



**Return Bids to:**

Bid Receiving Natural Resources Canada  
See herein for bid submission instructions

**Request for Proposal (RFP)**

**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.

**Comments – Commentaires**

**Issuing Office – Bureau de distribution**

Finance and Procurement Management Branch  
Natural Resources Canada  
506 Burnside Road West  
Victoria, British Columbia V8Z 1M5  
Canada

<b>Title – Sujet</b> <b>Hydrogen (H2) Potential in Canada from Renewable and Nuclear Electricity</b>	
<b>Solicitation No. – No de l’invitation</b> <b>NRCAN-5000062263</b>	<b>Date</b> March 15, 2022
<b>Requisition Reference No. - N° de la demande</b> 167725	
<b>Solicitation Closes – L’invitation prend fin</b> <b>at – à 02:00 PM Pacific Daylight Time (PDT)</b> <b>on – le April 13, 2022</b>	
<b>Address Enquiries to: - Adresse toutes questions à:</b> <b>Gerald Baran</b> <a href="mailto:gerald.baran@nrcan-rncan.gc.ca">gerald.baran@nrcan-rncan.gc.ca</a>	
<b>Telephone No. – No de telephone</b> (778) 350 9373	
<b>Destination – of Goods and Services:</b> <b>Destination – des biens et services:</b>  Natural Resources Canada Low Carbon Energy Sector/ Electricity Resources Branch/ Renewable and Electrical Energy Division (LCES/ERB/REED) 580 Booth Street Ottawa, ON K1A 0E4	
<b>Security – Sécurité</b>  There are no security requirements associated with this requirement.	
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l’entrepreneur</b>  <b>Telephone No.:- No. de téléphone:</b>  <b>Email – Courriel :</b>	
<b>Name and Title of person authorized to sign on behalf of Vendor/Firm (type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/de l’entrepreneur</b> (taper ou écrire en caractères d’imprimerie)	
_____ Signature	_____ Date



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The Articles contained in this document are mandatory in their entirety, unless otherwise indicated. Acceptance of these Articles, in their entirety, as they appear in this document, is a Mandatory requirement of this RFP.

**Suppliers submitting a proposal containing statements implying that their proposal is conditional on modification of these clauses or containing terms and conditions that purport to supersede these clauses or derogate from them will be considered non-responsive.**

Bidders with concerns regarding the provisions of the Bid Solicitation document (including the Resulting Contract Clauses) should raise such concerns in accordance with the Enquiries provision of this RFP.



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## **PART 1 - GENERAL INFORMATION**

### **1.1 Introduction**

The bid solicitation is divided into seven parts plus attachments and annexes, as follows:

**Part 1 General Information:** provides a general description of the requirement;

**Part 2 Bidder Instructions:** provides the instructions, clauses and conditions applicable to the bid solicitation;

**Part 3 Bid Preparation Instructions:** provides Bidders with instructions on how to prepare their bid;

**Part 4 Evaluation Procedures and Basis of Selection:** indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;

**Part 5 Certifications and Additional Information:** includes the certifications and additional information to be provided;

**Part 6 Security and Other Requirements:** includes specific requirements that must be addressed by Bidders; and

**Part 7 Resulting Contract Clauses:** includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Statement of Work and the Basis of Payment.

The Appendixes include the Evaluation Criteria and the Financial Proposal Form.

### **1.2 Summary**

By means of the RFP, Natural Resources Canada (NRCan) is seeking proposals from bidders to undertake a study within a Canadian context building-off of the Hydrogen Strategy for Canada that:

1) Analyzes the status of hydrogen electrolysis technologies (with a focus on using electricity generated from renewable and nuclear sources) and their potential for wide-scale deployment in Canada, and examines the potential impacts on electricity systems

2) Analyzes the economics and business case for wide-scale deployment of electrolysis technology for the Canadian electricity sector (with a focus on using electricity generated from renewable and nuclear sources), including potential new value streams for the electricity sector, and potential impacts to electricity sector emissions.

3) Identifies the role that federal and provincial governments, industry partners, and academia could play to enable the wide-scale deployment of electrolysis technology in Canada.

#### **1.2.1 Epost Connect**

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.



### **1.2.2 COVID-19 Vaccination Policy**

This requirement is NOT subject to the COVID-19 Vaccination Policy for Supplier Personnel.

### **1.3 Debriefings**

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing will be done in writing, by email.



## PART 2 - BIDDER INSTRUCTIONS

### 2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation with the modifications to the text below. If there is a conflict between the provisions of 2003 and this document, this document prevails.

- **In the complete text content (except Section 1 and 3) Delete:** Public Works and Government Services Canada” and **Insert:** “Natural Resources Canada.” **Delete:** “PWGSC” and **Insert:** “NRCan”
- **Section 2: Delete:** “Suppliers are required to” and **Insert:** “It is suggested that suppliers”
- **Subsection 1 of Section 8: Delete entirely**
- **Subsection 2 of Section 8: Delete:** The only acceptable email address to use with epost Connect for responses to bid solicitation issued by PWGSC headquarters is: [tpsgc.dgareceptiondessoumissions-abbidReceiving.pwgsc@tpsgc-pwgsc.gc.ca](mailto:tpsgc.dgareceptiondessoumissions-abbidReceiving.pwgsc@tpsgc-pwgsc.gc.ca), or, if applicable, the email address identified in the bid solicitation. The only acceptable email address to use with epost Connect for responses to bid solicitations issued by PWGSC regional offices is identified in the bid solicitation.  
**Insert:** The only acceptable email address to use with epost Connect for responses to bid solicitation issued by NRCan is: [procurement-appvisionnement@NRCan-RNCan.gc.ca](mailto:procurement-appvisionnement@NRCan-RNCan.gc.ca)
- **Under Subsection 2 of Section 20:** Not applicable

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days  
Insert: 120 days

### 2.2 Submission of Bids

Bidders must submit all proposals electronically. Given the current constraints on NRCan’s networks, the electronic mail system has a limit of 1GB per single message received and a limit of 20GB per conversation. NRCan encourages bidders to submit all bids earlier than the closing time.

