PBF MACH2 Holdings LLC

REQUEST FOR PROPOSAL

**Methanol Market Study**

PROPOSAL NO. 2507-B

7/30/2025

**Statement of Confidentiality:**

The information contained in this document is confidential to PBF MACH2 Holdings LLC(PBF). It may not be disclosed, duplicated, or used for any purpose, in whole or in part, without the prior written consent of PBF MACH2 Holdings LLC.

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Definitions:

1. GHG: Greenhouse gas
2. CAGR: Compound Annual Growth Rate
3. MACH2 consortium: Officially known as the [Mid-Atlantic Clean Hydrogen Hub](https://www.google.com/search?sca_esv=a6b2448f283cfc84&rlz=1C1GCEA_enUS1006US1006&cs=0&sxsrf=AE3TifMW5JiuRmJhHd7tJ1Gn5m3Jx_bqMQ%3A1752156373915&q=Mid-Atlantic+Clean+Hydrogen+Hub&sa=X&ved=2ahUKEwi05uCRu7KOAxXlRDABHZBdB-QQxccNegQIBRAB&mstk=AUtExfCzwA_eOsIBE_3TWgvD8h9kDejN63EPqaHAOACUfNFf-jlPX4UTXnl_cUo0oQO1QlMnOwRFCIMxOeA6ohaxrTSCJT933RS-g6rmFl15lGJBBP3WoSQ-OEC_GsoAUsRyUQkOynt9voI8UdkDaYXnzNhZxYP1K70VtHJL0PFCnk7-RYg0uyj-CNw5V-pEyMle_-J2ejgZQcNU9j3_Vtv2kkoyquj9hcI-murNDIkj8O3ghgHkjbqcBjPqykR1E6f8_K9U4K0WLrpPHa_yn1ZqiXt8-PQDjvvvSlL0dL2KohUlIA&csui=3), is a public-private partnership focused on developing a clean hydrogen economy in Delaware, Southeastern Pennsylvania, and South Jersey
4. PADD 1, 2 & 3: Petroleum Administration for Defense Districts, specifically the East Coast (PADD 1), Midwest (PADD 2), and Gulf Coast (PADD 3) regions of the United States.

**REQUEST FOR PROPOSAL INSRUCTIONS TO BIDDERS**

As a sub-recipient of MACH2 consortium, PBF MACH2 Holdings LLC(PBF) intends to develop a low-carbon hydrogen production facility to economically produce hydrogen in line with the growing demand for low-carbon energy solutions. The clean hydrogen would serve as a feedstock for a potential world-scale methanol plant located at our Delaware Complex. (i.e., Delaware City or Paulsboro refinery) We expect the current scope of green hydrogen production to be approximately 50,000 MT/y (58 MMSCFD or 151 short tons/day), utilizing approximately 350 MW of electrolyzers.

Transportation access will be critical to create an economic methanol value chain from refinery gate to customer. PBF’s Delaware complex has access to world-class rail transportation and wharf access providing opportunities to ship and barge products along the US coast into major demand centers (e.g., New York Harbor, Philadelphia, Wilmington, NC and Chesapeake, VA) and into European markets.

PBF is requesting bids to perform a comprehensive market study of the global methanol market with a deep dive into the US and global shipping market. This study will inform PBF’s potential investment in the production of grey methanol or blue /green methanol. Please note, for PBF to produce blue methanol, the captured CO2 would either be sold as off-take and/or combined with green hydrogen to produce blue methanol. Underground sequestration in the Delaware Valley is not considered a viable alternative from a regulatory / permitting or cost perspective.

The purpose of the study is to understand the basic underlying fundamentals of methanol market formation to facilitate the following investment decisions: what “color” of methanol to produce; the cost-to-produce required to effectively compete on a global scale, where and to whom PBF’s products could be sold (“addressable demand”), and what price / revenue could be captured.

