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**Request for Proposal (RFP)
Demande de proposition (DDP)**

Proposal To: Natural Resources Canada

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

Proposition à: Ressources Naturelles Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments – Commentaires

Issuing Office – Bureau de distribution

Finance and Procurement Management Branch
Natural Resources Canada
580 Booth Street, 5th Floor
Ottawa, Ontario
K1A 0E4

Title – Sujet Technical assessment of hydrogen blending in natural gas infrastructure systems.	
Solicitation No. – No de l'invitation NRCAN – 5000064428-B	Date August 22, 2022
Requisition Reference No. - N° de la demande 5000064428-B	Amendment No. – Modification No. 002
Solicitation Closes – L'invitation prend fin at – à 02:00 PM (Eastern Daylight Savings Time (EDT)) on – le September 6, 2022	
Address Enquiries to: - Adresse toutes questions à: raymond.thai@NRCAN-RNCan.gc.ca	
Telephone No. – No de telephone (343) 543-7427	
Destination – of Goods and Services: Destination – des biens et services: As described herein.	
Security – Sécurité There is no security requirements associated with this requirement.	
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No.:- No. de téléphone: Facsimile No.:- No. de télécopieur:	
Name and Title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature _____	Date _____



This Amendment 002 of **RFP #5000064428-B** is being raised to respond to questions.

Question #1:

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Task # 2:

Can you please clarify what is meant by identifying potential options/requirements and associated costs to increase the percentage of blended hydrogen (up to 100%) in existing and decommissioned natural gas infrastructure?

Given the wide range of ages, materials of construction, related operating equipment, operating conditions, end users etc. it cannot be assumed that more than nominal amounts of hydrogen can currently be transported in existing infrastructure without extensive technical infrastructure and end-user equipment assessments. Certain portions of existing infrastructure and end-user equipment will be able to be converted to higher blend amounts but identifying these specific portions and completing the technical assessments is, we believe, beyond the intent and thus the scope of this study. By “options”, does this mean for example, if a decommissioned natural gas pipeline can be converted to a hydrogen pipeline and to identify requirements such as the regulatory codes and standards in place to do this? To calculate the associated costs, assumptions must then be made on the length and physical condition of the natural gas pipeline. Does the identification of options also include a list of end users that might need to benefit of an increase the percentage of blended hydrogen up to a maximum of 100%?

Can you please clarify or provide additional details on this question?

Answer #1:

Please summarize the high-level upgrades needed to support a conversion from natural gas to hydrogen and associated ballpark cost estimates for typical cases of 1) low-pressure distribution pipeline systems; and 2) high-pressure transmission pipeline systems. Please indicate where possible, which costs mainly increase commensurate with blending percentage and which costs are mainly independent of blending percentage. In cases where conversion is not possible or not recommended, please indicate the roadblock. If you need to make assumptions, please describe the typical case on which you have based your calculations.

Question #2: We would like to request a three week extension based on a number of key staff being on vacation.

Answer #2: This extension request has been granted. Please see RFP Amendment 001.

ALL TERMS AND CONDITIONS REMAIN THE SAME