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FR-02197 - CITCO Industrial Process Equip Electrification Sub-Application

General Information

Funding Request	855400LLC
Supplement Type	CITCO Industrial Process Equipment Electrification Sub-Application
Supplement Status	Submitted

Project Overview

Supplemental Response 01 Question: Please describe in detail the project scope and proposed changes (e.g., equipment/technology, processes, etc. to be replaced and/or installed).

Response: The project will install high efficiency vacuum blowers and multiple variable speed drive motors to Redacted

Project Scenario

Redacted

Supplemental Response 02 Question: Please describe in detail the objective of the proposed project.

Response: The objective is to minimize power consumption by employing ultra high efficiency equipment and while controlling electric motor speed.

Expected Project Lifespan (years)

Redacted

Redacted

Project Readiness

Supplemental Response 03 Question: Please provide a detailed project plan, including the specific work tasks to be completed, the implementation timeline with phases and key milestones, the technological scope of the project, and any potential inflection points where project completion may be reconsidered.

Response:

Redacted

Supplemental Response 04 Question: Please describe the team and team members that will be working on this project, the unique qualifications that will lead to a successful project, and the administrative and technical capacity to do so.

Response:

The applicant will utilize professional, reputable and experienced third-party contractors to complete the project. These contractors will have oversight from the applicant's internal engineering, operation, procurement and finance teams formed with multiple individuals who have completed themselves and/or provided oversight to multiple previous installations.

**Supplemental
Response 05****Question:**

Does the proposed project require any known notifications, compliance with land use plans, zoning codes, permits (i.e., water and/or air permits), utility authorizations, or other approvals?

Response:

Yes

**Supplemental
Response 06****Question:**

If yes, please specify the known notifications, permits, or authorizations needed, including any governmental or utility requirements. Additionally, outline the steps taken or planned to ensure compliance, including where the project currently stands in the permitting or authorization process.

Response:**Redacted****Supplemental
Response 07****Question:**

Please outline risks (technical, financial, supply chain, etc.) that may delay or prevent the implementation of the proposed project should it be awarded a tax credit reservation, as well as proactive steps your organization has and/or will take to reduce such risks.

Response:

Technical risk is well understood and mitigated with internal and external expertise.

Redacted

Supply chain risk is low due to multiple equipment suppliers and competitive procurement processes. Labour risk is minimized with the availability of local and non-local contractors to complete the required installations.

**Supplemental
Response 30****Question:**

Upgrades or installations of utility service feed equipment in direct support of the proposed equipment electrification project are eligible for CITCO. Does the applicant's request for a tax credit reservation under CITCO include electric utility service feed equipment? If yes, please describe what improvements need to be made.

Response:

Not required for this project specifically.

**Supplemental
Response 32****Question:**

For new-build or expansion projects, please describe the utilization of the proposed industrial process equipment, including its intended applications, daily and seasonal operating schedules, run time, and how its operation would differ from the BAU equipment that would otherwise be installed.

Response:**Redacted****Supplemental
Response 33**

N/A

Project Budget**Supplemental
Response 08****Question:**

What specifically is your organization seeking cost coverage for regarding this proposed project? Please note that only capital costs related to the proposed project are eligible.

Response:**Capital Costs****Redacted**

Percent of Capital
Costs Covered

Total Tax Credit
Reservation Request

Estimated Annual
Savings (dollars)

Payback Period
(years)

Supplemental
Response 09

Redacted

Greenhouse Gas Avoidance Benefits

Est GHG Reduction (MT CO ₂ e/yr)	15,190	Est GHG Reduction/Dollar (MT CO ₂ e)	0.076739
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Supplemental
Response 10

Question:
How were these determinations [of the
estimated annual GHG avoidance
benefits of the proposed project] made?

Response:
Using GHG avoidance calculator,
comparing base power consumption vs
proposed power consumption and then
using the emissions factor tables.

