



# City Council Environmental Committee

**Climate Action & Adaptation Plan – Year 1 Look-Ahead**

**April 20, 2021**

# Climate Action & Adaptation Plan (CAAP) Status

- City Council confirmed the CAAP on January 5, 2021
  - Confirmed GHG reduction pathway for 2030
- Staff is preparing a Subsequent Environmental Impact Report (EIR) and anticipates bringing the CAAP forward for adoption in Fall 2021
- Early implementation actions underway

# What is the CAAP?

## A plan to:

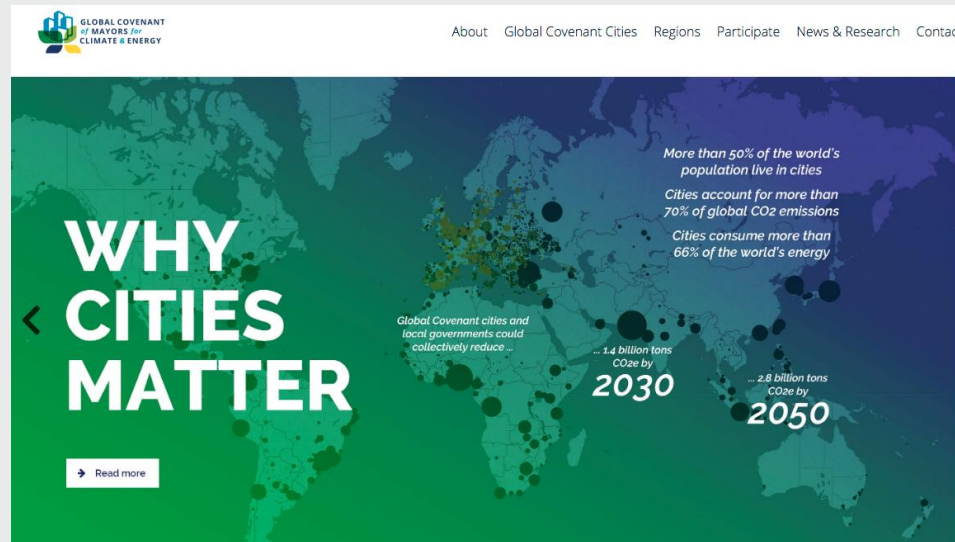
- Reduce communitywide greenhouse gas emissions (GHG), while preparing for the impacts of climate change
- Improve public health, foster economic opportunity, and advance social equity
- Meet policy commitments and state GHG reduction mandates

## How?

- Establish a framework for creating or updating policies, programs, practices, and incentives to reduce the City's GHG footprint
- Ensure the community and physical assets are better protected from the impacts of climate change
- Informed by technical studies of climate stressors and communitywide vulnerabilities

# Why do we need a CAAP? – Relevant Legislation

Target Year	State Target	Corresponding Legislation	City Status
2020	1990 GHG levels by 2020	AB 32, Global Warming Solutions Act (2006)	California met this target Statewide
2030	40% below 1990 levels by 2030	SB 32, Global Warming Solutions Act (2006)	The CAAP is a plan for Long Beach to meet this target by 2030
2045	Carbon neutrality by 2045	Executive Order B-55-18 of 2018	Aspirational for Long Beach
2050	80% below 1990 levels by 2050	Executive Order S-3-05 of 2005	CAAP's plan horizon is to 2030



