

Feasibility Guideline v1

A good feasibility study should provide clear information demonstrating the decarbonization impact of your project, identifying existing risks, and establishing the conditions required for success. The feasibility assessment should be conducted either by the vendor whose equipment you plan to purchase or by a third-party engineer who is also referencing the specific vendor. The level of detail depends on the project's size and engineering complexity, but Aii expects the following to be included:

Section	Key questions to answer
1. Executive Summary	What is the project you are planning? What equipment installation or action do you plan? What are the major benefits, costs, risks, and timelines? How does this support the electrification and/or thermal load reduction of your factory?
2. Project Background	What energy and/or decarbonization problem is being solved? What are the project objectives? Why is this project happening now?
3. Baseline Assessment	How does the current process operate? What are the existing costs, energy use, emissions, production volumes, maintenance issues and constraints? <i>The raw data for this, plus additional information, must be included in the Baseline Data and Emissions Calculation Template.</i>
4. Technical Feasibility and Site Assessment	What is the proposed technology? What modifications to building or processes are required? Are your utilities – power, steam, water, compressed air, etc. – sufficient?
5. Technical Drawings	Please include technical drawings as needed.
6. Financial Analysis	What are the capex, opex, and maintenance costs? What is the expected Return on Investment (ROI), and are there additional costs in ensuring that renewable electricity can cover any additional electricity usage?
7. Environmental Assessment	What are the impacts on GHG emissions, energy consumption, and water? Are there any other sustainability benefits? <i>The raw data for this, alongside additional information, must be included in the Baseline Data and Emissions Calculation Template.</i>
8. Regulatory, Permits and Operational Feasibility	Are permits required? Are there building codes, environmental approvals, electrical regulations, or safety standards to comply with? What training is needed for operation and maintenance?

9. Implementation Plan

What are the procurement timelines, project schedules, installation sequence, commissioning plan, and expected date?