland has to negotiate the association to Horizon Europe.
- Swiss entities can participate in collaborative research projects as “Associated Partners”.

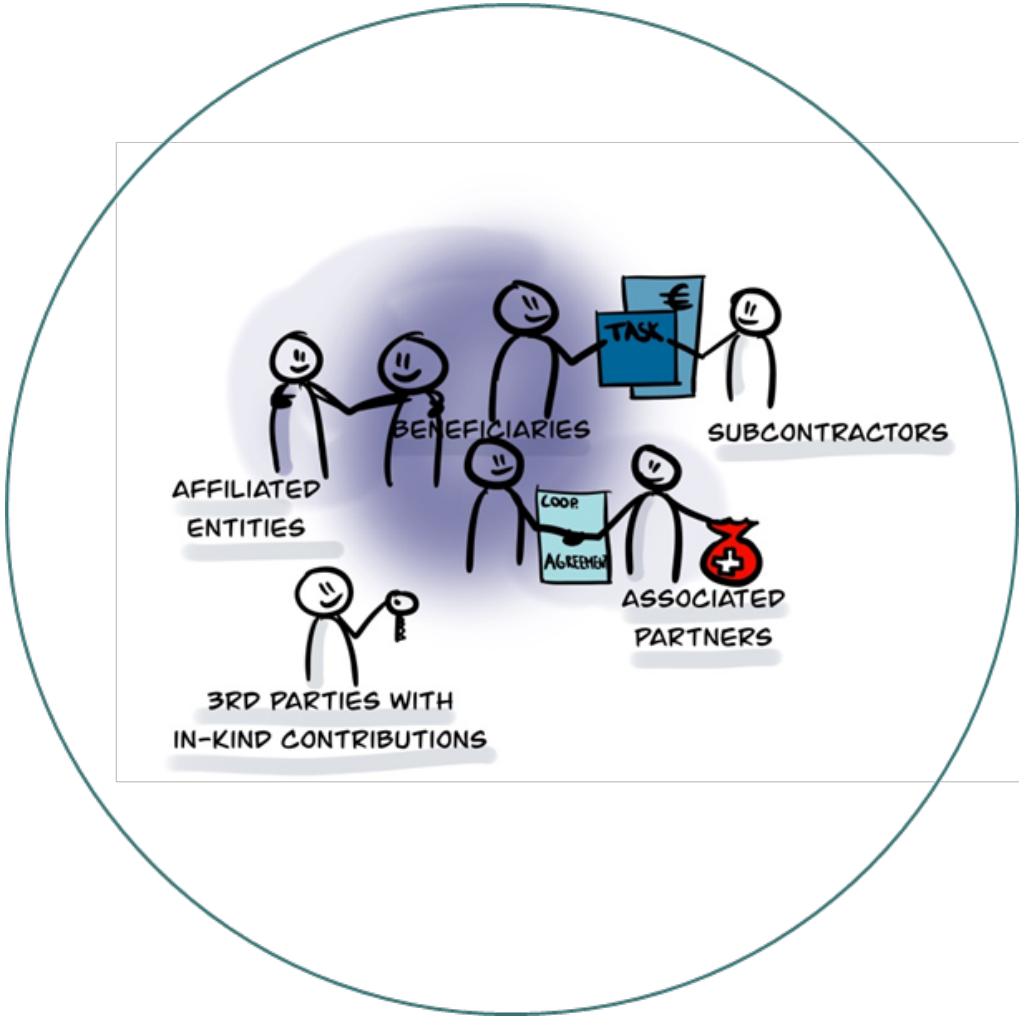
Associated Partners

- Have an active role in the project with tasks and deliverables
- Their role is clearly described in the proposal
- Can lead work packages
- **Cannot be coordinators**



Associated Partners

- They don’t sign the Grant Agreement
- Typically **sign the Consortium Agreement** or a separate collaboration agreement
- **Swiss AP costs are eligibile for SERI funding**



Horizon Europe – upcoming call deadlines

Switzerland aims for association to Horizon Europe

- Plan your project participation as Associated Partner also for the 2022 calls.
- Funding for your project participation is available: SERI provides a written funding guarantee.
- Keep an eye on the developments and adapt your narrative in the proposal accordingly.

More Information

The Swiss State Secretariat for Education, Research and Innovation (SERI) informs regularly on their dedicated website, including FAQ for researchers:

www.horizon-europe.ch

Where to start with Horizon Europe

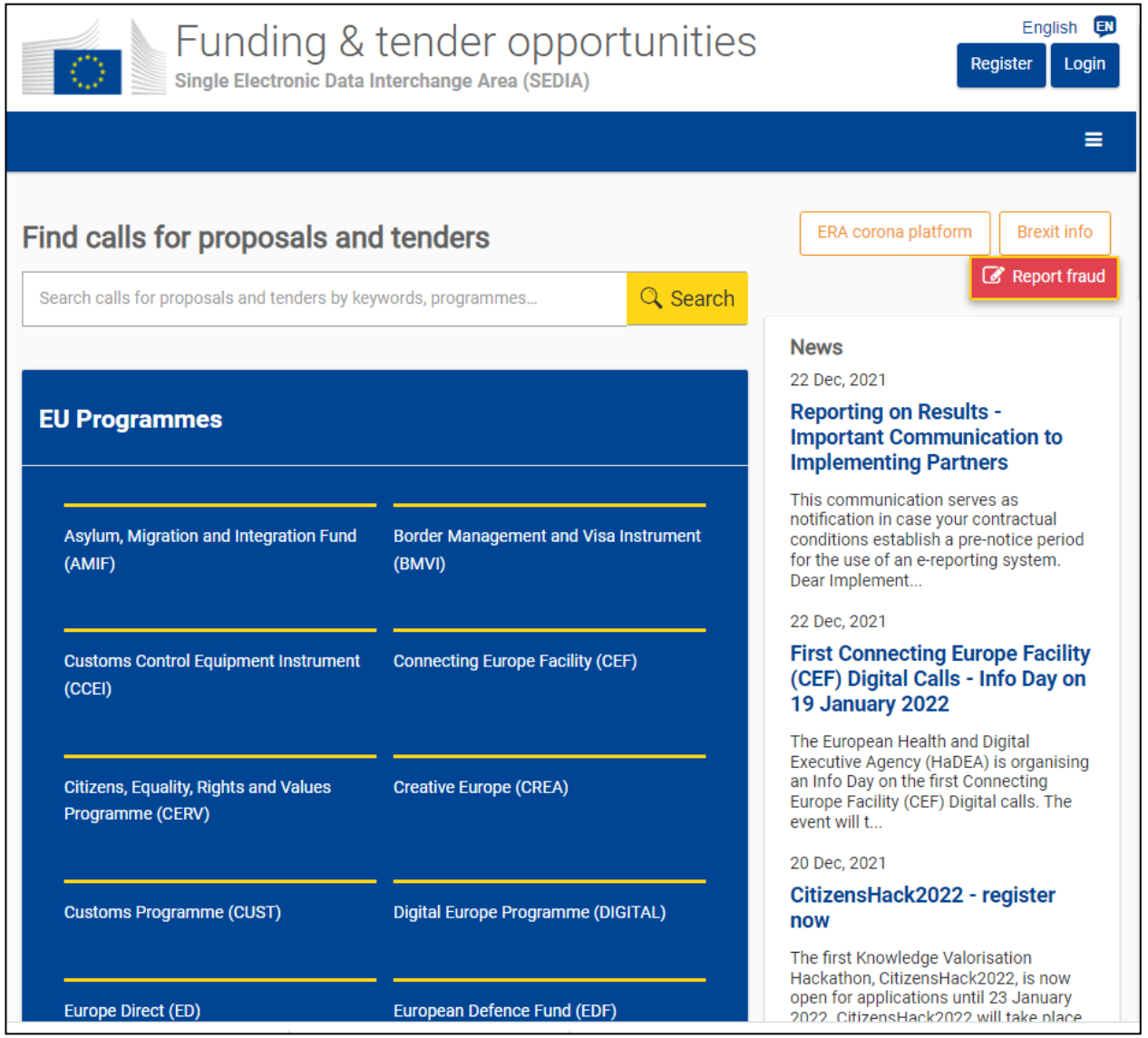
Stefan Fischer, PhD
NCP Energy
Euresearch Network Office

stefan.fischer@euresearch.ch

Where to start?

Use the Funding & Tender Opportunities Portal to:

- Find suitable topics
- Consult reference documents:
  - Work programmes
  - Call conditions
  - Budgets
  - General annexes
  - Templates: application forms
  - Evaluation forms
  - Model grant agreements
- Read the topic-related FAQs
- Submit proposals
- Manage running projects



Topic texts

Horizon Europe Topic Texts	Source
Topic text on the Funding & tender portal with search function	Funding & tender opportunities portal
Work programmes, forms, evaluation forms, …	Funding & tender opportunities portal  Reference documents

Clean Hydrogen JU Topics	Source
Topic text on the Funding & tender portal with search function	Funding & tender opportunities portal
Work programmes of the Joint Undertakings, SRIA, …	– Links under section « **Topic conditions and documents** » – Clean Hydrogen JU web site

