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Head of Programmes

**Clean Aviation info day
and international
networking event**

31st March 2022

Online Info day - Turkey



CLEAN AVIATION

**PRINCIPLES AND
PRACTICAL GUIDANCE**

CALL 1



**Co-funded by
the European Union**

CALL 1 OPENING PHASE AT A GLANCE

▪ Call Launch	23 March 2022
▪ Submission System open	Mid-April 2022
▪ Call Closure	23 June 2022
▪ Q&A opens until*	23 May 2022
▪ Evaluation Phase	July-Aug 2022
▪ Results outcomes	September 2022
▪ Grant Signature	15 December 2022
<i>*Q&A will be published on the Funding and Tenders Opportunities Portal.</i>	

The call **contains 14 Topics** with an indicative total funding of **~736 M€**.

For questions: CFP-2022-01@clean-aviation.eu

Find out more:

- **Clean Aviation JU** website: [Calls for Proposals](#)
- Call Page via the **Funding and Tenders Opportunities Portal**: [CAJU Call 01](#)

OVERVIEW OF CLEAN AVIATION CALL 1

HORIZON-JU-CLEAN-AVIATION2022-01-	Title	Max Number of projects	Ind. Topic Value (Funding in M€)
Hydrogen-powered aircraft topics			
HPA-01	Direct Combustion of Hydrogen in Aero-engines	2	115
HPA-02	Multi-MW Fuel Cell Propulsion System for Hydrogen-Powered Aircraft	2	50
HPA-03	Large Scale Lightweight Liquid Hydrogen Integral Storage Solutions	1	10
HPA-04	Near Term Disruptive Technologies for Hydrogen-Powered Aircraft	2	7
Hybrid-electric powered regional aircraft topics			
HER-01	Multi-MW Hybrid-Electric Propulsion System for Regional Aircraft	2	75
HER-02	Thermal Management Solutions for Hybrid-Electric Regional Aircraft	1	40
HER-03	Electrical Distribution Solutions for Hybrid-Electric Regional Aircraft	1	40
HER-04	Innovative Wing Design for Hybrid-Electric Regional Aircraft	1	20
Short/short-medium range aircraft topics			
SMR-01	Ultra Efficient Propulsion Systems for Short and Short-Medium Range Aircraft	3	175
SMR-02	Ultra Performance Wing for Short and Short-medium Range Aircraft	2	55
SMR-03	Advanced Low Weight Integrated Fuselage and Empennage for Short Range and Short-Medium Range Aircraft	1	40
Transversal activity topics			
TRA-01	Aircraft concepts for regional, short and short-medium range aircraft enabling 30 to 50% reduction in emissions	3	90
TRA-02	Novel Certification Methods and Means of Compliance for Disruptive Technologies	1	18
Coordination and Support Actions			
CSA-01	Developing a European Clean Aviation Regional Ecosystem (ECARE)	1	0.72
TOTAL	14 topics	up to 23 projects	735.72M€

