**Expression of Interest Form**

**ERA Expanded Technologies Pilot**

**Version 3: October 5, 2021**

1. Proposal Information

|  |  |
| --- | --- |
| Project Title: | [create a title for the project for reference only] |
| Lead Applicant Organization:  | [legal title] |
| Lead Applicant Contact Name and Email:  | [Lead Applicant contact information] |
| Project Location(s): | [include all facility locations the Technology System(s) will be installed, identifying which is the primary location] |
| Proposed Technology System(s): | [key Technology System(s) in the proposed project] |
| Estimated Total Eligible Expenses ($): | [total Eligible Expenses] |
| Requested ERA Funding ($): | [ERA funding request] |

**INSTRUCTIONS**:

* All text in red is provided for your guidance and should be deleted.
* Complete this form based on the instructions provided here and in the Expanded Technologies Pilot (ETP) Guidelines available on the [website](https://eralberta.ca/energy-savings-for-business/expanded-technologies-pilot/).
* This document must be submitted using the [ERIMS Platform](https://erims.outcome-plus.com).
* Save the document title as: *[Insert Lead Applicant Name] – Expression of Interest.*
* All sections are mandatory.
* This form must be written entirely in English.
* Do not remove or modify any portions of the template, except where instructed.
* This form must be submitted in word or 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 five (5) pages in length, including all graphics, tables, and embedded elements. Extra pages will not be considered.
* If you have any questions, please contact the ESB Team at ETP@esbprogram.ca.
1. Applicant and Partners
* Provide a description about what industry the Lead Applicant is in, what the primary business product or service is and what the Lead Applicant’s role is within this Project.
* Include any Project Partners, what their primary business product or service is and what their role is within the Project.

Please provide any other information necessary for ERA to confirm Participant eligibility as per Section 2.1 and 2.2 of the Guidelines.

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

1. Project Description

**Facility Description**

* Describe all Eligible Facility locations where the Technology System(s) will be installed at as part of the project and where they are located.

Please describe the function or use of each Facility and any other information necessary for ERA to confirm Facility eligibility as per Section 2.3 of the Guidelines.

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

**Technology Description**

Technology Description:

* Include a description of the current equipment in place that will be replaced under this Project or what would typically be installed in its place in a ‘business as usual’ situation (i.e., the base case).
* Include the base case equipment project lifetime.
* Describe the proposed Technology System(s) (solution, practice, equipment etc.), how it works, and how it will be applied at the Facility location, using diagrams and photographs as appropriate.
* Include the Technology System(s) project lifetime.
* Information on the existing measures can be found here: [ESB Measures List](https://eralberta.ca/wp-content/uploads/2021/12/ESB-Program-Measure-List-Dec-20-2021.pdf). If the proposed Technology System(s) is similar to a measure on the list or any currently funded ETP projects (found on the [website](https://eralberta.ca/energy-savings-for-business/expanded-technologies-pilot/)), please describe how the proposed Project is different.

Please provide any other information necessary for ERA to confirm Project eligibility as per Section 2.4 of the Guidelines.

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

1. Project Timeline and Budget
* Provide an estimate of key dates including, but not limited to: when Technology System(s) equipment will be purchased, when it will be installed, and when it will be fully operational.
* Include an estimate of the total Project budget.
* Include an estimate of the funding requested from ERA.

Please provide any other information necessary for ERA to confirm that the Project can be completed by May 1, 2023.

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

|  |  |  |
| --- | --- | --- |
| Key Activities | Start Date – End Date | Approximate Budget |
| eg:1a) Equipment (include type of equipment) purchase | Start: Dec 1, 2020End: May 31, 2021 | $1,000,000(include category breakdown if possible) |
|  |  |  |
|  |  |  |
|  |  |  |

1. Greenhouse Gas (GHG) Reductions

**GHG Reductions**

* Describe how the proposed Technology System(s) reduces energy consumption and/or reduces or enables GHG emissions reductions at the Facility location relative to the base case equipment that would typically be installed if this Project was not undertaken.
* Please calculate and provide the project estimated abatement rate using the following calculation:

 total ERA funding request ($) / total emissions reductions (tonne of CO2e) / project life

* Note: lifetime GHG emissions reductions are annual GHG reductions multiplied by the operational life of the proposed Technology System(s).
* Provide a high-level quantitative estimate of the annual GHG reductions that would result directly from the proposed Project.
* Where applicable, provide a high-level quantitative estimate of the annual energy savings that that would result directly from the proposed Project.
* Please use metric tonnes units (i.e., 1,000 kg)
* Please include any relevant assumptions or details that will help ERA understand the calculations.

For further guidance on the GHG quantification please refer to Section 9 in the Guidelines.

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

|  |  |
| --- | --- |
| Estimated GHG emissions abatement rate ($ Funding/tCO2e lifetime) | [insert value] |

1. Economic and Additional Benefits

**Economic Benefits**

* Provide an estimated total project cost.
* Provide a high-level quantitative estimate of the total annual financial savings anticipated to be achieved by the implementation of the Project. Financial savings can be from any or all of the following (as applicable): energy costs savings, cost savings from avoided GHG emissions, cost savings from a reduction of required maintenance, etc.
* Please provide a high-level quantitative assessment of the anticipated financial return on investment achieved by the implementation of the proposed Project.
* To confirm that your project meets the requirement of achieving a positive return on investment (ROI), please provide the simple ROI over project life calculation using the following equation:

 [(net annual cost savings \* project operational life) – Total Project Cost] / Total Project Cost

* Describe and provide a high-level quantitative estimate for how this Project will have an impact on job creation and if the Technology System(s) were to have higher market uptake in the future, please estimate the potential market impacts on job creation.

For further guidance on the ROI please refer to Section 10 in the Guidelines.

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

|  |  |
| --- | --- |
| Estimated return on investment (%) | [insert value] |

**Additional Benefits**

* List any additional benefits the Technology System(s) will provide, such as air quality, reducing water consumption, reductions of waste stream, other environmental benefits, safety benefits, community benefits, etc. These benefits will be considered in the evaluation of the EOI.
* If you are comfortable, please consider providing whether the project team includes anyone from an underrepresented group, or note whether you have a Diversity, Equity and Inclusion strategy that aims to support underrepresented groups. This information won’t be a part of the evaluation and will only be utilized for ERA awareness and information gathering to inform our call and program designs, engagement strategies and applications process based on the total population we see applying.

For further guidance on the GHG quantification please refer to Section 11 in the Guidelines.

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

1. Market Potential
* ETP is looking to fund technologies that can be installed in other Facilities across the province in a consistent manner. Please describe the market potential of the Technology System(s) (e.g. what types of systems and/or facilities it can be applied to, size of addressable market, scale of installations, installed capacity, likelihood of additional projects etc.).
* Describe the target market for commercialization of the Technology System(s) solution in Alberta, including potential customers or clients.
* Describe the current status of the Technology System(s), including its commercially availability and readiness.

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