



# **Davis Climate Action Plan – Progress Report: Early Actions, Early Results**

**April 30, 2009**

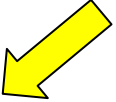
**6:30pm – 8:30pm**

1. Welcome/Introductions
2. Report Out: Climate Action Team  
Recommendations
3. Next Steps
4. Breakout Q&A
5. Adjourn

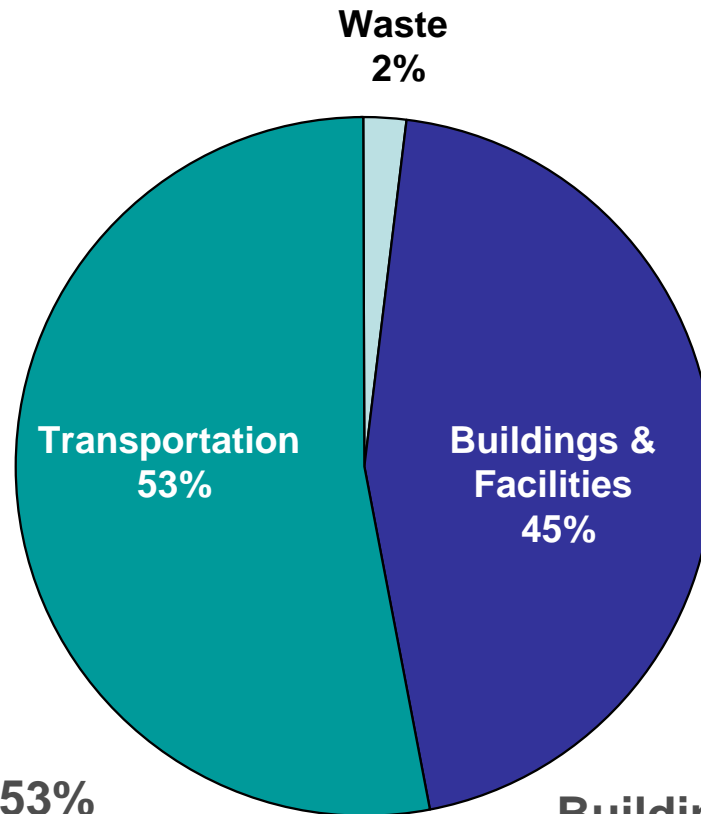
# Objectives of the Public Forum

- Provide a progress report on the Climate Action Team's recommendations for near-term actions
- Provide an opportunity for the public to ask questions and make comments
- Provide an opportunity for the public to sign up for continued involvement
- Update the community on next steps in the process.

# Overall Approach to Local Greenhouse Gas Reduction

1. Establish baseline (Inventory)
2. Set reduction targets
3. Identify actions to achieve the targets (and adaptation strategies) 
4. Take action
5. Monitor to make sure actions are effective - reexamine targets and actions based on results

# 2006 GHG Inventory – (Step 1)



<b>Transportation</b>	<b>53%</b>
Light Trucks	22%
Cars	19%
Heavy Trucks	10%
Other	1%

<b>Buildings &amp; Facilities</b>	<b>45%</b>
Residential	31%
Commercial/Industrial	11%
City Facilities & Operations	3%

# GHG Reduction Targets (Step 2)

- State: AB 32 & Executive Order S-3-05
  - 2000 by 2010, 1990 by 2020,  
80% below 1990 by 2050
- Local: Range
  - Uses State as floor, more aggressive as desired target
  - Links state and local, recognizes challenge, sets “stretch” goals