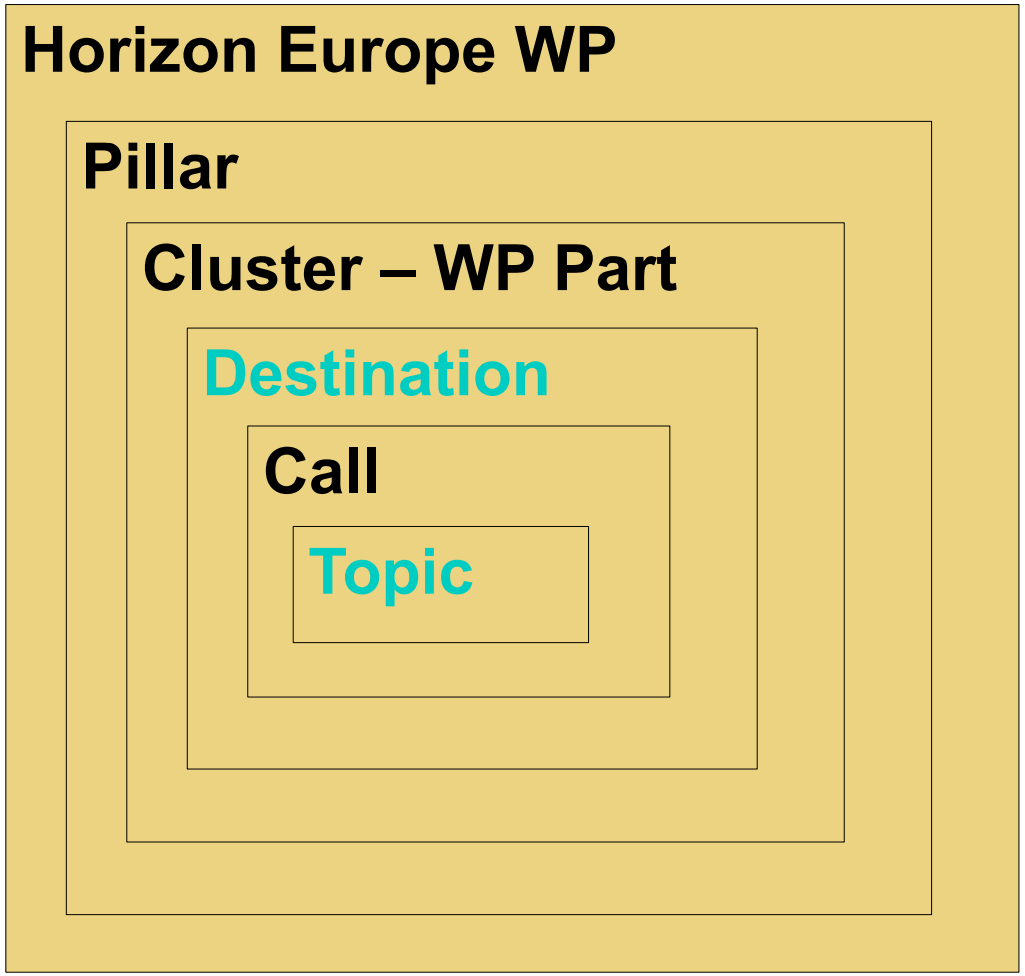
- There are many other framework programmes on the Funding & tender portal, with very limited access for Swiss applicants, always choose **Horizon Europe.**
- Consider searching for tenders (also on Ted).

Key Novelties in Horizon Europe

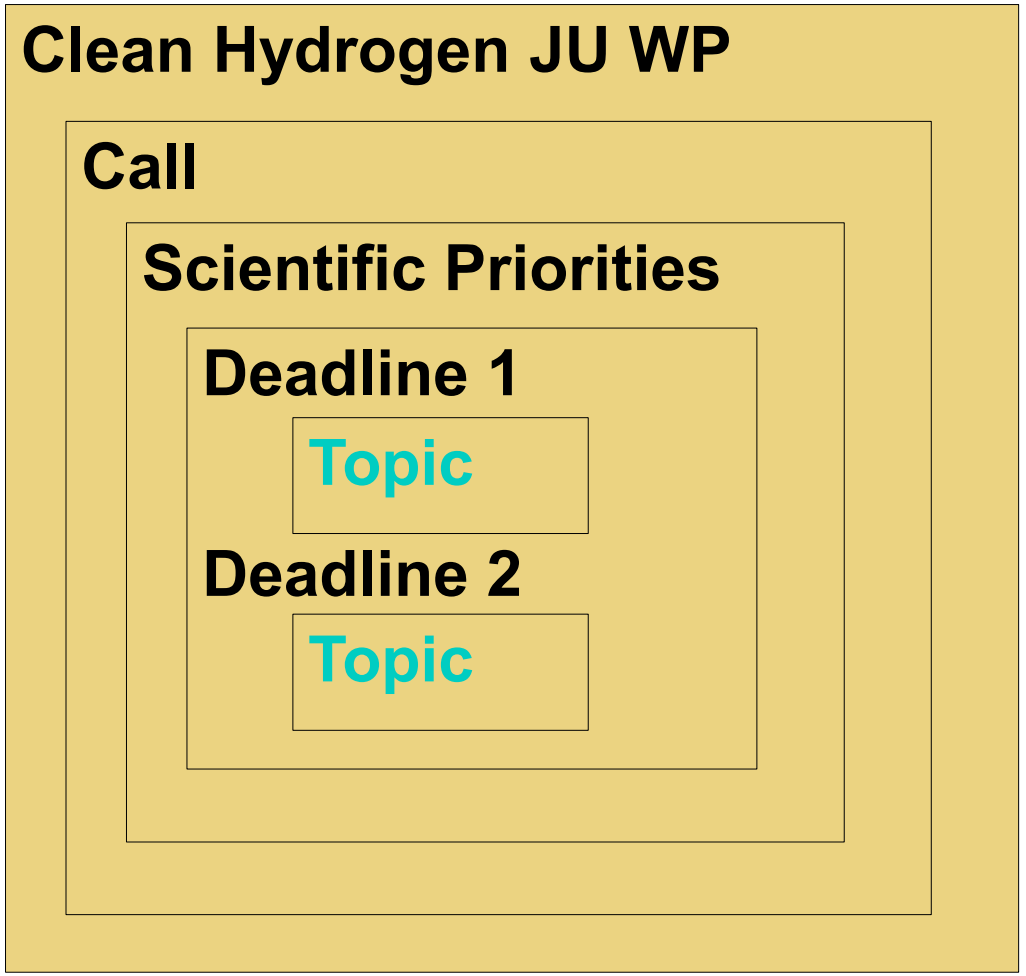
- Members of the consortium (section 4) moved to Part A
- Ethics and security (section 5) moved to in Part A
- Page limit reduced
- Third Parties terminology
- Gender & Gender Equality Plan
- Open Science
- Environment and Do No Harm Principle
- Obligation to Exploit

Work Programme Structure

Horizon Europe Work Programme Structure



Clean Hydrogen JU Work Programme Structure



How to read the Topic Text in the Clean Hydrogen WP

Topid ID: Topic Title

Specific Conditions

- EU contribution
- Budget
- Type of Action
- Eligibility Conditions (watch for exceptions)

Expected Outcome

- "Project results are expected to contribute to all / some / at least one of the following expected outcomes:"

Scope

Specific Topic Conditions

Expected Impact:

- Clean Hydrogen JU KPIs
- Technology KPIs, defined in the Clean Hydrogen SRIA:
  - Annex 2 - State-of-the-art and future targets – Renewable Hydrogen production
  - Annex 3 - State-of-the-art and future targets – Hydrogen storage and distribution
  - Annex 4 - State-of-the-art and future targets – Hydrogen end use: transport applications
  - Annex 5 - State-of-the-art and future targets – Hydrogen end use: stationary applications
  - Annex 6 - State-of-the-art and future targets – Cross-cutting issues

Horizon Europe Work Programme 2021-2022 - 13. General Annexes
Technology readiness levels (TRL)

TRL	Description
TRL 1	basic principles observed
TRL 2	technology concept formulated
TRL 3	experimental proof of concept
TRL 4	technology validated in lab
TRL 5	technology validated in relevant environment
TRL 6	technology demonstrated in relevant environment
TRL 7	system prototype demonstration in operational environment
TRL 8	system complete and qualified
TRL 9	actual system proven in operational environment

Innovation Action
Funding rate for companies: 70 %

Research and Innovation Action
Funding rate for companies: 100 %

Types of Actions, Eligibility, Funding Rate

Type of Action	Acro-nym	Eligibility Conditions	Funding Rate	Page limit (Clean Hydrogen JU Application Form)
Research and Innovation Action	**RIA**	• At least one independent legal entity established in a Member State • And at least two other independent legal entities, each established in different Member States or Associated Countries.	100%	45
Innovation Action	**IA**	• At least one independent legal entity established in a Member State • And at least two other independent legal entities, each established in different Member States or Associated Countries.	• 100% for non-profit organisations • 70% for for-profit organisations	70
Coordination and Support Action	**CSA**	• At least one legal entity established in a Member State or Associated Country	100%	30

HORIZON-JTI-CLEANH2-2022-02-06:
Development of large scale LH2 containment for shipping (RIA)

Specific conditions	
Expected EU contribution per project	The JU estimates that **an EU contribution of around EUR 6.5 million** would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
Indicative budget	The total indicative **budget for the topic is EUR 6.5 million.**
Type of Action	**Research and Innovation Action**
Technology Readiness Level	**Activities are expected to start at TRL 2-3 and achieve TRL 5 by the end of the project See General Annex B.**

HORIZON-JTI-CLEANH2-2022-02-06:
Development of large scale LH2 containment for shipping (RIA)

Expected Outcome

An important element of the European Hydrogen strategy is to support liquid hydrogen (LH2) deployment for various usages and to allow the energy transportation over longer distances. A further important element of the Hydrogen strategy is to contribute to the **cost decrease** by importing energy from low-cost zones by development of an international hydrogen trade, and thereby also enabling import of hydrogen to the European Union. In the end this will lead to increase the EU's competitiveness, manufacturing capabilities and secure the energy supply.

Shipping of LH2 will represent a flexible means for transport of larger quantities of hydrogen over longer distances, as well as for regional distribution without a gas-grid. LH2 also represent a dense form suitable for fuel storage for energy demanding applications.

