

# CLIMATE ACTION PLAN (CAP) UPDATE

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**Public Workshop**

November 15, 2023



# WELCOME AND INTRODUCTIONS

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# Project Team

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# Workshop Agenda

- 1. Welcome**
- 2. CAP Update Presentation**
  - Overview of CAP Update
  - Greenhouse Gas Emissions: Inventory, Reduction, and Targets
  - Greenhouse Gas Reduction Pathways/Measures
- 3. Facilitated Small Group Discussions**
- 4. Summary of Input from Activities**
- 5. Questions and Comments**
- 6. Conclusion and Next Steps**

# OVERVIEW OF CAP UPDATE

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**The City of Solana Beach is developing an updated Climate Action Plan (CAP) that aims to reduce greenhouse gas (GHG) emissions in line with State targets.**

# Purpose of CAP Update

- **Build on Existing CAP**, which was adopted by the City Council in July 2017 and updated in February 2020.
- **Continue to make progress** toward reducing GHG emissions and
- **Evaluate targets** for GHG reduction, consistent with statewide targets.
- Reflect GHG reduction driven by **ongoing implementation** of GHG reduction measures in existing CAP.
- Utilize the **latest GHG inventory** data prepared by SANDAG.
- Incorporate measures that reflect current technologies, **updated policies and state mandates**.
- Develop potential **revised and/or new CAP measures** for GHG reduction.
- Integrate **social equity** into the climate planning process.

# Regional Decarbonization Framework (RDF)

- Identifies Pathways to Decarbonization
- Adapting and Applying RDF to Solana Beach
  - City actions
  - Actions by Residents
  - Actions by Organizations
- Pushing to Decarbonization as New Goal



# Components of the CAP

## What is changing?

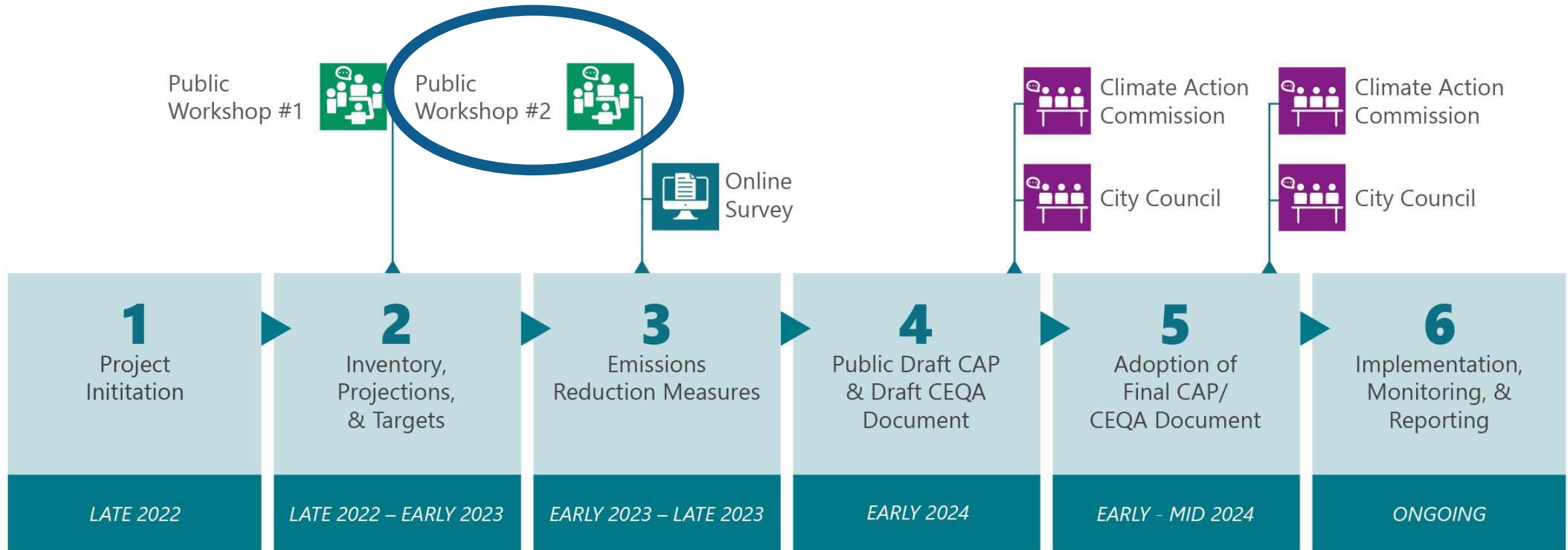
- Reflect progress to date
- Update forecast of future emissions
- Reorganization to parallel County's Regional Decarbonization Framework
- Refresh and modernization to reflect current conditions
- Emphasize equity

