Application Form

Regulatory Challenge Sandbox on Hydrogen as aviation fuel

Important information

This document provides a form to be used by applicants to the regulatory challenge sandbox on Hydrogen as aviation fuel to gather information about the applicant(s) and associated project(s). A word version of this form can be requested by emailing the CAA Hydrogen Challenge team hydrogenchallenge@caa.co.uk

When this application form has been completed, it should be emailed along with the Sandbox ConOps and test plan to hydrogenchallenge@caa.co.uk. Please use the following subject title, 'Regulatory Challenge sandbox application – Hydrogen as Aviation Fuel'.

The closing date for submission of the Application form is **Wednesday 10 January 12:00 hrs GMT**.

Section 1: Organisation Details

Name of the Organisation	
Address Line 1 of Head Office	
City/Town	
Post Code	
Country	
Point of Contact	
Your contact email	
Your contact phone number	
Organisations Website (if any):	

Section 2: Please tell us more about your organisation.

This helps us understand more about your firm and the work that you do.

Organisation Type (e.g., academia, government department, agencies, public body; private corporation; Research Institute; small & medium enterprise; **start up; Other**)	
Do have any related authorisations from, or current applications with the CAA? **Please list.**	
Are you already working with the CAA departments? If yes, please give details.	
What is the size of your organisation/team. 0-9 employees, 10-49 employees, 50-249 employees, 250+employees	
How did you hear about us? Event, Media Coverage, Referral from CAA staff, Website, Word of Mouth, Other	

Section 3: Project Details

The purpose of this section is to provide the CAA with an initial high-level overview of your project.

What is the technology focus of your project: Hydrogen Gas Turbines, Fuel cells & electrical propulsion, Liquid hydrogen tanks, Hydrogen distribution, Ground Operations, Thermal Management, Aircraft Design, Aircraft Systems, Airport, Safety & Reliability, Fuelling, Hydrogen Storage & Others.	
When does your project start	
Duration in months	

1. Please provide a brief overview of the project and its objectives*

(500 words maximum)

NB:

- *Please set out any high-level risks/safety hazards that your technology/innovation may present.*
- *Please explain how their participation in the sandbox will support the introduction of hydrogen as an aviation fuel.*

2. Please advise your Technology Readiness Level (TRL) of your technology.

TRL 1 – Basic Principle 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 (industrially relevant environment in the case of key enabling technologies) TRL 6 – Technology demonstrated in Relevant environment (industrially relevant environment in the case of key enabling technologies) TRL 7 – System prototype demonstration in operation environment. TRL 8 – System complete and qualified. TRL 9 – Actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies). Other.	

3. Do you intend to undertake any testing and if so, when?

4. One key aspect of the Regulatory Sandbox for Hydrogen as an Aviation Fuel is to Enable the CAA to assess new hydrogen technologies, understand the hazards and safety risks associated with their introduction and understand how industries move towards an acceptable level of safety.

Are you happy for test results to be shared internally within the CAA's policy and regulatory teams?

5. Please provide a matrix of any risks identified that could have an impact on the project

6. Please provide a governance structure for the project outlining key individuals and their responsibilities required from your organisation to make this project successful