



city of
CUPERTINO

Climate Action Plan Workshop 2

June 4th, 2014
Kirsch Center for Environmental Studies
De Anza College
6pm

Agenda

- Welcome
- Workshop 1 Recap & CAP Measure Overview
- Small Group Exercise
- Report Back
- Next Actions

Workshop 1 Review: Why a CAP?

Address Requirements

Partner Regionally

Achieve Local Goals

Reduce Costs

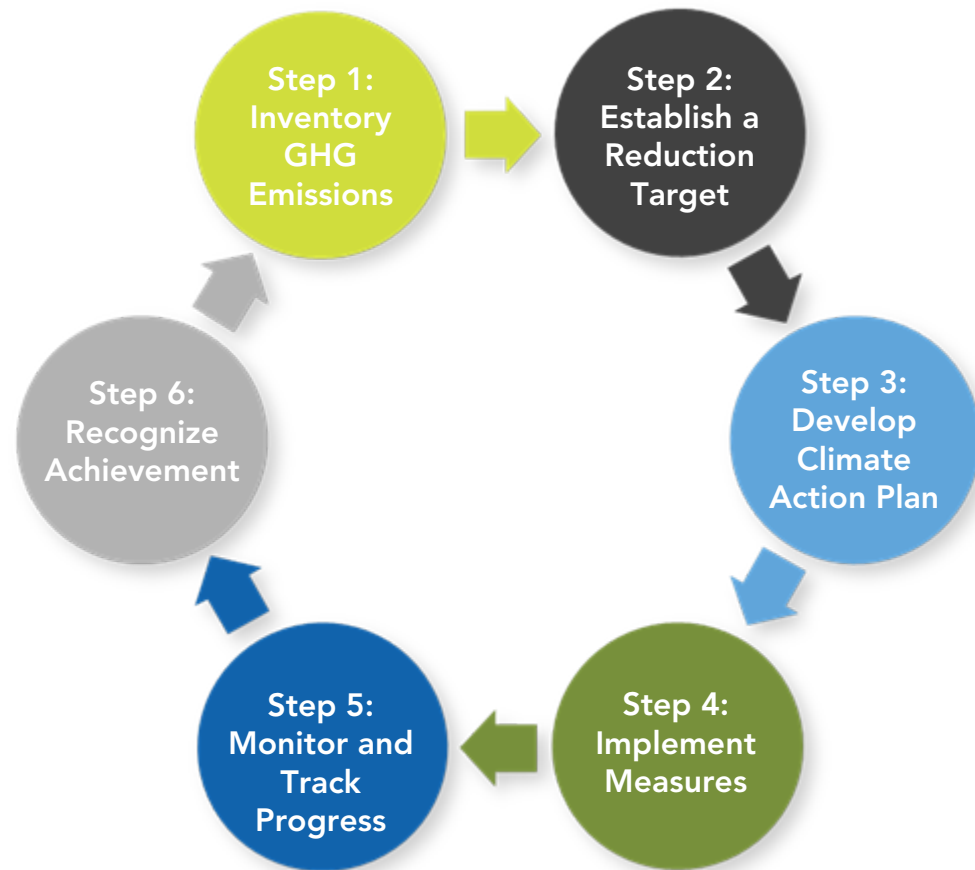
Clean Air & Water

Improve Quality of Life



Workshop 1 Review: What's a CAP?