## What is up for discussion and decision?

- What targets should the City set for future GHG emissions?
- What measures should the City commit to in the CAP to reduce GHG emissions
- Should any of the adaptation strategies be changed?

# Schedule and Milestones

Current Step (November 2023)



# Public Input to Date

- Community priorities include:
  - Supporting installation of solar at homes and businesses
  - Energy efficiency and switching to electric appliances
  - Supporting electric vehicle adoption and charging equipment
  - Walking and biking to nearby destinations
  - Prioritizing native plants and trees
  - Reducing water use and increasing reuse
  - Increasing recycling and composting while reducing single use waste
- Input from the first workshop has been included in the updated GHG reduction measures

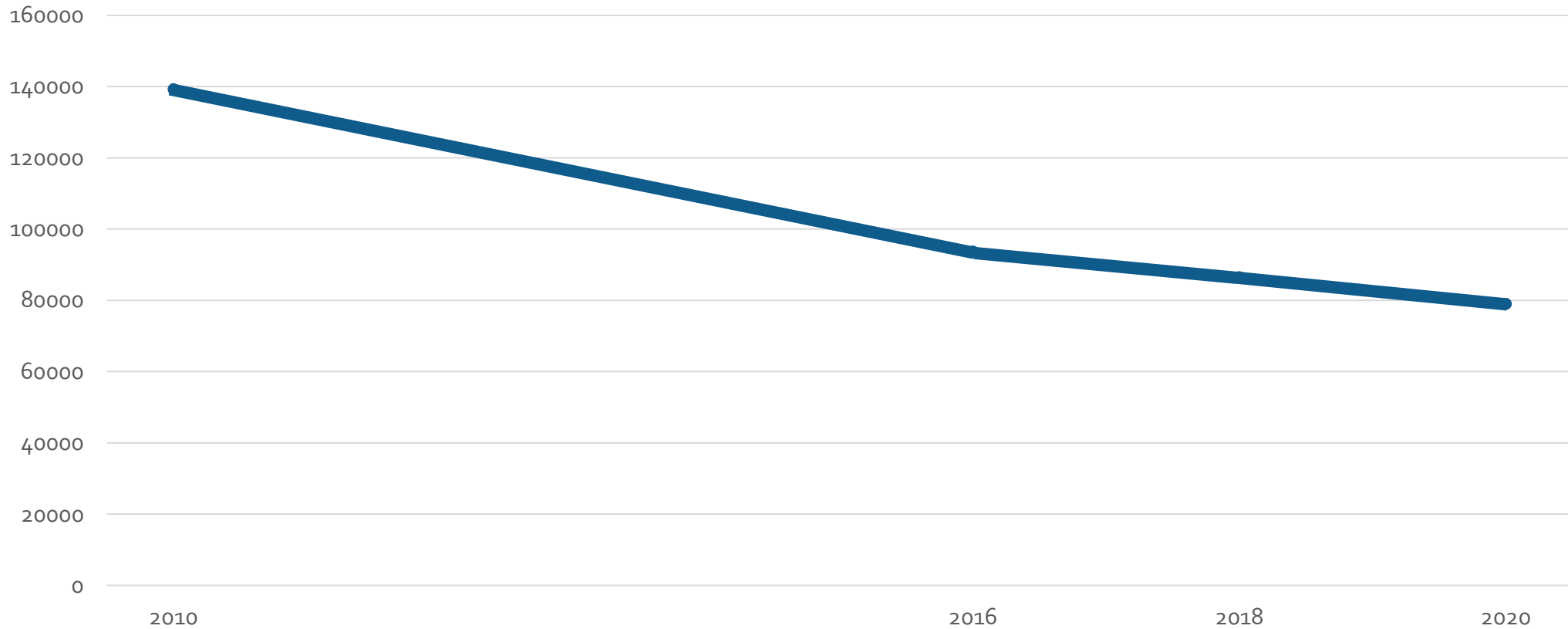
# GREENHOUSE GAS EMISSIONS

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Inventory, Projections, and Targets