To inform these choices, the RFP scope includes developing a “bottom’s up” assessment of supply, addressable demand, cost to produce, laid-in transportation cost, tax incentive implications, and price or “willingness to pay.” All analytic requests below should be completed for each grey, blue and green methanol with forecast estimates for the next ~5-years (short-term) and the next ~10-20-years. (long-term) In addition, we are also looking for a best and worst case scenarios particularly around pricing and demand formation.

**Instructions:**

1. PBF will use the Information subject to the conditions outlined in the applicable bid package.
2. Bidders will not submit any information through this RFP that includes “personal information,” defined as follows:

i) an individual’s first name or initial and last name along with any of the following:

* social security number;
* driver's license number, state identification card number or other government identification number (though, for clarity, submitting a state contractor’s licensing number is acceptable, and sometimes required);
* account number, credit card number, or debit card number in combination with any required security code, access code, or password that would permit access to an individual's financial account;
* vital record information in form of life events kept under government authority (i.e., birth certificates, death certificates);
* biometric data (e.g., retina, iris image, fingerprints);
* medical information, including physical or mental health information;
* health insurance identification number;
* the provision of health care to an individual;
* payment information regarding the provision of health care to the individual;
* mother's maiden name;
* stock or other security certificate or account number; or
* any other number or code or combination of numbers or codes, such as account number, security code, access code, or password, that allows access to or use of an individual's medical, financial or credit information.

**INSTRUCTIONS TO BIDDERS**

**1.0 GENERAL INFORMATION**

You are hereby invited on behalf of PBF MACH2 Holdings LLC to submit your proposal for a Methanol Market Study in accordance with this Request for Proposal including all Documents and Exhibits listed in the Table of Contents.

Commercial options for lump sum compensation should be provided.

Bidders shall provide pricing based on a discount from their standard pricing schedules for all services and/or products offered. Multiple percentage discounts and other proposed incentives will be considered but must be clearly presented and measurable.

**2.0 PROPOSAL**

Proposals will be limited to 25 total pages and will not be considered unless they consist of **ALL** of the documents completed in their entirety listed herein.

**3.0 RFP COMMUNICATION**

Bidders must refrain from contacting any PBF employees directly regarding this RFP once it has been published unless instructed to do so by the RFP initiator.

ALL communications regarding this specific Event must be submitted via email to the following contact:

donald.yorkman@pbfenergy.com

**4.0 ADDENDA DURING BIDDING**

Any additional information required by the Bidders, revisions in the work, changes or additions, discrepancies in the bidding documents, or clarifications will be in the form of addenda written and issued to all Bidders. Any addenda issued to Bidders shall be acknowledged in proposal when submitting bid.

**5.0** **REQUEST FOR PROPOSAL TERMS & CONDITIONS AND RESPONSES**

Each recipient should submit a detailed response to Exhibit A Questions and assume that the Work is Remote. This study is related to PBF Mach2 Holdings LLC’s participation in the US Department of Energy’s effort to establish Regional Clean Hydrogen Hubs. PBF Mach2 Holdings, LLC is a Subrecipient of funding from the Department of Energy for the study, and as such, there are certain requirements that must be passed down to any company that works for us on this study. This is a standard requirement of the federal government that we want to make all potential participants aware of in advance. Any company that submits a proposal for this project is acknowledging their acceptance of the requirements by doing so. Those requirements are as follows:

1. Consultant agrees to comply with Title 2 of the Code of Federal Regulations, also known as 2 CFR 200 and 2 CFR 910 as applicable as it relates to this project.
2. Consultant agrees that your company, any subcontractors, or principals are not suspended or debarred by the General Services Administration (GSA).
3. Consultant agrees that all employees that work on this study must be US citizens, residing in the United States and all work must be done in the United States.
4. Consultant agrees that if they plan to subcontract any work on this project all necessary provisions must be passed on to the subcontracting entity in a contract that is made available to PBF immediately upon request.
5. Consultant will notify PBF if they are a certified minority owned, woman owned, veteran owned, or Disadvantaged Business Enterprise. A copy of your certification must be provided with your proposal submission.
6. Consultants must agree that they will not use any funds paid to them as part of this study by PBF MACH2 Holdings LLC to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. CFR 200 (Appendix II Section (I))
7. Consultant agrees to comply with all requests for information and documentation necessary for PBF to comply with requests from the Mach2 consortium or and United States government agency.
8. Proposals must be submitted as Lump Sum amounts.