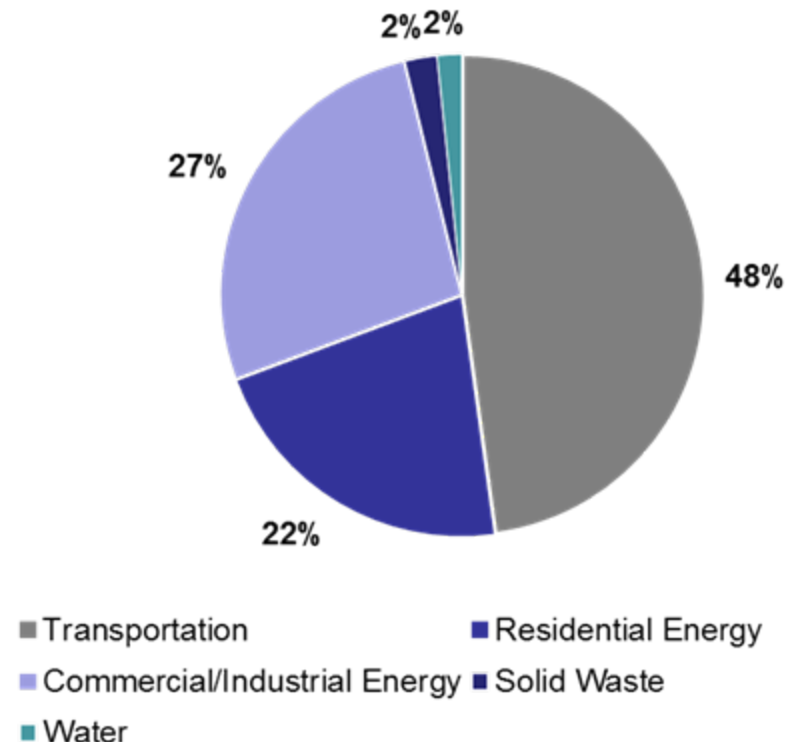
- Baseline and projected emissions inventories
- Reduction target
- Reduction strategies and reduction estimates
- Implementation and monitoring framework



Workshop 1 Review: Cupertino CAP

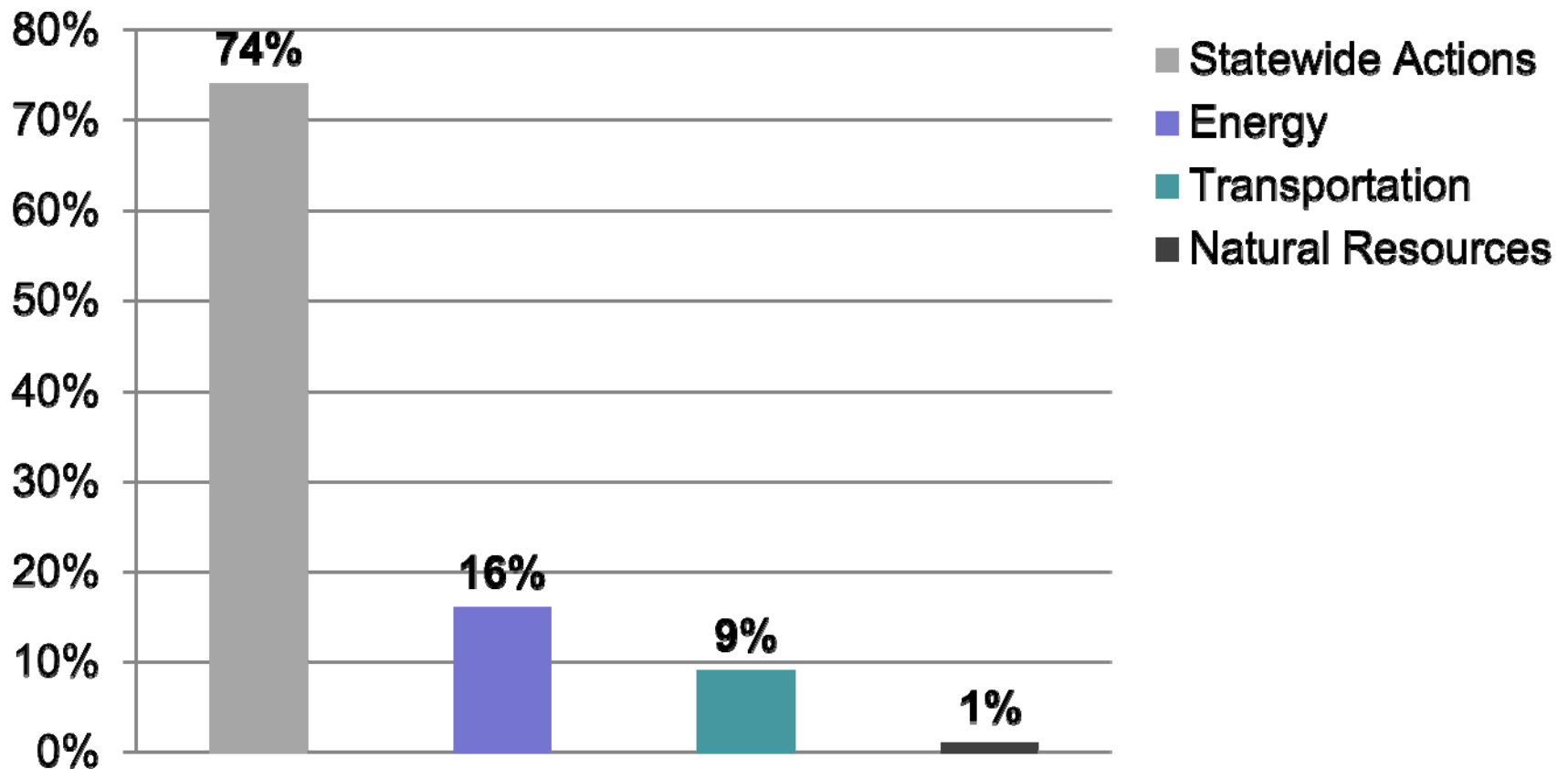
- Started with best management practice list used throughout California and internationally
- Compared list against City's existing policies, programs
- Identified opportunities to expand existing actions or develop new ones
- Calculated rough estimate of reduction potential to see if CAP is on right track