# Total Citywide GHG Emissions

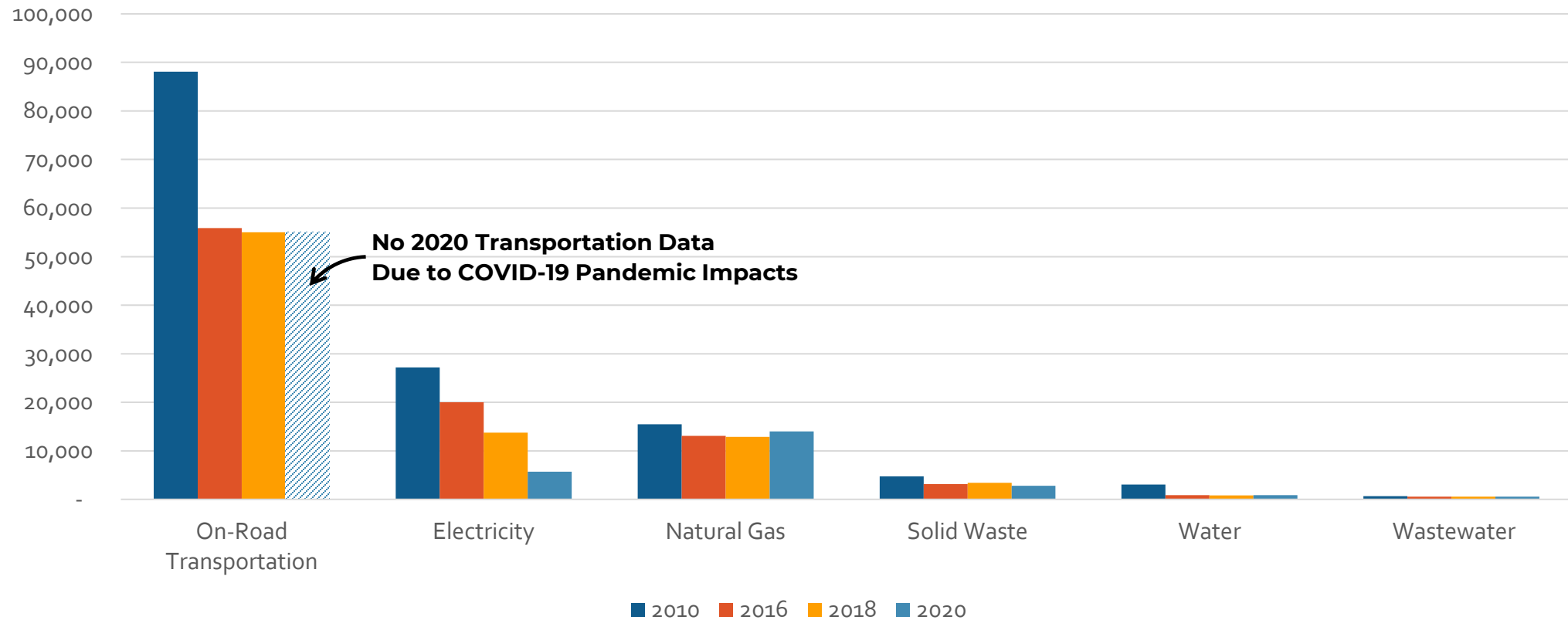
2010 - 2020



Source: Solana Beach 2017 Climate Action Plan, SANDAG, Energy Policy Initiatives Center University of San Diego

