



Mid-Atlantic Clean Hydrogen Hub

End-Users & Off-Takers

Request for Information

March 5, 2025

Table of Contents

1.0 MACH2 Overview	1
2.0 Request for Information	1
3.0 Submission Requirements.....	2
4.0 Evaluation and Response to Submissions	3
5.0 Submission Timeline	4
6.0 Terms and Conditions.....	4

1.0 MACH2 Overview

The Mid-Atlantic Clean Hydrogen Hub (MACH2) has been selected by the U.S. Department of Energy's (DOE) Office of Clean Energy Demonstrations (OCED) to develop a Regional Clean Hydrogen Hub. The Regional Clean Hydrogen Hub (H2Hub) Program will kickstart a national network of clean hydrogen producers, consumers, and connective infrastructure while supporting the production, storage, delivery, and end-use of clean hydrogen. Funded by the Bipartisan Infrastructure Law, the H2Hubs will accelerate the commercial-scale deployment of clean hydrogen—helping generate clean, dispatchable power, create a new form of energy storage, and decarbonize heavy industry and transportation.

MACH2 aims to drive decarbonization and economic development in hard to abate sectors, having a lasting impact on a broad range of industrial economies and communities across Delaware, southeastern Pennsylvania, and southern New Jersey. The vision of the Mid-Atlantic Clean Hydrogen Hub (MACH2) is to create a clean, economically viable, and socially equitable hydrogen ecosystem that repurposes legacy fossil-fuel infrastructure, revitalizes local communities, and advances a national clean hydrogen network.

The Hub will develop an interconnected network of clean hydrogen producers and end-users to drive decarbonization, health, and economic benefits across the state of Delaware, southeastern Pennsylvania, and southern New Jersey. MACH2 has strategic proximity to innovation centers and intends to demonstrate a broad spectrum of production technologies and end-uses for clean hydrogen fuel, including transportation in urban settings. MACH2 has been shaped through strong collaboration and will strive to continue to include the voices and needs of local industry, community, and labor organizations in its vision and direction.

MACH2 is a 501(c)(3) pass-through non-profit entity recipient of the Office of Clean Energy Demonstrations' Clean H2 Hubs Award, created with the goal of managing the Award and the Hub. The Hub is comprised of said pass-through entity and 20+ projects executed by approximately 12 organizations with project types spanning hydrogen production, consumption, and transportation in partnership with educational institutions. These partner organizations seek to advance the vision of the Hub through the fulfillment of the Hub's core objectives.

2.0 Request for Information

MACH2 is seeking to identify end-use and off-take projects (i.e. customers / consumers of hydrogen) that demonstrate alignment with the vision, values, and goals outlined above. This Request for Information (RFI) is an opportunity for new and existing partners to showcase transformative hydrogen projects aligned with the Department of Energy's goals for a clean hydrogen economy and indicate their interest in partnering with the Hub.

2.1 Project Timelines

As outlined in our agreement with the US Department of Energy, MACH2 and our associated production projects will progress through the following phases of project development:

Phase	Timeframe
Phase 1: Conceptual Design	12-18 months; 15 months target
Phase 2: Project Development, Permitting, and Finance	~2-3 years; 33 months target
Phase 3: Construction	~2-4 years; 36 months target
Phase 4: Operations and Sustainment	~2-4 years; 36 months target

Hydrogen off-takers responding to this RFI should anticipate that their need for hydrogen supply will align with this timeline.

Hydrogen production projects are scheduled to become fully operational by 2032; however, it is likely that hydrogen supply will start becoming available prior to that. If hydrogen would be needed at an earlier date, please indicate that in your response.

Hydrogen off-takers who require federal matching funds will be required to progress through all four project phases.