Cupertino 2010 Emissions Inventory - Baseline



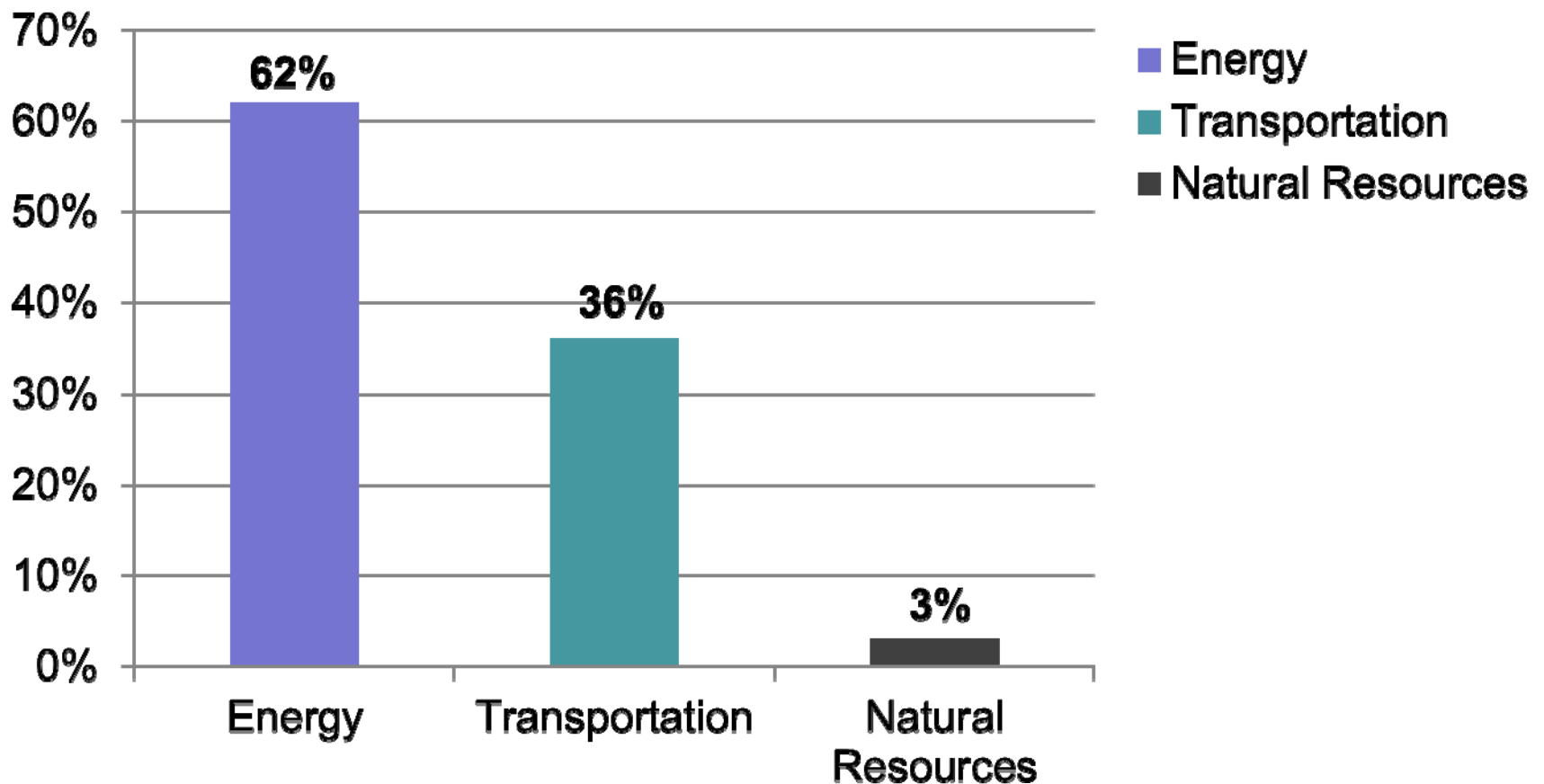
Emissions Reductions by Sector

Total Reduction Potential



Emissions Reductions by Sector

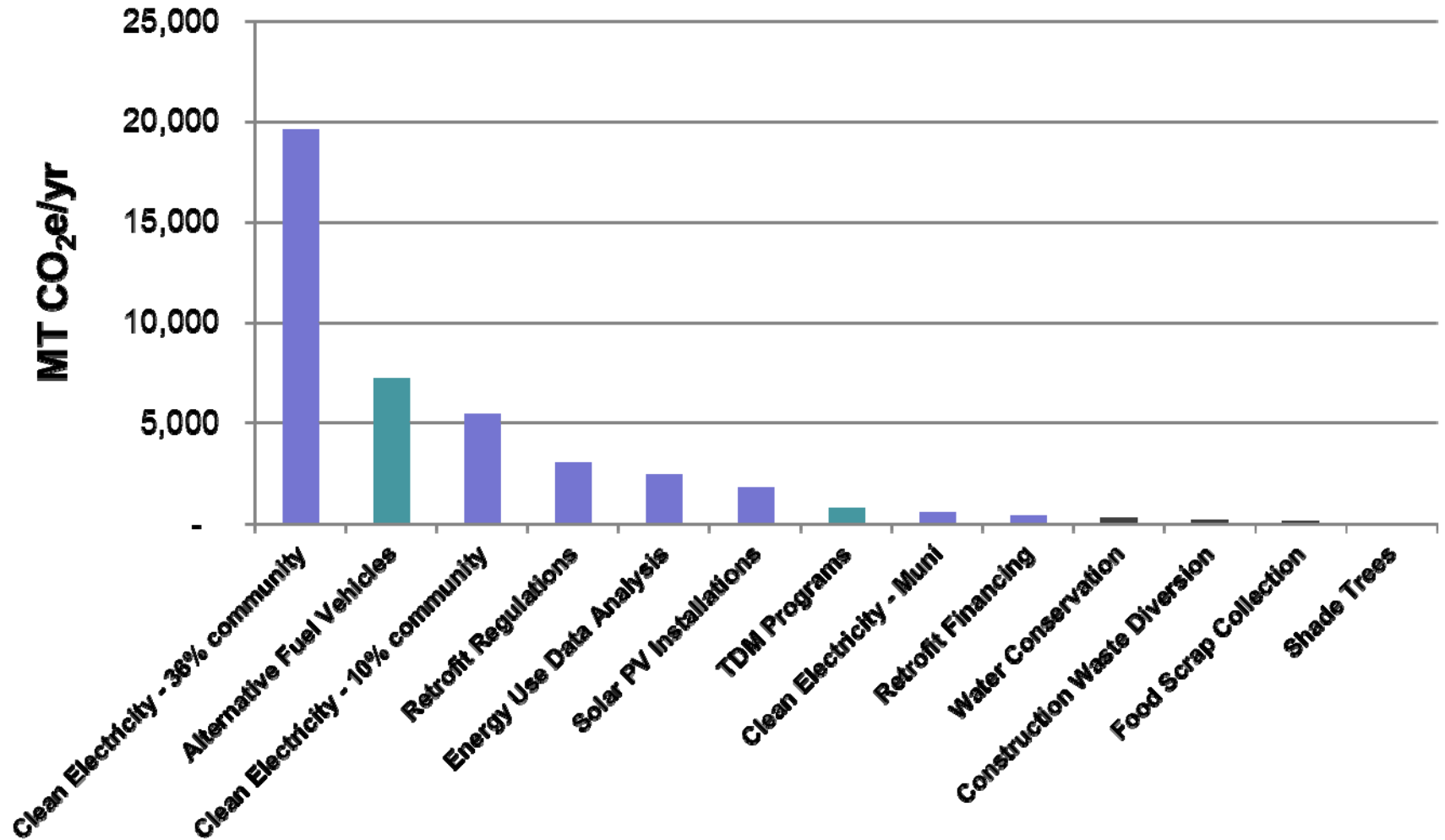