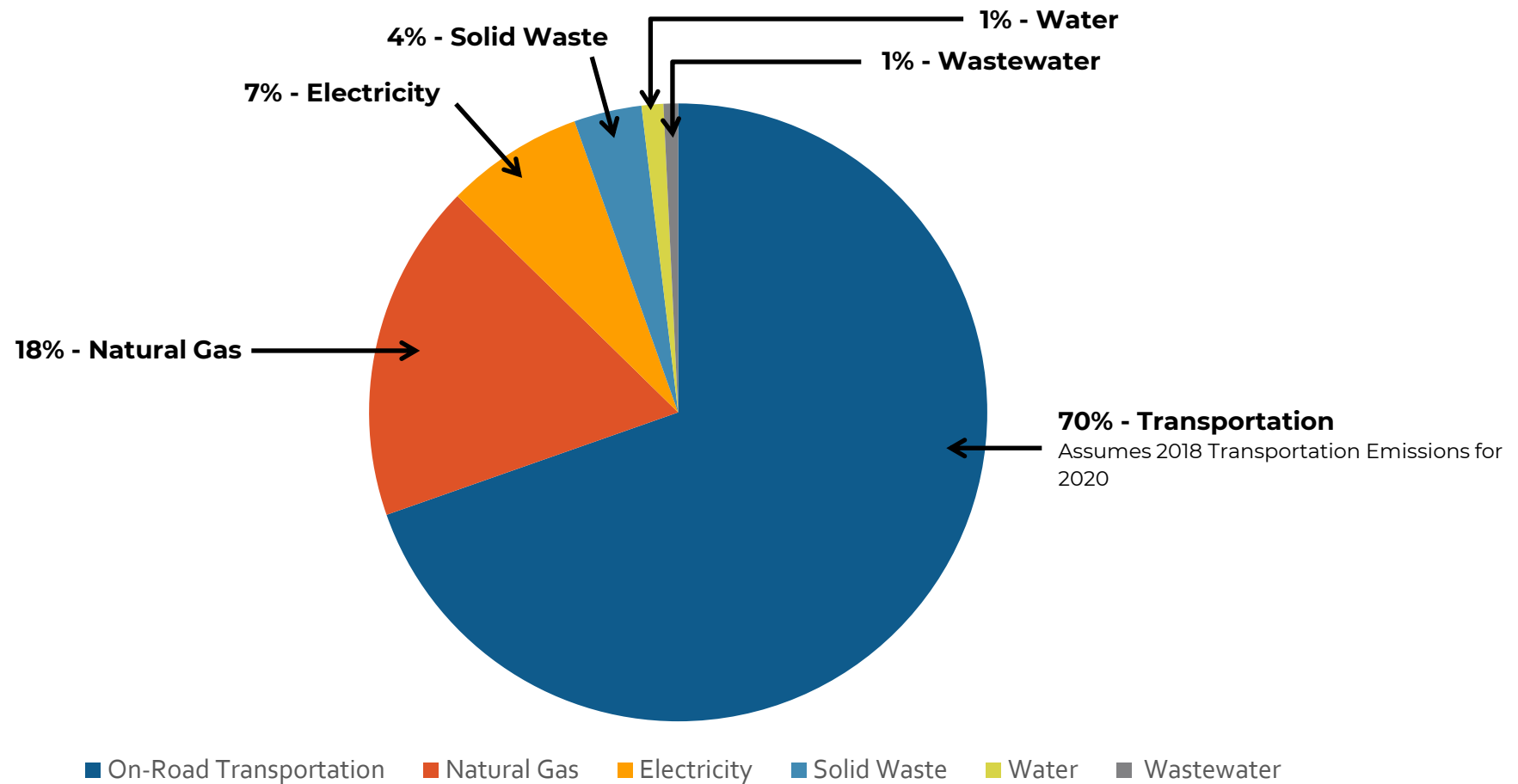
# GHG Emissions by Sector

2010 - 2020



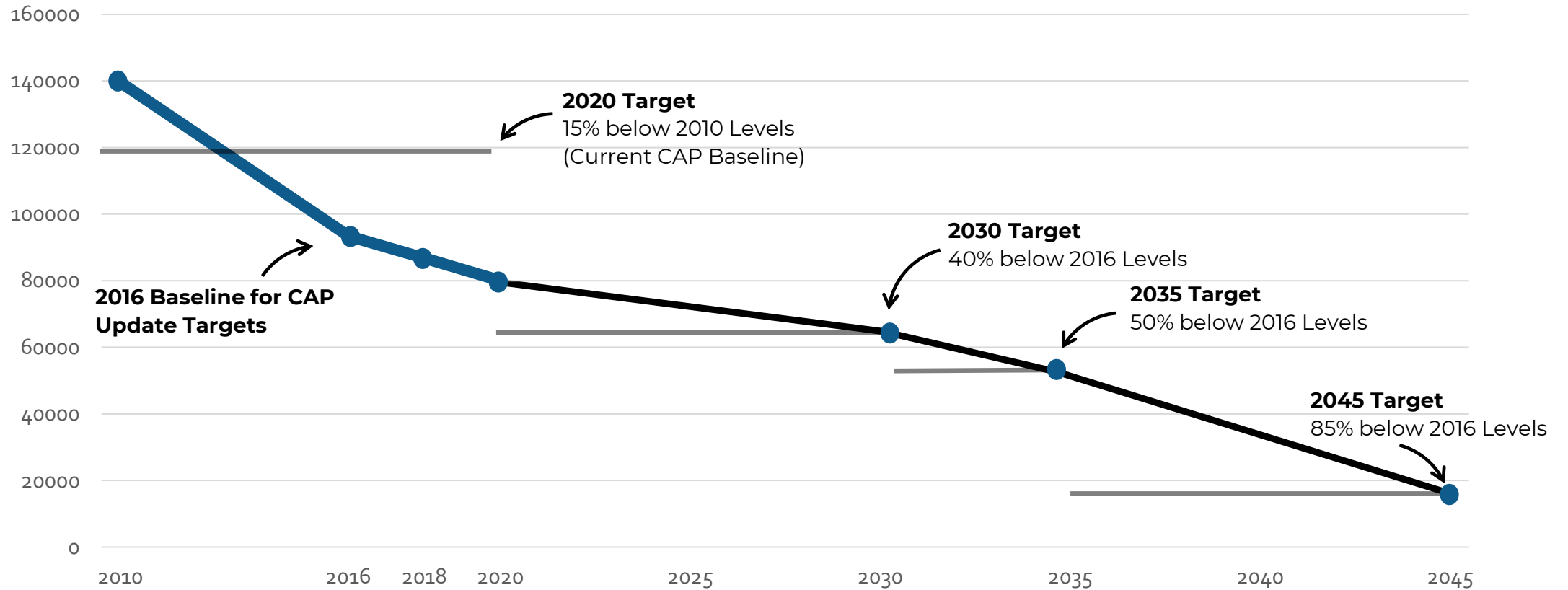
Source: Solana Beach 2017 Climate Action Plan, SANDAG, Energy Policy Initiatives Center University of San Diego

# 2020 Emissions by Sector



Source: Solana Beach 2017 Climate Action Plan, SANDAG, Energy Policy Initiatives Center University of San Diego

# Achieving Targets



Source: Solana Beach 2017 Climate Action Plan, SANDAG, Energy Policy Initiatives Center University of San Diego



# PROPOSED GHG REDUCTION PATHWAYS


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Strategy for Reaching the Targets