# Why do we need a CAAP? – Relevant Legislation

## Other Relevant Legislation

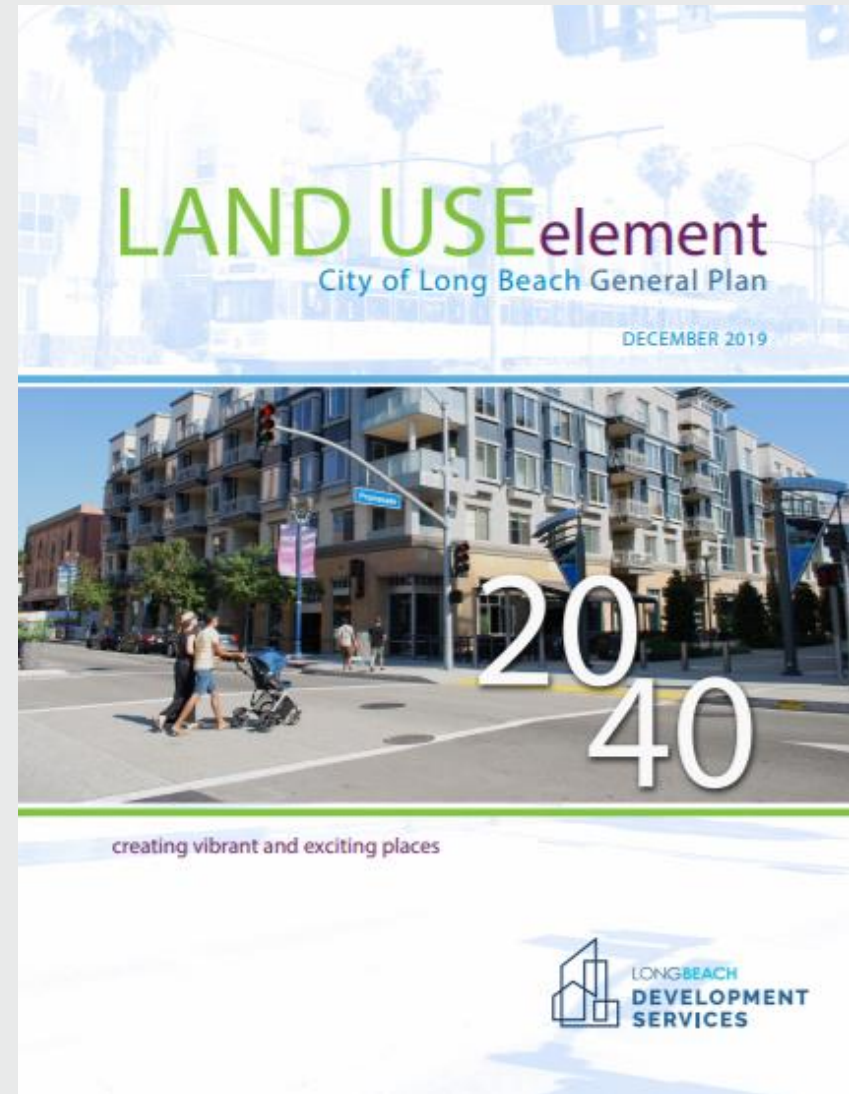
- SB 375 (Sustainable Communities)
- AB 691 (Sea Level Rise)
- SB 1000 (Environmental Justice in Local Land Use Planning)
- SB 379 (Climate Adaptation in Safety Elements)
- SB 100 (Carbon-free Electricity by 2045)
- AB 341 (Commercial Recycling), SB 1383, and AB 1826 (Organics Diversion)



# Why do we need a CAAP?

## CAAP is a mitigation measure of the General Plan Land Use Element (LUE)

- The General Plan Land Use Element (LUE) was adopted in December 2019
- GHG emissions associated with implementation of the LUE (e.g., citywide vehicle trips, electricity usage)
- **City shall adopt a CAAP within approximately 36 months of adoption of the LUE & implement CAAP reduction measures (MM GHG-1)**



# Why do we need a CAAP?

## City leadership needed for city-scale mitigation, climate adaptation, & equity beyond what could be achieved by State emissions reduction efforts alone



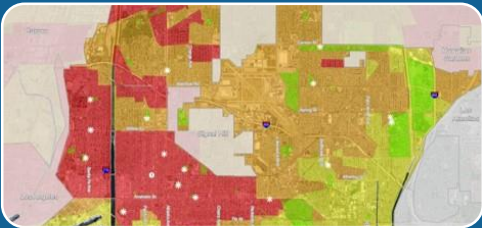
### Mitigation

- Implementation occurs at both city and state level (siting EV charging stations and updating building codes and zoning to incentivize electrified buildings, for example, require local leadership)
- CAAP identifies local GHG reduction measures for implementation



### Adaptation

- State emissions reduction target does not prepare Long Beach for the impacts of climate change that are happening today
- CAAP helps increase resilience for current and future threats (extreme heat, poor air quality, sea level rise, etc.)



