CLIMATE ADAPTATION PLANNING IN GOLETA

Presentation

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City of Goleta

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Planning Tools

• General Plan
• Climate Action Plan
  – Greenhouse Gas Emissions Inventory
  – Municipal Energy Efficiency Action Plan
• Coastal Hazards Vulnerability Assessment and Fiscal Impact Report
• Local Coastal Program (TBD)
• Community Wildfire Prevention Plan
• Multi-Jurisdictional Hazard Mitigation Plan
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Adaptation Challenge: Oil / Gas Remnants in 1930s

Past Mining Activity in Coastal Area.
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Adaptation Challenge: Oil and Gas Remnants Now

Historic Oil and Gas Relicts on Ellwood and Haskell’s Beaches

Broken and Eroding Old Oil and Gas Sea Walls on Ellwood Beach
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Adaptation Challenge: Shoreline and Bluff Erosion

Large areas of eroded bluff and shoreline at Haskell’s Beaches and Bacara
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Adaptation Challenge: Coastal Flooding

1995 photo of flooding at Calle Real in Goleta
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Adaptation Challenge: Wildland Fire
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Adaptation Challenge: Tree Die-off (Ecosystem Impacts)
Climate Adaptation Planning in Goleta

Coastal Hazards Vulnerability and Fiscal Impact Report

- Identify and map climate-induced hazards
- Identify vulnerable resources, infrastructure and development
- Quantify fiscal impacts of the risks
- Develop adaptation strategies to reduce the risk level
- Quantify cost of implementing the adaptation strategies
- Develop a Local Coastal Program
Coastal Hazards Report Outline

Section 1: Planning Background
Section 2: Physical Setting
Section 3: Climate Science
Section 4: Vulnerabilities and Fiscal Impacts by Sector
Section 5: Adaptation Strategies by Sector
Section 6: Implementation
Section 7: Policy and Regulatory Recommendations
Section 8: Monitoring
Section 9: Conclusion
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Vulnerability Assessment

- Evaluate impacts of each type of hazard
- Assesses impacts to each asset category over time
- Identify threshold

Vulnerability Model

Planning Horizons: 2010, 2030, 2060, and 2100

Sea Level Rise:

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<th>Low SLR</th>
<th>Medium SLR</th>
<th>High SLR*</th>
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<tr>
<td>2100</td>
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<td>30.7 inches</td>
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Coastal Hazards Report: Example Policies

• Relocation / Removal from Erosion-Prone Areas
• Transfer of Development Rights Program
• Structural Adaptation
• Habitat Adaptation
• Real Estate Disclosures
• Creek/Slough Sediment Management
• Regional Collaboration
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Regional Collaboration
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