



# CLIMATE ACTION PLAN

Presentation to the City of Manhattan Beach

December 19, 2017

# WHAT IS THE CLIMATE ACTION PLAN?

## Purpose

- Reduces Green House Gas Emissions
- **Visioning document for the City**
- Opportunity to secure funding for projects
- Can support other City policy and regulatory documents and administrative processes such as the City's General Plan update / Specific Plan updates, purchasing policies, strategic plans, etc.



# Background/Process

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- GHG Emission Inventory – Complete
- GHG Emission Targets 15% below 2005 by 2020 and 49% below 2005 by 2035– Council Adopted (2015)
- EECAP Chapter - Council Adopted (2015)
- Land Use & Transportation; Solid Waste; Urban Greening; and Energy Generation & Storage Chapters – Presented for Consideration of Council Adoption



# GREENHOUSE GAS INVENTORY

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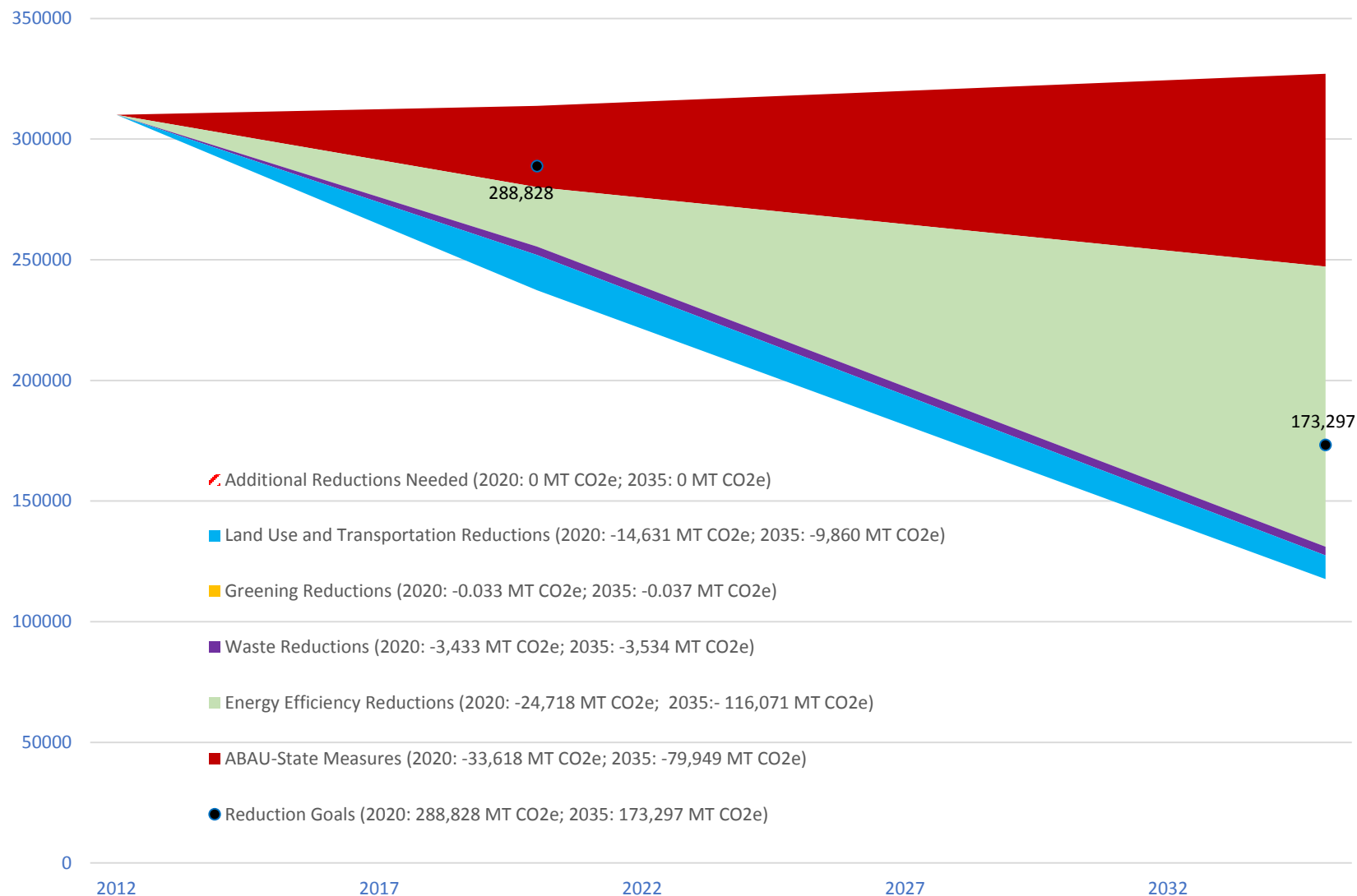
## City of Manhattan Beach Community Emissions Sources



# City of Manhattan Beach

## State and Local GHG Reductions Comparison with Targets 2012-2035\*

\*The baseline year is 2005. The chart is a snapshot of the emissions from 2012 to 2035