### Equity

- State emissions reduction targets do not ensure that climate issues are equitably addressed
- CAAP helps address environmental justice and can help steer climate finance opportunities to communities most impacted by climate change



# Mitigation

Buildings

Transportation

Waste

# Adaptation

Extreme Heat

Air Quality

Drought

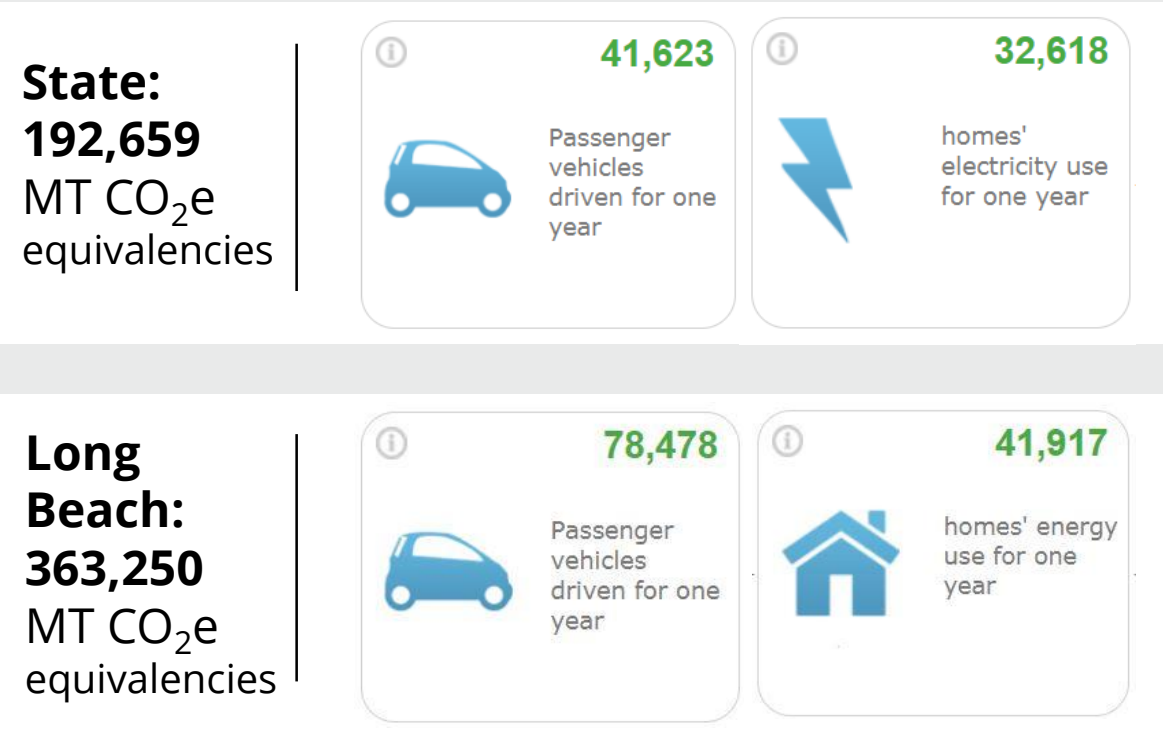
Flooding

Sea Level Rise

**Equity Strategy:** Identify corridors in the areas most impacted by extreme heat and/or poor air quality to prioritize them for shade, cool pavement, and other reflective surfaces.



# Long Beach GHG Emissions Reduction Pathway



Performance towards the City’s GHG reduction target will be monitored regularly. The CAAP will be adapted over time to incorporate new GHG reduction technologies and strategies.

