



Sunnyvale

# Climate Action Playbook Amendments & Draft Game Plan 2028

## City Council Study Session

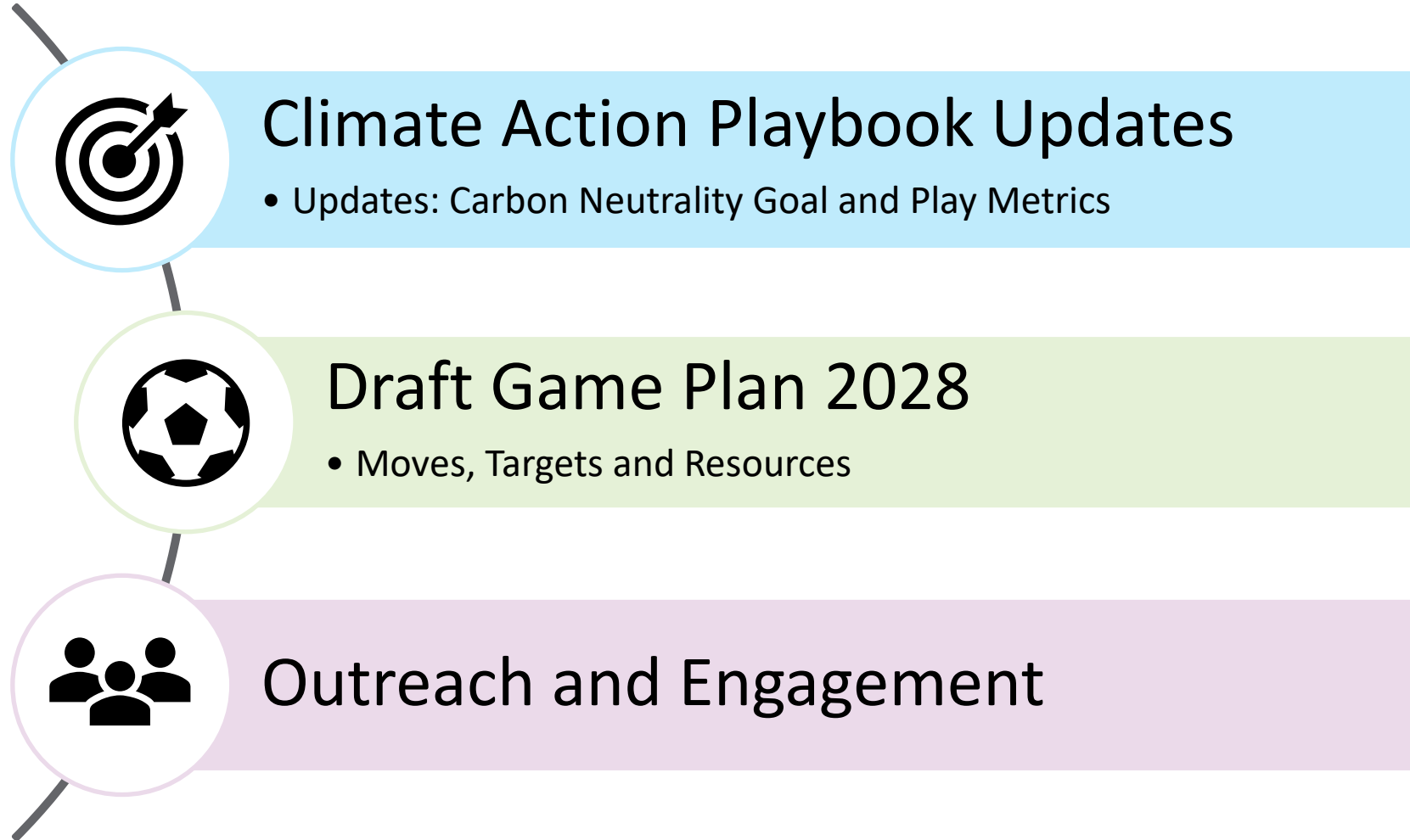
October 10, 2023

*Environmental Services Department*



# Agenda

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# Climate Action Playbook Updates