Bids must be submitted no later than the date and time indicated on page 1 of the bid solicitation.

**Only bids submitted using epost Connect service will be accepted.**

At least 48 hours before the bid solicitation closing date, it is necessary for the Bidder to send an email requesting to open an epost Connect conversation to the following address:



[procurement-approvisionnement@NRCan-RNCan.gc.ca](mailto:procurement-approvisionnement@NRCan-RNCan.gc.ca)

**Note:** Bids will not be accepted if e-mailed directly to this address. This e-mail address is to be used to open an ePost Connect conversation, as detailed in the Standard Instructions [2003 \(Subsection 2 of Section 08\)](#), or to send bids through an ePost Connect message if the bidder is using its own licensing agreement for ePost Connect.

**IMPORTANT:** It is requested that you write the bid solicitation number in “Subject” of the email:

NRCan-PR number 5000062263 - Hydrogen (H2) Potential in Canada from Renewable and Nuclear Electricity

NRCan will not assume responsibility for proposals directed to any other location.

The onus is on the Bidder to ensure that the bid is submitted correctly using epost Connect service. Not complying with the instructions may result in NRCan’s inability to ascertain reception date and/or to consider the bid prior to contract award. Therefore, NRCan reserves the right to reject any proposal not complying with these instructions.

Due to the nature of the bid solicitation, bids transmitted by email, mail or facsimile to NRCan will not be accepted.

### **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as “proprietary” will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

### **2.4 Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.



## 2.5 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least ten (10) days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

The Bidder must submit its bid electronically and in accordance with section 08 of 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (1 electronic copy)

Section II: Financial Bid (1 electronic copy) in a separate file and document

Section III: Certifications (1 electronic copy)

Section IV: Additional Information (1 electronic copy)

**Prices should appear in the financial bid only. No prices should be indicated in any other section of the bid.**

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) format;
- (b) use a numbering system that corresponds to the bid solicitation.

#### Section I: Technical Bid

In their technical bid, Bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that Bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, Bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.





## **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Financial Proposal Form in Appendix “2”. The total amount of Applicable Taxes must be shown separately.

### **Exchange Rate Fluctuation**

C3011T (2013-11—06), Exchange Rate Fluctuation

## **Section III: Certifications**

Bidders must submit the certifications and additional information required under Part 5.

## **Section IV: Additional Information (if required)**



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## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1 Evaluation Procedures**

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical, and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### **4.1.1 Technical Evaluation**

Mandatory and point rated technical evaluation criteria are included in Appendix "1" – Evaluation Criteria.

### **4.2 Basis of Selection**

#### **4.2.1 Highest Combined Rating of Technical Merit and Price**

1. To be declared responsive, a bid must:
  - a. comply with all the requirements of the bid solicitation; and
  - b. meet all mandatory criteria; and
  - c. obtain the required minimum of 70 points overall for the technical evaluation criteria which are subject to point rating. The rating is performed on a scale of 100 points.
2. Bids not meeting (choose "(a) or (b) or (c)" OR "(a) or (b) or (c) or (d)") will be declared non-responsive.
3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 70% for the technical merit and 30% for the price.
4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 70%.
5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 30%.
6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.



The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 70/30 ratio of technical merit and price, respectively. The total available points equal 135 and the lowest evaluated price is \$45,000 (45).

<b>Basis of Selection - Highest Combined Rating Technical Merit (70%) and Price (30%)</b>				
		<b>Bidder 1</b>	<b>Bidder 2</b>	<b>Bidder 3</b>
<b>Overall Technical Score</b>		115/135	89/135	92/135
<b>Bid Evaluated Price</b>		\$55,000.00	\$50,000.00	\$45,000.00
<b>Calculations</b>	<b>Technical Merit Score</b>	$115/135 \times 70 = 59.63$	$89/135 \times 70 = 46.15$	$92/135 \times 70 = 47.70$
	<b>Pricing Score</b>	$45/55 \times 30 = 24.55$	$45/50 \times 30 = 27$	$45/45 \times 30 = 30$
<b>Combined Rating</b>		84.18	73.15	77.70
<b>Overall Rating</b>		1st	3rd	2nd



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## PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue, whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

### 5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

#### 5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/25#integrity-provisions>), all bidders must provide with their bid, **if applicable**, the Integrity declaration form available on the Forms for the Integrity Regime website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

### 5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame specified will render the bid non-responsive.

#### 5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the Ineligibility and Suspension Policy (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

- Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder or, in the case of a private company, the owners of the company.
- Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).



- Bidders bidding as partnerships do not need to provide lists of names.

Name of Bidder: \_\_\_\_\_

OR

Name of each member of the joint venture:

Member 1: \_\_\_\_\_

Member 2: \_\_\_\_\_

Member 3: \_\_\_\_\_

Member 4: \_\_\_\_\_

Identification of the administrators/owners:

SURNAME	NAME	TITLE

**5.2.2 Federal Contractors Program for Employment Equity - Bid Certification**

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the Employment and Social Development Canada (ESDC) - Labour's website. (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>). Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

**5.2.3 Status and Availability of Resources**

The Bidder certifies that, should it be awarded a contract as a result of the bid solicitation, every individual proposed in its bid will be available to perform the Work as required by Canada's representatives and at the time specified in the bid solicitation or agreed to with Canada's representatives. If for reasons beyond its control, the Bidder is unable to provide the services of an individual named in its bid, the Bidder may propose a substitute with similar qualifications and experience. The Bidder must advise the Contracting Authority of the reason for the substitution



and provide the name, qualifications and experience of the proposed replacement. For the purposes of this clause, only the following reasons will be considered as beyond the control of the Bidder: death, sickness, maternity and parental leave, retirement, resignation, dismissal for cause or termination of an agreement for default.

