**NGIF Expression of Interest Form**

**Cleantech Competition for Natural Gas Production**

1. **Proposal Information**

|  |  |
| --- | --- |
| Project ID (assigned by NGIF):  |  |
| Project Title: |  |
| Lead Applicant Organization:  |  |
| Project Location(s): |  |
| Project Start Date: |  |
| Project Completion Date: |  |
| Total Project Budget: |  |
| Requested NGIF Funding: |  |
| Applicant Contact Email:  |  |

**INSTRUCTIONS**:

* All text in red is provided for your guidance and should be deleted.
* Complete this application form based on the instructions provided here and in the Call for Expressions of Interest document.
* All sections are mandatory.
* The document must be written entirely in English.
* Do not remove or modify any portions of the template, except where instructed.
* This document must be submitted in PDF format. The PDF document must be converted directly from the response template -- do not print and scan to PDF.
* The final converted PDF document must be no more than eight (08) pages in length, including all graphics, tables, and embedded elements (excluding support letters). Extra pages will not be considered.

ii. Project Summary

Provide a short summary (300 words max) of the proposed project that includes a brief overview of the technology to be developed/demonstrated, the project opportunity and objectives, and how the NGIF project will result in environmental benefits including greenhouse gas emissions reductions and non-GHG reductions in Alberta’s, British Columbia’s and Saskatchewan’s, and overall Canada’s natural gas sector.

Insert text here. Maximum 300 words.

1. **Technology Opportunity**
* Describe the problem that the technology is solving.
* Provide a brief description of the technology and how it works, using diagrams as appropriate.
* Describe how the technology or application thereof is new, unique, and/or innovative.
* Describe the positioning of the technology within the competitive landscape, including the gap(s) that it addresses and its advantages relative to incumbent solutions.
* Describe the current status of the technology, and explain how the technology will be advanced through the proposed project. Using the table below, identify the stage of development at the start of the project and upon project completion.

Insert content here (text, figures, tables, etc.).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Experimental Proof of Concept | Technology Development & Validation | Prototype Development & Testing | Pilot Demonstration | Commercial-Scale Field Demonstration | Commercial Implementation and Market Rollout |
|  |  |  | e.g. Project Start | e.g. Project Completion |  |

1. **Project Implementation**
* Provide a description of the overall objectives, work scope, deliverables, and the scale of prototype/demonstration for the proposed project.
* List the specific location(s) of key project activities.
* Provide an overview of the plan and schedule, indicating major project milestones and anticipated timeline for completion of each milestone and the overall project.
* Provide a budget for the proposed project according to the milestones in the work plan. Clearly identify the total budget for the project.
* Describe the personnel involved in the project, including their respective roles and the structure of the project team.
* List the organization(s) involved in the project consortium, their roles, status (confirmed, in discussion, etc.) and the overall project execution structure.
* Using the table below, identify all confirmed and anticipated financial contributors to the project, including the funding amount and the current status for each source. Add or subtract rows as necessary.

Insert content here (text, figures, tables, etc.).

|  |  |  |
| --- | --- | --- |
| FINANCIAL CONTRIBUTORS | AMOUNT | STATUS |
| NGIF (Requested) | $ | Applied for |
| e.g. ERA (Requested)  | $ | e.g. Applied for |
| e.g. Applicant Organization | $ |  |
| e.g. Partner - Joe Financing Inc. | $ | e.g. In discussion |
| e.g. Partner - Jane Equity Ltd. | $ | e.g. Committed |
|  | $ |  |
| Total Financing | $ |

1. **Environmental Benefits - GHG and Non-GHG Benefits**
* Describe how the technology reduces or enables reduction of greenhouse gas (GHG) emissions, including the baseline scenario and the mechanism for emissions reductions.
* Describe the potential impact of the technology on the GHG competitiveness and emissions intensity of Alberta’s, British Columbia’s, Saskatchewan’s and Canada’s natural gas sector.
* Provide a quantitative estimate of the annual GHG reductions that would result directly from the proposed project (i.e. not after subsequent market adoption or further commercialization activities) on an annual and cumulative basis.
* Describe non-GHG environmental benefits, such as reduced water consumption, waste generation, land disturbances, Criteria Air Contaminants (SOx, NOx and Particulate Matter) etc., associated with the technology and project, including economic, environmental, or otherwise.
* Describe the potential impact of the technology on the non-GHG competitiveness for Alberta’s, British Columbia’s, Saskatchewan’s and Canada’s natural gas sector.
* Provide a quantitative estimate of the annual non-GHG reductions that would result directly from the proposed project (i.e. not after subsequent market adoption or further commercialization activities) on an annual and cumulative basis.
* Estimate the potential annual reductions (GHG and Non-GHG) that could be achieved by market adoption of the technology by 2030 and 2050, and indicate any assumptions made for market penetration rate.

Insert content here (text, figures, tables, etc.).

1. **Market and Value Proposition**
* Describe the value proposition of the proposed technology for the target market and how it addresses a market need.
* Provide an overview of the economics for the technology at commercial scale in terms of capital cost, operating cost, and return on investment.
* Describe the target market for commercialization of the technology in Alberta, British Columbia, Saskatchewan and Canada including potential direct customers and discuss the overall market potential in terms of (where applicable) number of sites, scale of installations, installed capacity, etc.
* Briefly outline the pathway to commercial deployment of the technology in Alberta, British Columbia, Saskatchewan and Canada.
* Briefly comment on the addressable market beyond Alberta and the export potential for the technology or the products of the technology (include Canada and Global opportunity).
* Comment on the potential economic benefits from commercialization of the technology in Alberta, British Columbia, Saskatchewan and Canada (job creation, enhanced competitiveness, investment attraction, etc.).

Insert content here (text, figures, tables, etc.).