2.2 Who Should Respond

- Hydrogen off-takes or end-users who are interested in purchasing hydrogen supplied by MACH2 hydrogen producers.
- Projects can express whether federal funding will be requested to enable capital upgrades required for hydrogen offtake and usage.
- Priority will be given to projects located within, or having a direct connection to, the Mid-Atlantic region of New Jersey, Pennsylvania, and Delaware.
- Off-takers located in New York, Maryland, and Virginia are also encouraged to respond.
- Submissions may be submitted by new interested applicants or by existing Hub members.
- MACH2 is a hub focused on developing mobility-based hydrogen innovation and the ideal off-taker would be involved with transportation, heavy vehicles, shipping, or manufacturing. Other use cases are also being considered and are encouraged to respond.

3.0 Submission Requirements

Submissions should include a detailed project description to provide MACH2 with the necessary information to determine if the projects are of interest to and would further the goals of MACH2.

3.1 Cover Letter

- Company or Organization name, etc.
- Primary points of contact (name, title, address, phone, email)

- Explain your interest in partnering with MACH2.
- Provide a brief summary of the scope of your end use/off take project. Include details relevant to understanding the proposed final product or outcome.

3.2 Table of Content and Figures

3.3 Project Description

The response should address the points below to the extent practicable based on the scope of the proposed project. Additional information may be included as appropriate.

- Project description
- Site and maturity of project
- Technology leveraged
- Current and planned offtake position/demand estimate
- Project's role in the regional hydrogen network
- Provide any unique or ancillary benefits

3.4 Projected Project Financing

If capital upgrades will be required to enable H2 demand and offtake, projects can elect whether it seeks to be considered for federal funding to offset the expected cost.

- Indicate total projected project costs required to enable H2 demand and offtake (if known).
- Indicate if the project is interested in consideration for federal funding to offset a portion of the capital upgrades required to enable H2 demand and offtake
- Describe any other elements of your project financing plan not included above (optional).

3.5 Previous Experience

Provide details on previous experience in developing projects of similar scope.

4.0 Evaluation and Response to Submissions

Submissions will be evaluated by MACH2 for the purposes of 1) identifying potential customers for MACH2 hydrogen producers, and 2) informing an upcoming RFP for federally-funded subrecipients in alignment with DOE requirements.

MACH2 will evaluate each submission for overall viability and alignment with programmatic goals but submissions will not be individually scored.

For the purposes of identifying potential project partners, evaluation criteria will include:

- The applicant clearly describes the proposed scope of the project.

- The applicant has identified a preliminary project development plan and timeline, including a finance plan.
- If federal funding is required, the applicant and proposed team have the qualifications, experience, capabilities, and other resources necessary to design, develop, build, and operate the proposed project.
- The proposed work, if successfully accomplished, would meet the objectives of MACH2, including achieving market liftoff and attracting follow-on investments from the private sector to build out a national clean hydrogen network.

MACH2 will respond to interested project sponsors with feedback on their proposed projects.

5.0 Submission Timeline

The table below shows dates relevant to submissions for this RFI. All correspondence, including notices of intent, questions, and final submissions, should be sent to mcitron@mach-2.com.

RFI Open	Wednesday, March 5, 2025
Questions Due	Monday, March 17, 2025
Q&A Posted	Monday, March 24, 2025
Response Date	Monday, March 31, 2025

6.0 Terms and Conditions

Detailed information on the MACH2 cooperative agreement with DOE will not be provided at this time; however, interested applicants should be aware of the following highlights of the flow down terms and conditions.

- Projects must be able to comply with the applicable requirements of 2 CFR 200 Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards and 2 CFR 910 Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards
- Projects must comply with all applicable Federal, Tribal, State, and Local laws and regulations for all activities performed under an award including
- National Environmental Policy Act (NEPA), 42 USC §§ 4321 et seq., and implementing regulations at 40 CFR Parts 1500 et seq. and 10 CFR Part 1021
- Build America, Buy America Act under Division G, Title IX of the Infrastructure Investment and Jobs Act (IIJA), Public Law 117–58
- Applicants proposing projects that are foreign entities, anticipate work performed outside of the United States, or that intend to use foreign nationals to execute some or all of the scope will require specific authorization from OCED.