Local CAP Reductions



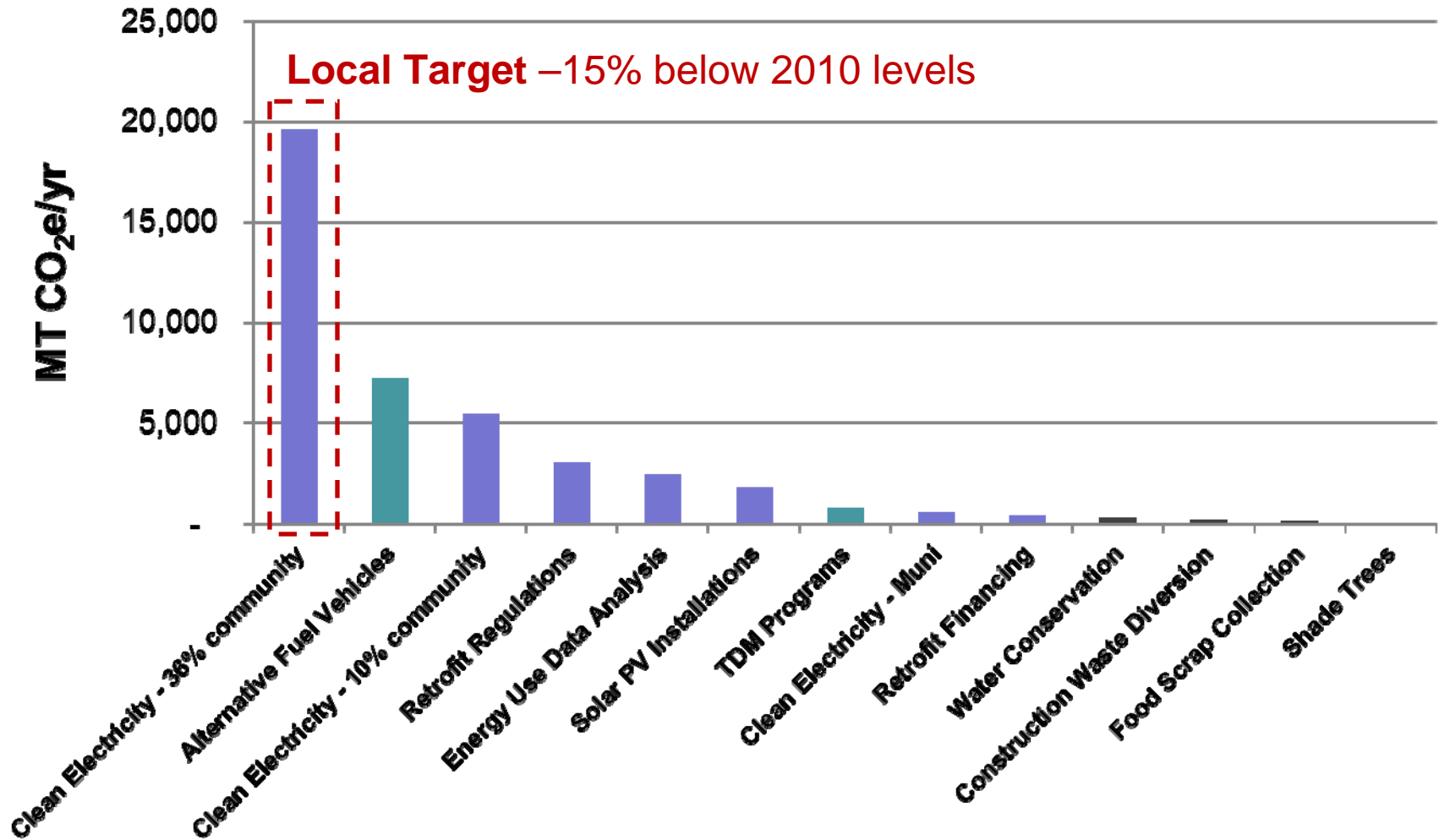
Local CAP Reduction Actions

- Clean electricity programs
- Alternative fuel vehicle expansion
- Retrofit regulations
- Energy Use Data Analysis
- Solar PV Installations
- Transportation Demand Management
- Retrofit Financing Sources
- Water Conservation
- Construction Waste Diversion
- Food Scrap Collection
- Shade Trees / Urban Forest