# Sunnyvale's Climate Action Playbook



# Six Playbook Strategies for the Win!



PROMOTING CLEAN  
ELECTRICITY



DECARBONIZING  
BUILDINGS



DECARBONIZING  
TRANSPORTATION &  
SUSTAINABLE LAND USE



MANAGING RESOURCES  
SUSTAINABLY



EMPOWERING OUR  
COMMUNITY

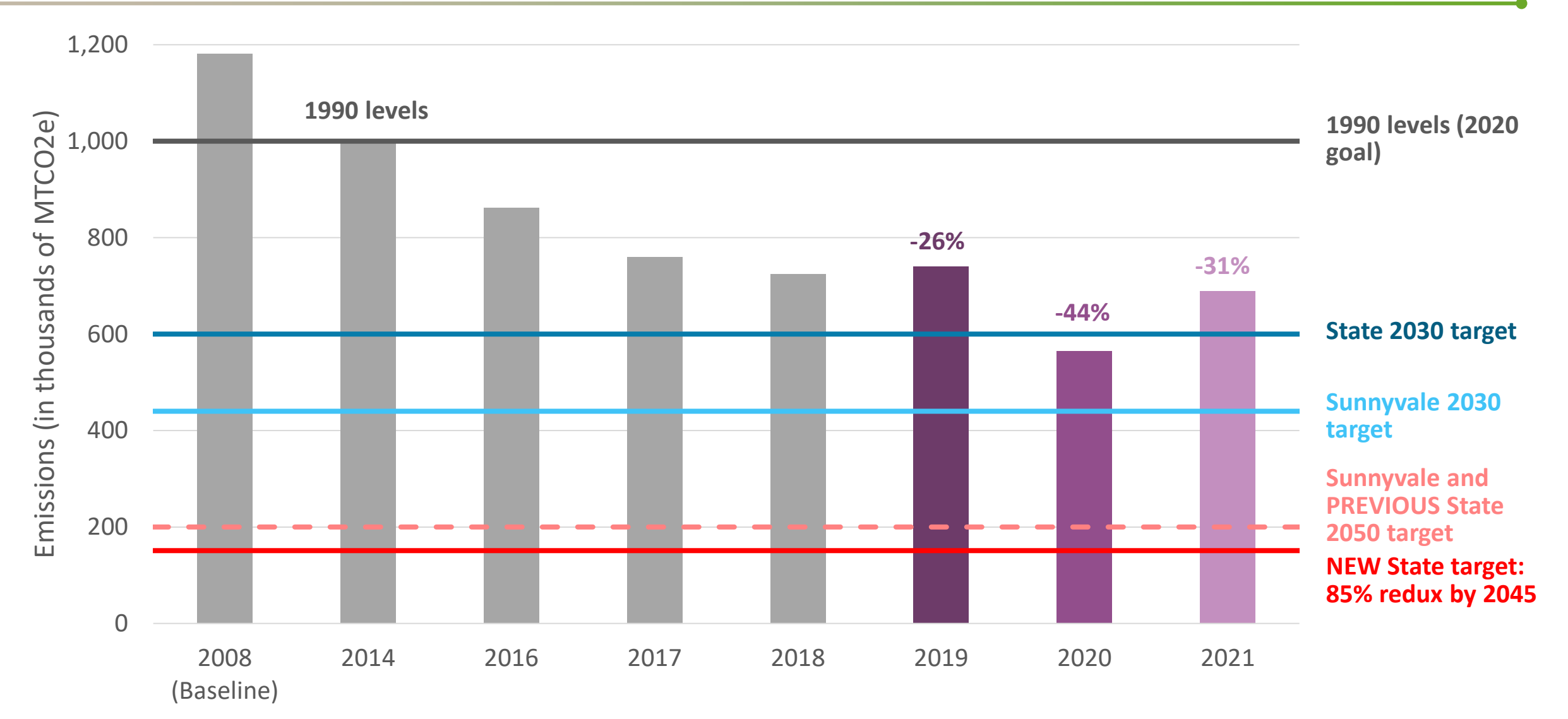


ADAPTING TO A  
CHANGING CLIMATE

# How the Playbook is Organized

|                                                                                                                                  |                                                                                                                         |                                                   |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
|  <b>Strategy 1: Promoting Clean Electricity</b> |                                                                                                                         |                                                   |
| Play 1.1: Promote 100% Clean Electricity                                                                                         |                                                                                                                         |                                                   |
| <i>Metric: % Participation in Clean Electricity</i>                                                                              |                                                                                                                         | <div>2030<br/>100%</div> <div>2050<br/>100%</div> |
| Move 1.A                                                                                                                         | Continue to support and steer Silicon Valley Clean Energy (SVCE) in providing clean power and decarbonization programs. |                                                   |