Natural Gas Est Pre (therms/yr)	Electricity Est Pre (kWh/yr)	107,182,628
Natural Gas Est Post (therms/yr)	Electricity Est Post (kWh/yr)	77,583,016
Natural Gas Est Diff (therms/yr)	Electricity Est Diff (kWh/yr)	-29,599,612
Other Energy 1 Fuel Type	Other Energy 2 Fuel Type	
Other Energy 1 Est Pre	Other Energy 2 Est Pre	
Other Energy 1 Est Post	Other Energy 2 Est Post	
Other Energy 1 Est Diff	Other Energy 2 Est Diff	

Project Co-Benefits

Supplemental
Response 35

Question:
How does the proposed project align with existing sustainability/decarbonization initiatives at the facility?

Response:

Redacted

Supplemental
Response 36

Question:
Please provide details on the facility's current energy sources and power mix that will be used to power the
proposed electric equipment. Will the proposed project be powered from the grid and/or from an
existing/proposed co-located distributed generation resource (i.e., solar, wind, etc.)?

Response:

Redacted

Supplemental
Response 37

Question:
If the proposed project will be powered in part by a co-located distributed generation resource, please
provide a description of the distributed generation resource. Include information such as type, date of
installation, nameplate capacity, and average annual generation.

Response:

RedactedSupplemental
Response 38

Question:

Is the industrial facility engaged in a Power Purchase Agreement (PPA) or any other agreement for the purchase of renewable electricity? If applicable, please provide details on the terms and extent of such agreements.

Response:

RedactedSupplemental
Response 39

Question:

Are there established goals or plans to increase the renewable energy content of the electricity service at the industrial facility?

Response:

RedactedSupplemental
Response 11

Question:

Please describe the non-environmental co-benefits that the proposed project(s) will help to achieve (e.g., environmental justice, health benefits, social/community benefits, economic benefits, etc.).

Response:

Redacted

facility overall will provide significant employment benefits, taxation benefits, multiplier benefits across the economy through both the construction process and the operating site.

Supplemental
Response 12

Question:

Will these co-benefits extend to the surrounding community, and if so, how?

Response:

Redacted

will provide benefits to employees, governments, utilities, service providers, material providers, and then related benefits to individuals, community groups and businesses that receive multiplier benefits across the region.

Supplemental
Response 13

Question:

Describe any other additional community benefits that the proposed project is anticipated to provide, submitting supporting documentation as necessary. Community benefits may include: 1) Project Partnerships and public/community engagement, 2) Local hiring and job training/apprenticeship opportunities, 3) Support for local small businesses 4) Education partnerships between project developers and academic institutions, 5) Other benefits to the surrounding communities

Response:

Local, regional and relocated hiring benefit.

Local small businesses for services

Redacted**Redacted**

Education partnership with the local college for hands on training programs.

Significant tax base from employer and employees to support many local government and non government programs.

Supplemental
Response 14

Question:

Are there other environmental benefits that will result from the implementation of this project (e.g., avoided water consumption, avoided waste products, non-GHG air quality improvements, or pollutant reductions, etc.)?

Response:

Redacted

Supplemental
Response 15

Question:

Are there potential negative impacts, direct, indirect, or cumulative, related to the implementation of this project, whether they be economic, social, health, or environmental? Please clearly identify all such impacts, addressing each economic, social, health, and environmental impacts separately here or within a supplementary mitigation plan.

Response:

A project risk summary and mitigation plan will be subsequently provided.

Supplemental
Response 16

Question:

Have mitigation strategies for potential negative impacts been developed? Please outline potential negative impacts and the subsequent mitigation strategy below or in an attached supplementary mitigation plan.

Response:

A project risk summary and mitigation plan will be subsequently provided.

Demonstration of Need

Supplemental
Response 17

Question:

Does this project face capital constraints that CITCO would help to overcome? Please describe.

Response:

The consideration for inclusion of the project in the base design requires CITCO support.