HORIZON-JTI-CLEANH2-2022-02-06:
Development of large scale LH2 containment for shipping (RIA)

Project results are expected to contribute to all of the following expected outcomes:

- **Enable safe, cost- and energy efficient transport of bulk LH2.** Large scale LH2 ship storage concepts need to be developed for shipping of LH2 at energy system scale, in the order of GW hydrogen energy flux. An important aspect is to utilise the techno-economic advantage of scale;
- Allow for the development of **LH2 containment for shipping exceeding the currently demonstrated size of about 1,250 m3**, corresponding to 90 tonnes of hydrogen. At present, large-scale solutions for the storage and bulk transportation of liquid hydrogen are in their infancy. It is expected that the development will foster the basis for large scale trade of LH2 by 2030 being a supplement and later an alternative to the current world-wide LNG trade;
- **Design a scalable liquid hydrogen storage to large dimensions**, in the range of those implemented for LNG shipping today, e.g. 200,000 m3 per ship, distributed between a relevant numbers of storage tanks. Such a capacity will correspond to 14,000 tonnes of hydrogen transported per ship;
- **Demonstration** and first application of the developed liquid hydrogen storage technology may be at reduced scale

HORIZON-JTI-CLEANH2-2022-02-06:
Development of large scale LH2 containment for shipping (RIA)

Project results are expected to contribute to all of the following objectives of the Clean Hydrogen JU SRIA:

- LH2 containment tank capacity [tonnes]: 350 in 2024 and 2.800 in 2030
- Capex of installed LH2 containment tank [€/kg]: 50 in 2024 and < 10 in 2030
- LH2 boil-off [%/day]: 0.5 in 2024 and < 0.3 in 2030

HORIZON-JTI-CLEANH2-2022-02-06:
Development of large scale LH2 containment for shipping (RIA)

Scope

The scope of this topic is to develop and validate containment concepts intended for the bulk shipping of liquid hydrogen. The concepts developed should also be suitable for a later scale-up.

Multiple European technology providers have started to design and develop LH2 containment solutions, e.g. based on the IMO Type B, Type C and membrane tank designs currently available for LNG shipping, as well as for other novel concepts. Due to the considerably lower temperature of LH2 than LNG, as well as the lower heat of vaporisation and different material compatibility characteristics, **totally novel insulation concepts** need to be developed if LH2 should be contained with equally or lower boil-off rate as current LNG concepts

HORIZON-JTI-CLEANH2-2022-02-06:
Development of large scale LH2 containment for shipping (RIA)

The scope for the proposed project should include:

- Concept selection for large scale LH2 containment to be used in shipping;
- Approval in Principle (AIP) for the LH2 containment concept by one of the major IACS classification societies;
- Materials and component selection and integrity testing for LH2 exposure, e.g. strength, ductility, toughness, thermal expansion, sloshing and compatibility;
- Sub-system testing for thermo-mechanical validation;
- Detailed design, construction, and testing of a scaled-down prototype of at least 10 t LH2 capacity;
- General Approval for the LH2 containment system by one of the major IACS classification societies;
- Development of a preliminary integrated ship design with a corresponding cost estimation;

HORIZON-JTI-CLEANH2-2022-02-06:
Development of large scale LH2 containment for shipping (RIA)

The topic **could have potential synergies** with the topic from **ZEWT**: **HORIZON-CL5-2021- D5-01-07 "Enabling the safe and efficient on-board storage and integration within ships of large quantities of ammonia and hydrogen fuels"**, but the targeted tank size in the present topic will most likely require a different conceptual approach.

Proposals are expected to address sustainability and circularity aspects.

ZEWT: Zero-Emission Waterborne Transport

Clean Hydrogen JU

Stefan Fischer, PhD
NCP for Energy
Euresearch Network Office

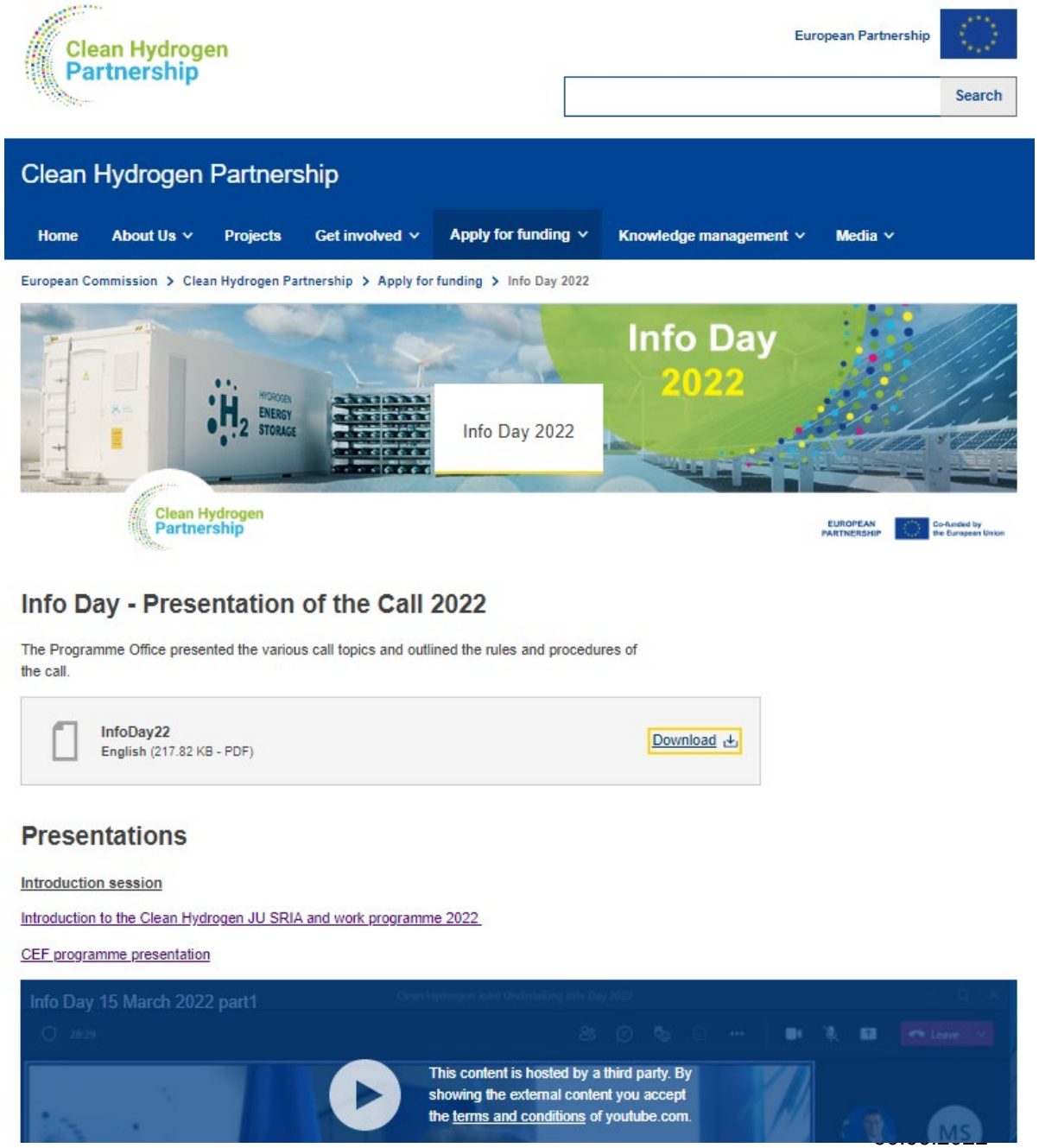
stefan.fischer@euresearch.ch

Clean Hydrogen Joint Undertaking – EU Institutional Public-Private Partnership (IPPP)

- **Budget**: 1 billion EURO from Horizon Europe (to commit until 2027 and implement until 2031)
- **Governance**: Governing Board (three members: Commission, HE, HER) + advisory bodies
- **Relevant documents**:
  - Annual Work Programmes
  - Strategic Research and Innovation Agenda

Clean Hydrogen Inno Day 2022

- Watch the video recordings (3 parts on Youtube: more than 4.5 hours of video)
- Download the presentations as PDF documents
- Particularly interesting: presentation about « Communication, dissemination and exploitation »



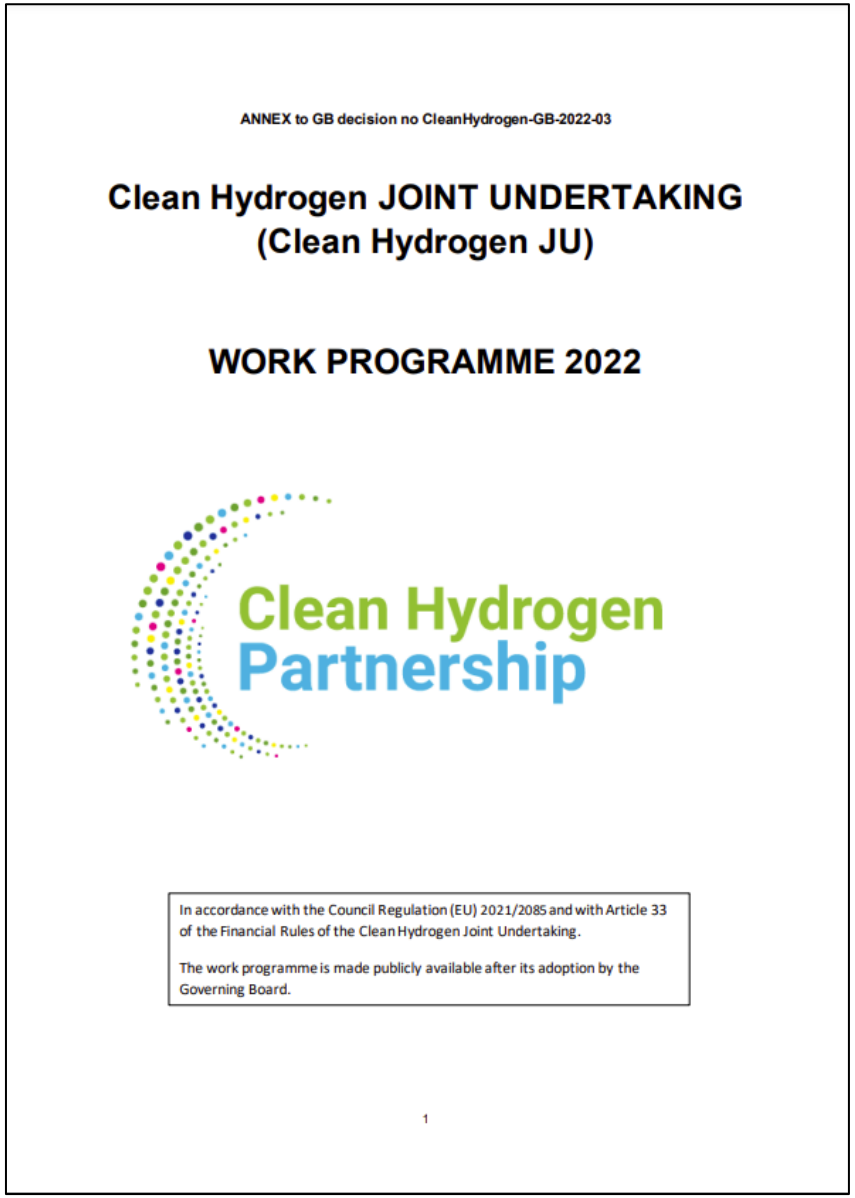
Clean Hydrogen Partnership

Two Deadlines:

- 31 May 2022
- 20 September 2022

41 Scientific Priorities (10 × IA, 29 × RIA, 2 × CSA):

- 10 - Renewable Hydrogen Production
- 11 - Hydrogen Storage and Distribution
- 8 - Transport
- 4 - Heat and Power
- 5 - Cross-cutting
- 2 - Hydrogen Valleys
- 1 - Strategic Research challenge



ANNEX to GB decision no CleanHydrogen-GB-2022-03

Clean Hydrogen JOINT UNDERTAKING
(Clean Hydrogen JU)

WORK PROGRAMME 2022

Clean Hydrogen Partnership

In accordance with the Council Regulation (EU) 2021/2085 and with Article 33 of the Financial Rules of the Clean Hydrogen Joint Undertaking.

The work programme is made publicly available after its adoption by the Governing Board.

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Rules for participation, call conditions, evaluation and submission

Horizon Europe

General conditions

General Annexes to Horizon Europe:

- Admissibility (Annex A)
- Eligibility (Annex B)
- Financial and operational capacity and exclusion (Annex C)
- Award criteria (Annex D)
- Documents (Annex E)
- Procedure (Annex F)
- TRL, Gender equality plan

Clean Hydrogen Partnership

Specific conditions

Work Programme 2022

Additional eligibility criteria:

- Maximum contribution per topic
- Consortium composition
- Participation of African countries

8 Months from Call Deadline to Signature of Grant Agreement

31 May 2022

20 September 2022

31 January 2023

20 May 2023

Clean Hydrogen Partnership

Note:

- Some topics require a member of the Clean Hydrogen Partnership in the consortium
- Horizon Europe rules apply (mostly)

Budget:

31 May 2022:	EUR 179.5 million
20 September 2022:	EUR 121.0 million
Total:	EUR 300.5 million

How to apply:

- Use the specific Clean Hydrogen JU proposal templates
- Submit proposal on the Funding & tender opportunities portal

Renewable Hydrogen Production

Main Focus

- Cost reduction and efficiency increase for renewable hydrogen production routes:
  - New LT and HT electrolyser designs for high pressure operation
  - Larger cell electrolyser stacks
  - Large scale electrolysers in industry, off-grid and offshore
  - Improved efficiency solar thermochemical H2 production.

What is new

- Circularity
- Improved electrolyser manufacturing

Renewable Hydrogen Production, 6/4 Topics

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.	# of prop.
2022-05-31	HORIZON-JTI-CLEANH2-2022-01-01	Development and validation of pressurised high temperature steam electrolysis stacks (Solid Oxide Electrolysis)	RIA	2.5	2.5	3
2022-05-31	HORIZON-JTI-CLEANH2-2022-01-02	Development and validation of pressurised high temperature steam electrolysis stacks (Proton Conducting Ceramic Electrolysis)	RIA	2.5	2.5	2
2022-05-31	HORIZON-JTI-CLEANH2-2022-01-03	Development of low temperature water electrolysers for highly pressurised hydrogen production	RIA	5	2.5	10
2022-05-31	HORIZON-JTI-CLEANH2-2022-01-06	Efficiency boost of solar thermochemical water splitting	RIA	4	4	3
2022-05-31	HORIZON-JTI-CLEANH2-2022-01-07	Bringing green hydrogen MW scale off grid installations closer to technical and financial maturity	IA	9	9	3
2022-05-31	HORIZON-JTI-CLEANH2-2022-01-09	Scaling-up technologies for SOEL	RIA	6	3	2

Renewable Hydrogen Production, 6/4 Topics

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.
2022-09-20	HORIZON-JTI-CLEANH2-2022-01-04	Design for advanced and **scalable manufacturing of electrolysers**	RIA	4	2
2022-09-20	HORIZON-JTI-CLEANH2-2022-01-05	**Scaling up of cells and stacks for large electrolysers**	RIA	6	6
2022-09-20	HORIZON-JTI-CLEANH2-2022-01-08	Integration of multi-MW **electrolysers in industrial applications**	IA	18	18
2022-09-20	HORIZON-JTI-CLEANH2-2022-01-10	Demonstrating **offshore production of green hydrogen**	IA	20	20

Hydrogen Storage and Distribution

Main Focus

- Improved hydrogen carriers
- Preparing hydrogen refuelling stations for the demands of Heavy-Duty applications
- Scaling-up innovative hydrogen compression solutions

What is new

- Next generation liquefaction units and large scale liquid H2 storage for shipping.
- Developing increased capacity tube trailers
- Improving quality control for hydrogen dispensed in HRS (hydrogen refuelling stations)

Hydrogen Storage and Distribution Overview, 6/5 Topics

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.	# of prop.
2022-05-31	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	2.5	2.5	6
2022-05-31	HORIZON-JTI-CLEANH2-2022-02-03	Validation of a high-performance hydrogen liquefier	RIA	5	5	2
2022-05-31	HORIZON-JTI-CLEANH2-2022-02-07	Increased hydrogen capacity of GH 2 road trailers	RIA	2.5	2.5	3
2022-05-31	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	5	5	3
2022-05-31	HORIZON-JTI-CLEANH2-2022-02-09	Sampling methodology and quality assessment of HRS	RIA	4	4	1
2022-05-31	HORIZON-JTI-CLEANH2-2022-02-10	Implementing new/optimised refuelling protocols and components for high flow HRS	RIA	8	4	1

Hydrogen Storage and Distribution Overview, 6/5 Topics

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.
2022-09-20	HORIZON-JTI-CLEANH2-2022-02-01	**Compatibility** of Distribution non-steel metallic **gas grid materials with hydrogen**	RIA	2.5	2.5
2022-09-20	HORIZON-JTI-CLEANH2-2022-02-04	**Ammonia to Green Hydrogen**: efficient system for ammonia cracking for application to long distance transportations	RIA	3	3
2022-09-20	HORIZON-JTI-CLEANH2-2022-02-05	Efficient system for **dehydrogenation of liquid organic hydrogen** carriers for application to long distance transportations	RIA	3	3
2022-09-20	HORIZON-JTI-CLEANH2-2022-02-06	Development of **large scale LH2 containment for shipping**	RIA	6.5	6.5
2022-09-20	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	7	7

Hydrogen End Uses Transport

Main Focus

- Adaptation of key FC system components for heavy duty applications
- Push toward aviation propulsion: upscaling stack and LH2 storage
- Bringing the learnings from first demonstrations (inland vessels and trucks) to fleets

What is new

- Decarbonisation of the inland waterways
- Cooperation with Connecting Europe Facility for Transport work programme

Hydrogen End Uses Transport, 7/1 Topics

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.	# of prop.
2022-05-31	HORIZON-JTI-CLEANH2-2022-03-02	**Innovative and optimised MEA components** towards next generation of improved PEMFC stacks for heavy duty vehicles	RIA	6	3	6
2022-05-31	HORIZON-JTI-CLEANH2-2022-03-03	Large scale **demonstration of European H2 Heavy Duty Vehicle** along the TEN-T corridors	IA	30	30	3
2022-05-31	HORIZON-JTI-CLEANH2-2022-03-04	LH2 tanks for heavy-duty vehicles	RIA	5	2.5	0
2022-05-31	HORIZON-JTI-CLEANH2-2022-03-05	Large scale demonstration of hydrogen fuel cell propelled inland waterway vessels	IA	15	15	2
2022-05-31	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	30	30	3
2022-05-31	HORIZON-JTI-CLEANH2-2022-03-07	Development of specific aviation cryogenic storage system with a gauging, fuel metering, heat management and monitoring system	RIA	10	10	2
2022-05-31	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	5	5	2

PEMFC: Proton-exchange membrane fuel cells, MEA: Membrane Electrode Assembly, TEN-T: Trans-European Transport Network

Hydrogen End Uses Transport, 7/1 Topics

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.
2022-09-20	HORIZON-JTI-CLEANH2-2022-03-01	Development and optimisation of reliable and versatile **PEMFC stacks** for high power range applications	RIA	7	3.5

Hydrogen End Uses Clean Heat and Power

Main Focus

- Cost reduction through manufacturing
- Fuel and technology diversification
- Enhanced system flexibility

What is new

- Automation of manufacturing, equipment manufacturers at the core of the action

Hydrogen End Uses Clean Heat and Power, 3/1 Topics

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.	# of prop.
2022-05-31	HORIZON-JTI-CLEANH2-2022-04-02	Ammonia powered fuel cell system focusing on superior efficiency, durable operation and design optimisation	RIA	4	4	5
2022-05-31	HORIZON-JTI-CLEANH2-2022-04-03	Reversible SOC system development, operation and energy system (grid) integration	RIA	5.5	5.5	2
2022-05-31	HORIZON-JTI-CLEANH2-2022-04-04	Dry Low NOx combustion of hydrogen-enriched fuels at high-pressure conditions for gas turbine applications	RIA	8	4	4