# Community-wide GHG Emissions



# Why Do we Need to Amend the Playbook?

## State's New Carbon Neutrality Target

- From 80% by 2050 to 85% by 2045

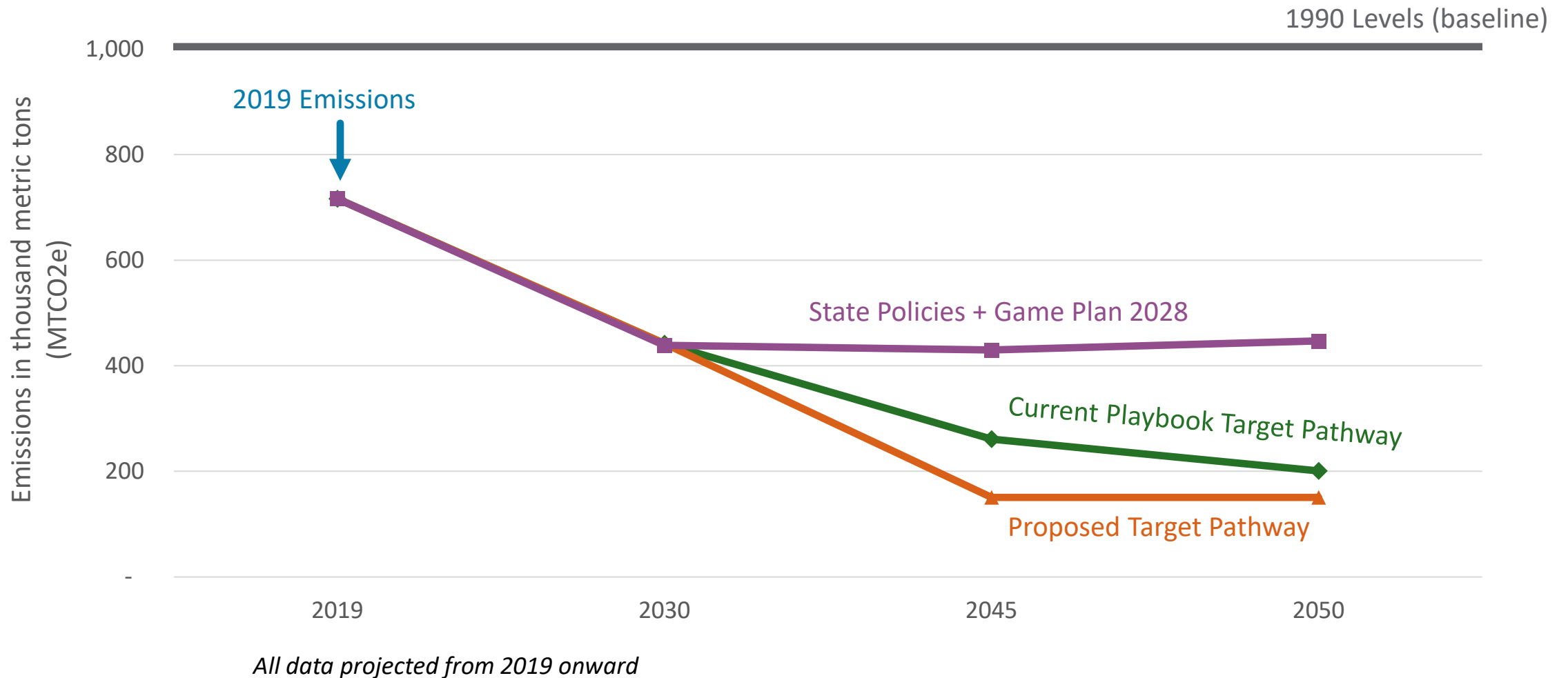
## CEQA Streamlining Requirements

- Requires alignment to State 2045 target
- Provides CDD with checklist to streamline CEQA GHG evaluation

## Updated forecasts for 56% by 2030

- New Play Metrics
- Addition of Play 3.4: Decarbonize off-road equipment and vehicles