If the Bidder has proposed any individual who is not an employee of the Bidder, the Bidder certifies that it has the permission from that individual to propose his/her services in relation to the Work to be performed and to submit his/her résumé to Canada. The Bidder must, upon request from the Contracting Authority, provide a written confirmation, signed by the individual, of the permission given to the Bidder and of his/her availability. Failure to comply with the request may result in the bid being declared non-responsive.

#### 5.2.4 Education and Experience

The Bidder certifies that all the information provided in the résumés and supporting material submitted with its bid, particularly the information pertaining to education, achievements, experience and work history, has been verified by the Bidder to be true and accurate. Furthermore, the Bidder warrants that every individual proposed by the Bidder for the requirement is capable of performing the Work described in the resulting contract.

#### 5.2.5 Former Public Servant

Contracts awarded to former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts awarded to FPSs, bidders must provide the information required below before contract award. If the answer to the questions and, as applicable the information required have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply with Canada's request and meet the requirement within the prescribed time frame will render the bid non-responsive.

#### Definitions

For the purposes of this clause, "former public servant" is any former member of a department as defined in the *Financial Administration Act*, R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- a. an individual;
- b. an individual who has incorporated;
- c. a partnership made of former public servants; or
- d. a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"**lump sum payment period**" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.



"**pension**" means a pension or annual allowance paid under the *Public Service Superannuation Act* (PSSA), R.S., 1985, c. P-36, and any increases paid pursuant to the *Supplementary Retirement Benefits Act*, R.S., 1985, c. S-24 as it affects the PSSA. It does not include pensions payable pursuant to the *Canadian Forces Superannuation Act*, R.S., 1985, c. C-17, the *Defence Services Pension Continuation Act*, 1970, c. D-3, the *Royal Canadian Mounted Police Pension Continuation Act*, 1970, c. R-10, and the *Royal Canadian Mounted Police Superannuation Act*, R.S., 1985, c. R-11, the *Members of Parliament Retiring Allowances Act*, R.S. 1985, c. M-5, and that portion of pension payable to the *Canada Pension Plan Act*, R.S., 1985, c. C-8.

**Former Public Servant in Receipt of a Pension**

As per the above definitions, is the Bidder a FPS in receipt of a pension? **Yes ( ) No ( )**

If so, the Bidder must provide the following information, for all FPSs in receipt of a pension, as applicable:

- a. name of former public servant; \_\_\_\_\_
- b. date of termination of employment or retirement from the Public Service. \_\_\_\_\_

By providing this information, Bidders agree that the successful Bidder’s status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with Contracting Policy Notice: 2019-01 and the Guidelines on the Proactive Disclosure of Contracts.

**Work Force Adjustment Directive**

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive? **Yes ( ) No ( )**

If so, the Bidder must provide the following information:

- a. name of former public servant; \_\_\_\_\_
- b. conditions of the lump sum payment incentive; \_\_\_\_\_
- c. date of termination of employment; \_\_\_\_\_
- d. amount of lump sum payment; \_\_\_\_\_
- e. rate of pay on which lump sum payment is based; \_\_\_\_\_
- f. period of lump sum payment including:
  - start date \_\_\_\_\_
  - end date \_\_\_\_\_
  - and number of weeks \_\_\_\_\_



- g. number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

Professional fees	Amount
_____	_____
_____	_____

**5.2.6 Aboriginal Designation**

Who is eligible?

- a) An Aboriginal business, which can be:
  - i) a band as defined by the Indian Act
  - ii) a sole proprietorship
  - iii) a limited company
  - iv) a co-operative
  - v) a partnership
  - vi) a not-for-profit organization

in which Aboriginal persons have at least 51 percent ownership and control,

OR

- b. A joint venture consisting of two or more Aboriginal businesses or an Aboriginal business and a non-Aboriginal business(es), provided that the Aboriginal business(es) has at least 51 percent ownership and control of the joint venture.

When an Aboriginal business has six or more full-time employees at the date of submitting the bid, at least thirty-three percent of them must be Aboriginal persons, and this ratio must be maintained throughout the duration of the contract.

The bidder must certify in its submitted bid that it is an Aboriginal business or a joint venture constituted as described above.

- Our Company **IS** an Aboriginal Firm, as identified above.
- Our Company **is NOT** an Aboriginal Firm, as identified above.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date





## **PART 6 - SECURITY AND OTHER REQUIREMENTS**

### **6.1 Security Requirements**

There are no security requirements associated with this requirement.



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## **PART 7 - RESULTING CONTRACT CLAUSES**

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

### **7.1 Statement of Work**

The Contractor must perform the Work in accordance with the Statement of Work at Annex "A" and the Contractor's technical bid entitled \_\_\_\_\_, dated \_\_\_\_\_. (*to be completed at contract award*)

### **7.2 Standard Clauses and Conditions**

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

#### **7.2.1 General Conditions**

2035 (2021-12-02), General Conditions - Higher Complexity - Services, apply to and form part of the Contract.

- As applicable, replace references to Public Works and Government Services Canada (PWGSC) with Natural Resources Canada (NRCan).

#### **7.2.2 Supplemental General Conditions**

4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information

### **7.3 Dispute Resolution**

#### *Mediation*

If a dispute arising from this contract cannot be settled amicably through negotiation, then the parties agree in good faith to submit the dispute to mediation as administered by the Arbitration and Mediation Institute of Canada Inc. (AMIC). The parties acknowledge receipt of the rules of AMIC. The cost of mediation shall be borne equally by the parties.

#### *Arbitration*

If the parties cannot resolve the dispute through mediation within sixty (60) days, the parties agree to submit the dispute to arbitration pursuant to the Commercial Arbitration Act (Canada). The party requesting such arbitration shall do so by written notice to the other party/parties. The cost of the arbitration and fees of the arbitrator shall be borne equally by the parties. The arbitration shall take place in the city where the contractor carries on business before a single arbitrator to be chosen jointly by the parties. If the parties cannot agree on the choice of arbitrator within thirty (30) days of written notice to submit the dispute to arbitration, each party will choose a representative who will select the arbitrator.