Description of the call topic and topic specific conditions

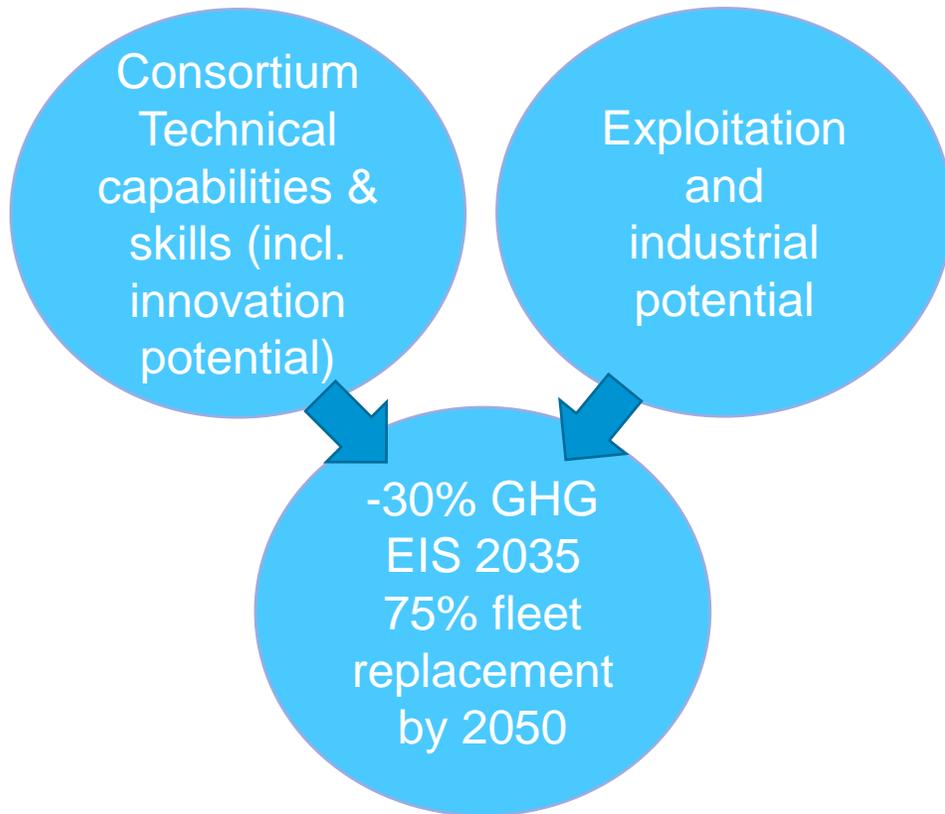
- Specific eligibility criterion
- Expected EU contribution per project
- Indicative budget
- Indicative project duration
- Type of Action
- Technology Readiness Level
- Special skills and/or capabilities expected from the Applicant(s)
- Membership agreement and other model agreements
- Project and Impact Monitoring
- In-kind contributions (IKOP/IKAA by JU Members; co-funding by other applicants)
- Other relevant projects

Expected Outcome

Scope

Performance targets

Consortium configuration

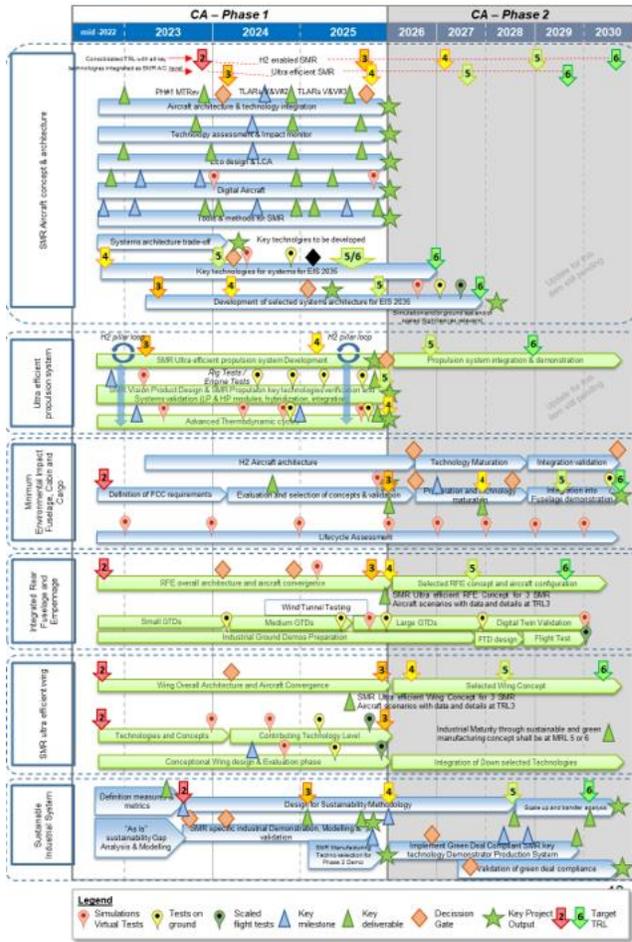


Applicants should:

