See the formatting recommendations in Part III, Section A.

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

# Emerging Energy Technologies

1. What emerging energy technologies will the project team pursue for the zero-emission mixed-use development concept? How will the project demonstrate innovative all-electric applications in the nonresidential portion of the developments? ·
2. What technologies will be used to enable dynamic energy management for load flexibility? How will residents engage in demand response that integrates real-time pricing?
3. What steps will 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?

# Energy, Emission and Cost Performance

1. What tools and methods will be used to model the expected energy performance of the mixed-use development, including:
	* Onsite renewable generation
	* Building loads
	* Grid-interactive metrics (shed, shift, etc.) and grid services o Bill savings for tenants
2. What tools and methods will be used to model the expected emissions performance of the mixed-use development? ·
3. What tools and methods will be used to model the overall construction and operating costs of the proposed design at scale? This should take into consideration expected cost reductions from scale – both per-unit technology costs as well as soft cost reductions that result from the “on-the-ground” learning. This will be used to compare the project to a minimally code-compliant version using standard design and construction practices at the end of the design phase.

# Resiliency and Safety

1. What planning tools will the team use or has used to take into consideration climate change impacts at the proposed project site?
2. What enhancing technology and design features will 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?

# Aesthetics and Functionality

* 1. How is the project team planning to 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 will 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 will 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 are the critical milestones in the design phase the project team will manage to ensure the project is ready to move into the build phase?
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.

# Community and Economic Impact

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

# Market Transformation

1. How does the project team plan to 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 will the project team pursue for the ownership and operation of the advanced energy elements of the development in a way that is 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 will team pursue to reduce risk of adopting new technologies?

# Customer (Tenant) Interface

1. How will this project communicate and market climate resiliency features to future tenants? ·
2. What interfaces are planned to engage and reward tenants for maintaining the energy efficiency, demand flexibility and climate resiliency features of the building(s)

# 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 \* |  |  |  |
| Task [TBD-3]: Phase II Application Package |  |  |  |

\* **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).

# Funds Spent in California

This project proposes to spend $\_\_\_\_\_\_\_\_\_ of Energy Commission funds in California.

# Disadvantaged/Low-Income Communities

In order to receive or qualify for these additional points, the proposed project must demonstrate benefits to the disadvantaged and/or low-income communities, by describing the following:

1. Proposal identifies how the target market(s) will benefit disadvantaged and/or low-income communities.
2. Identifies economic impact on low-income and disadvantaged communities including customer bill savings, job creation, partnering and contracting with micro- and small-businesses, and economic development.
3. Describes how the project will increase access to clean energy or sustainability technologies within disadvantaged and/or low-income communities and how the development will benefit the communities.
4. Applicants have letters of support from technology partners, community-based organizations, environmental justice organizations, or other partners that demonstrate their belief that the proposed project will lead to increased equity, and is both feasible, and commercially viable in the identified low-income and/or disadvantaged communities.