

Proposed Outline for Albany and Piedmont Climate Action Plans

An effective climate action plan should perform three functions:

- inspire stakeholders and the public to participate in City efforts,
- demonstrate compliance with State regulations, and
- provide clear guidance to City staff regarding implementation of the plan.

The proposed Climate Action Plan contains a Summary Chapter and five technical chapters. The Summary Chapter is **targeted toward the general public** and provides a basic understanding of climate change and its potential effects, the actions the City and State are taking to address the issue and how residents and business owners can participate in greenhouse gas reduction efforts.

The technical chapters **provide the body of the CAP** detailing the City's strategy to be consistent with applicable state regulations/legislation and providing clear guidance to City officials and departments charged with implementing the plan.

Chapter I. Summary Chapter

As stated above, the Summary Chapter will be written with the general public as the target audience. The chapter will use concise text and feature context-relevant illustrations, charts, photos, and tables. To maximize readability, subsections (e.g. *What is Climate Change?*) will be approximately one to two pages in length. *See Attachment A and B for examples of the proposed style.*

The Summary Chapter will feature the following sections.

A. Vision

The purpose of this section is to orient the reader to climate change issues and emphasize the importance the City places on attaining its GHG reduction targets.

- **Albany's/Piedmont's Vision** The Vision Statement will provide a brief one-page description of how the City intends to respond to climate change, outlining an approach to overcome challenges and maximize opportunities.
- **City Council Statement** A brief letter to residents from the City Council will describe the challenge and the level of commitment needed from City departments, residents, and businesses.

B. Challenge

This section provides readers a concise description of climate change and its potential effects.

- **What is Climate Change?** A brief, graphic-rich fold-out will describe the science and mechanics of climate change. (*See Attachment C for example.*)
- **Cause for Concern** This subsection describes key effects of climate change at global, regional, and local levels.

- **Opportunities** This subsection points out GHG reduction measures which create co- benefits, illustrating that responding to climate change presents key opportunities to improve the community and its quality of life.

C. Leadership

Great challenges call for both leadership and innovation. This section describes the State's and City's leadership roles in addressing climate change.

- **California Regulatory Context** This brief narrative discusses California's legislative and regulatory approach to addressing climate change (AB 32, EO S-3-05, SB 375, ARB's Local Government Protocol, etc.) It also describes the CARB scoping plan as an implementation framework for AB32, and summarizes the scoping plan's recommendations regarding local government actions, municipal operations, and reducing community-wide GHG emissions.
- **Albany's/Piedmont's GHG Emissions and Reduction Target** This subsection describes Albany's/Piedmont's role in addressing Statewide GHG reduction targets. The subsection provides an outline of existing GHG emissions within the City, sets forth GHG emissions projections, and relates both to the City's established/recommended target.

D. Action

This section outlines the core strategies that will be used to achieve the City's GHG reduction targets and adapt to a changing climate.

- **Current Achievements** This subsection describes actions or policies that the City has already implemented that have GHG reduction potential. This subsection provides the City credit for actions already undertaken. It also conveys to the public that the City is being proactive in addressing climate change. Relevant examples could include improved recycling programs, municipal operations efficiency improvements, composting programs, smart growth policies in the general plan or noteworthy specific plans, etc.
- **GHG Reduction Strategies** This subsection provides descriptions of the five core GHG reduction strategies that the City will use to meet its target. The discussion will stay at the strategy level. Component measures will be listed, but detailed discussion of measures will only be provided in the corresponding technical chapter. Strategies discussed include (*These are subject to change per client*):
 - Transportation and Land Use
 - Energy and Buildings
 - Waste and Water
 - Green City Infrastructure

- **Adaptation Strategies** Provides descriptions of the two core climate change adaptation strategies. Strategies discussed include (*These are subject to change per client*):

- Sea Level Rise (Albany Only)
- Water Supply
- Economic Development

- **Implementation** This subsection provides a brief description of how the City plans to implement the GHG strategies and measures. It also describes the need to coordinate between departments and other agencies and for residents and businesses to be involved.

- **Moving Forward: Everyday Actions You Can Do** This subsection presents 20 +/- actions residents and business owners can do today to reduce GHG emissions and contribute to the City effort.

- **Reporting schedule** This subsection presents a schedule for ongoing monitoring and annual or semi-annual reporting of progress toward achieving the GHG reduction target.

Technical Chapters

Chapter II. Climate Change Effects

This chapter will provide a description of regional and local climate change effects. It will be an adapted version of the climate change effects discussion provided within the Mariposa Lakes Specific Plan EIR EDAW prepared for the City of Stockton. Additional information on sea level rise will be provided using recently released USGS data. Additional discussion of water supply effects should be based on EBMUD climate change work that EDAW is doing.

A. Regional Effects

This section will discuss relevant regional climate change effects such as water supply (Sierra snow pack). Description of various climate scenarios (dry-warm, wet-warm) would be provided here.