GHG Reduction Targets	
2030 GHG Target	3.04 MT CO <sub>2</sub> e/Service Population
Business as Usual Forecast	2,176,931 MT CO <sub>2</sub> e
Target Level	1,984,272 MT CO <sub>2</sub> e
GHG Reductions Needed	192,659 MT CO <sub>2</sub> e
GHG Reductions Anticipated	363,250 MT CO <sub>2</sub> e

2030 GHG Reduction Target by Service Population	
Business as Usual Target	3.34 MT CO <sub>2</sub> e
Emissions Target Level (State)	3.04 MT CO <sub>2</sub> e
Reduction Needed (State)	0.3 MT CO <sub>2</sub> e (9% reduction/person)
Long Beach GHG Pathway	2.78 MT CO <sub>2</sub> e
Reduction Proposed (Long Beach GHG Pathway)	0.56 MT CO <sub>2</sub> e (17% reduction/person)

# Climate Mitigation Process

- Community input through stakeholder engagement is reflected in the CAAP's vision and goals, policies and strategies, as well as in how the actions have been prioritized for implementation
- Climate mitigation planning is an iterative process
- The CAAP outlines strategies for ongoing public outreach and education throughout implementation of the plan



# CAAP Implementation Chapter

## Governance

- Set up a governance structure that integrates climate action into operations and internal culture, public engagement, and financial decision-making processes
- Dedicate staff to advance CAAP policies and programs

## City Leadership

- Commit to demonstrating leadership in mitigation actions
- Ensure CAAP implementation benefits those most impacted by climate change such as through job creation
- Collaborate with public agencies and community organizations

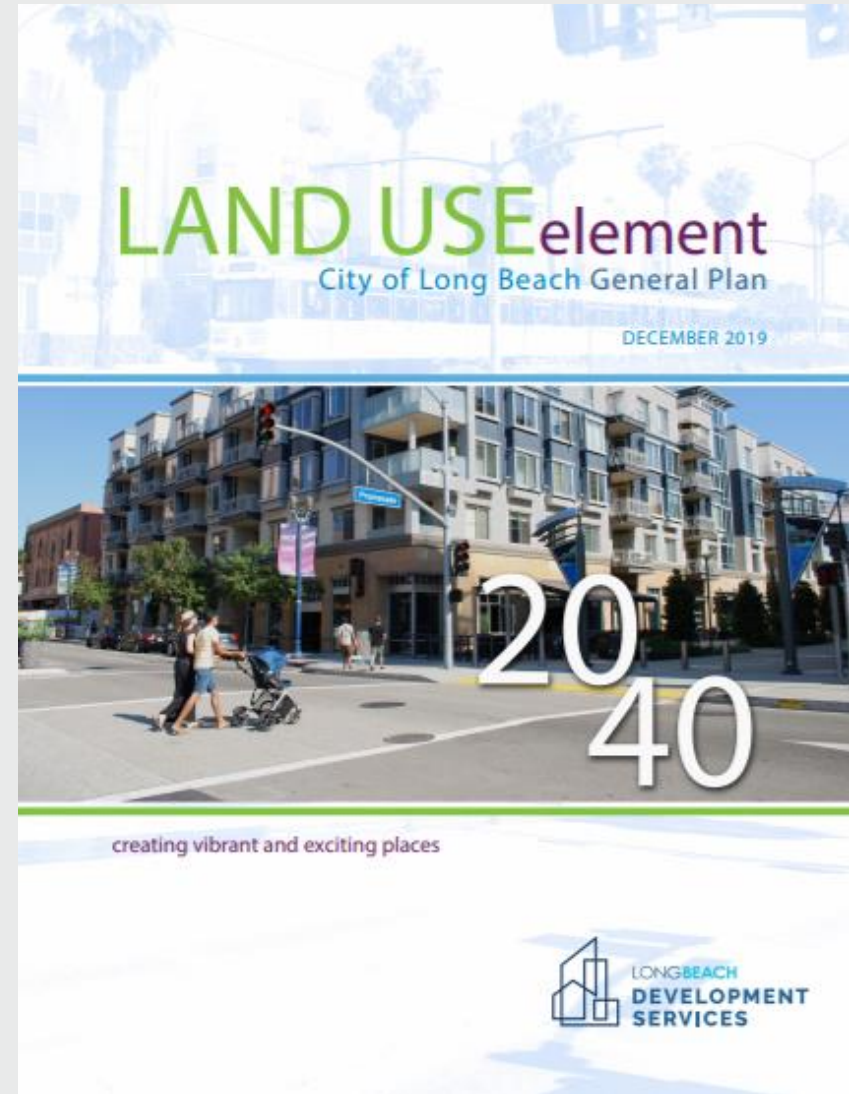
## Funding & Investment

- Integrate mitigation and adaptation considerations in the allocation of existing funds, specifically through the annual budget process and Capital Improvement Program
- Pursue new funding sources and identify other financing mechanisms