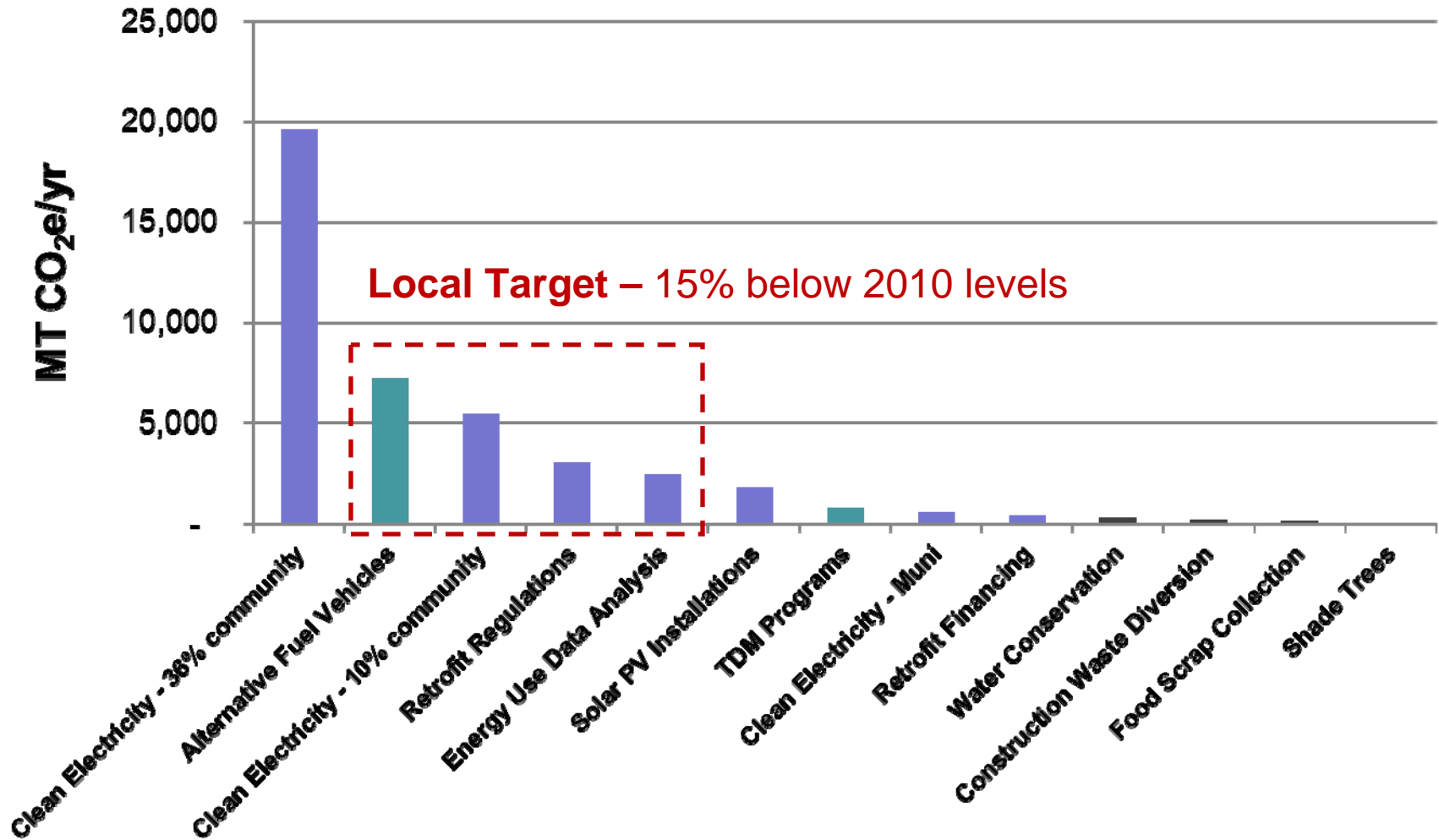
Local Reduction Actions



Pathways towards Reduction Target



Pathways towards Reduction Target



High Impact Actions – Building Energy Data and Analysis

- Identify opportunities to optimize building systems through low- or no-cost maintenance actions
- Outreach program to encourage voluntary participation for commercial, multi-family, and residential properties
- Third-party data analysis providers, and PG&E program for residential and small commercial buildings

– Success Stories

- Washington DC Department of General Services - Game Change Initiative to conserve 20% building energy in 20 months

High Impact Actions – Building Retrofit Regulations

▪ RECO/CECO – Energy Conservation Ordinances

- Building energy- and water-efficiency thresholds (residential and commercial)
- Point-of-sale trigger for efficiency improvements
- Lighting retrofits can be specified or developed as separate measures

– Success Stories

- Berkeley (RECO and CECO)
- San Francisco (RECO)
- Boulder, CO (RECO, rental property program)

High Impact Actions – Building Retrofit Regulations

▪ Building Energy Rating / Reporting

- Allow comparison of buildings' energy efficiency (e.g., mpg for buildings)
- Provide information to buyers/tenants at point-of-sale, time-of-lease
- **Success Stories**
 - Austin, TX
 - Seattle, WA

▪ Retro-Commissioning Requirements

- Regular re-commissioning of building systems (e.g., HVAC)
- **Success Stories**
 - New York City

High Impact Actions – Clean Electricity