# EMISSION REDUCTION ACTION PLAN CHAPTERS

Each chapter describes City selected measures and related emissions reduction potential and associated co-benefits as well as City actions:



LU  
T

Land Use and Transportation



EE

Energy Efficiency



SW

Solid Waste



UG

Urban Greening



EG  
S

Energy Generation & Storage

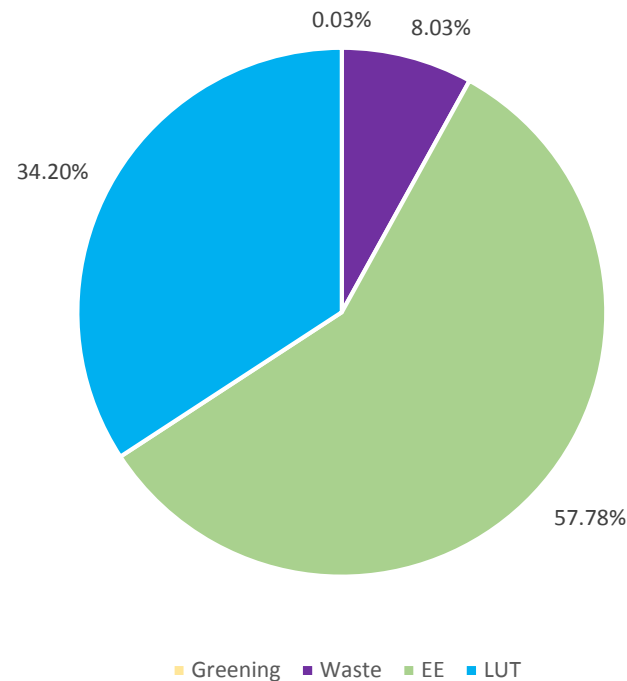
# Climate Action Plan Chapters

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## City of Manhattan Beach 2020 Emission Reduction Potential by Source

*(Note: not listed - Urban Greening as emissions reductions were insignificant and Energy Generation & Storage emission reductions as these measures are exploratory and were not quantified.)*

Manhattan Beach 2020 Potential GHG Reduction



# Climate Action Plan Chapters

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## City of Manhattan Beach 2020 Emission Reduction Potential

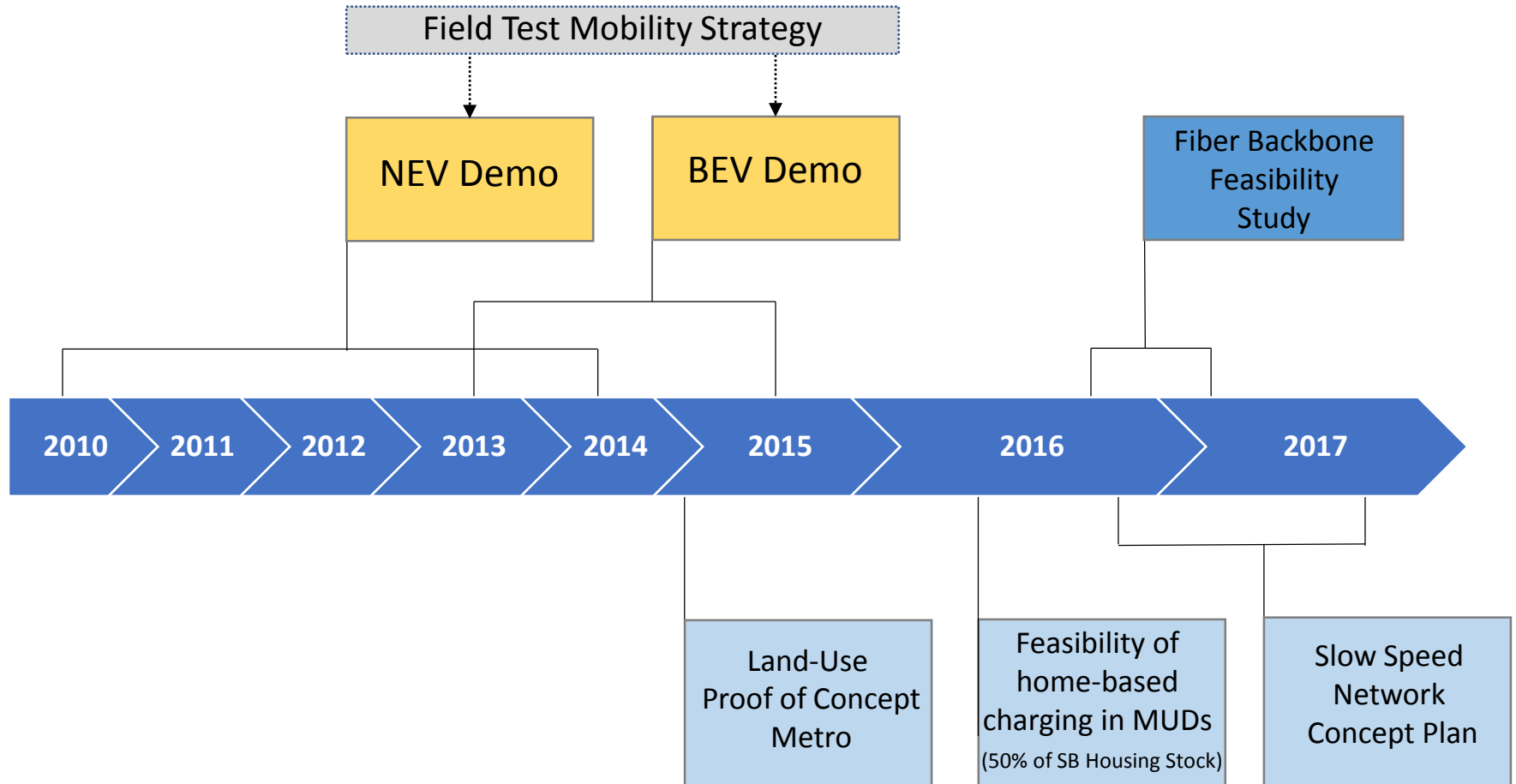
### **Goals, Measures, and Sub-strategies are:**