# Drivers for Playbook Amendments



# Updated Playbook Metrics

|                                                                                                                                                            | 2030      | 2045      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|
|  <b>Strategy 1: Promoting Clean Electricity</b>                           |           |           |
| % Participation in Clean Electricity                                                                                                                       | 100%      | 100%      |
| % Electric Load from Solar                                                                                                                                 | 3%        | 5%        |
| % Electricity Demand in Local Battery Storage                                                                                                              | 2%        | 5%        |
|  <b>Strategy 2: Decarbonizing Buildings</b>                               |           |           |
| % Reduction in Residential Natural Gas Use *                                                                                                               | 44%       | 92%       |
| % Reduction in Non-residential Natural Gas Use *                                                                                                           | 38%       | 86%       |
| % All-electric New Buildings                                                                                                                               | 100%      | 100%      |
|  <b>Strategy 3: Decarbonizing Transportation and Sustainable Land Use</b> |           |           |
| % Reduction in Vehicle Miles Traveled (VMT) per person                                                                                                     | 10%       | 15% (25%) |
| % On-road Zero Emission Vehicle Adoption                                                                                                                   | 42% (25%) | 90% (75%) |
| % Off-road Zero Emission Equipment Adoption *                                                                                                              | 30%       | 75%       |
|  <b>Strategy 4: Managing Resources Sustainably</b>                      |           |           |
| % Reduction in Landfill Organics *                                                                                                                         | 75%       | 75%       |
| Reduce Landfilled Garbage (Pounds per person per day)                                                                                                      | 1 lb      | < 1 lb    |

## Notes:

\* (orange) New or Updated Metric with Target

% (green) Target increased from last Playbook

% (blue) Target reduced from last Playbook

Previous target in parenthesis

# Discussion



Does Council support updating Sunnyvale's carbon neutrality target to 85% by 2045?

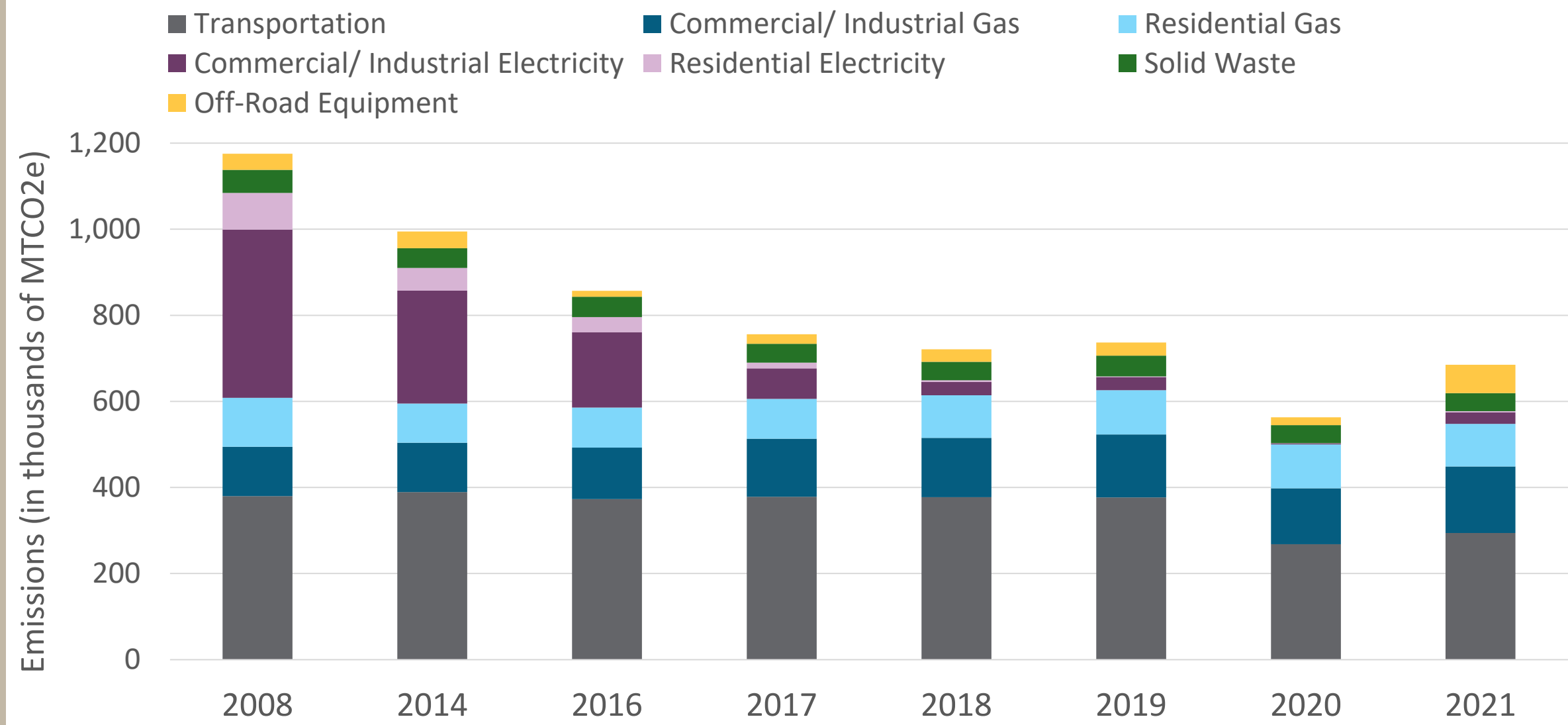
Includes Addition of Play 3.4 (Off-road Equipment) and Updated Metrics