# Davis Targets - Community & City

Year	Target Range*		Notes
	State	Davis**	
2010	2000 levels	1990 levels	<p><u>Minimum:</u> State target.</p> <p><u>Desired:</u> Provides baseline for subsequent average annual reductions.</p>
2012	1998 levels	7% below 1990 levels	<p><u>Minimum:</u> State does not establish target for this year; linear interpolation from 2010 target.</p> <p><u>Desired:</u> Consistent with Kyoto – Mayors Climate Protection Agreement Pledge – City of Davis Reso. 2006.</p>
2015	1995 levels	15% below 1990 levels	<p><u>Minimum:</u> State does not establish target for this year; linear interpolation from 2010 target.</p> <p><u>Desired:</u> Consistent with initial ICLEI modeling conducted by the City.</p>
2015 to 2020	Average annual reduction	Ave of 2.6% reduction/yr to achieve 80% below 1990 levels by 2040	<p><u>Minimum:</u> State does not establish target for these years.</p> <p><u>Desired:</u> Average reduction encourages monitoring of progress and some flexibility in implementation.</p>
2020	1990 levels	28% below 1990 levels	<p><u>Minimum:</u> State target.</p> <p><u>Desired:</u> Average reduction encourages monitoring of progress and some flexibility in implementation.</p>
2020-2040	No formal target, but must reduce an ave. of 2.66%/yr to achieve 80% below 1990 levels by 2050	Average of 2.6% reduction/yr to achieve 80% below 1990 levels	<p><u>Minimum:</u> State does not establish target for these years.</p> <p><u>Desired:</u> Reduction level adopted by the state based on climate stabilization levels of 3-5.5 degree increase in temp. Average reduction encourages monitoring of progress and some flexibility in implementation.</p>
2050	80% below 1990 levels	Carbon neutral	<p><u>Minimum:</u> State target. Reduction level adopted by the state based on climate stabilization levels of 3-5.5 degree increase in temp. Average reduction encourages monitoring of progress and some flexibility in implementation.</p> <p><u>Desired:</u> Combination of actions at the local, regional, national, and international levels and carbon offsets. Similar to UC system, City of Berkeley, and Norway.</p>

# Actions to Reduce Local GHG (Step 3)

- Pre-plan Actions – City operations & Community
- Establish the CAT to make recommendations & increase community awareness
- Identification of actions (**reporting on tonight**)

# Plan and Monitoring (Steps 4 & 5)

- Actions discussed tonight make up the core of the plan
- Plan to include adaptation strategies
- Climate Action and Adaptation Plan to be reviewed by Natural Resources Commission and City Council (*next steps*)
- Monitoring to occur as actions are implemented

# Climate Action Team

Purpose: Assist in accelerating the development of a Greenhouse Gas Reduction Plan (Plan).

Focus: Community GHG Reduction Actions

- ID and Evaluate Potential GHG Reduction Measures
- Increase and gather community input
- Build relationships across the community necessary to achieve GHG reduction targets
- Recommend a set of GHG Reduction Measures for inclusion in Davis Climate Action Plan

# Climate Action Team

## Membership:

- One member of the Natural Resources, Open Space, Bicycle Advisory, and Planning Commissions
- The Davis Energy Group
- UC Davis Sustainability Committee
- Pacific Gas and Electric
- The Davis Joint Unified School District
- The Sierra Club, Yolano Chapter
- The Chamber of Commerce
- The Interfaith Group “Care for God’s Creation”
- Yolo County
- Associated Students of UC Davis
- Davis High School Student Government
- Explorit Science Center
- Five public at large members.

# Climate Action Team - Activities

- Public meetings from March 2008 to April 2009
- Development of initial actions in 4 categories: Transportation, Land Use, Energy, and Consumption & Waste
- Public Forum to gather ideas & input – June 2008
  - 150+ attendees, 100's of suggestions & comments
- Analysis of Public Forum input and synthesis into potential actions
- Cost/Benefit analysis of potential actions
- Development of “Phase 1 / Phase 2” implementation strategy
- Recommended actions (*presented tonight*)

# Action Evaluation/Selection

- Limited time and resources for detailed analysis of each action (CAT & City staff)
- Potential delay in plan adoption & implementation
- Selected Phase 1 / Phase 2 approach to accelerate development, adoption and implementation of GHG reduction plan for Davis
- Select actions based on general consensus of expert opinion or proven methods to prioritize actions that achieve quick GHG reductions to meet early reduction targets
- Continue to analyze other identified actions (longer-term)

# Action Evaluation/Selection

## Phase 1 Actions

- Not likely to require extensive additional study or investment by the City
- Prioritize actions that have proven effective in other places and/or take advantage of existing methods and technology
- Implemented to achieve short-term GHG reduction goals