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.
2022-09-20	HORIZON-JTI-CLEANH2-2022-04-01	Design and industrial deployment of innovative **manufacturing processes for fuel cells** and fuel cell components	IA	7	7

Hydrogen Valleys

Main Focus

- Deploy and demonstrate large and small scale hydrogen valleys that can be sustained and grow with time and replicated elsewhere
- Covers the complete value chain of hydrogen
- Contribute to EU competitiveness by supporting a European value chain
- Hydrogen as an enabler for sector coupling and integration of renewable energy

What is new

- **Large-scale**: interlinkages beyond the individual H2 Valley boundaries as a means to contribute towards an EU hydrogen infrastructure backbone
- **Smaller-scale**: Stimulate Hydrogen Valleys in areas of Europe with no or limited presence

Hydrogen Valleys

HORIZON-JTI-CLEANH2-2022-06-02: Hydrogen Valleys (small-scale)

Develop, deploy and demonstrate a H2 valley (particular attention to areas of Europe with no or limited presence of H2 Valleys)

- Production of ≥ 500 tonnes of renewable H2 per year (GOs)
- Supply more than one end sector or application (mobility, industry energy) / >20% H2 produced for each of the 2 main applications
- Demonstrate: existing/new H2 markets, contribution to economic growth, impact and replicability and commitment of stakeholders
- Financing structure and strategy describing the business model, including envisaged sources of co-funding/ co-financing needed

Hydrogen Valleys

HORIZON-JTI-CLEANH2-2022-06-01: Hydrogen Valleys (large-scale)

Develop, deploy and demonstrate a large-scale H2 valley with interlinkages outside its boundaries

- Production of ≥ 5,000 tonnes of renewable H2 per year using new hydrogen production capacity (GOs)
- ≥ 2 FCH applications from ≥ 2 sectors (energy, industry, transport)
- Demonstrate: existing/new H2 markets, contribution to economic growth, impact and replicability, commitment of stakeholders
- Financing structure and strategy describing the business model, including envisaged sources of co-funding/co-financing needed

Cross-cutting Issues, Hydrogen Valleys, Strategic Research Challenges, 4/4 Topics

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.	# of prop.
2022-05-31	HORIZON-JTI-CLEANH2-2022-05-02	Safety of cryogenic hydrogen transfer technologies in public areas for mobile application	RIA	2	2	2
2022-05-31	HORIZON-JTI-CLEANH2-2022-05-04	Development of validated test methods and requirements for measuring devices intended for measuring NG/H2 mixtures	RIA	2	2	1
2022-05-31	HORIZON-JTI-CLEANH2-2022-05-05	Research & Innovation co-operation with Africa on hydrogen	CSA	1	1	7
2022-05-31	HORIZON-JTI-CLEANH2-2022-07-01	Addressing the sustainability and criticality of electrolyser and fuel cell materials	RIA	10	10	1

Cross-cutting Issues, Hydrogen Valleys, Strategic Research Challenges, 8 Topics

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.
2022-09-20	HORIZON-JTI-CLEANH2-2022-05-01	Public understanding of hydrogen and fuel cell technologies	CSA	1	1
2022-09-20	HORIZON-JTI-CLEANH2-2022-05-03	Safe hydrogen injection management at network-wide level: towards European gas sector transition	RIA	3	3
2022-09-20	HORIZON-JTI-CLEANH2-2022-06-01	Hydrogen Valleys (large-scale)	IA	25	25
2022-09-20	HORIZON-JTI-CLEANH2-2022-06-02	Hydrogen Valleys (small-scale)	IA	8	8

Clean Aviation JU

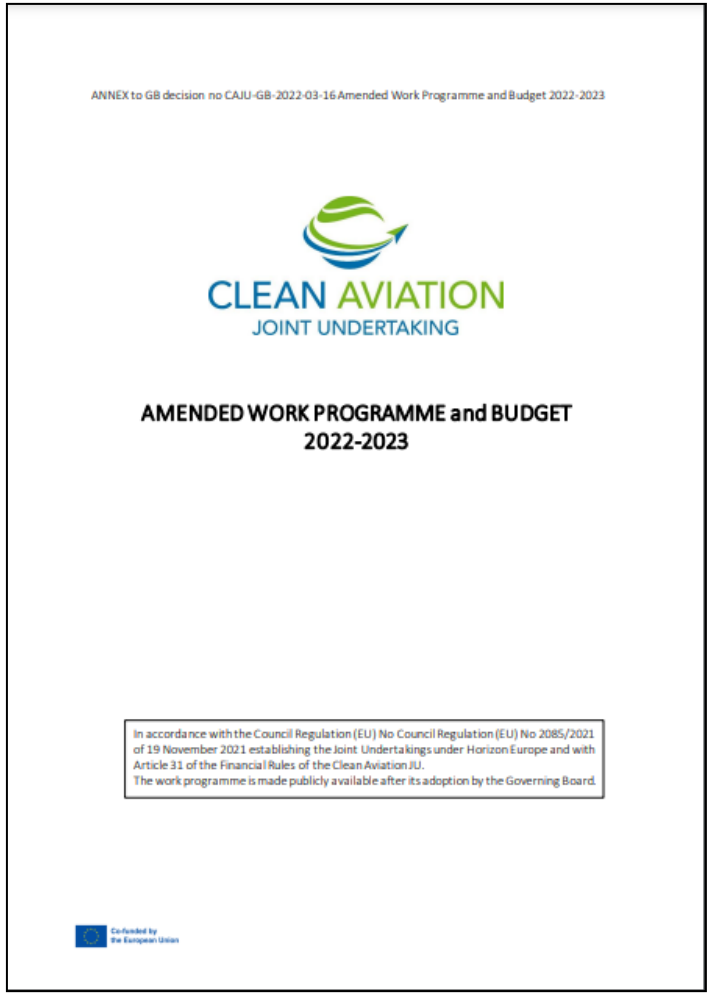
Stefan Fischer, PhD
NCP for Energy
Euresearch Network Office

stefan.fischer@euresearch.ch

Clean Aviation Joint Undertaking

Notes:

- Some hydrogen topics
- Specific submission and evaluation rules
- Special, specific proposal template



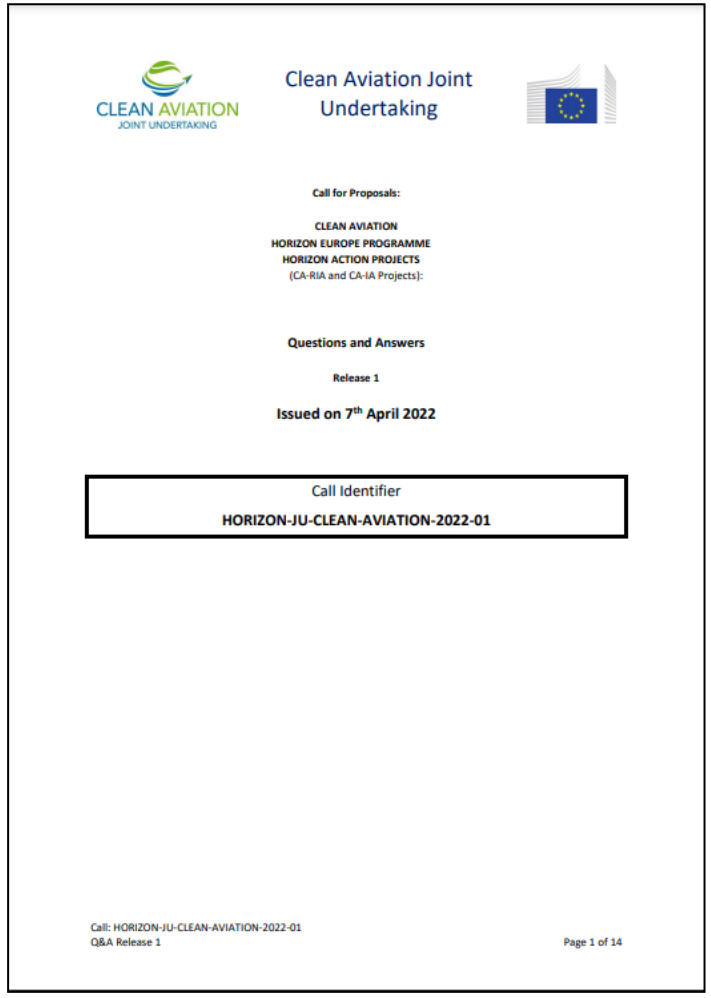
ANNEX to GB decision no CAJU-GB-2022-03-16 Amended Work Programme and Budget 2022-2023

CLEAN AVIATION
JOINT UNDERTAKING

AMENDED WORK PROGRAMME and BUDGET 2022-2023

In accordance with the Council Regulation (EU) No Council Regulation (EU) No 2085/2021 of 19 November 2021 establishing the Joint Undertakings under Horizon Europe and with Article 31 of the Financial Rules of the Clean Aviation JU.
The work programme is made publicly available after its adoption by the Governing Board.