Does Council support updating the Playbook to be qualified for CEQA streamlining purposes?

# Draft Game Plan 2028

# Communitywide GHG Emissions Over Time



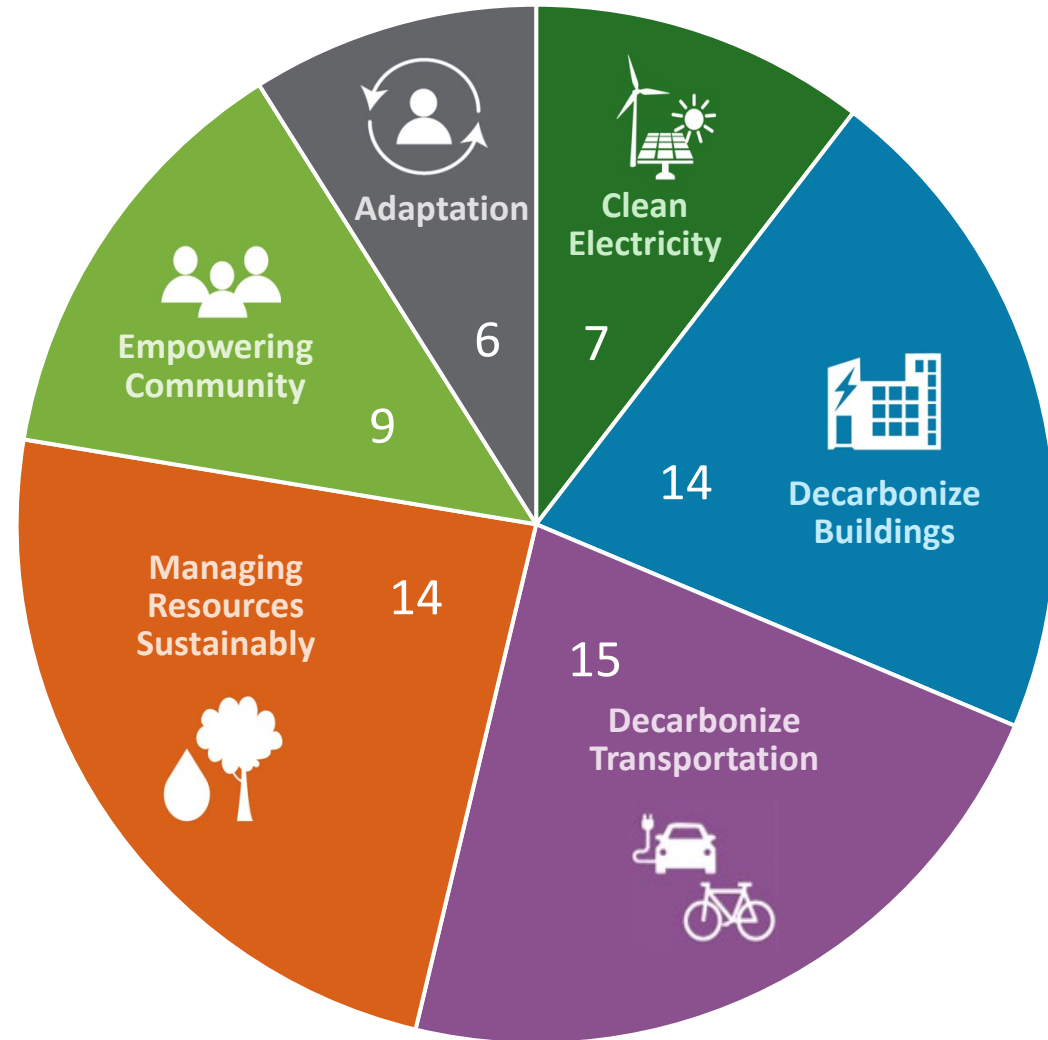
# Draft Game Plan 2028

65 total Moves

5 years (FY 23/24 – FY 27/28)