- Selected by the City in line with current programs and policies
- Visioning to inform future programs and policies that best match the needs of the City
- Identifies opportunities to Explore, Consider, and Investigate new or enhanced programs



# Sustainable South Bay Strategy

## SBCCOG SSBS - Research



# Sustainable South Bay Strategy

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As part of the CAP effort, the SBCCOG developed a unique suite of LUT strategies for the reduction of GHG emissions in the South Bay sub-region. The LUT measures referenced in this plan as selected by the City of El Segundo are strategies developed for two primary sources:

<b>California Air Pollution Control Officers Association -CAPCOA</b>	<b>Sustainable South Bay Strategies-SSBS</b>
Traditional CAP resources to assess emission reductions from GHG mitigation measures	South Bay Specific resource to assess emission reductions from local GHG mitigation measures
Published in August 2010	Developed over 12 years of extensive field research on mobility, zero emission vehicles and destinations
Developed by experts in the field with best available data at the time	
Strategies focus around Transit Oriented Development (TOD)	Strategies focus around Neighborhood Oriented Development (NOD)

# LAND USE AND TRANSPORTATION

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## Land Use and Transportation (LUT) Goals

- 8 Goals in this category with Measures classified under them
- Focused on reducing the demand for mobility and changing the way mobility is achieved



- A** Accelerate The Market For Electric Vehicles
- B** Encourage Ride-Sharing
- C** Encourage Transit Usage
- D** Adopt Active Transportation Initiatives
- E** Parking Strategies
- F** Organizational Strategies
- G** Land Use Strategies
- H** Digital Technology Strategies

# LAND USE AND TRANSPORTATION

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## Key Insights

- 34.02% of potential reductions

## Co-Benefits



Adaptation Strategy  
Support



Air Quality



Economy + Jobs



Energy  
Conservation



Public Health



Resource  
Conservation



Safer Streets



Transportation  
System  
Improvement

# SOLID WASTE

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## Solid Waste (SW) Goals:

- A. Increase Diversion and Reduction of Residential Waste
- B. Increase Diversion and Reduction of Commercial Waste
- C. Increase Diversion and Reduction of Commercial Waste
- D. Increase Diversion and Reduction of Overall Community Waste
- E. Reduce and Divert Municipal Waste



## Key Insights

- 3.21% of potential reductions

## Co-Benefits



Air Quality



Energy  
Conservation



Public Health



Resource  
Conservation



Safer Streets



# URBAN GREENING

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## Urban Greening (UG) Goals:

- A. Increase and maintain urban greening in the community
- B. Increase and maintain urban greening in municipal facilities



## Co-Benefits



Adaptation Strategy  
Support



Air Quality



Economy + Jobs



Energy  
Conservation



Public Health



Resource  
Conservation

# ENERGY GENERATION & STORAGE

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## Energy Generation and Storage (EG&S) Goals:

- A. Support Energy Generation and Storage in the Community



## Co-Benefits



Adaptation Strategy  
Support



Air Quality



Economy + Jobs



Energy  
Conservation



Public Health



Resource  
Conservation



Transportation  
System  
Improvement

# IMPLEMENTATION & MONITORING

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- Step 1:** Administration & Staffing – create a team or designate implementation coordinator
- Step 2:** Financing – review potential funding sources – grants
- Step 3:** Measure Implementation – incorporate GHG reduction measures into ongoing city policy development, planning, and operations
- Step 4:** Public Participation – engaging City residents and businesses
- Step 5:** Monitoring – on-going monitoring and reporting of GHG reduction impacts and their cost effectiveness to advise the City and help direct regular adjustments to the CAP

**The City can continue to receive assistance from the SBCCOG for their implementation monitoring efforts.**