If you use this template, you are meeting the notice requirements for submission

Control Number: _____

48C Concept Paper Template: Industrial Decarbonization

PROJECT OVERVIEW AND SCHEDULE

I. **Company Description:** Describe your company and project team, including key personnel and any subcontractors on the project. *(500 character limit)*

II. **Project Description:** Describe the retrofit project, including the equipment, technologies, or approaches the project will use to reduce greenhouse gas emissions from the industrial or manufacturing facility (e.g., low- or zero-carbon process heat systems, energy efficiency equipment, etc.). Explain the extent to which innovative equipment and/or processes will be employed. *(1,300 character limit)*

III. **Schedule:** Describe the status of the project and provide any additional details that are helpful to understand the project schedule. *(675 character limit)*

IV. **Project Site Selection and Permitting:** List local, state, and/or federal permits that are required for this project. Specify which of these permits you already possess. For any permits you have yet to obtain, provide an estimated timeline for their acquisition. *(650 character limit)*

TECHNICAL REVIEW CRITERIA: GREENHOUSE GAS EMISSIONS IMPACTS

Describe the impacts of the project on the facility's Scope 1 GHG emissions. *(500 character limit)*

Describe the impacts of the project on the facility's Scope 2 GHG emissions. *(500 character limit)*

Explain how the project will achieve a 20% reduction in greenhouse gas emissions, including interactions between Scope 1 and Scope 2 emissions (e.g., due to electrification). Estimate the greenhouse gas emissions reductions that will be achieved by the project in both absolute (e.g., million metric tons per year) and percentage terms. *(920 character limit)*

Provide an estimate of the levelized cost of measured reduction in GHG emissions, based on total project costs: _____

TECHNICAL REVIEW CRITERIA: COMMERCIAL VIABILITY

I. Market Demand and Competitiveness: Describe the facility's outputs, including how many units are produced annually today. Explain any anticipated impacts of the retrofit project on annual production from the facility, including any impact on the facility's efficiency. Please quantify that reduction or improvement in efficiency percentage. *(500 character limit)*

Describe the primary or target customers for your facility's products and the details of any existing offtake agreements or other demand commitments for the lower-carbon product (e.g., with whom, for how many units, and for how long). *(500 character limit)*

Describe how the retrofit project will impact the price of your product and provide an estimated price of your facility's products after the project is completed. Describe how the price of your lower-carbon product will compare to similar technologies or materials in the same market segment, including conventional and lower-carbon products. *(500 character limit)*

II. Financing: Describe the different sources of financing for this project, differentiating between secured financing and planned or expected financing. Describe the capital structure (e.g. debt/equity ratio) if multiple sources of capital will be used. If financing using the company's own funds, specify the amount of cash available to support this project. *(500 character limit)*

III. Risk Mitigation Strategy: Describe anticipated legal, financial, engineering, procurement, construction, and operational risk(s) that the project may experience. Explain what actions the project team will implement to mitigate these risks and achieve execution and commercial success. *(600 character limit)*

TECHNICAL REVIEW CRITERIA: STRENGTHENING U.S. SUPPLY CHAINS AND DOMESTIC MANUFACTURING FOR A NET-ZERO ECONOMY

Describe the extent to which the employed equipment, technologies, or approaches could be applied to reduce greenhouse gas emissions beyond the specific project location, within or across sectors. *(600 character limit)*

TECHNICAL REVIEW CRITERIA: WORKFORCE AND COMMUNITY ENGAGEMENT

I. Project Location

Provide the anticipated geographical location of the project, including the census tract (see Appendix C of Notice 2024-36) the project is located in. *(200 character limit)*

Does the location or community qualify as a disadvantaged community according to the Climate and Economic Justice Screening Tool (CEJST)? Yes ☐ No ☑

Does the location or community qualify as a disadvantaged community according to a different federal, state, or local data tool? Yes ☐ No ☑

If yes, indicate which one(s). *(590 character limit)*

Does the location qualify as a 48C energy community? (see Appendix C of Notice 2024-36 for the full list of 48C energy community Census tracts) Yes ☐ No ☑

Describe the extent to which the project will (1) support transition opportunities for workers in the coal, automotive, and other energy sectors, and (2) use existing infrastructure in energy transition communities. *(450 character limit)*

II. **Job Creation and Workforce Continuity:** Describe the impact of the project on jobs at the facility, including jobs associated with the retrofit and the extent to which the retrofit will retain or create jobs in manufacturing. Describe the extent to which the project will secure job quality (e.g., wages, benefits, health and safety at the workplace, affirmative support of collective bargaining). *(900 character limit)*

III. **Ensuring Timely Project Completion Through Workforce and Community Engagement:** Describe what labor and community engagement has been completed and/or is planned. Summarize any formal agreements that are planned or have been executed (e.g., Project Labor Agreements, Community Benefits Agreements, Collective Bargaining Agreements). *(750 character limit)*

IV. **Local Environmental Impacts:** Describe any pollutants that the project will introduce to the local community, and explain what specific, measurable steps the project is taking beyond compliance with environmental law to mitigate local environmental impact. *(900 character limit)*