B. Local Effects

This section will describe local climate change effects, notably sea level rise, water supply, and economic development effects.

Chapter III. California Regulatory Context

This chapter will describe the State of California's efforts to reduce GHG emissions, relevant legislation and regulations, and the pertinent role of and requirements for local government.

A. Applicable California Regulations

This section describes State legislation and regulations (AB 32, EO S-3-05, AB 1493-Pavely, Low Carbon Fuel Standards, Renewable Portfolio Standard, SB375, Green Building Standards, Title 24 net-zero-energy by 2020 residential standard, 2030 commercial standard, and any others adopted prior to City Council consideration of the CAP) and how they relate to GHG emissions reductions goals.

B. State Inventory, Projections, and Targets

Describes the State GHG emissions inventory, business-as-usual projections, and the AB 32 and EO S-3-05 targets.

C. Local Government Roles and Responsibilities

This section describes local government actions recommended within the AB 32 Scoping Plan, connecting state-level reduction targets to local community actions. It also discusses the emissions reductions that the AB 32 Scoping Plan assigns to municipal operations. Both discussions address Albany/Piedmont specifically.

Chapter IV. Albany/Piedmont GHG Baseline, Projections, and Targets

This chapter presents Albany's/Piedmont's GHG inventory, baseline conditions, and business-as-usual projections. It also and describes the City's reduction target.

A. Baseline

This section describes inventory methodologies including the ICLEI work and modifications recommended by EDAW to establish the baseline. It also provides explanation of inventory data by sector.

- **Methodology**
- **Inventory by Sector (ICLEI Inventory)**
- **GHG Emissions Baseline (EDAW modifications/assumptions relative to ICLEI Inventory)**

B. Projections

This section discusses the City's a) business-as-usual projections and b) business-as-usual projections with state-level reductions. It also provides assumptions used to create the projections such as assumed population growth, efficiency factors, increased consumption, etc.

- **Business-as-Usual Projection**
- **State Level Reductions**

C. Reduction Target

This section describes the City's reduction target and the emissions reductions necessary to attain the target. If possible, we should demonstrate reductions required per sector. The section will describe a mass emissions target and a per capita emissions target.

- **Mass Emissions Target (per sector if possible)**
- **Per-Capita Emissions Target**

Chapter V. Climate Action Strategies

This chapter presents the strategies and measures that the City will employ to reduce GHG emissions and adapt to climate change.

A. GHG Reduction Strategies

The strategies describe the general approach that the City will use to achieve reductions. Each strategy is made up of component measures. The measures are the specific policies and programs that will create GHG reductions. The five GHG reduction strategies include:

- **Transportation and Land Use Strategy**
 - Measures
- **Energy and Building Strategy***
 - Measures
- **Waste and Water Strategy**
 - Measures
- **Green City Infrastructure Strategy**
 - Measures

* The Energy and Building Strategy will be divided into residential, commercial/industrial, and municipal for easier discussion, use, and navigation.

B. Adaptation Strategies

This section describes two adaptation strategies including:

- **Sea Level Rise Strategy (Albany Only)**
 - Measures
- **Water Supply Strategy**
 - Measures
- **Economic Development Strategy**
 - Measures

C. GHG Reduction Strategies and Co-benefits: Summary Matrix

This section includes a summary matrix that identifies the GHG reduction potential and other co-benefits (water, air, financial, etc) of each strategy and its component measures. This allows easy comparison of different strategies and measures and emphasizes the general quality of life improvements that the community will enjoy as a result of some of the measures.

Chapter VI. Implementation

This chapter directs the effective implementation of the CAP by City staff and other stakeholders. It describes the City's implementation approach, details action steps, and identifies funding needs and sources.

A. Approach

This section describes the City's approach to implementing the CAP's GHG reduction and adaptation strategies.

- **Implementation Pathways** This subsection describes critical action points that will need to be achieved in order to attain the reduction target.
- **Progress Indicators and Reporting** This subsection identifies indicators that will be used to track the success of measures. The subsection also identifies monitoring criteria, and annual or semi-annual reporting processes.
- **Plan Adoption and Evolution** This subsection describes the need for the plan to be updated on an ongoing basis and amended in order to stay current in a fast changing field.

B. Implementation Plan Matrices

This section provides matrices detailing the expected GHG reduction performance (quantified where possible), essential action steps, responsible departments, program costs, likely payback, available and prospective funding sources and indicators and reporting criteria for each measure. A one-page matrix will be provided for each CAP measure using a consistent, comparable format (*please see Attachment C for an example layout*). The matrices will be user-friendly in order to facilitate use by City staff and to enable the public (residents and agencies) to track key actions and action dates.

C. Funding

This section describes funding mechanisms currently available to implement the CAP and component measures, and proposes new finance tools (if needed) to implement the CAP.

Appendices:

A. ICLEI Inventory Data

B. GHG Reduction Calculations (per measure and summary for all proposed measures)

C. References