## Phase 2 Actions

- Continue to study and implemented to achieve longer-term GHG reduction goals

# Recommended Actions

- 4 categories, 2 phases & a partridge in a pear tree (suggested strategies)
- Guidance on City and community role

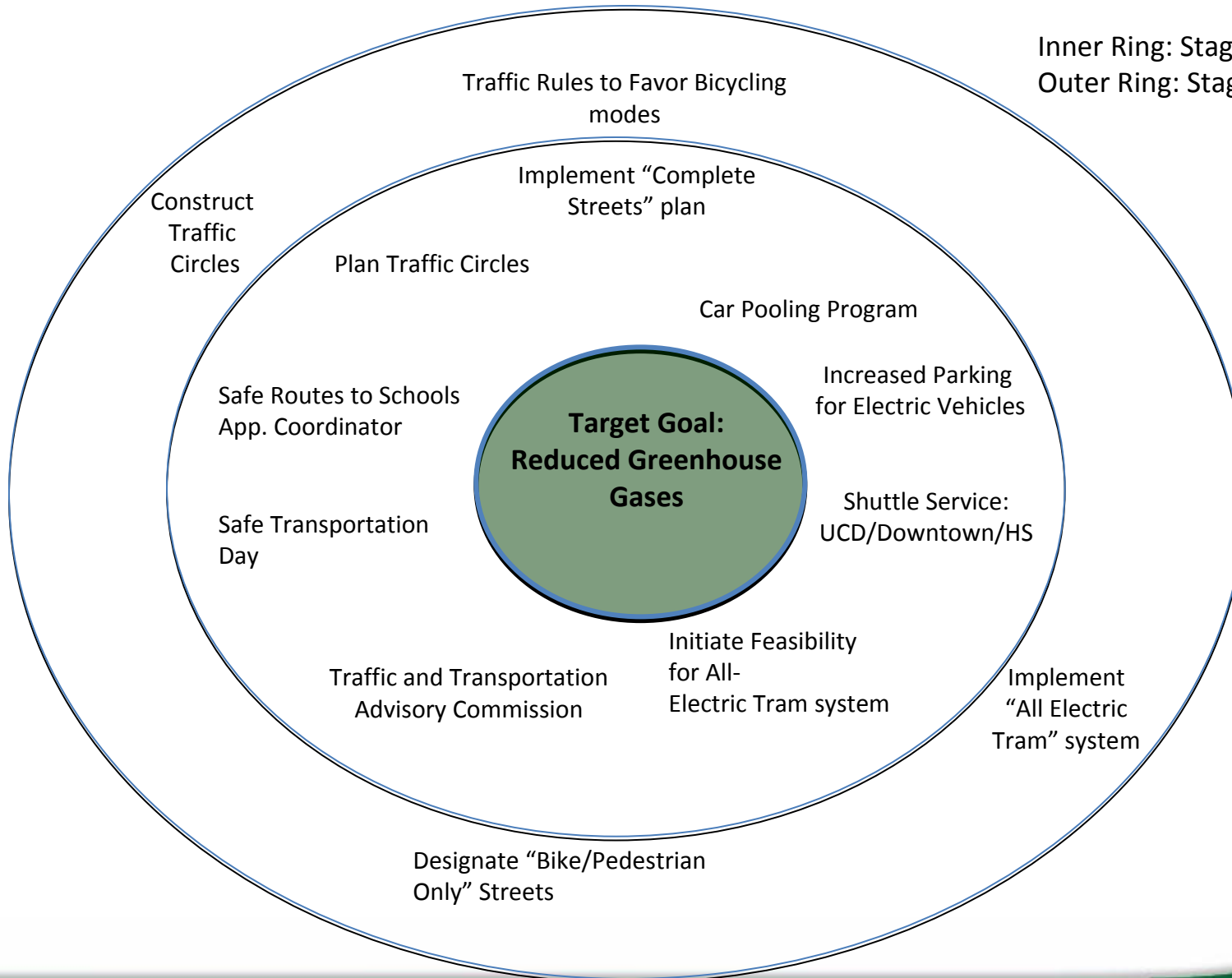
CAT members to provide highlights within each of the 4 categories & Staff to provide detail on a few selected actions.