Co-funded by the European Union



CLEAN AVIATION JOINT UNDERTAKING

Clean Aviation Joint Undertaking

Call for Proposals:

CLEAN AVIATION
HORIZON EUROPE PROGRAMME
HORIZON ACTION PROJECTS
(CA-RIA and CA-IA Projects):

Questions and Answers

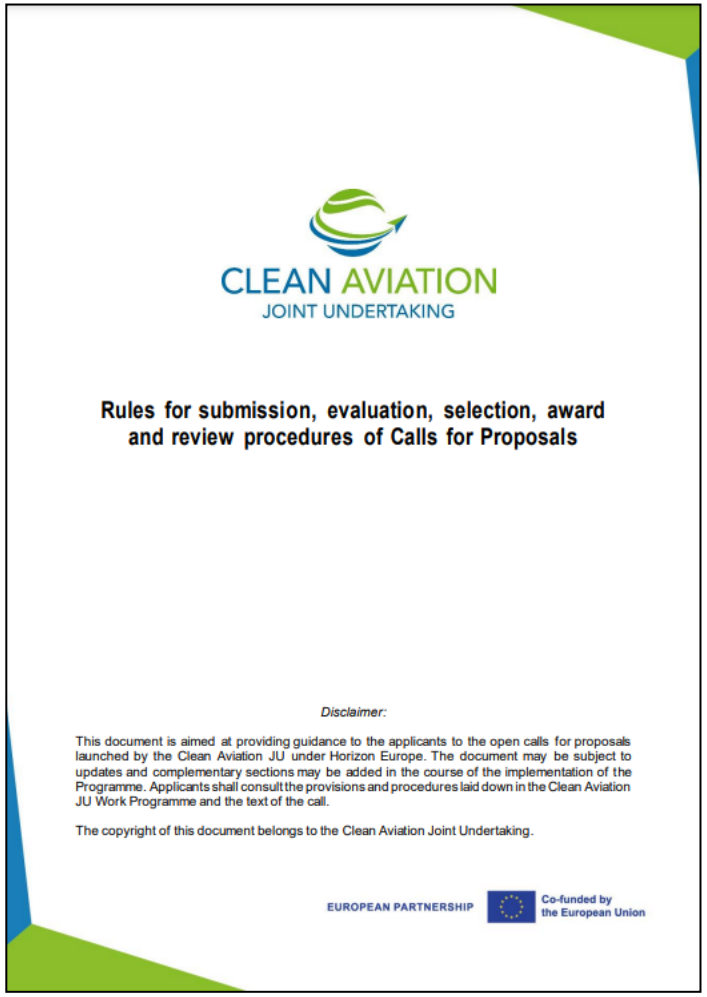
Release 1

Issued on 7th April 2022

Call Identifier
HORIZON-JU-CLEAN-AVIATION-2022-01

Call: HORIZON-JU-CLEAN-AVIATION-2022-01
Q&A Release 1

Page 1 of 14



CLEAN AVIATION
JOINT UNDERTAKING

Rules for submission, evaluation, selection, award and review procedures of Calls for Proposals

Disclaimer:

This document is aimed at providing guidance to the applicants to the open calls for proposals launched by the Clean Aviation JU under Horizon Europe. The document may be subject to updates and complementary sections may be added in the course of the implementation of the Programme. Applicants shall consult the provisions and procedures laid down in the Clean Aviation JU Work Programme and the text of the call.

EUROPEAN PARTNERSHIP Co-funded by the European Union

Clean Aviation JU Topics

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action Type	Funding in million EUR	Nr. of Topics
Coordination and Support Actions					
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-CSA-01	Developing a European Clean Aviation Regional Ecosystem (ECARE)	JU CSA	0.72	1
Hybrid-electric powered regional aircraft topics					
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-HER-01	Multi-MW Hybrid-Electric Propulsion System for Regional Aircraft	HORIZON JU IA	75	2
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-HER-02	Thermal Management Solutions for Hybrid Electric Regional Aircraft	HORIZON JU IA	40	1
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-HER-03	Electrical Distribution Solutions for Hybrid-electric Regional Aircraft	HORIZON JU IA	40	1
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-HER-04	Innovative Wing Design for Hybrid-Electric Regional Aircraft	HORIZON JU IA	20	1
Hydrogen-powered aircraft topics					
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-HPA-01	Direct Combustion of Hydrogen in Aero-engines	HORIZON JU IA	115	2
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-HPA-02	Multi-MW Fuel Cell Propulsion System for Hydrogen-Powered Aircraft	HORIZON JU IA	50	2
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-HPA-03	Large Scale Lightweight Liquid Hydrogen Integral Storage Solutions	HORIZON JU IA	10	1
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-HPA-04	Near Term Disruptive Technologies for Hydrogen-Powered Aircraft	HORIZON JU IA	7+4	1+1
Short/short-medium range aircraft topics					
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-SMR-01	Ultra Efficient Propulsion Systems for Short and Short-Medium Range Aircraft	HORIZON JU IA	175	3
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-SMR-02	Ultra Performance Wing for Short and Short-medium Range Aircraft	HORIZON JU IA	55	2
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-SMR-03	Advanced Low Weight Integrated Fuselage and Empennage for Short Range and Short-Medium Range Aircraft	HORIZON JU IA	40	1
Transversal activity topics					
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-TRA-01	Aircraft architectures & technology integration for aircraft concepts ranging from regional to short-medium range applications	HORIZON JU IA	90	3
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-TRA-02	Novel Certification Methods and Means of Compliance for Disruptive Technologies	HORIZON JU IA	18	1

Clean Aviation JU Topics

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action Type	Funding in million EUR	Nr. of Topics funded
Hydrogen-powered aircraft topics					
2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-HPA-01	Direct Combustion of Hydrogen in Aero-engines	HORIZON JU IA	115	2
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2022-06-23	HORIZON-JU-CLEAN-AVIATION-2022-01-HPA-04	Near Term Disruptive Technologies for Hydrogen-Powered Aircraft	HORIZON JU IA	7 4	1 1

Energy Topics

Stefan Fischer, PhD
National Contact Point for Energy
Euresearch Network Office

stefan.fischer@euresearch.ch

Call: HORIZON-CL5-2022-D3-01
Sustainable, secure and competitive energy supply

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.	# of prop.
2022-04-26	HORIZON-CL5-2022-D3-01-01	Demonstration of cost-effective advanced biofuel technologies utilizing existing industrial plants	IA	20	10	4
2022-04-26	HORIZON-CL5-2022-D3-01-02	Demonstration of innovative materials, supply cycles, recycling technologies to increase the overall circularity of wind energy technology and to reduce the primary use of critical raw materials	IA	40	13	10
2022-04-26	HORIZON-CL5-2022-D3-01-03	Advanced manufacturing of Integrated PV	IA	32	16	8
2022-04-26	HORIZON-CL5-2022-D3-01-04	Demonstrate the use of high temperature geothermal reservoirs to provide energy storage for the energy system	IA	20	20	5
2022-04-26	HORIZON-CL5-2022-D3-01-05	Demonstration of innovative plug-and play solutions for system management and renewables storage in off-grid applications	IA	10	10	14
2022-04-26	HORIZON-CL5-2022-D3-01-06	Novel Agro-Photovoltaic systems	IA	10	5	26
2022-04-26	HORIZON-CL5-2022-D3-01-07	Demonstration of innovative rotor, blades and control systems for tidal energy devices	IA	10	10	7
2022-04-26	HORIZON-CL5-2022-D3-01-08	Supporting the action of consumers in the energy market and guide them to act as prosumers, communities and other active forms of active participation in the energy activities	IA	18	5-6	34
2022-04-26	HORIZON-CL5-2022-D3-01-09	Real Time Demonstrator of Multi-Vendor Multi-Terminal VSC-HVDC with Grid Forming Capability (in support of the offshore strategy)	IA	55	55	1
2022-04-26	HORIZON-CL5-2022-D3-01-10	Interoperable solutions for flexibility services using distributed energy storage	IA	7	2-3	21
2022-04-26	HORIZON-CL5-2022-D3-01-11	Demonstration of innovative forms of storage and their successful operation and integration into innovative energy systems and grid architectures	IA	30	7-8	16
2022-04-26	HORIZON-CL5-2022-D3-01-12	Replicable solutions for a cross sector compliant energy ecosystem	IA	35	8-9	14
2022-04-26	HORIZON-CL5-2022-D3-01-13	Energy system modelling, optimisation and planning tools	RIA	6	6	9
2022-04-26	HORIZON-CL5-2022-D3-01-14	Thermal energy storage solutions	IA	30	7-8	19
2022-04-26	HORIZON-CL5-2022-D3-01-15	Decarbonising industry with CCUS	IA	58	29	8

Destination 2

Destination 2: – Cross-sectoral solutions for the climate transition

A competitive and sustainable European battery value chain

Deadline	Call ID	Call Title	IA	RIA	CSA	Budget in million EUR
2022-10-27	HORIZON-CL5-2022-D2-01	Cross-sectoral solutions for the climate transition	2	7	1	138

Call: HORIZON-CL5-2022-D2-01
Cross-sectoral solutions for the climate transition – Batteries Partnership

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.
2022-09-06	HORIZON-CL5-2022-D2-01-01	Sustainable processing and refining of battery grade **graphite** (Batteries Partnership)	IA	10	5
2022-09-06	HORIZON-CL5-2022-D2-01-02	Interface and **electron monitoring** for the engineering of new and emerging battery technologies (Batteries Partnership)	RIA	10	5
2022-09-06	HORIZON-CL5-2022-D2-01-03	Furthering the development of a **materials acceleration platform** for sustainable batteries (combining AI, big data, autonomous synthesis robotics, high throughput testing) (Batteries Partnership)	RIA	20	20
2022-09-06	HORIZON-CL5-2022-D2-01-04	Towards creating an **integrated manufacturing value chain in Europe**: from machinery development to plant and site integrated design (Batteries Partnership)	IA	15	7-8
2022-09-06	HORIZON-CL5-2022-D2-01-05	Next generation technologies for High-performance and safe-by-design **battery systems for transport and mobile applications** (Batteries Partnership)	RIA	15	5
2022-09-06	HORIZON-CL5-2022-D2-01-06	**Embedding smart functionalities into battery cells** (embedding sensing and self-healing functionalities to monitor and self-repair battery cells) (Batteries Partnership)	RIA	15	5
2022-09-06	HORIZON-CL5-2022-D2-01-07	**Digitalisation of battery testing**, from cell to system level, including lifetime assessment (Batteries Partnership)	RIA	15	5
2022-09-06	HORIZON-CL5-2022-D2-01-08	Coordination of large-scale initiative on future battery technologies (Batteries Partnership)	CSA	3	3
2022-09-06	HORIZON-CL5-2022-D2-01-09	Physics and data-based **battery management** for optimised battery utilisation (Batteries Partnership)	RIA	15	5
2022-09-06	HORIZON-CL5-2022-D2-01-10	Streamlined collection and reversed logistics, fully automated, safe and cost-efficient sorting, dismantling and second use before **recycling** (Batteries Partnership)	RIA	15	5

