

Finance: Feasibility Analysis Template

Licensed Under Creative Commons Attribution-NonCommercial 4.0 International

This template is licensed under a Creative Commons Attribution-NonCommercial 4.0 International License (CC BY-NC 4.0).

You are free to:

- **Share** — copy and redistribute the material in any medium or format.
- **Adapt** — remix, transform, and build upon the material.

Under the following terms:

- **Attribution (BY):** Credit must be given to Beacon Climate Innovations LLC
- **NonCommercial (NC):** Only noncommercial use of this material is permitted. Noncommercial means not primarily intended for or directed toward commercial advantage or monetary compensation.

Learn more: <https://creativecommons.org/licenses/by-nc/4.0/>

BY: Credit must be given to Beacon Climate Innovations LLC

NC: Only noncommercial use of your work is permitted.

About: The purpose of this Feasibility Analysis Template is to provide a clear, replicable framework for evaluating the financial, technical, and operational viability of CCRH projects through a structured, easy-to-use Excel-based tool. The template is built to guide users through four main steps. First, defining the project site and context, including energy demands, critical infrastructure, and key goals. Next, identifying and listing technology or project options to evaluate such as solar PV, battery storage, microgrids, or other resilience measures. Then, collecting and inputting key data for each option, including capital costs, operating and maintenance costs, lifespan, savings, revenue, and key financial metrics like Internal Rate of Return and Net Present Value. And finally, comparing options side-by-side based on both financial performance and community resilience value to make an informed recommendation.

Usage Description: This template can be followed to create a Feasibility Analysis to guide the finance stage of a CCRH (Clean Energy Community Resilience Hub) project.



Feasibility Analysis Template

Objective:

Help organizations assess the most financially and operationally viable operations

Purpose:

The purpose of this Feasibility Analysis Template is to provide a clear, replicable framework for evaluating the financial, technical, and operational viability of CCRH projects through a structured, easy-to-use Excel-based tool. The template is built to guide users through four main steps. First, defining the project site and context, including energy demands, critical infrastructure, and key goals. Next, identifying and listing technology or project options to evaluate such as solar PV, battery storage, microgrids, or other resilience measures. Then, collecting and inputting key data for each option, including capital costs, operating and maintenance costs, lifespan, savings, revenue, and key financial metrics like Internal Rate of Return and Net Present Value. And finally, comparing options side-by-side based on both financial performance and community resilience value to make an informed recommendation.

Step 1: Define the Site and Organize Information

- Name of site
- Square footage
- Estimated energy demand
- Resilience goals (backup power duration, critical loads to cover)
- Funding: grants, rebates, incentives

Step 2: Identify Options to Evaluate

Include 3 or 4 options you want to evaluate

Examples of power options include:

1. PV Only
2. PV + Battery Storage
3. PV + Battery + Microgrid Controls
4. PV + Battery + Microgrid + V2G (Vehicle-to-Grid)
5. PV + Battery + Microgrid + V2G (Vehicle-to-Grid) + Geothermal



Feasibility Analysis Template

Step 3: Collect Data for Each Option

Metric	Option 1	Option 2	Option 3	Option 4
Capital Costs (Pre-Incentive)				
Net Capital Costs				
Estimated System Lifespan				
Avg Annual O&M Cost				
Annual Revenue				
Annual Savings				
Insurance Equivalent				
Net Annual Savings				
IRR (%)				
Payback Period (Years)				
NPV (6% Discount Rate)				

Step 4: Interpret Analysis & Make Recommendation

- Brief summary of findings
- Best-performing option by IRR and NPV
- Option that meets resilience needs at lowest cost
- Consider community priorities