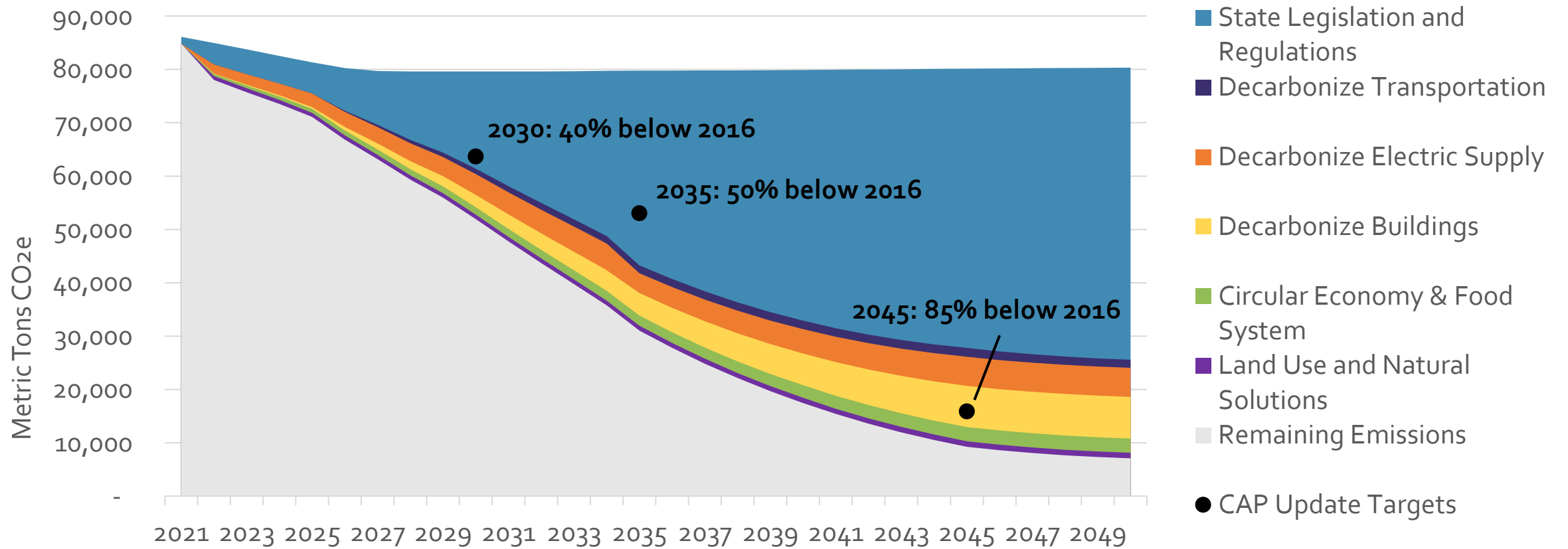
# Structure of Pathways



# GHG Reduction Pathways

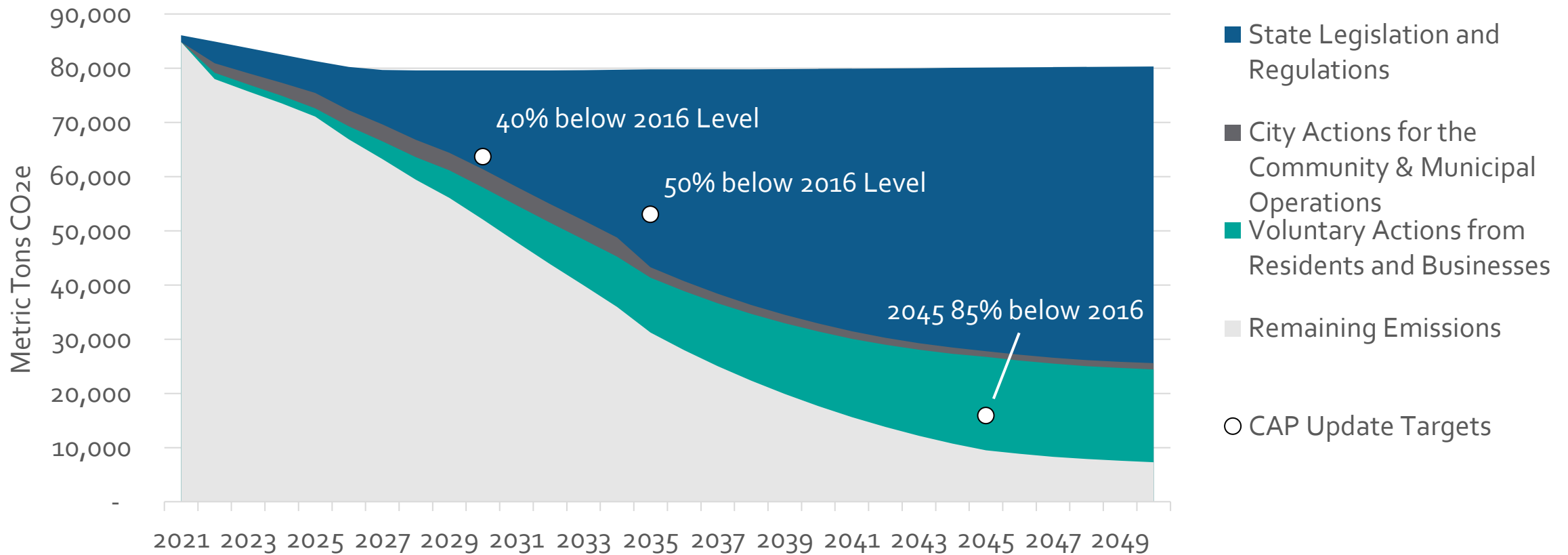
- Decarbonize Transportation 
- Decarbonize Electricity Supply 
- Decarbonize Buildings 
- Land Use and Natural Solutions 
- Circular Economy and Food Systems 

