Eligible Technology Application

As the list of eligible technologies for the Methane Technology Implementation Program (MTIP) does not include all methane emissions reduction technologies for use in upstream oil and gas (O&G) operations, there is a process to apply to become an eligible technology. Please note that all technology decisions are subject to approval by Carbon Connect International (CCI) and can be approved/rejected on their discretion. See below the eligibility criteria in order to be evaluated for an eligible technology.

Part 1: Eligibility Criteria

The MTIP supports upstream oil and gas operators to implement technology that contributes to the reduction of methane emissions in the province of Alberta. As such, eligible technology must be commercially available and demonstrate quantifiable greenhouse gas (GHG) emissions reductions. The MTIP will only incentivize technologies and will not qualify an individual vendor or service provider. Please apply on behalf of the technology and not the trade name.

In order to be eligible, the technology must meet all the following criteria and be evaluated as per the questions below in Part 2:

- Be commercially available in the province of Alberta.
- Demonstrate significant GHG emissions reductions and have the baseline and post-technology (project conditions) greenhouse gas emissions quantification to prove this. The maximum abatement cost[1] for the technology is $50/tonne of CO_2 equivalent (tCO_2e) lifetime. A first year abatement cost is not part evaluation criteria but will still be looked at.
- Have a recommendation letter from a previous installation or an operator partner who is willing to install the technology.

Name:

Company:

Job Title:

Technology Name:

Email:

Phone:

☐ I confirm that the technology meets the above criteria

[1] Abatement cost is defined as the overall cost of the project divided by the overall amount of GHG emissions reduction during the lifetime of the project.

Part 2: Evaluation Criteria

The final decision is subject to approval by CCI. Please answer the following questions to apply for the technology to be eligible for the MTIP. Please include Excel and PDF documents wherever specified as the appendices and you can submit additional documents as appendices as well. Criteria A, B and C will be evaluated by CCI.

Each criterion will be scored between 1 and 10, with 10 being the highest and 1 being the lowest. Therefore, the total maximum points is 30. For a technology to be approved, it must score a minimum of 6 in all three categories. The scoring grid for each of the three criteria can be found in Appendix A.

Criteria A: Environmental performance

Questions:

- Write one or two paragraphs explaining the methane emissions involved in the baseline scenario and what is the solution for reducing the methane emissions.
- What is the baseline GHG emissions in the absence of the technology (tCO_2e/year) and provide an Excel file for the GHG emissions calculations that lists all the assumptions. You must provide justification or references for the assumptions.
- What is the greenhouse gas emissions in the post project conditions (tCO_2e/year)? You must provide an Excel file that quantifies the project conditions GHG emissions that lists all the assumptions with corresponding justification and references.
- Has the technology methane emissions reduction performance been measured in a field application?
- Are there other associated environmental benefits?
- Are there any environmental trade offs as a result of the technology?
- Does the technology results in reduction of combustion GHG emissions?

Answer:

Criteria B: Strength of the technology

Questions:

- What is the technical basis for the technology?
- What is the cost of the technology, including cost associated with install costs?
- What is the approximate abatement cost ($/ tCO_2e)? Please describe all assumptions[2] for this calculation.
- Are there any significant maintenance costs or significant risks associated with the technology mechanically failing?
- Is there a significant drop in efficiency as the technology ages? What is the longevity of the technology?

Answer:

[2] Which includes the lifetime of the project.

Criteria C: Commercial Availability

Questions:

- Please describe the commercial deployments of this technology to date.
- What is the market and application of this technology?
- Describe the partners or recommendation letters you have for this technology. Please include the letters of commitment or recommendation in your application.
- Describe any commercial risks to deployment of this technology.

Answer:

Appendix A: Criteria Scoring

Criteria A: Environmental performance

Score	Description
1	No environmental benefits demonstrated. No field deployments to measure GHG emissions reductions
5	Greenhouse gas emissions savings are moderate.
10	Greenhouse gas emissions are very high. Many other environmental benefits are also demonstrated.

Criteria B: Strength of the technology

Score	Description
1	Technology has risks and is not established in science.
5	Abatement costs ($/$tCO_2e$) are lower than existing approved technologies. Concerns with maintenance.
10	Viable technology.

Criteria C: Commercial Availability

Score	Description
1	Technology is not commercially available. No recommendation letters or commitment letters.
5	Small or no market for the technology.
10	Technology is readily deployed in Alberta.