Destination 3 and 4

Destination 3: – Sustainable, secure and competitive energy supply

Deadline	Call ID	Call Title	IA	RIA	Budget in million EUR
2022-10-27	HORIZON-CL5-2022-D3-02	Sustainable, secure and competitive energy supply	4	4	99.0
2023-01-10	HORIZON-CL5-2022-D3-03		2	7	127.5

Destination 4: – Efficient, sustainable and inclusive energy use

Deadline	Call ID	Call Title	IA	RIA	Budget in million EUR
2022-09-06	HORIZON-CL5-2022-D4-01	Efficient, sustainable and inclusive energy use	3	2	54.0
2023-01-24	HORIZON-CL5-2022-D4-02		4	1	86.0

Call: HORIZON-CL5-2022-D4-01, HORIZON-CL5-2022-D4-02
Efficient, sustainable and inclusive energy use

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.
2022-09-06	HORIZON-CL5-2022-D4-01-01	Demand response in energy-efficient residential buildings	IA	12	4-6
2022-09-06	HORIZON-CL5-2022-D4-01-02	Renewable-intensive, energy positive homes	IA	12	4-6
2022-09-06	HORIZON-CL5-2022-D4-01-03	Smarter buildings for better energy performance	IA	12	4-6
2022-09-06	HORIZON-CL5-2022-D4-01-04	Development and pilot demonstration of heat upgrade technologies with supply temperature in the range 150-250°C	RIA	10	3-5
2022-09-06	HORIZON-CL5-2022-D4-01-05	Development of high temperature thermal storage for industrial applications	RIA	8	3-4

Call: HORIZON-CL5-2022-D3-02
Sustainable, secure and competitive energy supply

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Budget	EU contr.
2022-10-27	HORIZON-CL5-2022-D3-02-01	Digital solutions for defining synergies in international renewable energy value chains	RIA	9	3
2022-10-27	HORIZON-CL5-2022-D3-02-02	AU-EU Energy System Modelling	RIA	5	2.5
2022-10-27	HORIZON-CL5-2022-D3-02-03	**Innovative renewable energy carrier production for heating from renewable energies**	IA	10	10
2022-10-27	HORIZON-CL5-2022-D3-02-04	Technological interfaces between solar fuel technologies and other renewables	RIA	10	3-5
2022-10-27	HORIZON-CL5-2022-D3-02-05	**Renewable energy carriers from variable renewable electricity surplus and carbon emissions from energy consuming sectors**	IA	20	10
2022-10-27	HORIZON-CL5-2022-D3-02-06	Direct renewable energy integration into process energy demands of the chemical industry	RIA	10	3-5
2022-10-27	HORIZON-CL5-2022-D3-02-07	Renewable energy incorporation in agriculture and forestry	IA	15	7.5
2022-10-27	HORIZON-CL5-2022-D3-02-08	**Demonstration of complete value chains for advanced biofuel and non-biological renewable fuel production**	IA	29	10

Call: HORIZON-CL5-2022-D3-03
Sustainable, secure and competitive energy supply

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.
2023-01-10	HORIZON-CL5-2022-D3-03-01	Innovative components and/or sub-systems for **CSP** plants and/or concentrating solar thermal installations	IA	16.5	5.5
2023-01-10	HORIZON-CL5-2022-D3-03-02	Best international practice for scaling up sustainable **biofuels**	RIA	9	3
2023-01-10	HORIZON-CL5-2022-D3-03-03	Efficient and circular **artificial photosynthesis**	RIA	10	3-5
2023-01-10	HORIZON-CL5-2022-D3-03-04	Integrated **wind farm control**	RIA	18	6
2023-01-10	HORIZON-CL5-2022-D3-03-05	**Novel Thin Film (TF) technologies** targeting high efficiencies	RIA	20	5
2023-01-10	HORIZON-CL5-2022-D3-03-06	Efficient and low-emission technologies for industrial use of **combustion and gasification systems** from low-value biogenic residues and wastes	RIA	10	3-5
2023-01-10	HORIZON-CL5-2022-D3-03-07	Development of **algal and renewable fuels** of non-biological origin	RIA	15	5
2023-01-10	HORIZON-CL5-2022-D3-03-08	Development of digital solutions for existing **hydropower** operation and maintenance	RIA	9	3-4.5
2023-01-10	HORIZON-CL5-2022-D3-03-09	**Recycling** end of life PV modules	IA	20	6-7

Call: HORIZON-CL5-2022-D4-01, HORIZON-CL5-2022-D4-02
Efficient, sustainable and inclusive energy use

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	Bud-get	EU contr.
2023-01-24	HORIZON-CL5-2022-D4-02-01	Designs, materials and solutions to improve resilience, preparedness & responsiveness of the built environment for climate adaptation (Built4People)	IA	15	2
2023-01-24	HORIZON-CL5-2022-D4-02-02	Solutions for the sustainable, resilient, inclusive and accessible regeneration of neighbourhoods enabling low carbon footprint lifestyles and businesses (Built4People)	IA	15	2
2023-01-24	HORIZON-CL5-2022-D4-02-03	Sustainable and resource-efficient solutions for an open, accessible, inclusive, resilient and low-emission cultural heritage: prevention, monitoring, management, maintenance, and renovation (Built4People)	RIA	20	4
2023-01-24	HORIZON-CL5-2022-D4-02-04	Smart-grid ready and smart-network ready buildings, acting as active utility nodes (Built4People)	IA	18	2
2023-01-24	HORIZON-CL5-2022-D4-02-05	More sustainable buildings with reduced embodied energy / carbon, high life-cycle performance and reduced life-cycle costs (Built4People)	IA	18	2

EIC Pathfinder Challenges – EIC Transition Challenges

Deadline	Topic Identifier (Hyperlink)	Topic Title	Action type	EU contr.
2022-09-28	HORIZON-EIC-2022-TRANSITIONOPEN-01	EIC Transition Open 2022	EIC Grants	2.5
2022-09-28	HORIZON-EIC-2022-TRANSITIONCHALLENGES-02	EIC Transition Challenge: **Process and system integration of clean energy technologies**	EIC Grants	2.5
2022-10-19	HORIZON-EIC-2022-PATHFINDERCHALLENGES-01-01	EIC Pathfinder Challenge: **Carbon dioxide and Nitrogen management and valorisation**	EIC Grants	4
2022-10-19	HORIZON-EIC-2022-PATHFINDERCHALLENGES-01-02	EIC Pathfinder Challenge: **Mid to long term and systems integrated energy storage**	EIC Grants	4

EIC Transition: Proposals must build on results from eligible EIC Pathfinder, FET or ERC Proof of Concept projects

Contact us:

energy@euresearch.ch

Proposal Writing Tips

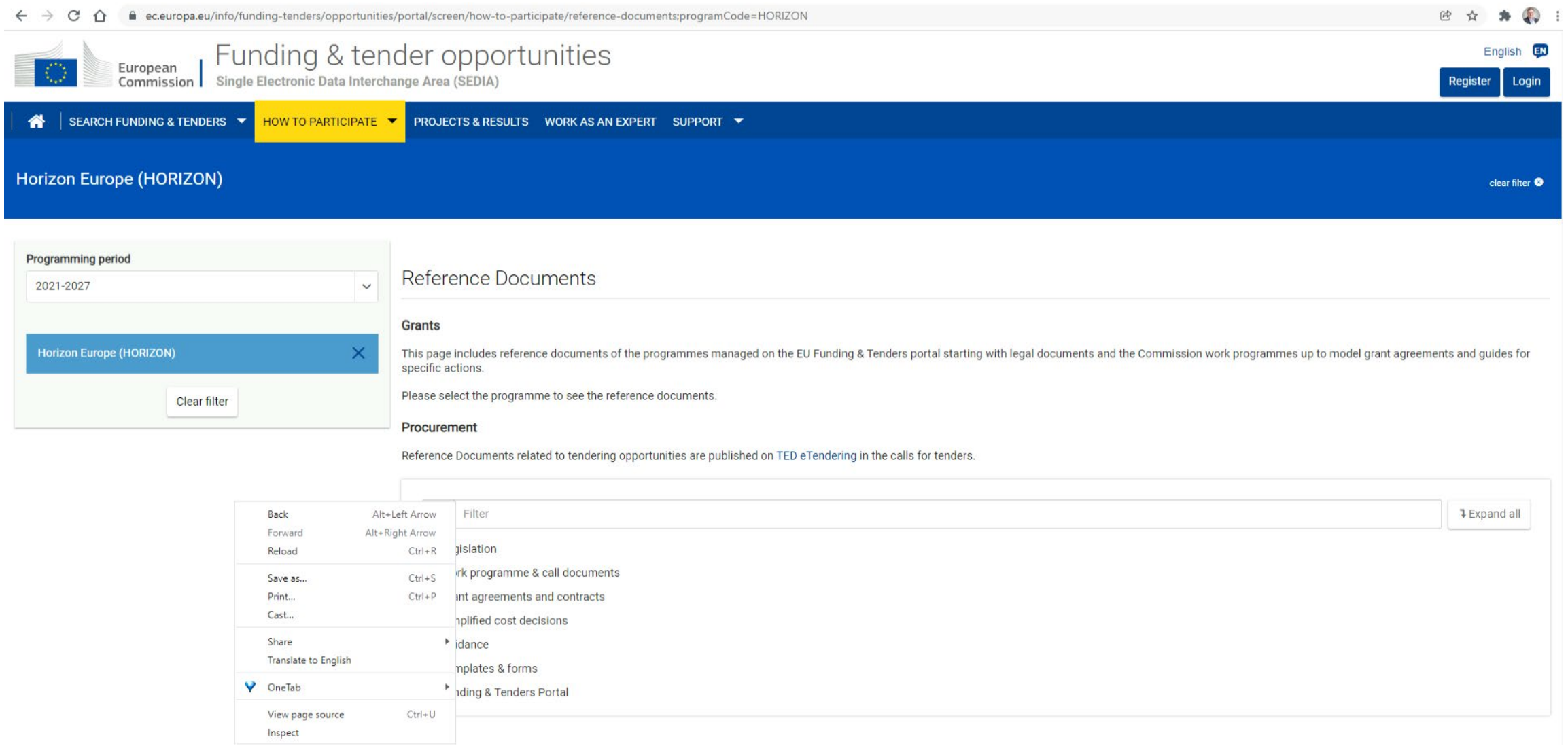
Stefan Fischer, PhD
NCP for Energy
Euresearch Network Office