# Decarbonization by Emissions Pathway



Energy Policy Initiatives Center, University of San Diego 2023

# Decarbonization Pathway Mandatory and Voluntary Measures



Energy Policy Initiatives Center, University of San Diego 2023



# Decarbonize Transportation

<b>Measure</b>	<b>City Actions for Community and Operations</b>	<b>Voluntary Actions for Residents and Businesses</b>
Adopt a hybrid work schedule/virtual meeting policy	Provide incentives to the businesses to adopt a telecommute program	Work remotely 2 days per week
Use alternative modes for non-work trips	Expand pedestrian and bikeway network	Increase bike and walk trips
Provide intra-city electric shuttle	Expand transportation offerings such as e-shuttles and school buses	Use the intra-city electric shuttle



# Decarbonize Transportation (continued)

Measure	City Actions for Community and Operations	Voluntary Actions for Residents and Businesses
Safe Routes to School	Work with school districts to expand school bus options and provide bike, walk, and e-bike education programs	Walk/bike or take school buses as available
Increase electric vehicles and electric vehicle charging infrastructure	Promote the installation of at least 253 additional publicly-accessible charging stations by 2030	Purchase electric vehicles and install electric vehicle charging stations



# Decarbonize Electricity Supply

<b>Measure</b>	<b>City Actions for Community and Operations</b>	<b>Voluntary Actions for Residents and Businesses</b>
Increase to 100% renewable electricity citywide	Maintain all municipal electricity accounts at CEA's 100% renewable %	Opt-in Clean Energy Alliance (CEA)'s 100% renewable option
Increase installation of photovoltaics and battery storage	Promote solar and battery storage growth	Install rooftop solar system and battery storage





# Decarbonize Buildings

<b>Measure</b>	<b>City Actions for Community and Operations</b>	<b>Voluntary Actions for Residents and Businesses</b>
Implement energy efficiency measures	Consider an Energy and Water Building Benchmarking and Performance Standard for existing buildings	Replace end-of-life home appliances with energy efficient/EnergyStar options
Build all-electric new constructions	Implement Building Electrification Ordinance 529 for new construction	--
Replace gas appliances at end-of-life with electric appliances	Promote incentives to electrify gas appliances & equipment	Replace gas appliances at end-of-life with electric appliances



# Land Use and Natural Climate Solutions

<b>Measure</b>	<b>City Actions for Community and Operations</b>	<b>Voluntary Actions for Residents and Businesses</b>
Increase urban canopy cover	Provide free trees or incentives for trees for residents and commercial developments	Use native, climate-appropriate, low-water, and non-invasive trees and shrubs in landscaping



# Food Systems and Circular Economy

Measure	City Actions for Community and Operations	Voluntary Actions for Residents and Businesses
Divert solid waste from landfill	Require all events to be zero waste (e.g., use recyclable and compostable materials)	Reduce organic waste at home and install recycling and organic waste containers at business wherever trash containers are located

# PROVIDE YOUR INPUT


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# Group Discussion

- Learn about the proposed actions to reduce emissions under each pathway
- Printouts will guide discussion and provide reference to actions
- Facilitators will take notes and answer questions
- Each group will report back key themes at the end