The parties may determine the procedure to be followed by the arbitrator in conducting the proceedings, or may ask the arbitrator to do so. The arbitrator shall issue a written award within thirty (30) days of hearing the parties. The award may be entered in any court having jurisdiction and enforced as a judgment of that court.

#### *Meaning of "Dispute"*

The parties agree that the word "dispute" in this clause refers to a dispute of fact or of law, other than a dispute of public law.

The parties understand that the Procurement Ombudsman appointed pursuant to Subsection 22.1(1) of the *Department of Public Works and Government Services Act* will, on request or consent of the parties to participate in an alternative dispute resolution process to resolve any dispute between the parties respecting the interpretation or application of a term and condition of this contract and their consent to bear the cost of such process, provide to the parties a proposal for an alternative dispute resolution process to resolve their dispute. The Office of the Procurement Ombudsman may be contacted by telephone at 1-866-734-5169 or by e-mail at [boa.opo@boa-opo.gc.ca](mailto:boa.opo@boa-opo.gc.ca).

#### **7.4 Security Requirements**

**7.4.1** There is no security requirement applicable to the Contract.

#### **7.5 Term of Contract**

##### **7.5.1 Period of the Contract**

The period of the Contract is from date of Contract to December 15, 2022 inclusive.

#### **7.6 Comprehensive Land Claims Agreements (CLCAs)**

The Contract is not subject to any Comprehensive Land Claims Agreements.

#### **7.7 Authorities**

##### **7.7.1 Contracting Authority**

The Contracting Authority for the Contract is:

Name: Gerald Baran  
Title: Procurement Specialist  
Organization: Natural Resources Canada  
Address: 506 Burnside Road West, Victoria, British Columbia, V8Z 1M5  
Telephone: (778) 350 9373  
E-mail address: [gerald.baran@nrca-nrcan.gc.ca](mailto:gerald.baran@nrca-nrcan.gc.ca)

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside



the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

**7.7.2 Project Authority (to be provided at contract award)**

The Project Authority for the Contract is:

- Name:
- Title:
- Organization:
- Address:
- Telephone:
- E-mail address:

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority; however, the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

**7.7.3 Contractor's Representative (to be provided at contract award)**

- Name:
- Title:
- Organization:
- Address:
- Telephone:
- E-mail address:

**7.8 Proactive Disclosure of Contracts with Former Public Servants**

By providing information on its status, with respect to being a former public servant in receipt of a Public Service Superannuation Act (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with Contracting Policy Notice: 2019-01 of the Treasury Board Secretariat of Canada.

**7.9 Payment**

**7.9.1 Basis of Payment – Firm Price**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price as specified in Annex B for a cost of \$\_\_\_\_\_ (insert *the amount at contract award*). Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.



## 7.9.2 Method of Payment

### Milestone Payments

Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Contract and the payment provisions of the Contract if:

- a. an accurate and complete claim for payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all work associated with the milestone and as applicable any deliverable required has been completed and accepted by Canada.

## 7.10 Invoicing Instructions

Invoices shall be submitted using **one of the following methods:**

<p><u>E-mail:</u></p> <p><a href="mailto:Invoicing-Facturation@nrcan-rncan.gc.ca">Invoicing-Facturation@nrcan-rncan.gc.ca</a></p> <p><b>Note:</b> Attach "PDF" file. No other formats will be accepted</p>
<b>OR</b>
<p><u>Fax:</u></p> <p>Local NCR region: <b>613-947-0987</b></p> <p>Toll-free: <b>1-877-947-0987</b></p> <p><b>Note:</b> Use highest quality settings available.</p>

Please do not submit invoices using more than one method as this will not expedite payment.

Invoices and all documents relating to a contract must be submitted on the Contractor's own form and shall bear the Contract number: \_\_\_\_\_

**Invoicing Instructions to suppliers:** <http://www.nrcan.gc.ca/procurement/3485>

## 7.11 Certifications and Additional Information

### 7.11.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.



## 7.12 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario, Canada.

## 7.13 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a) the Articles of Agreement;
- b) the supplemental general conditions 4006 (2010-08-16) - Contractor to Own Intellectual Property Rights in Foreground Information;
- c) the general conditions 2035 (2021-12-02), General Conditions - Higher Complexity - Services;
- d) Annex A, Statement of Work;
- e) Annex B, Basis of Payment;
- f) the Contractor's bid dated \_\_\_\_\_, (to be inserted at contract award).

## 7.14 Foreign Nationals (Canadian Contractor OR Foreign Contractor)

SACC Manual clause A2000C (2006-06-16) Foreign Nationals (Canadian Contractor)

**OR**

SACC Manual clause A2001C (2006-06-16) Foreign Nationals (Foreign Contractor)

## 7.15 Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

## 7.16 Contract Administration

The parties understand that the Procurement Ombudsman appointed pursuant to Subsection 22.1(1) of the *Department of Public Works and Government Services Act* will review a complaint filed by (*insert "the supplier" or "the contractor" or "the name of the entity awarded this contract"*) respecting administration of this contract if the requirements of Subsection 22.2(1) of the *Department of Public Works and Government Services Act* and Sections 15 and 16 of the *Procurement Ombudsman Regulations* have been met, and the interpretation and application of the terms and conditions and the scope of the work of this contract are not in dispute. The Office of the Procurement Ombudsman may be contacted by telephone at 1-866-734-5169 or by e-mail at [boa.opo@boa-opo.gc.ca](mailto:boa.opo@boa-opo.gc.ca).



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## ANNEX "A" - STATEMENT OF WORK

### TITLE: HYDROGEN (H<sub>2</sub>) POTENTIAL IN CANADA FROM RENEWABLE AND NUCLEAR ELECTRICITY

#### SW1: Objective

The purpose of this contract is to undertake a study within a Canadian context building-off of the Hydrogen Strategy for Canada that:

- 1) Analyzes the status of hydrogen electrolysis technologies (with a focus on using electricity generated from renewable and nuclear sources) and their potential for wide-scale deployment in Canada, and examines the potential impacts on electricity systems
- 2) Analyzes the economics and business case for wide-scale deployment of electrolysis technology for the Canadian electricity sector (with a focus on using electricity generated from renewable and nuclear sources), including potential new value streams for the electricity sector, and potential impacts to electricity sector emissions.
- 3) Identifies the role that federal and provincial governments, industry partners, and academia could play to enable the wide-scale deployment of electrolysis technology in Canada.