**6.0 PERFORMANCE SCHEDULE**

Terms and conditions shall be provided and negotiated based on determination of final selected bidders. Bidder shall recognize and comply with the following RFP schedule:

RFP Post Initiated August 1, 2025

Intent to Bid returned August 6, 2025 at 2:00 PM EST (Bidders that intend to bid must notify PBF by emailing donald.yorkman@pbfenergy.com)

RFI from suppliers due August 13, 2025 at 2:00 PM EST

RFI response due from PBF August 19 5PM EST

Proposal due Date August 28, 2025 at 2:00 PM EST

Award Decision Expected September 11, 2025 5PM EST

**7.0 RETURN OF RFP DOCUMENTS**

Bidders shall not save or keep copies of any PBF documents received during the Request for Proposal (RFP) event.

**BIDDER’S RESPONSE (All Sections REQUIRED) [Bid Conditions]**

Bidder shall submit the following via email per the instructions contained herein. If this information is not submitted with bid submission bidder risks disqualification:

**1. General Bidder Information**

Please provide an overview the following general information:

* Services offered
* Areas of expertise
* United States corporate base location
* Organization, experience, and leadership
* General methanol experience
* Certificate showing approved status as a minority, women, or veteran owned business if applicable.

Please provide contact information for this project:

* Project Manager Name
* Project Manager Phone Number
* Project Manager Email
* Company Address

**2. Bidder References**

Provide 2 (2) customer firms that can serve as references regarding your firm’s experience, capabilities, and results achieved. Provide company name, contact person familiar with your firm, title, telephone number, e-mail address, nature and scope of services provided, length and dates of relationship. The references provided should represent, as closely as possible, the nature of work proposed here and for a customer and environment like PBF.

**3. Execution Plan**

Bidder shall provide an overview on how they plan to execute the work to achieve cost, schedule, and quality. This plan shall include at a minimum home office management support, project controls systems and support, manpower deployment strategy, and approach to coordination and sequencing of work elements. Execution Plan should include all services offered.

**4. Organization Chart**

Bidder shall submit an organization chart of all proposed staff personnel to complete the project **including overall accountability and day-to-day accountability**. Please include job description that defines the responsibilities and authorities for each position proposed. Please include the resume for the project manager who will lead the project. **The Company reserves the right to approve or reject proposed key personnel.**

This is a short-term study not anticipated to be longer than 3 months in duration. It is a project requirement that the project lead for the study remain in this role through the entire project unless it is requested by PBF that they be removed. Language to the effect will be included in the contract.

Bidder shall include information regarding any part of the work that they plan to subcontract, including the name and contact information of the subcontract recipient.

**5. Commercial Proposal**

Bidder shall provide an all-inclusive and transparent commercial proposal. The proposal shall include a lump sum. **Company wished the bidders to adhere to a Not to Exceed amount of $750,000. If this is not possible for your proposal, please include an explanation for our review.** Please include a breakdown of the lump sum amount by labor, travel, material costs, and any other criteria necessary. The proposal must also include a list of anticipated labor hours by position assigned to the project which would correlate to the full project hours and cost. Please also include a rate card listing all of the positions and their hourly rate. Commercial Terms and conditions shall be provided and negotiated based on determination of final selected bidders.