City of Solana Beach  
Climate Action Plan Update  
Proposed Community and City Actions  
November 15, 2023



### 1 Decarbonize Electricity Supply

GHG Reduction Measures	Actions each group can undertake			
	Residents	Organizations/ Businesses	City (for Community)	City (Municipal Operations)
Increase to 100% renewable electricity citywide	Opt-in Clean Energy Alliance (CEA)'s 100% renewable option	Opt-in Clean Energy Alliance's 100% renewable option	Make CEA's 100% renewable option the default option for Solana Beach by 2035	Enroll all municipal electricity accounts to CEA's 100% renewable option by 2025
Increase installation of photovoltaics and battery storage	Install rooftop solar system and battery storage	Install rooftop solar system and battery storage	Promote the growth of rooftop PV in Solana Beach toward what is needed for >50% electric self-sufficiency Promote local incentives for energy storage (incl. cars & buses)	Complete an analysis to identify and evaluate opportunities to install renewable energy generation and energy storage projects at municipal facilities, including parking lots

# KEY DISCUSSION QUESTIONS

1. Would you take these actions?
2. Do you see potential barriers to access and implementation?
3. Is anything missing that you would like to see?

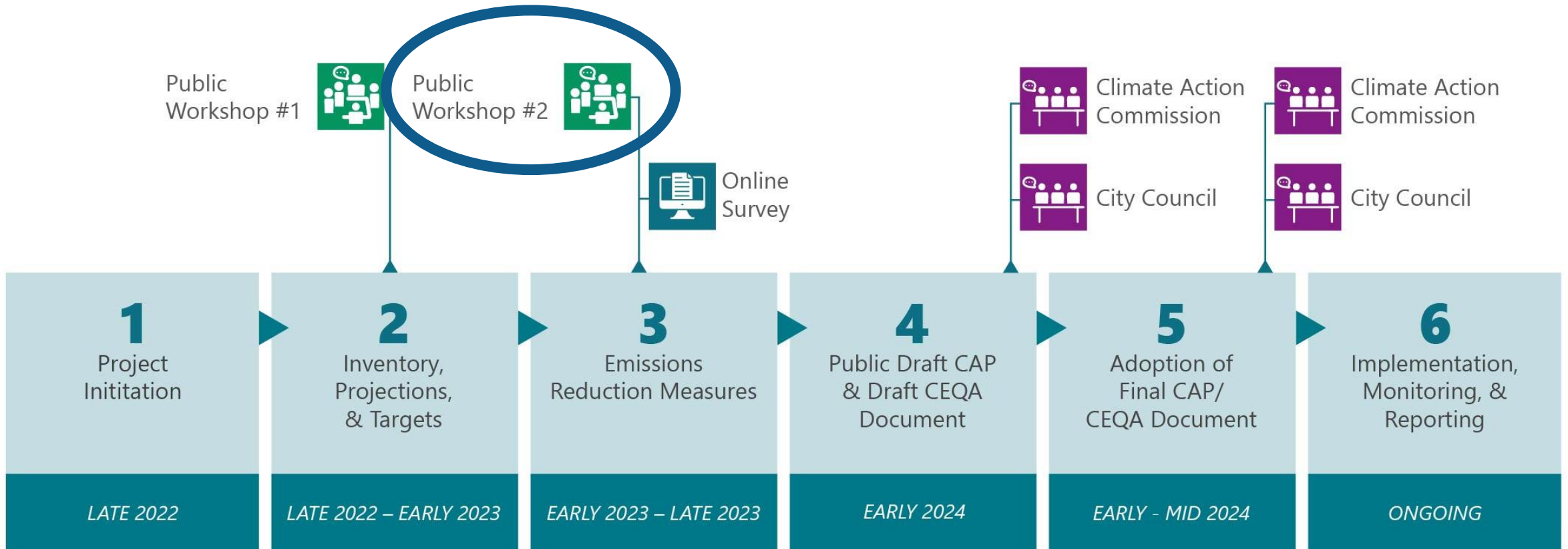
# CONCLUSION AND NEXT STEPS

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# Schedule and Milestones

Current Step (November 2023)





# THANK YOU!

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