stefan.fischer@euresearch.ch

Important Documents

Document title	**Source: Funding & tender opportunities portal**
Topic text on the Funding & tender portal with search function	SEARCH FUNDING & TENDERS ▼
Work programme as PDF document	Link under the section **« Topic conditions and documents »** to external website.
Standard Evaluation Form	HOW TO PARTICIPATE ▼ → Reference Documents → Templates & forms
Horizon Europe Proposal Evaluation Standard Briefing	Horizon Europe Proposal Evaluation Standard Briefing, Version 3.0 18.03.2022
Standard Application Form	Clean Hydrogen JU: Link under the section **« Topic conditions and documents »** to external website.

Reference Documents on the Funding & Tender Opportunities Portal



Evaluation Criteria

Excellence
– Clarity and pertinence of the project's objectives,
and the extent to which the proposed work is ambitious,
and goes beyond the state of the art.
– Soundness of the proposed methodology,
including the underlying concepts, models, assumptions, inter-disciplinary approaches,
appropriate consideration of the gender dimension in research and innovation content,
and the quality of open science practices,
including sharing and management of research outputs and engagement of citizens, civil society and end users where appropriate.

Impact
– Credibility of the pathways to achieve the expected outcomes and impacts specified in the work programme,
and the likely scale and significance of the contributions from to the project.
– Suitability and quality of the measures to maximise expected outcomes and impacts, as set out in the dissemination and exploitation plan,
including communication activities.

Implementation
– Quality and effectiveness of the work plan,
assessment of risks,
and appropriateness of the effort assigned to work packages,
and the resources overall.
– Capacity and role of each participant, and the extent to which the consortium as a whole brings together the necessary expertise.

Understand how Proposals are Evaluated

Horizon Europe Proposal Evaluation Standard Briefing:

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Impact Pathways

Impact Pathway Name - Meaningful and attractive name	**Objective (Solution)** - Time frame (during the project) - Quantified indicators - Work Effort - Team	**Outcome (Topic text)** – Time frame (during and beyond the project) – Quantified indicators – Baseline – Stakeholders	**Expected Impact (KPIs)** – Time frame (medium to long term) – Quantified indicators – Baseline

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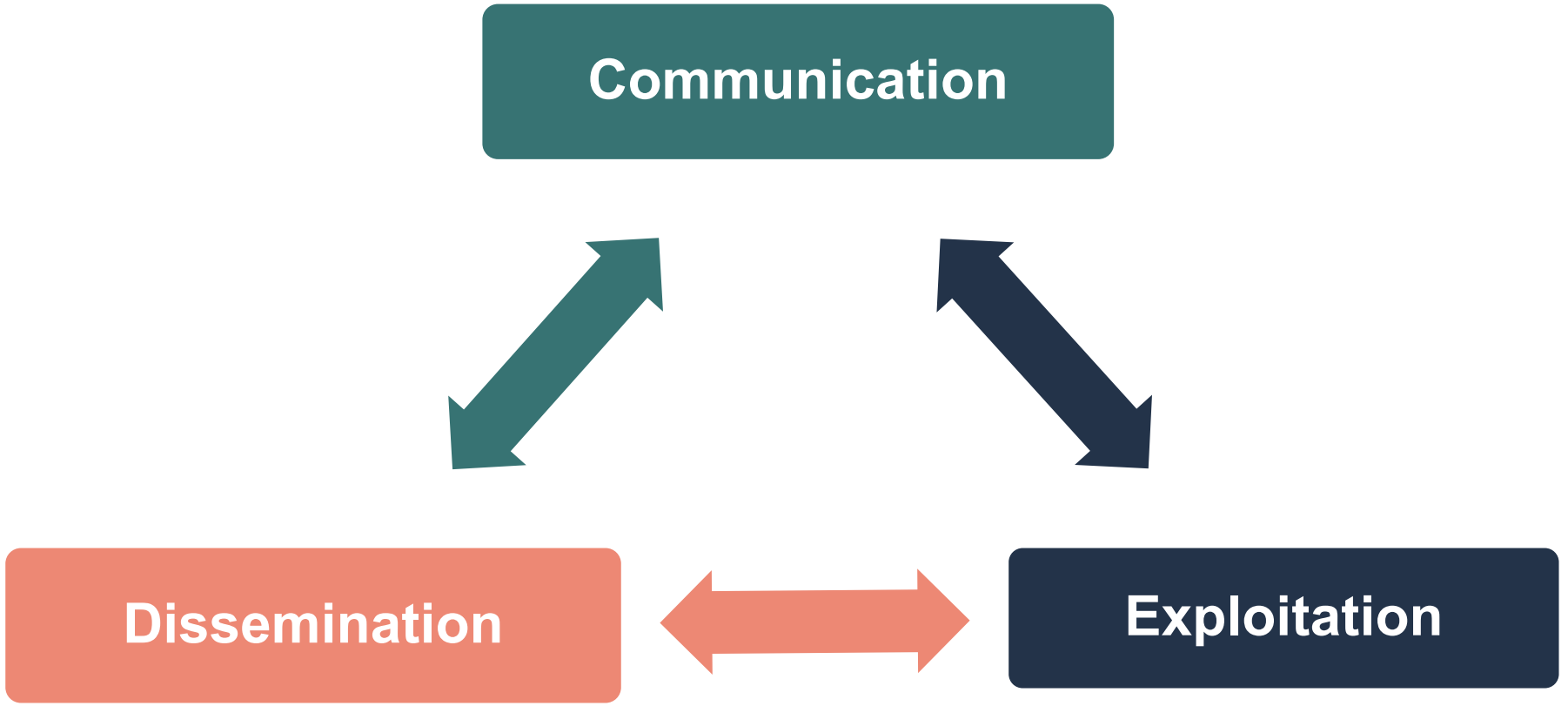
Define what is Communication, Dissemination and Exploitation for your Project



Communication - Dissemination - Exploitation

<table>
<tr><th>Informing about project</th><th>Informing about results</th><th>Making results available for use</th><th>Facilitating further use of results</th><th>Making use of results</th></tr>
<tr><td>Newsletter</td><td>Project website</td><td>Scientific publication</td><td>Innovation management</td><td>Spin-off/Start-up</td></tr>
<tr><td colspan="2">Press release</td><td>Policy brief/ roadmap</td><td>Copyright management</td><td>Standards</td></tr>
<tr><td>Project factsheet, brochures</td><td colspan="3">Training, workshops, demonstrators</td><td>Products</td></tr>
<tr><td rowspan="2">Social media (blogs, LinkedIn, …)</td><td>Videos, interviews</td><td rowspan="5">Sharing results on online repository (research data, software, reports)</td><td>Data Management Plan</td><td>Services</td></tr>
<tr><td>Articles in magazines</td><td colspan="2">Patents</td></tr>
<tr><td rowspan="3"></td><td>Exhibitions/ open days/ guided visits</td><td colspan="2">PhD thesis</td></tr>
<tr><td rowspan="2">Conference presentations</td><td colspan="2">Further research</td></tr>
<tr><td colspan="2">Open licenses</td></tr>
<tr><td colspan="2"></td><td>Active stakeholder engagement</td><td>Societal activity</td></tr>
<tr><td colspan="2"></td><td></td><td>Policy change</td></tr>
</table>

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Impact Pathways

- Impact canvas: nobody understands the table « 2.3 Summary: Key element of the impact section » in the proposal Template
- Use a meaningful name for the impact pathway

Impact Pathway Name	Objective (Solution)	Outcome (Topic text)	Impact (KPIs)	Communication	Dissemination	Exploitation

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Some Random Recommendations

Add a ½ page executive summary

- But only if you manage to write a convincing and compellling text highlighting the key elements of the proposal
- Address some of the evaluation criteria

There is no evaluation criterion judging how strict you follow the proposal template

- Use the evaluation criteria as the guiding principle

Use an Impact Pathway table

- Instead of usingthe table « 2.3 Summary: Key element of the impact section » in the proposal Template, use a more meaningful impact pathway table (see above)

Develop a convincing IP strategy

- Specify a budget for patent applications

Design communication, dissemination and exploitation activities into the project

Avoid using alibi partners that do not contribute significantly to the project

Forming a Consortium

Currently Swiss applicants cannot coordinate projects and have to apply as «associated partners».

Instead of waiting for being invited into a consortium, consider the following:

- Choose a suitable topic and start drafting and outlining a proposal reflecting your long term goals and research strategies
- Lead critical work packages
- Define the profile of potential partners and cover communication, dissemination and exploitation activities
- Define the management structure in such a way that you have influence on the project
- Find project partners via you personal network, social media, matchmaking events or your own events
- Identify a partner as coordinator

Contact us:

energy@euresearch.ch