**6. Additional Information to be included:**

* Recent project completions
* Project deliverables listing
* Clarifications and assumption log

**7. Signed copy of PBF Professional Services Contract**

* A signed or redlined copy must be returned with the proposal submission. Preference will be given for any contract that is signed without redlines and any redlines will be considered as part of the evaluation for award. Scope of Work and Compensation sections of a signed contract will be updated after the award, via amendment.
* Desired contract length: 3 years

**8.0 Proposal Evaluation Criteria**

|  |  |
| --- | --- |
| **Summary of Evaluators By Area or Subject Evaluated** | **Category Weighting** |
|  |  |
| **Technical / Sophistication (60 points)** | **50** |
| Past Relevant Study Experience | **10** |
| Methanol Supply and Demand Forecast Methodology | **10** |
| Analytic Rigor | **10** |
| PADD 1 Go To Market Approach | **10** |
| Technical Knowledge (Grey vs. Grey/Blue) | **10** |
|  |  |
|  |  |
| **Execution (30 Points)** | **40** |
| Time required | **5** |
| Project Schedule Quality | **5** |
| Comprehensiveness and depth of Proposal | **15** |
| Team Lead and Supporting Team Expertise | **15** |
| **Commercial (10 points )** | **10** |
| Flat Rate | **7** |
| Contract Exceptions | **3** |
|  |  |
| **Totals** | **100** |

**Other Bid Conditions:**

**1.0 PBF MACH2 Holdings LLC Code of Conduct**

Company maintains a Supplier Code Conduct (“Code”), which may be updated from time to time at Company’s sole discretion, and which shall be followed by all persons contracting with Company, that can be obtained by following the links on Company’s website [https://investors.pbfenergy.com/corporate-governance/corporate-governance-documents.](https://investors.pbfenergy.com/corporate-governance/corporate-governance-documents) All Company employees, and all persons contracting with Company, are also required to comply with the PBF MACH2 Holdings LLC code of business conduct and ethics, including in all of their activities with customers, vendors, contractors, and other third parties.

**2.0** **Annual Representations and Certifications (Jan 2025)**

(a)

(1) The North American Industry Classification System (NAICS) code for this acquisition is 541611.

(2) The small business size standard is $24.5(In Millions of dollars).

(3) The small business size standard for a concern that submits an offer, other than on a construction or service acquisition, but proposes to furnish an end item that it did not itself manufacture, process, or produce is 500 employees, or 150 employees for information technology value-added resellers under NAICS code 541519 if the acquisition—

(i) Is set aside for small business and has a value above the simplified acquisition threshold;

(ii) Uses the HUBZone price evaluation preference regardless of dollar value, unless the offeror waives the price evaluation preference; or

(iii) Is an 8(a), HUBZone, service-disabled veteran-owned, economically disadvantaged women-owned, or women-owned small business set-aside or sole-source award regardless of dollar value.

(b)

(1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the provision at 52.204-7, System for Award Management, is not included in this solicitation, and the Offeror has an active registration in the System for Award Management (SAM), the Offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The Offeror shall indicate which option applies by checking one of the following boxes:

(i) □ Paragraph (d) applies.

(ii) □ Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c)

(1) The following representations or certifications in SAM are applicable to this solicitation as indicated:

(i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless–

(A) The acquisition is to be made under the simplified acquisition procedures in part 13;

(B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or

(C) The solicitation is for utility services for which rates are set by law or regulation.

(ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed $150,000.

(iii) 52.203-18, Prohibition on Contracting with Entities that Require Certain Internal Confidentiality Agreements or Statements-Representation. This provision applies to all solicitations.

(iv) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.

(v) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that-

(A) Are not set aside for small business concerns;

(B) Exceed the simplified acquisition threshold; and

(C) Are for contracts that will be performed in the United States or its outlying areas.

(vi) 52.204-26, Covered Telecommunications Equipment or Services-Representation. This provision applies to all solicitations.

(vii) 52.209-2, Prohibition on Contracting with Inverted Domestic Corporations-Representation.

(viii) 52.209-5, Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.

(ix) 52.209-11, Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law. This provision applies to all solicitations.