Seeking Federal
Grants Or Tax Credits



Supplemental
Response 18

Question:

If Yes to the question about whether the project will be seeking any state or federal grant funding or tax credit offerings, provide additional details on the grant funding or tax credit offerings (program name, funding amount, application status, and any funds already awarded).

Response:

Redacted the project has been previously approved for aspects of the Rural Jump Start program. **Redacted**

Coverage Exceeding
75%



Supplemental
Response 19

Question:

Is your organization going to leverage any additional private investment partnerships to assist in financing the proposed project(s)?

Response:

Redacted

Project Innovation

Supplemental
Response 20

Question:

Is this project or aspects of this project innovative? How so?

Response:

Redacted

Supplemental
Response 21

Question:

Is this a project that, if implemented, could be transformative for the sector/subsector, and/or for the specific production process being undertaken by the applicant?

Response:

Redacted

Supplemental
Response 22

Question:

Describe how the proposed project has the potential to significantly advance reductions in GHG emissions.

Response:

Redacted

Supplemental
Response 23

Question:

Does the technology to be installed as part of the proposed project(s) meet a technology readiness level (TRL) of six or greater? Please use the TRL guidance document in the appendix for guidance when making this/these determination(s).

Response:

Yes

Technology
Readiness Level (TRL)

Redacted

Supplemental
Response 24

Question:

If the proposed technology meets but does not exceed the technology readiness level of six, please describe the technology's performance in a relevant environment and the potential risks associated with implementing a full-scale prototype demonstration in an operational environment.

Response:

Supplemental
Response 25

Question:

If the proposed technology does not exceed the technology readiness level of seven, please describe its prototype performance in an operational environment, replicability and adoption potential within Colorado's industrial sector, as well as the technological risks associated with funding this project.

Response:

Supplemental
Response 26

Question:

If available, provide scientific literature detailing the potential GHG avoidance impacts of the proposed technology, or subsequent literature on technology results to date.

Response:

Submission Affirmation and Signature

Supplement
Attestation Text

By entering your full name and date below, you are attesting that you understand and certify that the applicant organization is both registered and in Good Standing with the Colorado Secretary of State's Office. You understand that any false statement(s) made in this application may result in ineligibility or the termination of a tax credit reservation awarded based on this application.

Supplement
Attestation Signed



Supplement Signature

Stewart G. Austin, Authorized Agent - 2025-12-30

Supplement
Submitted Date/Time

12/30/2025, 11:10 AM

System Information

Created By Stewart Austin, 12/30/2025, 9:50 AM

Last Modified By Stewart Austin, 12/30/2025, 11:10 AM

Funding Request
Supplement Name FR-02197 - CITCO Industrial Process
Equip Electrification Sub-Application

Record Type CITCO IPE Supplement

Equipment
EQ-0000070

Record Type **Industrial Process Equipment**

Proposed Operation Equipment Type

Proposed Type **Rotator / Agitator**

EQ-0000068

Record Type **Industrial Process Equipment**

Proposed Operation Equipment Type

Proposed Type **Vacuum Blower**

EQ-0000069

Record Type **Industrial Process Equipment**

Proposed Operation Equipment Type

Proposed Type **Pump**

EQ-0000071

Record Type **Industrial Process Equipment**

Proposed Operation Equipment Type

Proposed Type **Misc**

Files

Ind. Process Eq Elect._GHG Avoidance
Calculator_CITCO Round 4

Last Modified 12/30/2025, 12:46 PM

Created By **Stewart Austin**

Ind. Process Eq. Elect_Project Budget
Workbook_CITCO Cycle 4

Last Modified 12/30/2025, 11:03 AM

Created By **Stewart Austin**

Energy Audit Note_CITCO application

Last Modified 12/30/2025, 11:02 AM

Created By **Stewart Austin**

Confidential Business Information_Example Project
Schedule

Last Modified 12/30/2025, 11:01 AM

Created By **Stewart Austin**

Funding Request Supplement History
12/30/2025, 9:50 AM

User **Stewart Austin**

Action **Created.**