33 returning

32 new



# Draft Game Plan 2028 New Moves Include...



## Existing Building Electrification

- Studies
  - Residential
  - Commercial
- Ordinances
  - Residential by 2026
  - Commercial by 2026
- Incentives and Support Programs

### 2030 Target:

44% reduction in residential natural gas consumption  
38% reduction in commercial natural gas consumption





# Enhancing Transportation Demand Management

- Enhance City Transportation Demand Management (TDM) program
- Create a TDM program for City staff
- Require employers with 1,000 employees and more to develop TDM Plans

## 2030 Target:

10% reduction  
in Vehicles  
Miles Traveled  
(VMT) per  
person





## Accelerating ZEV Adoption

### 2030 Target:

42% ZEV adoption on-road

30% ZEV adoption off-road

- Goal of ~3,000 publicly available chargers in Sunnyvale
- Incentive and Support programs
- Ordinance for small off-road equipment





# Achieving Zero Waste

- Reusables Pilot Program
- Edible Food Recovery
- Reduce organic waste disposal 75% by 2025

2030 Target:

Reduce landfilled garbage  
to 1 lb/person/day





## Ensuring Resilient Water Supply

- Water Conservation as a Way of Life
- Dual plumbing
- Reducing irrigation of ornamental turf

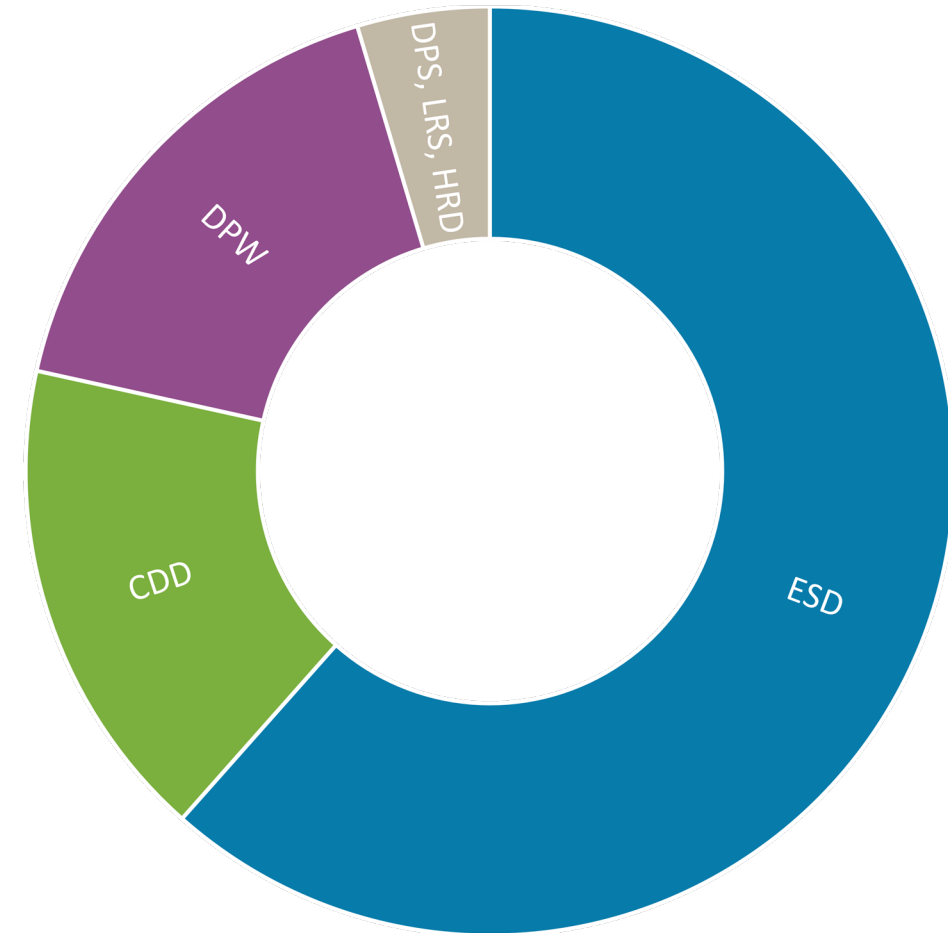
2030 Target:

To be set by State



# Draft Game Plan 2028 Proposed Moves by Department

|            | LEADS | SUPPORTS |
|------------|-------|----------|
| CDD        | 11    | 7        |
| DPS        | 1     | 2        |
| DPW        | 11    | 7        |
| ESD        | 40    | 6        |
| FIN        | 0     | 3        |
| HRD        | 1     | 0        |
| LRS        | 1     | 4        |
| OCM (Econ) | 0     | 4        |
| TOTAL      | 65    |          |



# Draft Game Plan 2028 Proposed Moves by Dept

***For consideration in FY 24-25 Operating Budget Process***

## Ongoing Costs

- Approximately 5 new staff across 3 departments (~\$1 million annually)

## One-Time Costs

- ~\$2.5 million over 4 years

# Outreach and Engagement Plan

# Game Plan Development Timeline



## Drafting Plan

10/10 – 10/27

- Incorporate Council feedback and direction,
- Prepare documents for public release
- Finalize Community Engagement plan



## Community Engagement

10/30 - 12/16

- Commissions Joint Study Session TBD (Nov)
- 4 community workshops + online survey



## Final Adoption

February – May 2024

- Final review from Directors and City Manager
- Commissions and City Council for approval
- Resources approved with budget

# Outreach and Engagement

October 30 – December 16

Hybrid



Business Workshop



Existing Meetings

Online



Community Workshop #1



Existing Meetings

In Person



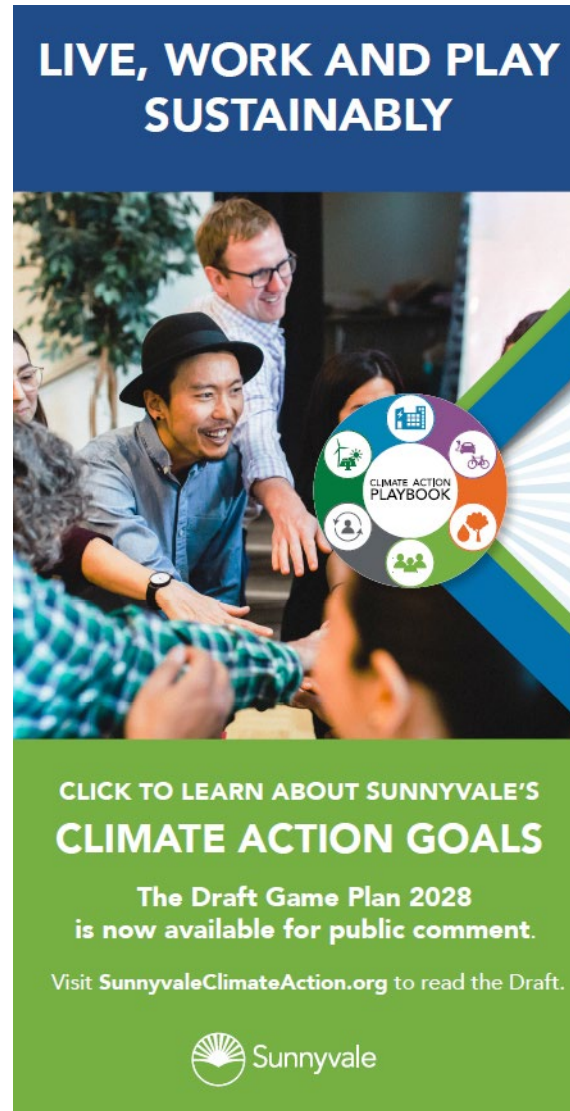
Youth Workshop



Community Workshop #2

# Outreach and Engagement

- In-person tabling
- Web and social media
- Direct engagement
- Advertising
- News
- Regional partnerships



# Discussion



Council's initial feedback on the Draft Game Plan 2028 Moves



Council's feedback on the Outreach and Engagement plan



Would Council like staff to return for a Study Session prior to adoption hearing?



Thank You!