- Ensure their proposal and consortium reflect all **necessary expertise and capabilities**;
- Identify and include the **additional expertise** needed to complement the traditional aeronautical domain, in order to effectively address the incorporation of new/disruptive technologies;
- Where appropriate, **include newcomers to the field of aeronautics** and in particular SMEs, start-ups and/or knowledge centres that can bring disruptive innovation to the project as proposed

Consortia capabilities, skills and expertise to deliver the expected impact

SMR Gantt Chart (example)



The applicants should :

- ensure their proposal is aligned with the Gantt chart(s) of the relevant thrust(s) as published in the Clean Aviation Work Programme 2022-2023),
- indicate in their proposal a list of topics published in this call, from which other relevant projects may be selected and with which cooperation and an exchange of information will be needed in order to achieve the proposal’s objectives.
- duly considers **interfaces and interdependencies** therein, in order to ensure a consistent and coordinated approach with the selected other relevant projects
- **an integrated programme planning finalised at M6:** Define a deliverable which will provide the specific technical requirements, the necessary data/information exchanges and the delivery schedule thereof with respect to the other relevant projects including a list of milestones and deliverables across the contributing projects.
 → **This deliverable must be issued by the applicants at M6.**

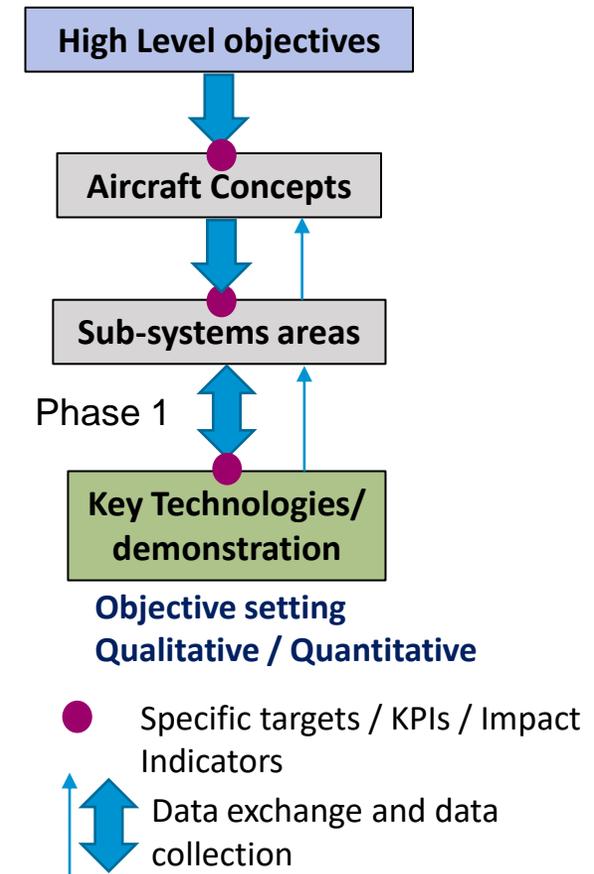
Continuous monitoring (yearly or biennial basis)

- Ensure relevant exchanges of information and data between
 - ***Aircraft concepts project(s)***: collection of data from the other relevant project(s) contributing to the aircraft concept activities
 - ***Contributing projects (Sub-systems / Key Technologies/ demonstration areas)***: delivery data to the other relevant project(s) on aircraft architecture (TRA-01)

Project results at completion

- Issue a final impact/performance assessment at project completion including a TRL assessment, in order monitor and **assess the progress of the activity towards the targeted impact and performance.**

The alignment of results and progress towards the contribution to the SRIA and the SRIA High-Level Objectives will be regularly assessed (by consortia and the CAJU) against Key performance indicators defined across projects



In-Kind Contribution (IKC) to the Programme

- Members vs. Non-Members
- Two types of IKC:
 - IKC to operation activities (IKOP)
 - IKC to additional activities (IKAA)
- Required min. level of in-kind contributions: 1.5 times the funding request in aggregate for the proposal

Ref. Art. 61 of the Council Regulation (EU)
[2021/2085](#)

The proposal should include:

- a description of the IKC provided by the Members (IKOP + IKAA) and the non-Members (at the stage of the proposal submission) who clearly express the ambition to become a member before project end;
- include a list the actions implemented and envisaged to ensure an adequate level of IKC as defined in the topic as well as to demonstrate their reliability and associated risks.