#### SW2: Background

In December 2020, the federal government launched its Hydrogen Strategy, laying out an ambitious framework for actions to support hydrogen as a tool to achieve Canada's net-zero emissions goal by 2050 - estimated to make up approximately 30% of Canada's end-use energy by 2050 - and position Canada as a global, industrial leader of clean renewable fuels.

Canada is one of the top 10 hydrogen producers in the world, and has abundant access to clean, reliable and affordable electricity with nearly 82% of its electricity coming from non-greenhouse gases (GHG) emitting sources, namely renewable energy and nuclear power. Given that a big driver for the use of hydrogen in Canada is the GHG emissions reductions it can offer, it is important for Canada to focus future hydrogen production on economic, low carbon intensity pathways.

Canada is poised to leverage this momentum, to grow the domestic opportunity for hydrogen production from non-emitting electricity sources, while also benefiting from growth in global demand through export opportunities, as worldwide demand for low-carbon intensity hydrogen is expected to increase. Recent estimates by the International Energy Agency (IEA) puts water electrolysis accounting for more than 60% of global production of hydrogen in 2050 (representing an incremental production of almost 15,000 terawatt-hours of non-emitting electricity annually) largely from renewable resources (95%), and also from nuclear power (3%) and fossil fuels with CO<sub>2</sub> Capture, Utilization and Storage (CCUS; 2%).



## SW3 Report outline

### SW3.1 Part I – An analysis on the status of electrolysis technology and its potential in Canada

This section will analyze the status of hydrogen electrolysis technologies (with a focus on using electricity generated from renewable and nuclear sources) and their potential for wide-scale deployment in Canada (with a region-specific lens). This includes looking at the potential impacts on electricity systems, including electricity demand and production, grid infrastructure, system operation, grid flexibility and long-term storage potential from the production and use of hydrogen from non-emitting sources.

It is estimated that Part I will represent approximately 20% of the study.

### SW3.2 Part II – Techno-economic analysis of the business case for electrolysis technology in Canadian electricity sector

This section will provide a techno-economic analysis (with a region-specific lens) of the business case for production of H<sub>2</sub> via electrolysis from (grid-connected, off-grid, and dedicated) renewable and nuclear electricity sources, as well as the use of H<sub>2</sub> produced from non-emitting sources to generate electricity. This analysis will answer the following questions:

- What other factors would impact the overall cost and feasibility of these projects (i.e. infrastructure for hydrogen production, storage, distribution, and use, interprovincial trade barriers, access to water resource)?
- What would be the electricity price needed for production to be competitive compared to other H<sub>2</sub> production pathways?
- What would be the impact of using off-peak electricity to power electrolyzers on project economics?
- How would variability of affordable electricity supply impact the economics of projects?
- What potential new value streams can H<sub>2</sub> create within the electricity sector and how will production and use of H<sub>2</sub> (including via storage) impact the electricity sector's business model and operations?
- What are the benefits, drawbacks and implications of using H<sub>2</sub> in fuel cells versus combustion turbine applications, including fuel blends?
- How would production conditions, technical attributes, and performance drivers impact the carbon intensity of H<sub>2</sub> production (i.e. type of electrolysis, efficiency and amount of electricity required, seasonal cycles, source of energy).

It is estimated that Part II will represent approximately 50% of the study.

*\* The Contractor is encouraged to focus on representative regional contexts by presenting case studies that can be used to extend learnings to similar jurisdictions. As an example only, the analysis could focus on Ontario (hybrid electricity market), Alberta (fully deregulated electricity market) and two or more illustrative vertically integrated markets such as British Columbia (West) and Nova Scotia (East). Alternatively, jurisdictional case studies could be chosen by assessing the supply mix of a given province/territory (e.g. hydro dominant, variable renewable dominant, nuclear, etc.) and their potential for incremental non-emitting electricity generation – as the dynamics associated with a jurisdiction's supply mix may inform their market for non-emitting H<sub>2</sub> production.*





**SW3.2 Part III – The role of Federal, Provincial and Territorial governments and the private sector**

Part III of this report will outline the key enabling conditions (i.e. policies, measures, incentives) needed and the role that the federal government, along with provincial governments, could play in terms of supporting the production and use of H2 from renewable and nuclear electricity. This section should also include an analysis of the role that private sector partners (e.g. utilities, electricity generation companies, system operators) and academia could play, looking at what remaining actions/measures could be undertaken by these key/interested stakeholders. Enabling public policy tools will be documented and substantiated through detailed analyses of the technical, economic and financial aspects of H2 projects from renewable and nuclear electricity through 8-10 real or projected applications in various settings and jurisdictions. The section shall conclude with recommendations on policy options (e.g. funding and investments, feed-in-tariffs, contracts for difference, fiscal and tax incentives, emission regulation standards) to encourage the wide-scale deployment of H2 production projects powered by non-emitting electricity.

It is estimated that Part III will represent approximately 20% of the study.

**SW3.3 Part IV – Final Report and Deliverables**

The Contractor shall submit a final report, an executive summary, and a PowerPoint presentation of a length and format as determined by the Project Authority. The Contractor shall also make available to the Project Authority all data, economic and financial information used in the drafting of the final deliverables. It is estimated that Part IV will represent approximately 10% of the study.