# CAAP Implementation – Development Services

- Update plans, policies, and codes for consistency with CAAP adaptation and mitigation objectives and actions
- Monitor GHG emissions toward reduction target
- Streamline CEQA analysis of future development projects



# CAAP – Preliminary Strategy & Approach

## Shorter-term

- Meet 2030 GHG Reduction Target
  - SCE Carbon Free Electricity & Green Rate Participation, Decrease Oil Production, Commercial Recycling and Organics, Municipal Renewable Electricity, Port Clean Trucks Program, Local Solar, Enhanced VMT Reduction for Light-Duty Vehicles
- Outreach & Engagement
  - Key 2030 Mitigation Actions: Commercial Recycling & Organics Diversion, SCE Green Rate, Solar
  - Key Adaptation Actions: Extreme Heat, Air Quality, Flooding and SLR to address safety and health
- Integrate CAAP into Annual Budget & CIP Process
- Key Program Areas
  - Green Jobs & Workforce Development
  - Climate Ambassador Program

# CAAP – Preliminary Strategy & Approach

## Longer-term

- Investments – Capital and programmatic investments prioritized in climate impacted communities
- Environmental Justice – Advancing EJ in City decision making, infrastructure, and operations
- Sea Level Rise – Planning for future of SLR impacted areas



# CAAP – Development Services Year 1 Look-Ahead

Interdepartmental  
Coordination

CAAP Dashboard

Outreach &  
Engagement

Integrate CAAP  
into CIP Process

Explore Funding  
Opportunities

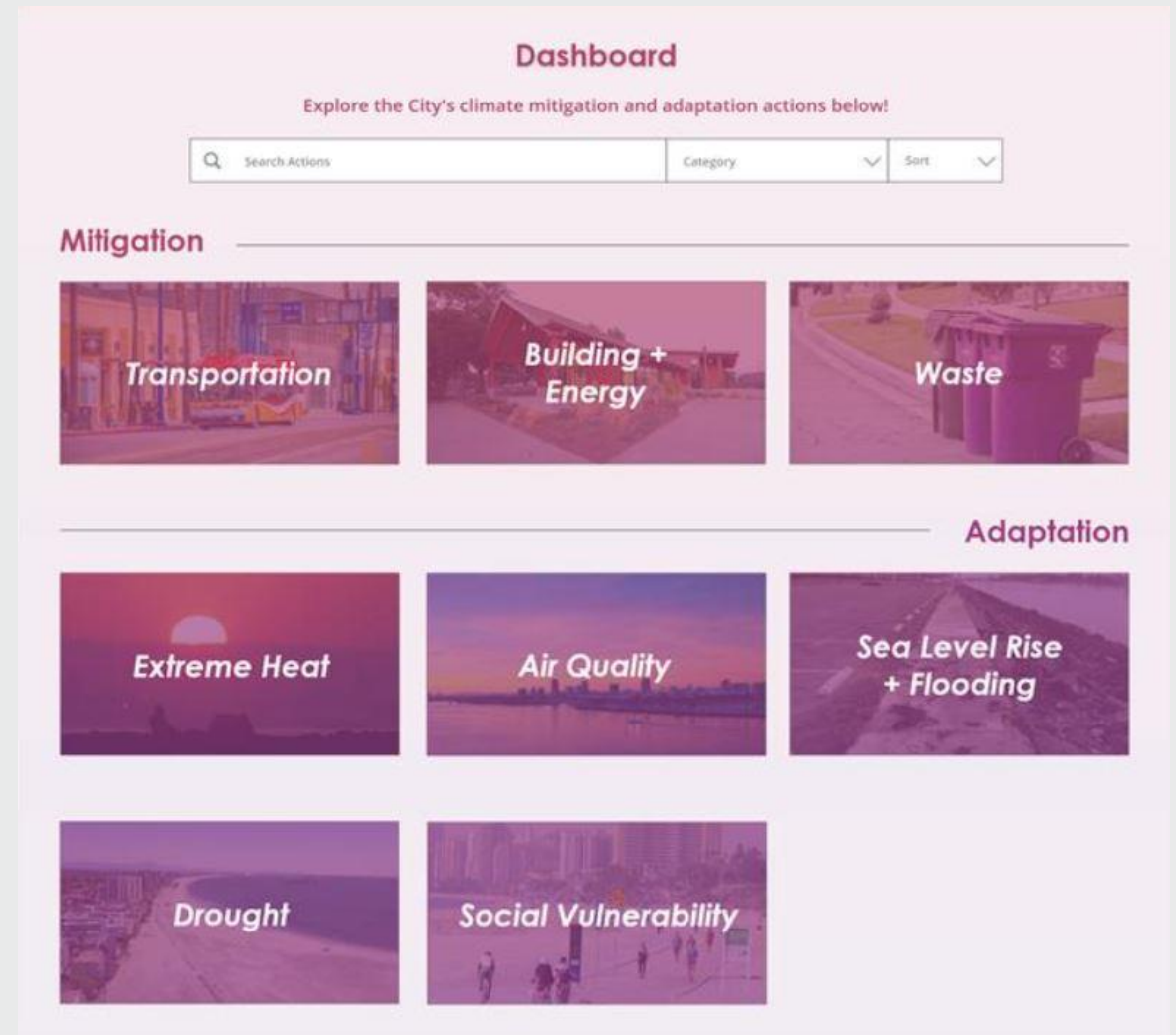
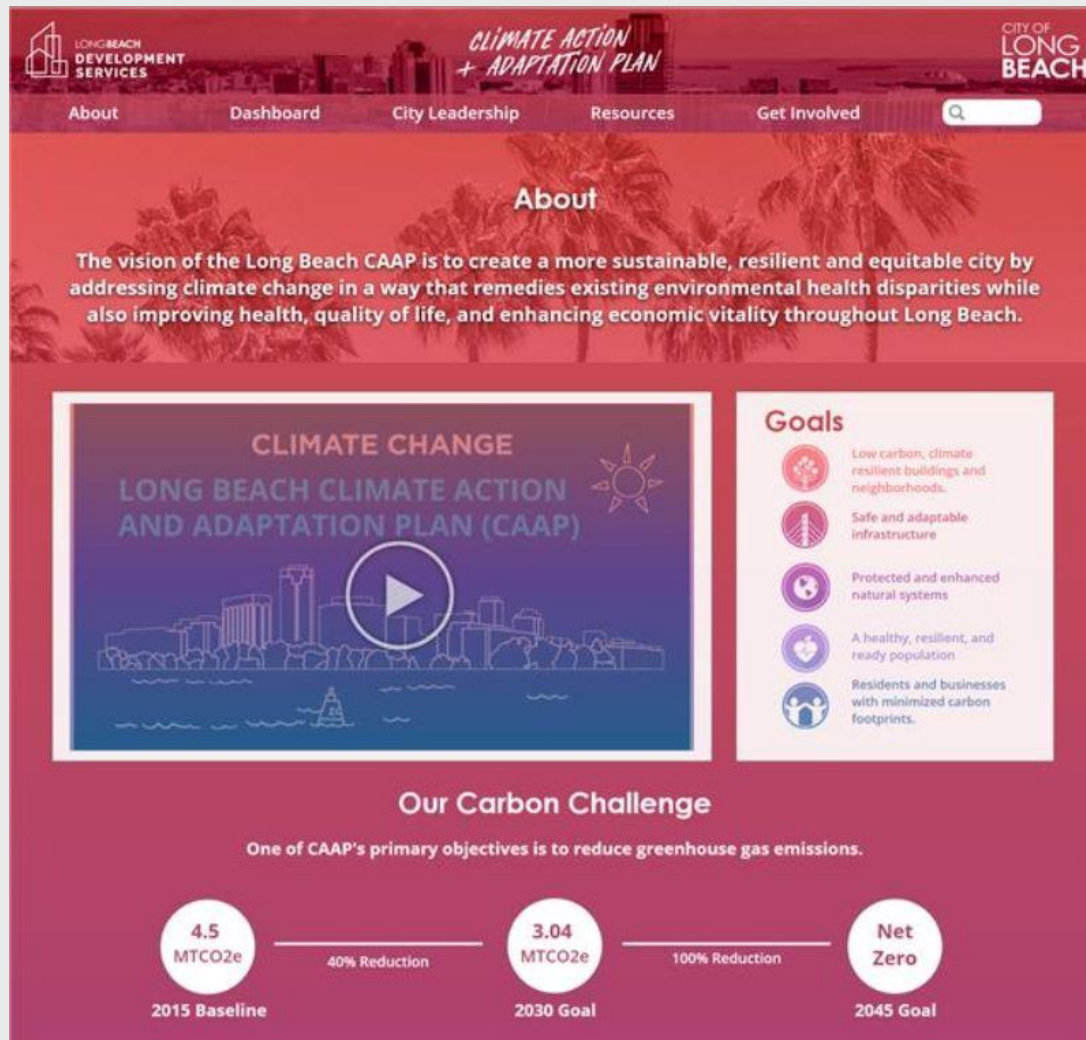
Key Focus Areas  
(Jobs & Climate,  
Extreme Heat, & Sea  
Level Rise)