The applicants will submit a proposal, divided in several parts:

- **Part A:** the administrative information about the proposal and the participants.
- **Part B: the technical description of the proposal** (main aspects of the proposal to be evaluated i.e. summary budget, timeline, effort, work breakdown structure, risks according to the evaluation criteria (excellence, impact, evaluation). **PART B is subject to a 120-page limitation (excluding the annexes).**
- **Annexes to Part B** including the following information on :
 - work packages: detailed description of tasks, related efforts and cost breakdown per beneficiary;
 - applicant entity and any participant in the work (legal entity, CV, core-competencies and background);
 - any ethics and/or security aspects flagged in Part A and how these are addressed.



**→ Applicant(s) should ensure coherence / consistency between Part A, Part B and Annexes.
All these parts are necessary to validate the proposal application.**

Main elements:

- **Submission of proposals under the open calls, procedural steps (in line with HE rules)**
- **Eligibility, evaluation vs award criteria and selection process (in line with HE rules)**

- 1) Experts' individual assessment
- 2) Consensus Phase (including possible hearings)
- 3) Topic Panel Review – cross reading of final reports (Evaluation Summary Reports)
- 4) Call Panel Review (optional phase 4)

- Establishment by the ED of the list of proposals selected for funding to be sent to the GB for approval**
- Mechanisms to prioritise proposals and to steer budget flexibility where needed**
- **GA preparation phase leading to grant signature – technical and financial adjustments of proposals may be requested based on Evaluation summary reports**

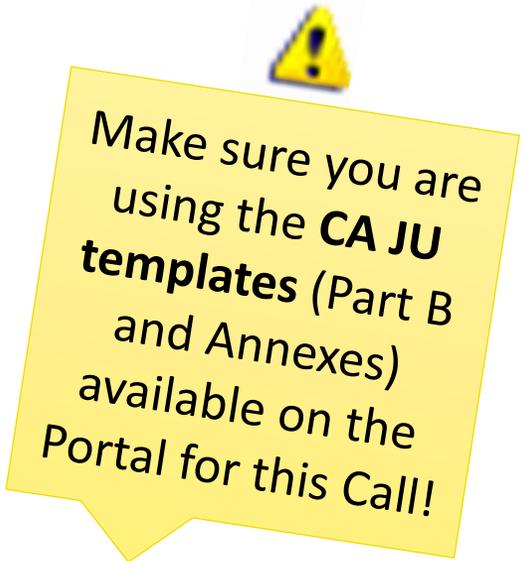
NB: Rules for Submission must be read in combination with the Work Programme (eligibility rules, award criteria, weightings, criteria for “ex aequo” etc) and the call text (topics description, requirements and additional conditions applicable at call or specific topic level)

The CA JU proposal template is structured to address all the sub-criteria composing each of the 3 evaluation criteria. These will be used during the evaluation to set up the scoring and the ranking.

The following aspects will be considered, to the extent that the proposed work corresponds to the description in the CA JU Work Programme:

[A] EXCELLENCE

- i. Relevance vs the SRIA/topic objectives
- ii. Clarity and pertinence of the project's objectives (SMART objectives)
- iii. Soundness of the proposed overall methodology
- iv. High level of innovation and associated performance objectives.



The evaluation criteria are elaborated and implemented as specified in the CA JU Work Programme and Rules for Participation. More details are provided in the CA JU Proposal Template Model (Part B and Annexes).