# Recommended Actions

Action Number	STAGE II ACTIONS	CONSERVATION/EFFICIENCY (Use Less Energy)	ENERGY PRODUCTION (Green the Energy Source)	COMMUNITY ROLE
City role: Educate citizens to take action themselves.				
	No Actions in this category			
City role: Initiate programs that leverage city powers or provide access to financing, with primary funding from others.				
9-E	<u>Community Fund for Local Projects through Non-Profit or Private (Attract Sources of Funding from Davis public through city utility bill or sale of carbon offsets)</u>	Benefit schools or community projects through energy efficiency measures	Benefit schools or community projects through on-site renewable energy projects	Participation in program.
10-E	<u>All New Residential Development Be Carbon Neutral</u>	Continue and expand research into state of the art construction techniques and technology towards goal of 100% carbon neutrality		Developer support for program.
11-E	<u>Improve energy efficiency of existing rental housing</u>	Partner with PG&E and supplement its outreach efforts		Property owner support for program.
City role: Invest funds directly into energy programs, products, or people.				
12-E	<u>Generate electricity through biomass and agricultural waste</u>		Needs further research: investigate partnerships with UC Davis, county, state, and federal sources of funding and private investors.	Support for potential modification to lighting levels due to new technology
13-E	<u>City to produce renewable power for 100% of community's energy</u>		Continue and expand research into state of the art construction	General support

# CAT- Recommended Actions – Transportation

Inner Ring: Stage I Short Term Actions  
Outer Ring: Stage II Long-Term Actions



# Sample recommendations: Transportation

## Phase 1 Action

Establish Car Pool Program (4-T)

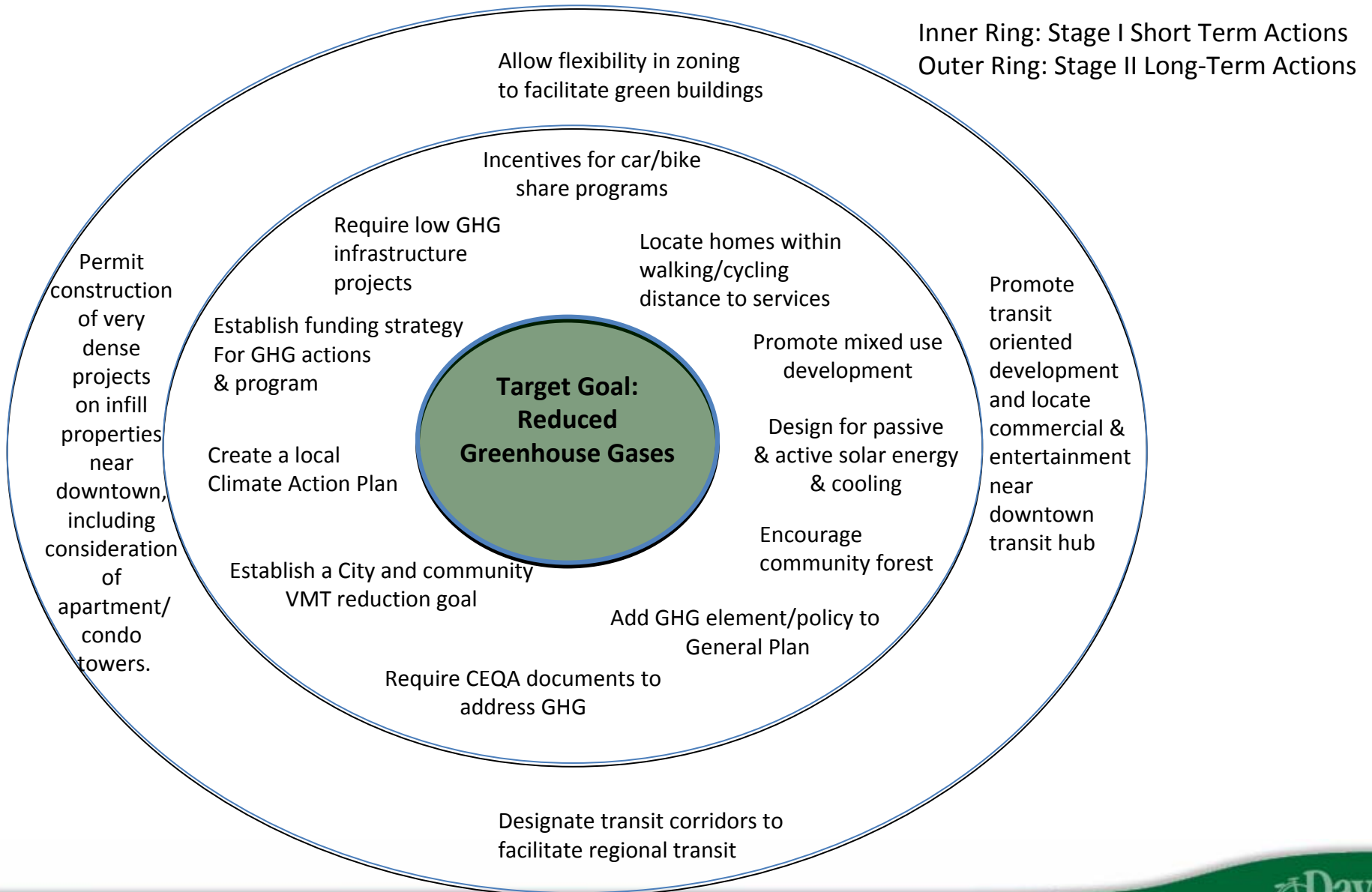
- GHG reduction potential: 450 MT CO<sub>2</sub>e
- Cost: Low