(x) 52.214-14, Place of Performance-Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.

(xi) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.

(xii) 52.219-1, Small Business Program Representations (Basic, Alternates I, and II). This provision applies to solicitations when the contract is for supplies to be delivered or services to be performed in the United States or its outlying areas, or when the contracting officer has applied part 19 in accordance with 19.000(b)(1)(ii).

(A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.

(B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.

(C) The provision with its Alternate II applies to solicitations that will result in a multiple-award contract with more than one NAICS code assigned.

(xiii) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract is for supplies to be delivered or services to be performed in the United States or its outlying areas, or when the contracting officer has applied part 19 in accordance with 19.000(b)(1)(ii).

(xiv) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.

(xv) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.

(xvi) 52.222-38, Compliance with Veterans’ Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial products or commercial services.

(xvii) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of biobased products in USDA-designated product categories; or include the clause at 52.223-2, Reporting of Biobased Products Under Service and Construction Contracts.

(xviii) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA–designated items.

(xix) 52.223-22, Public Disclosure of Greenhouse Gas Emissions and Reduction Goals-Representation. This provision applies to solicitations that include the provision at 52.204-7.

(xx) 52.225-2, Buy American Certificate. This provision applies to solicitations containing the clause at 52.225-1.

(xxi) 52.225-4, Buy American-Free Trade Agreements-Israeli Trade Act Certificate. (Basic, Alternates II and III.) This provision applies to solicitations containing the clause at 52.225-3.

(A) If the acquisition value is less than $50,000, the basic provision applies.

(B) If the acquisition value is $50,000 or more but is less than $100,000, the provision with its Alternate II applies.

(C) If the acquisition value is $100,000 or more but is less than $102,280, the provision with its Alternate III applies.

(xxii) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.

(xxiii) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan-Certification. This provision applies to all solicitations.

(xxiv) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran-Representation and Certifications. This provision applies to all solicitations.

(xxv) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions.

(2) The following representations or certifications are applicable as indicated by the Contracting Officer:

[Contracting Officer check as appropriate.]

\_\_ (i) 52.204-17, Ownership or Control of Offeror.

\_\_ (ii) 52.204-20, Predecessor of Offeror.

\_\_ (iii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

\_\_ (iv) 52.222-48, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment- Certification.

\_\_ (v) 52.222-52, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services-Certification.

\_\_ (vi) 52.227-6, Royalty Information.

\_\_ (A) Basic.

\_\_ (B) Alternate I.

\_\_ (vii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The offeror has completed the annual representations and certifications electronically in SAM website accessed through https://www.sam.gov. After reviewing the SAM information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause # Title Date Change

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

(End of provision)

**3.0** **Organizational Conflicts of Interest(OCI)**

**Definition:  "Organizational conflicts of interest (OCI) exist when, because of other activities or relationships with other persons, a prospective contractor is unable, or potentially unable, to render impartial, technically sound, and objective assistance or advice, or when the prospective contractor has an unfair competitive advantage"**

**Please see FAR Subpart 9.5 for more information https://www.acquisition.gov/far/subpart-9.5#FAR\_9\_506**

**Supplier obligations concerning Organizational Conflicts of Interest(OCI)**

1. **Mandatory disclosure: Bidders must disclose any information that could give rise to an OCI. Disclosure must include:**
   1. **A description of past, present, or planned interests (financial, contractual, organizational, etc.).**
   2. **A description of the relationship, including the period of the relationship and the extent of the relationship (e.g., value of financial interest, total work).**
   3. **The specific type of OCI (e.g., impaired objectivity, unequal access to information).**
2. **Mitigation plan:**
   1. **Bidders must submit an Organizational and Consultant Conflicts of Interest Plan (OCCIP) outlining how they will avoid, neutralize, or mitigate potential or actual OCIs.**

**Any bidder that submits a proposal hereby attests that, to the best of their knowledge, they have disclosed all relevant information regarding potential OCIs.**