

4-Step Framework for Addressing Energy Resiliency Challenges

Phase 1 Build the Foundation

1. Craft project objectives

2. Identify initial participants and clarify their roles and responsibilities

- Who has the information needed to identify the problem and potential solutions?
- Who has the skills needed to explore the problem and potential solutions (e.g., conduct analytics)?
- Who will play a role in implementing possible solutions?
- Who will be a productive contributor to a multi-stakeholder process?

Phase 2 Define the Problem

1. Draft the problem statement

What is the problem you are looking to solve? Craft a problem statement and any additional questions to explore.

2. Determine root cause(s) of the problem

- Identify and gather relevant data
- What are the main drivers of the problem? When and how do they appear? With what frequency?

3. What are the implications of not solving the problem?

- Who is impacted by the problem, how, and to what extent?
- Will the problem persist into the future? Worsen? Resolve itself?

4. Identify current efforts

- What is already being done about the problem and by whom?
- How and why is this insufficient?

Phase 3 Explore and Compare Mitigations

1. Identify potential mitigations

- What mitigations are available today?
- What mitigations are still under development?

2. Collect data

- Gather data on costs and impacts to relevant stakeholders of each mitigation
- Determine the extent to which each mitigation can address the problem; note what conditions may alter the effectiveness of each mitigation
- Document whether mitigations need to be implemented in partnership with other mitigations or if they can stand alone.

3. Establish a comparison methodology

- What existing comparison methodologies could be applied to this project? What are their strengths and weaknesses? In what ways might they need to be adapted?
- If necessary, develop your own methodology to compare solutions against one another and the status quo or other baseline scenario.
- Include evaluation criteria such as cost, regulatory considerations, social and environmental impact, and other relevant qualitative and quantitative factors. When exploring costs, be clear on who bears the costs and when.

4. Compare mitigations

- Apply the methodology to compare mitigations, factor in qualitative considerations
- Who will play a role in implementing each solution? Do those organizations support this work?

5. Select preferred mitigation(s)

Phase 4 Prepare for Implementation

1. Integrate mitigations

- Combine preferred mitigations into a comprehensive plan considering the timeline, priority, and impact of these projects to stakeholders, the environment, and economy

2. Identify implementation pathways

- What are potential funding sources?
- Who is responsible for implementation?
- Is there a different or adjusted governance structure to implement the selected solution?



Apply the Framework to an Energy Resiliency Challenge

Selected Energy Resiliency Challenge:

Region or Location:

Phase 1
Build the Foundation

1. Objective

2. Initial Participants

Phase 2
Define the Problem

1. Draft problem statement

2. Implications of the problem

3. Related efforts underway?

Phase 3
Explore and Compare
Mitigations

1. Potential mitigations

2. Data to collect

3. Craft & Conduct Comparison
methodology

4. Select preferred
mitigation(s)

Phase 4
Prepare for Implementation

1. Integrate mitigations into
existing plans and efforts

2. Identify implementation
pathways