## Phase 2 Action

Expand Transit to other communities (19-T)

- GHG reduction potential: 1,400 MT CO<sub>2</sub>e
- Cost: Potentially High

# CAT- Recommended Actions – Land Use



# Sample recommendations: Land Use

## Phase 1 Action

Locate new homes near services (2-LU)

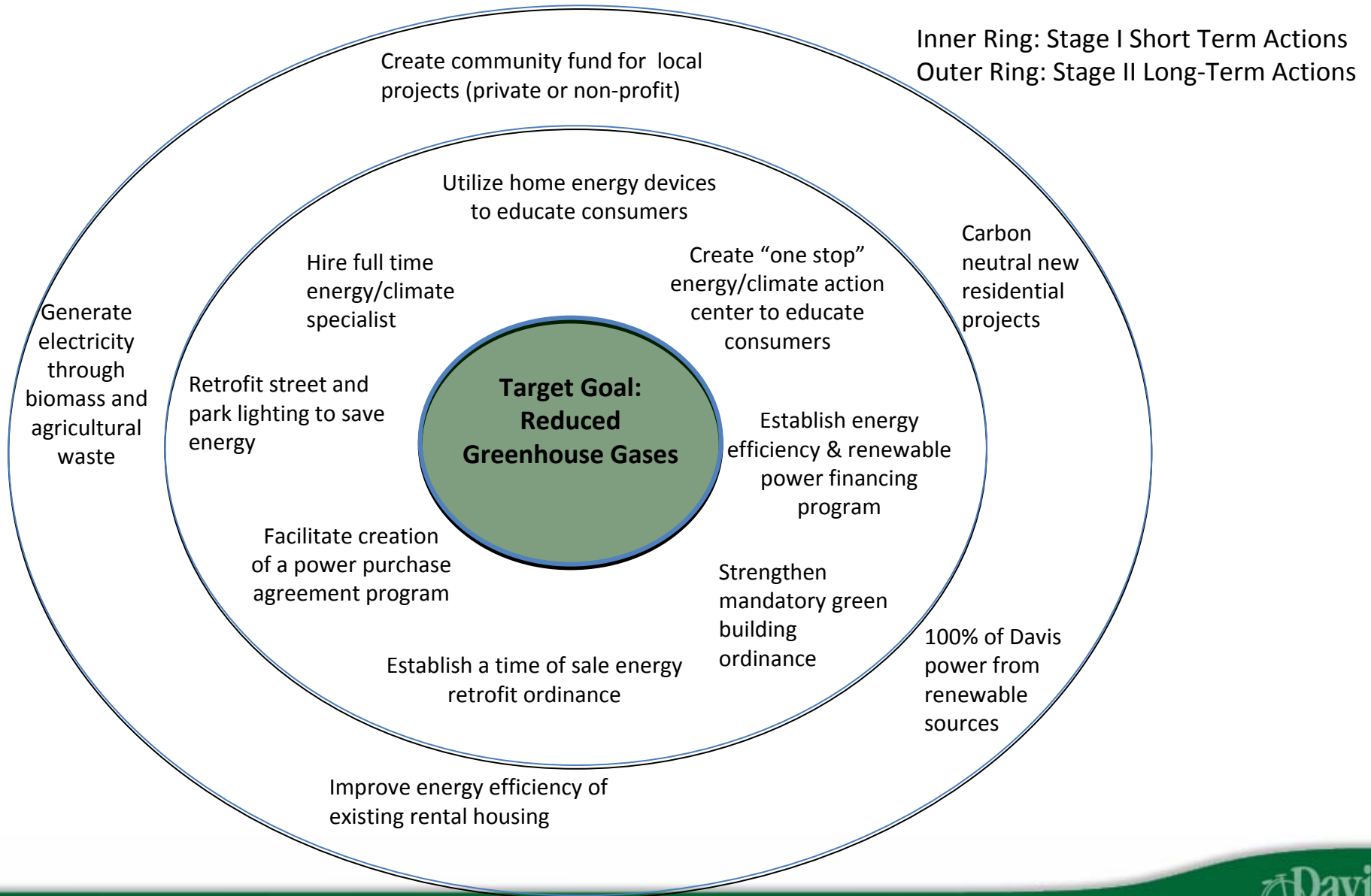
- GHG reduction potential: 960 MT CO<sub>2</sub>e
- Cost: Low

