See the formatting recommendations in Part III, Section A.

The Project Narrative must respond to each sub-criterion below.

# Emerging Energy Technologies

***[Separate Emerging Technologies and Strategies Report not required but acceptable]***

1. What emerging energy technologies did the project team include in their zero-emission mixed-use development design and how does their performance exceed that of standard technology? How does the project demonstrate innovative all-electric applications in the nonresidential portion of the developments? ·
2. What technologies were used to enable dynamic energy management for load flexibility? What are the plans for engaging residents in load flexibility?
3. What percentage of EV charging stations can respond to grid and/or building signals? Describe the technology and management method that enable grid-interactive or building-interactive EV charging. Are the remaining parking spaces without EV charging stations designed to be EV-ready?
4. What steps did the project team take to ensure the performance, safety, and reliability of the technologies prior to the installation in the build stage of the competition? To what extent have the emerging technologies chosen been demonstrated?

# Energy, Emission and Cost Performance

***[Provide a summary of building energy and emissions performance here and more details in the Energy & Emissions Performance Report.]***

1. How is your building exceeding energy and emission reductions beyond what is required by the 2022 Building Energy Efficiency Standards (Title 24, Part 6)?
2. What is the design’s strategy to meet daily peak electricity demand using onsite renewables, onsite storage, and load management?
3. What innovative, grid-interactive building elements does your design include?
4. How will the advanced energy elements impact tenants’ energy bills compared to a similar development built to code?
5. How will the design be capable of responding to price signals, especially real-time pricing that will be implemented in the future?

**Cost Performance**

***[Provide a summary of the cost performance here and more details in the Zero Emissions Cost-Benefit Analysis Report]***

1. What are the overall construction and operating costs of the proposed design? How do these costs compare to a minimally code-compliant design?

# Resiliency and Safety

1. What planning tools did the team use to take into consideration climate change impacts at the proposed project site?
2. What enhancing technology and design features did the project team pursue for the mixed-use development to be resilient to power outages, natural disasters, or other environmental hazards or impacts expected from climate change?
3. Describe microgrid design goals and operation strategies and how they compare with the minimum design requirements. Describe microgrid operation during temporary and extended grid outages. Describe interoperability with DER aggregation platforms, such as Virtual Power Plant.

# Aesthetics and Functionality

* 1. How did the project team take advantage of novel features and form factors in some of the emerging energy technologies to improve the aesthetics and functionality of the building?
	2. What passive design features will be employed to improve the sustainability and aesthetics of the development?
	3. What smart home features will the development come pre-equipped with? How will this enable the residents to be prosumers?

# Advanced Construction Practices

1. What advanced planning, design, and construction methods did the project team pursue for this project?
2. What is the potential for construction time and cost savings of these advanced methods compared to a similar buildout using standard construction practices?
3. What strategies and materials did the project team pursue to reduce the embedded emissions from building construction and materials?

# Construction Readiness

1. How does the development construction timeline align with the timeline of this funding opportunity?
2. What critical milestones (e.g.,permitting, CEQA, financing) were completed during the design phase and what critical milestones remain before the project can begin construction? When is construction expected to begin?
3. What is the project team’s plan for financing the development? What additional incentives, such as utility incentives and tax incentives, will the project team pursue to help finance the development.
4. [~~Team Readiness questions~~]

# Community and Economic Impact

1. How did the project team solicit community input and incorporate community feedback into the project design, including the purpose of the nonresidential space? What steps and actions did the applicant take to ensure the project aligns with the needs and vision of the community?
2. How did the project team address or minimize gentrification in a way that is aligned with local government and community priorities? How did the project team address affordability that reflects community needs?
3. What positive impacts will the development have on the local community?
4. What type of workforce development or local job creation is expected to result from the project?
5. How will this project improve access to electric mobility, solar PV, and demand response for the tenants?
6. What technology platforms or innovative policy/financial mechanisms will be used to enable this?

# Market Transformation

1. How will the project team promote the broader adoption of the emerging energy technologies and advanced architectural, design, and construction practices demonstrated by this project?
2. How will this project help transition mixed-use development from a one-off bespoke model to a more standardized, repeatable, and scalable model? ·
3. What financing strategies and sources did the project team pursue for the ownership and operation of the advanced energy elements of the development? Explain how this method will be affordable and replicable for other developments without access to grant funding.
4. What standards and protocols will be used to create a more plug-and-play environment for energy technology solutions?
5. What contingency plans did team pursue to reduce risk of adopting new technologies?

# Team Qualifications, Capabilities and Resources

1. Identify credentials of prime and any subcontractor key personnel, including the project manager, principal investigator and technology and knowledge transfer lead *(include this information in the Project Team Form), including Community Based Organization,* appropriate qualifications, experience, financial stability and capability to complete the project.
2. Explain the team structure and how various tasks will be managed and coordinated.

*Include an organization chart similar to the one below*

 **Figure X: Organization Chart**

1. Describe the facilities, infrastructure, and resources available that directly support the project.
2. Describe the team’s history of successfully completing projects in the past 10 years including subsequent deployments and commercialization.

# Budget and Cost Effectiveness

1. Budget forms are complete for the applicant and all subcontractors, as instructed in Budget Attachment.

*Provide a budget by tasks, such as:*

**Table X: Task Budget**

| **Task (by major task)** | **Energy Commission Funds** | **Match Share** | **Total** |
| --- | --- | --- | --- |
| Task 1: General Project Tasks |  |  |  |
| Task 2: |  |  |  |
| Task [TBD-1]: Evaluation of Project Benefits |  |  |  |
| Task [TBD-2]: Technology/ Knowledge Transfer Activities \* |  |  |  |

\* **Requires 5% of total CEC funds**

1. Justifies the reasonableness of the requested funds relative to the project goals, objectives, and tasks.
2. Justifies the reasonableness of direct costs (e.g., labor, fringe benefits, equipment, materials & misc. travel, and subcontractors).
3. Justifies the reasonableness of indirect costs (e.g., overhead, facility charges (e.g., rent, utilities), burdens, subcontractor profit, and other like costs).