**SW4 Deliverables**

The contractor must produce the following deliverables:

No.	Deliverable	Content	Format	Estimated Task Duration*	Total Project Duration*
4.1	Kick-off meeting and work plan	The Contractor and Project Authority must have a kick-off meeting where the Project Authority will provide comments on the project outline and overall project expectations and the Contractor must state their intentions in addressing each part of the study. Following the kick-off meeting, the Contractor must provide an updated and detailed work plan with resource allocation by tasks.	Audio or video conference for the meetings; ongoing by email	Revised work plan available within 2 weeks of kick-off meeting	1 weeks
4.2	Draft outline for Part I	The Contractor must provide a draft annotated outline of Part I of the report.	MS Word	2 weeks	3 weeks
4.3	Advanced Draft of Part I	Advanced draft of Part I	MS Word	3 weeks	6 weeks
4.4	Draft outline for Part II	The Contractor must provide a draft annotated outline of Part II of the report.	MS Word	2 weeks	8 weeks
4.5	Advanced Draft of Part II	The Contractor must provide a draft version of Part II of the report.	MS Word	14 weeks	22 weeks



4.6	Draft outline of Part III	The Contractor must provide a draft annotated outline of Part III of the report.	MS Word	2 weeks	24 weeks
4.7	Advanced Draft of Part III	The Contractor must submit a final draft of the complete report that addresses all previous comments.	MS Word;	5 weeks	29 weeks
4.8	Part IV - Final report with revisions	The Contractor must provide a final version of all deliverables.	MS Word; MS Power Point; Excel	3 weeks	32 weeks

\*Tasks and project duration includes time for Project Authority’s review and commenting.

**SW5 Estimated period of the contract**

The estimated period of the contract is 32 weeks from the date of Contract Award.

**SW6 General Provisions**

A single company/firm or a consortium of companies is eligible for this study. Consortium bids must identify a Project Leader, who will be the contact for the Project Authority throughout the study and will be responsible for managing the Consortium and for submitting various deliverables of the study on behalf of the Consortium. Payments will be made to the company of the Project Lead, which will be responsible for allocating the payments between consortium members.

The proposed time schedule may not be revised by the Contractor without the approval of the Project Authority.



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## ANNEX "B" - BASIS OF PAYMENT

(To be completed at contract award)

### Basis of payment

The contractor shall invoice Natural Resources Canada upon completion of each project milestone:

- 10 percent of total professional fees shall be payable following the kick-off meeting and after a final work plan has been submitted to the Project Authority (after Deliverable 4.2).
- 10 percent of total professional fees shall be payable following the completion, delivery and acceptance of the draft of Part I of the report (after Deliverable 4.3).
- 40 percent of total professional fees shall be payable following the completion, delivery and acceptance of the draft of Part II of the report (after Deliverable 4.5).
- 20 percent of total professional fees shall be payable following the completion, delivery and acceptance of the draft of Part III of the report (after Deliverable 4.7).
- 20 percent of total professional fees shall be payable following the completion, delivery and acceptance of the final report (after Deliverable 4.8).

Payment shall be issued following written confirmation that the products have been completed to the satisfaction of the Project Authority. Final invoices must be issued no later than March 31, 2023.

### Budget

The budget proposal for this project must be in Canadian dollars, based on expected input from the project of approximately 120-140 person-days. The breakdown of persons-days over tasks should be presented in the proposal submission and the work plan.

The Project Authority suggests a 20%/50%/20%/10% allocation of resources between Part I, Part II, Part III and Part IV of the study.



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## APPENDIX "1" - EVALUATION CRITERIA

Bidders are advised to address these criteria in the following order and in sufficient depth in their proposals to enable a thorough assessment. NRCan's assessment will be based solely on the information contained within the proposal. NRCan may confirm information or seek clarification from bidders.

Bidders are advised that only listing experience without providing any supporting data to describe responsibilities, duties and relevance to the criteria will not be considered demonstrated for the purpose of this evaluation.

The Bidder should provide complete details as to where, when (month and year) and how (through which activities/responsibilities) the stated qualifications/experience were obtained. Experience gained during formal education shall not be considered work experience. All criteria for work experience shall be obtained in a legitimate work environment as opposed to an educational setting. Co-op terms are considered work experience provided they are related to the required services.

Bidders are also advised that the month(s) of experience listed for a project whose time frame overlaps that of another referenced project will only be counted once. For example: project one time frame is July 2001 to December 2001; project two time frame is October 2001 to January 2002; the total months of experience for these two project references is seven (7) months.

The proposal, which must include a detailed work plan and allocation of resources, shall address clearly and in sufficient depth the points that are subject to the mandatory and point-rated requirement criteria against which the proposal will be evaluated in a separate section of the proposal.

Simply repeating the statements contained in the statement of work is not sufficient. In order to facilitate the evaluation of proposals, the Project Authority requests that the Contractor address and present topics in the order of the point-rated requirement criteria under the same headings. To avoid duplication, the Contractor may refer to different sections of their proposals by identifying the specific paragraph and page number where the subject topic has already been raised.

When referencing the company's or companies' previous experience, as part of the Mandatory Requirements or point-rated evaluation criteria, the bid must specifically demonstrate how previous projects relate to hydrogen and hydrogen related equipment or infrastructure, renewable and nuclear energy deployment policies, and electricity markets, in general. As well as, how previous projects relate to renewable and nuclear energy procurement mechanisms and required electricity markets design and regulatory measures, in particular.

When referencing team member's previous experience, as part of the Mandatory Requirements or point-rated evaluation criteria, the bid must specifically demonstrate how individual team member's previous experience relates to (1) hydrogen production and storage or related energy technology deployment policies, in general, and to (2) energy procurement mechanisms and required electricity markets regulatory measures, in particular.



**1. Technical Criteria**

**1.1 Mandatory Evaluation Criteria**

- 1.1.1 The Mandatory Criteria listed below will be evaluated on a simple pass/fail basis. Proposals which fail to meet the mandatory criteria will be deemed non-responsive.
- 1.1.2 The Bidder must provide documented substantiation that sufficiently supports claims of compliance with each criterion. Each criterion must be addressed separately.