## Phase 2 Action

Promote Transit oriented development (13-LU)

- GHG reduction potential: 5,150 MT CO<sub>2</sub>e
- Cost: Potentially High

# CAT- Recommended Actions – Energy



# Sample recommendations: Energy

## Phase 1 Action

### Streetlight retrofit (7-E)

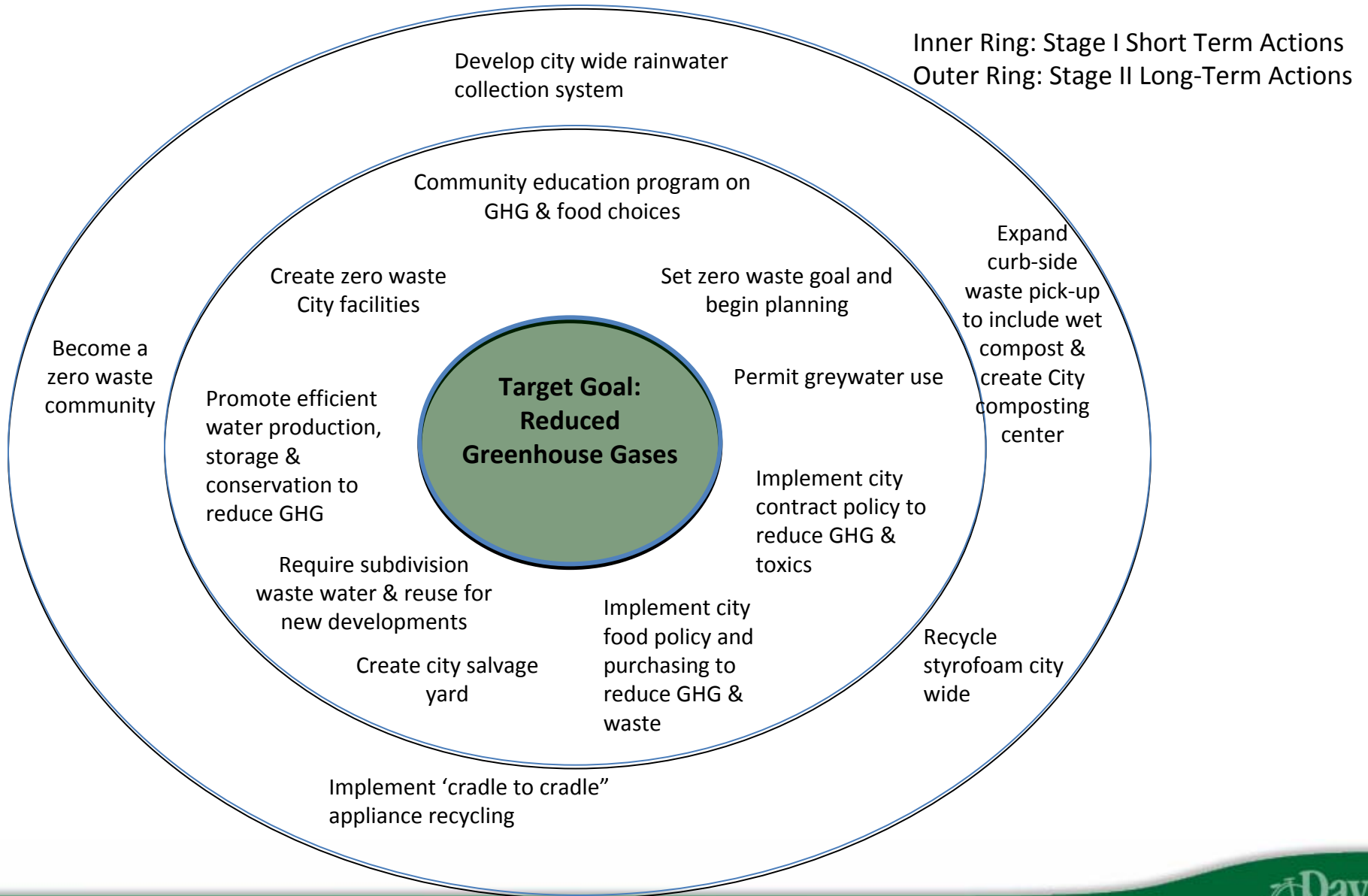
- GHG reduction potential: 160 MT CO<sub>2</sub>e
- Cost: Low

## Phase 2 Action

### Increase efficiency of existing rental units (11-E)

- GHG reduction potential: 5,075 MT CO<sub>2</sub>e
- Cost: Potentially High

# CAT- Recommended Actions – Consumption & Waste



# Sample recommendations: Consumption & Waste

## Phase 1 Action

Community ed on food choices & GHG (1-CW)

- GHG reduction potential: 3,970 MT CO<sub>2</sub>e
- Cost: Low

## Phase 2 Action

Become zero waste community (14-CW)

- GHG reduction potential: 5,445 MT CO<sub>2</sub>e
- Cost: Potentially High



# General Questions (e.g. process, plan development, etc.)

(questions on specific actions hold for discussion with CAT members at stations)

# Climate Action and Adaptation Plan

## Next Steps

- Continue implementation of pre-plan actions
- Staff to prepare draft plan that includes these actions (late spring)
- Review and analysis by Natural Resources Commission (summer)
- Review and adoption by Council (late summer/fall)



[www.cityofdavis.org/pgs/Sustainability/](http://www.cityofdavis.org/pgs/Sustainability/)

# Early GHG reduction Measures - City

- **General**
  - Join the California Climate Action Registry
- **Transportation**
  - Bike Loan Program
  - Fleet greening
  - City contracts with haulers explore and/or require use of alternative fuels
- **Materials Management**
  - Expand waste reduction/recycling programs in city facilities
  - Net 65% post consumer waste recycled copy paper purchase
  - Construction and Demolition recycling ordinance
  - Bottled water purchase policy
- **Energy**
  - City facility energy audit
  - Energy Management System
  - Energy education – city staff
- **Buildings**
  - Green building program
  - LEED equivalent rating for new city buildings
  - LEED equivalent rating for city remodels/retrofits
  - Local solar incentives program
- **Education/Outreach**
  - Staff training budget
  - Tip of the week – employee education
  - Staff orientation materials