[B] IMPACT

- i. **Credibility of the pathways to achieve the expected outcomes and impacts** (quantitative measurement/assessment and performance monitoring strategy)
- ii. **Measures to maximize expected outcomes and impacts**
- iii. **Credible plan for a potential market uptake**
- iv. **Industrial strategy of the consortium as a whole** describing the possible **supply chain** approach, the envisaged **knowledge transfer** if any and the **industrial capabilities** and **objectives of participants**, etc.
- v. **Existing synergies with Programmes** (EU, national, regional)



Make sure you are using the **CA JU templates** (Part B and Annexes) available on the Portal for this Call!

The evaluation criteria are elaborated and implemented as specified in the CA JU Work Programme and Rules for Participation. More details are provided in the CA JU Proposal Template Model (Part B and Annexes).

[C] IMPLEMENTATION

- i. **Quality and effectiveness of the proposed project work plan, appropriateness of the effort assigned to work packages, major / key milestones and deliverables consistent with final targets/objectives sought in the topic;**
- ii. **Appropriateness of the financial plan and budget in line with the topics' indicative value;**
- iii. **Consortium configuration and the necessary expertise to meet the objectives and mitigate technical risks;**
- iv. **Match of technical capabilities and skills with the Topic Area and congruent with the programme objectives embodied in the topic;**
- v. **Ability to involve supply chain and into an equal or higher tier industrial organisation;**
- vi. **Ability to ensure an adequate level of in-kind contribution to the CA JU as defined in the calls/topics.**



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The evaluation criteria are elaborated and implemented as specified in the CA JU Work Programme and Rules for Participation. More details are provided in the CA JU Proposal Template Model (Part B and Annexes).

Not legally binding

Call Background documentation:

1. CA JU Call 1 topics descriptions;
2. CA JU Work Programme 2022-23 and in particular, Chapter 2.4.3 “Conditions and Management of the calls”
3. CAJU rules for submission, evaluation, selection, award and review procedures for calls for proposals
4. Clean Aviation Strategic Research and Innovation Agenda (CA JU SRIA)
5. Proposal Template Model for IA and RIA Actions - CA JU (*soon available*)
6. Proposal Template Model for CSA Actions - CA JU (*soon available*)
7. Proposal Template Model for Work Package and Budgets Tables (*supporting tables to Part B “technical description” of the Proposal Template*) (*soon available*)
8. Evaluation Form IA an RIA Actions - CA JU (*soon available*)
9. Evaluation Form CSA Actions - CA JU (*soon available*)
10. Model Consortium Agreement - CA JU (*soon available*)
11. Model Cooperation Agreement - CA JU (*soon available*)
12. [HE Model Grant Agreement](#)
13. [EU funding & Tenders: Rules for Legal Entity Validation, LEAR Appointment and Financial Capacity Assessment](#)
14. [EU Grants AGA — Annotated Model Grant Agreement](#) (EU Funding Programmes 2021-2027)

For reference:

- [Regulation \(EU\) 2021/2085](#) adopted by the Council of the European Union on 19/11/2021 establishing the Joint Undertakings (JU) under Horizon Europe (HE)
- [HE Programme Guide](#)

1. Applicants submit their questions via CFP-2022-01@clean-aviation.eu;
2. Questions are collected by CA JU and if/where relevant, addressed after analysis;
3. Q&As are published once available via the [Funding & Tender Opportunities Portal](#). Two-Three Q&A releases are foreseen:
 2. The first is planned on or soon after **31 March 2022***
 3. The second is planned on or soon after **27 April 2022***
 4. The third is planned on or soon after **26 May 2022***
4. Applicants are advised to regularly check the [CA JU website](#) and [Participant Portal](#) for updates to the call information and questions
 - ❖ *DO NOT ask for replies via the Functional Call Mailbox !*
5. FAQs can be submitted to the above functional call mailbox **until 23 May 2022, 17:00 (Brussels Time)**.
 - ❖ *N.B. Questions received after the deadline will not be taken into consideration !*

* The above dates are indicative estimated dates



CLEAN AVIATION

ENGAGE
with US!

www.clean-aviation.eu

Visit our online stand at
<https://cleansky.virtualfair.be/>



Co-funded by
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