Item	Mandatory Requirement	Compliant (Yes/No)	Reference to Bidder's Proposal
<b>M1</b>	<p>The <b>Bidder</b> must have considerable* past experience in conducting studies related to the examination of related and relevant energy issues at the regional, national and international level</p> <p>*Considerable past experience is defined as having undertaken two or more projects related to the subjects above in the last five years</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>M2</b>	<p>The <b>Bidder</b> must demonstrate extensive** knowledge of hydrogen production and storage, renewable and nuclear electricity production and storage, and Canada's electricity systems.</p> <p>**Extensive knowledge is defined as having 3 or more years of direct experience related to the topics above</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>M3</b>	<p>The <b>Project Team</b> has considerable*** cumulative experience in undertaking studies of a complexity comparable to that proposed in the statement of work for national or sub-national governments (e.g. Provincial or Territorial Governments)</p> <p>***Considerable cumulative past experience is defined as having undertaken two or more projects related to M1 and M2 in the last five years</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>M4</b>	<p>The proposal identifies a <b>detailed work plan</b> for the entire study, which includes an explanation for the role and tasks of each Project Team or Consortium member and identifies the Project Leader for the Team or Consortium</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>M5</b>	<p>The proposal provides a <b>detailed outline of the report</b>, which follows the tasks outlined in Part I, II, III and IV</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>M6</b>	<p>The proposal shall be <b>no longer than 25 pages in length</b>. In addition, supplementary information, if needed, can be included in an annex. As well, the list of related previous projects and team members' resumés shall be provided in annexes to the proposal.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	



### 1.2 Evaluation of rated criteria

The criteria contained herein will be used by NRCan to evaluate each proposal that has met all of the mandatory criteria.

Proposals must achieve the stated minimum points required overall for the rated criteria to be assessed as responsive under the point rated technical criteria section; proposals not meeting the minimum required points will be deemed non-responsive.

Proposals will be evaluated based on the following criteria:

Point Rated Requirements:											
Item	Requirement	Max Points	Illustrated Compliance								
R1	<p><b>Previous Experience</b></p> <p>Points will be awarded to the Bidder's with previous project experience related to the examination of hydrogen production and storage, and renewable and nuclear energy issues at the national and international level, specifically clean energy technologies and electricity systems related to those projects, and how previous projects relate to this content.</p> <p>*Recent is defined as within the last ten years</p> <table border="1"> <thead> <tr> <th>Points</th> <th>Condition</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>Excellent – the Bidder has undertaken 5 or more recent studies relating to non-emitting electricity (renewables, nuclear), electricity systems (markets design, structures, pricing, electricity contracts), hydrogen technologies (electrolysis)</td> </tr> <tr> <td>23</td> <td>Good - the Bidder has undertaken 4 recent studies relating to non-emitting electricity (renewables, nuclear), electricity systems (markets design, structures, pricing, electricity contracts), hydrogen technologies (electrolysis)</td> </tr> <tr> <td>20</td> <td>Fair - the Bidder has undertaken 3 recent studies relating to non-emitting electricity (renewables, nuclear), electricity systems (markets design, structures, pricing, electricity contracts), hydrogen technologies (electrolysis)</td> </tr> </tbody> </table>	Points	Condition	25	Excellent – the Bidder has undertaken 5 or more recent studies relating to non-emitting electricity (renewables, nuclear), electricity systems (markets design, structures, pricing, electricity contracts), hydrogen technologies (electrolysis)	23	Good - the Bidder has undertaken 4 recent studies relating to non-emitting electricity (renewables, nuclear), electricity systems (markets design, structures, pricing, electricity contracts), hydrogen technologies (electrolysis)	20	Fair - the Bidder has undertaken 3 recent studies relating to non-emitting electricity (renewables, nuclear), electricity systems (markets design, structures, pricing, electricity contracts), hydrogen technologies (electrolysis)	25	
Points	Condition										
25	Excellent – the Bidder has undertaken 5 or more recent studies relating to non-emitting electricity (renewables, nuclear), electricity systems (markets design, structures, pricing, electricity contracts), hydrogen technologies (electrolysis)										
23	Good - the Bidder has undertaken 4 recent studies relating to non-emitting electricity (renewables, nuclear), electricity systems (markets design, structures, pricing, electricity contracts), hydrogen technologies (electrolysis)										
20	Fair - the Bidder has undertaken 3 recent studies relating to non-emitting electricity (renewables, nuclear), electricity systems (markets design, structures, pricing, electricity contracts), hydrogen technologies (electrolysis)										



Point Rated Requirements:															
Item	Requirement			Max Points	Illustrated Compliance										
	17	Poor - the Bidder has undertaken 2 recent studies relating to non-emitting electricity (renewables, nuclear), electricity systems (markets design, structures, pricing, electricity contracts), hydrogen technologies (electrolysis)													
R2	<p><b>Project Team Capacity</b></p> <p>Points will be awarded for proposals that demonstrate that the project team has the resources and sufficient personnel capacity available to undertake the research and analysis requirements for Part I, II and III of this study. It also identifies how project team members' previous work experience relates to the content expectations of this study. The Bidder should identify the project team and indicate the years of experience of each member.</p> <table border="1"> <thead> <tr> <th>Points</th> <th>Condition</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>Excellent – the average number of years per-person of related experience across the Project Team is at least 10 years</td> </tr> <tr> <td>23</td> <td>Good - the average number of years per-person of related experience across the Project Team is at least 8 years</td> </tr> <tr> <td>20</td> <td>Fair – the average number of years per-person of related experience across the Project Team is at least 5 years</td> </tr> <tr> <td>17</td> <td>Poor - the average number of years per-person of related experience across the Project Team is less than 5 years</td> </tr> </tbody> </table>			Points	Condition	25	Excellent – the average number of years per-person of related experience across the Project Team is at least 10 years	23	Good - the average number of years per-person of related experience across the Project Team is at least 8 years	20	Fair – the average number of years per-person of related experience across the Project Team is at least 5 years	17	Poor - the average number of years per-person of related experience across the Project Team is less than 5 years	25	
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25	Excellent – the average number of years per-person of related experience across the Project Team is at least 10 years														
23	Good - the average number of years per-person of related experience across the Project Team is at least 8 years														
20	Fair – the average number of years per-person of related experience across the Project Team is at least 5 years														
17	Poor - the average number of years per-person of related experience across the Project Team is less than 5 years														
R3	<p><b>Understanding of Requirement</b></p> <p>Points will be awarded for a detailed work plan that demonstrates sufficient background knowledge of, and familiarity with, the issues surrounding the project content such that an estimate of the Contractor's likely success with the project can be formed.</p> <table border="1"> <thead> <tr> <th>Points</th> <th>Condition</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>The work plan addresses all aspects and tasks of the work; the schedule and respects all the deadlines</td> </tr> </tbody> </table>			Points	Condition	20	The work plan addresses all aspects and tasks of the work; the schedule and respects all the deadlines	20							
Points	Condition														
20	The work plan addresses all aspects and tasks of the work; the schedule and respects all the deadlines														