# Interdepartmental Coordination

## Development Services continuing CAAP interdepartmental coordination to support implementation

- Gathering data for GHG monitoring and development of CAAP dashboard
  - Energy Resources, Office of Sustainability, Public Works (energy efficiency, waste, mobility), and others
- Incorporating CAAP mitigation & adaptation considerations into Facilities Condition Assessments (FCAs)
- Exploring opportunities for CAAP outreach to businesses and green job creation and workforce development
- Participating in Southern California Edison pilot partnership

# CAAP Dashboard





# Ongoing CAAP Education, Outreach and Engagement

## Internal Communication & Training

- Developing internal citywide communications and training framework to promote greater understanding of staff responsibilities and importance of cross-departmental collaboration

## Grow Public Awareness

- Grow public awareness of the CAAP and spur engagement to partake in the green economy by the public at large and local businesses in the green economy

## Develop Targeted Education & Outreach Campaigns

- Develop targeted education and outreach campaigns to raise awareness about individual actions the public can take to reduce GHG emissions and minimize climate impacts

## Collaborate with Educational Institutions on Climate Education

- Collaborate with LBUSD and other educational institutions to identify opportunities for strategic partnerships to incorporate climate education in curricula and to train the future workforce in green economy jobs

# Outreach & Engagement – Current Development Services Efforts

## Grow Public Awareness

- Developing a draft outreach and engagement plan for CAAP implementation, building on extensive community outreach conducted while developing the CAAP

## Develop Targeted Education & Outreach Campaigns

- Piloting targeted education and outreach to Businesses and Families
- Identifying additional potential partners and various communication mediums (e.g. transit ads, radio, etc.)

## Collaborate with Educational Institutions on Climate Education

- Reaching out to LBUSD and other educational institutions to identify opportunities to incorporate climate education in curricula and train workforce in green economy jobs

# CAAP Year 1 Look Ahead

## Integrate CAAP in Annual Budget CIP Process

- Facilities Condition Assessments
  - Collaborating with Public Works to integrate adaptation and mitigation considerations into Facilities Condition Assessments (FCAs) which will inform the Capital Improvement Plan (CIP)

## Explore Funding Opportunities

- Exploring coastal grant opportunities in collaboration with Public Works and Parks, Recreation & Marine
- Exploring environmental justice and other grant opportunities



# Key Focus Areas

## Jobs & Climate

- USC Capstone Study – green jobs and workforce development through CAAP

## Extreme Heat

- SCAG urban heat project in the Washington Neighborhood (Office of Sustainability)

## Sea Level Rise

- Sea Level Rise Forum by Aquarium of the Pacific & The Nature Conservancy
- Coastal grant opportunities



# Next Steps

- Preparing Subsequent Environmental Impact Report (EIR)
- Staff anticipates bringing the CAAP forward for adoption in Fall 2021



Thank you

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