▪ **PG&E Green Option**

- Proposed program allowing customers to voluntarily receive clean electricity – 50%, 75%, 100% clean generation options
- 5-yr pilot program, total enrollment cap
- Marginal cost increases based on participation options

▪ **Community Choice Aggregation**

- Process allowing aggregated power purchases of individual customers within a district (e.g., city, county, multi-jurisdictional)

– **Success Stories**

- Marin County (and Richmond), Sonoma County, San Francisco

Small Group Exercise

- Break into 3-5 small groups
- Facilitators present high impact actions
- Group discussion:
 - Do you support these actions? Why or why not? Pros/cons?
 - What are the barriers and opportunities for local implementation?
 - Who should lead this effort?
 - What can you do (in your role as business person, resident, etc) to support it?
- Report discussion results back to large group



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Small Group Exercise

Next Steps: Cupertino CAP

- Gather community input and incorporate into updated draft CAP strategies (*early summer 2014*)
- Refine reduction estimates (*mid-summer 2014*)
- Write CAP document (*mid-summer 2014*)
- Prepare environmental review document for CAP (*mid-summer 2014*)
- Review CAP with Planning Commission & City Council (*late summer 2014*)
- Adopt CAP (*early fall 2014*)
- Begin local implementation!!!

What you can do now!

Share
your ideas



WALK.
BIKE.
RIDE.

Take
action

Spread
the word





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