Point Rated Requirements:													
Item	Requirement			Max Points	Illustrated Compliance								
	17	The work plan addresses all key aspects of the work; but misses some details of the tasks the schedule respects deadlines											
	12	The work plan addresses only some aspects of the work; the schedule respects deadlines, but misses some details of the tasks											
	5	The work plan does not addresses key aspects of the work; the schedule does not respect deadlines and misses most of the details of the tasks											
R4	<p><b>Study Outline</b></p> <p>Points will be awarded to proposals that clearly convey the Bidders' intended approach for developing the study.</p> <p>Points    Condition</p> <table border="1"> <tr> <td>20</td> <td>The outline comprehensively addresses all aspects of the mandate, is deemed to effectively achieve all of the mandate's objectives.</td> </tr> <tr> <td>15</td> <td>The outline comprehensively addresses all aspects of the mandate, is deemed to be moderately effective in achieving some of the mandate's objectives.</td> </tr> <tr> <td>10</td> <td>The outline addresses only some aspects of the mandate, is deemed to be only somewhat effective in achieving some of the mandate's objectives.</td> </tr> <tr> <td>5</td> <td>The outline does not address key aspects of the mandate, is not deemed to be effective in achieving any of the mandate's objectives.</td> </tr> </table>			20	The outline comprehensively addresses all aspects of the mandate, is deemed to effectively achieve all of the mandate's objectives.	15	The outline comprehensively addresses all aspects of the mandate, is deemed to be moderately effective in achieving some of the mandate's objectives.	10	The outline addresses only some aspects of the mandate, is deemed to be only somewhat effective in achieving some of the mandate's objectives.	5	The outline does not address key aspects of the mandate, is not deemed to be effective in achieving any of the mandate's objectives.	20	
20	The outline comprehensively addresses all aspects of the mandate, is deemed to effectively achieve all of the mandate's objectives.												
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10	The outline addresses only some aspects of the mandate, is deemed to be only somewhat effective in achieving some of the mandate's objectives.												
5	The outline does not address key aspects of the mandate, is not deemed to be effective in achieving any of the mandate's objectives.												
R5	<p><b>Quality of the Proposal</b></p> <p>The proposal is written and organized in a clear and concise manner and is easily understood.</p> <p>Points    Condition</p> <table border="1"> <tr> <td>10</td> <td>Excellent – free from all errors, demonstrating excellent sentence structure and a clear and concise narrative</td> </tr> <tr> <td>8</td> <td>Good – free from all errors</td> </tr> <tr> <td>6</td> <td>Fair – free from most errors</td> </tr> <tr> <td>2</td> <td>Poor – errors distract from the quality of the work</td> </tr> </table>			10	Excellent – free from all errors, demonstrating excellent sentence structure and a clear and concise narrative	8	Good – free from all errors	6	Fair – free from most errors	2	Poor – errors distract from the quality of the work	10	
10	Excellent – free from all errors, demonstrating excellent sentence structure and a clear and concise narrative												
8	Good – free from all errors												
6	Fair – free from most errors												
2	Poor – errors distract from the quality of the work												





Point Rated Requirements:			
Item	Requirement	Max Points	Illustrated Compliance
Total Points Available		100	
Total Points needed to be Considered Compliant (70%)		70	

- Excellent rating reserved for proposals with extensive level of details demonstrating an in-depth understanding of the requirements. Approach and work plan are clear, thorough, very rigorous and detailed.
- Good rating provided for proposals with considerable level details demonstrating a good understanding of the requirements. Approach and work plan are clear, thorough and detailed.
- Fair rating provided for proposals with adequate level of details demonstrating a fair understanding of the requirements. Approach and work plan are clear, but not accompanied with many details.
- Poor rating provided for proposals with insufficient details to demonstrate a fair understanding of the requirements. Approach and work plan is unclear and not accompanied with many details.



**APPENDIX "2" - FINANCIAL PROPOSAL FORM**

**1. FIRM PRICE - Milestone Payments**

Bidder tendered all-inclusive firm price to perform the work is in Canadian funds, applicable taxes excluded. Any Travel and Living Expenses and other miscellaneous expenses must be included in the firm price.

*The bidder must complete the schedule below indicating the firm proposed amounts for each step according to the indicated percentages:*

Milestone #	Description of Milestone	Milestone Firm Price (applicable taxes excluded)
1	10 percent of total professional fees shall be payable following the kick-off meeting and after a final work plan has been submitted to the Project Authority (after Deliverable 4.2).	\$ _____
2	10 percent of total professional fees shall be payable following the completion, delivery and acceptance of the draft of Part I of the report (after Deliverable 4.3).	\$ _____
3	40 percent of total professional fees shall be payable following the completion, delivery and acceptance of the draft of Part II of the report (after Deliverable 4.5).	\$ _____
4	20 percent of total professional fees shall be payable following the completion, delivery and acceptance of the draft of Part III of the report (after Deliverable 4.7).	\$ _____
5	20 percent of total professional fees shall be payable following the completion, delivery and acceptance of the final report (after Deliverable 4.8).	\$ _____
<b>Total Firm Price (GST Extra) :</b>		\$ _____