



Riverside
RESTORATIVE GROWTHPRINT

Green Accountability Performance (GAP) Committee Meeting

3900 Main Street, Riverside, CA 92501
Mayor's Ceremonial Room, City Hall, 7th floor

Wednesday, October 8, 2014
4:00 - 5:30 p.m.



Meeting Agenda and Objectives

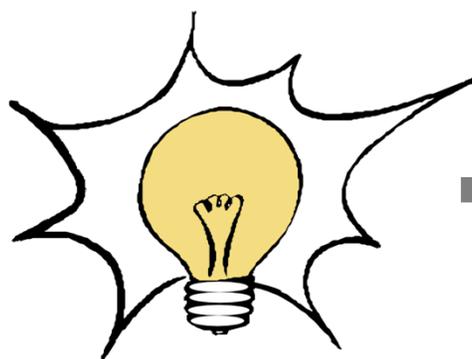
- Meeting Objectives
 - Present the Riverside Restorative Growthprint – Draft Climate Action Plan (RRG-CAP)
 - Identify additional GHG reducing entrepreneurial strategies to meet the 2035 reduction target
- Meeting Agenda
 - Presentation: Overview of the draft RRG-CAP
 - Facilitated discussion
 - Closing remarks/adjournment
 - Talk with project team one-on-one



Project Objectives

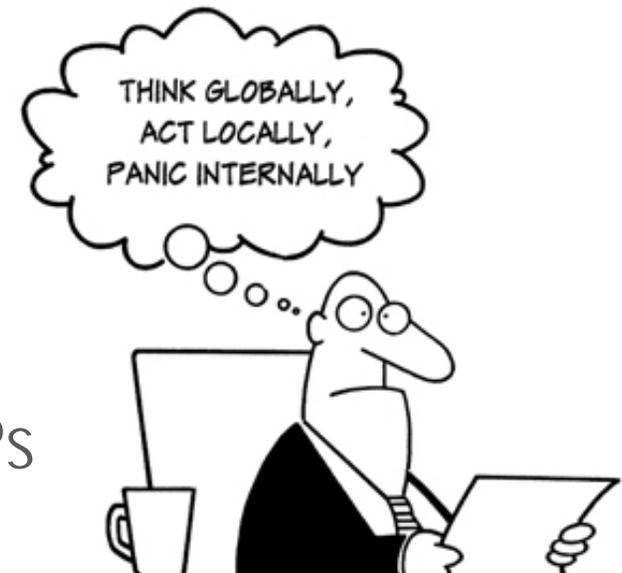
- Develop measures to reduce GHG emissions (to 49% below baseline by 2035)
- Inspire entrepreneurial opportunities and job creation
- Facilitate Smart Growth development and stimulate sustainable infrastructure investment
- Develop a tracking tool to monitor progress
- Inform, engage and collaborate with stakeholders

CAP



Why Prepare a Climate Action Plan?

- Comply with State regulations and guidelines
- Provides a framework for many things we already do
 - Land use
 - Transportation
 - Utility infrastructure
 - Environmental stewardship
 - Healthy lifestyles
- State law does not *require* CAPs but does *incentivize*

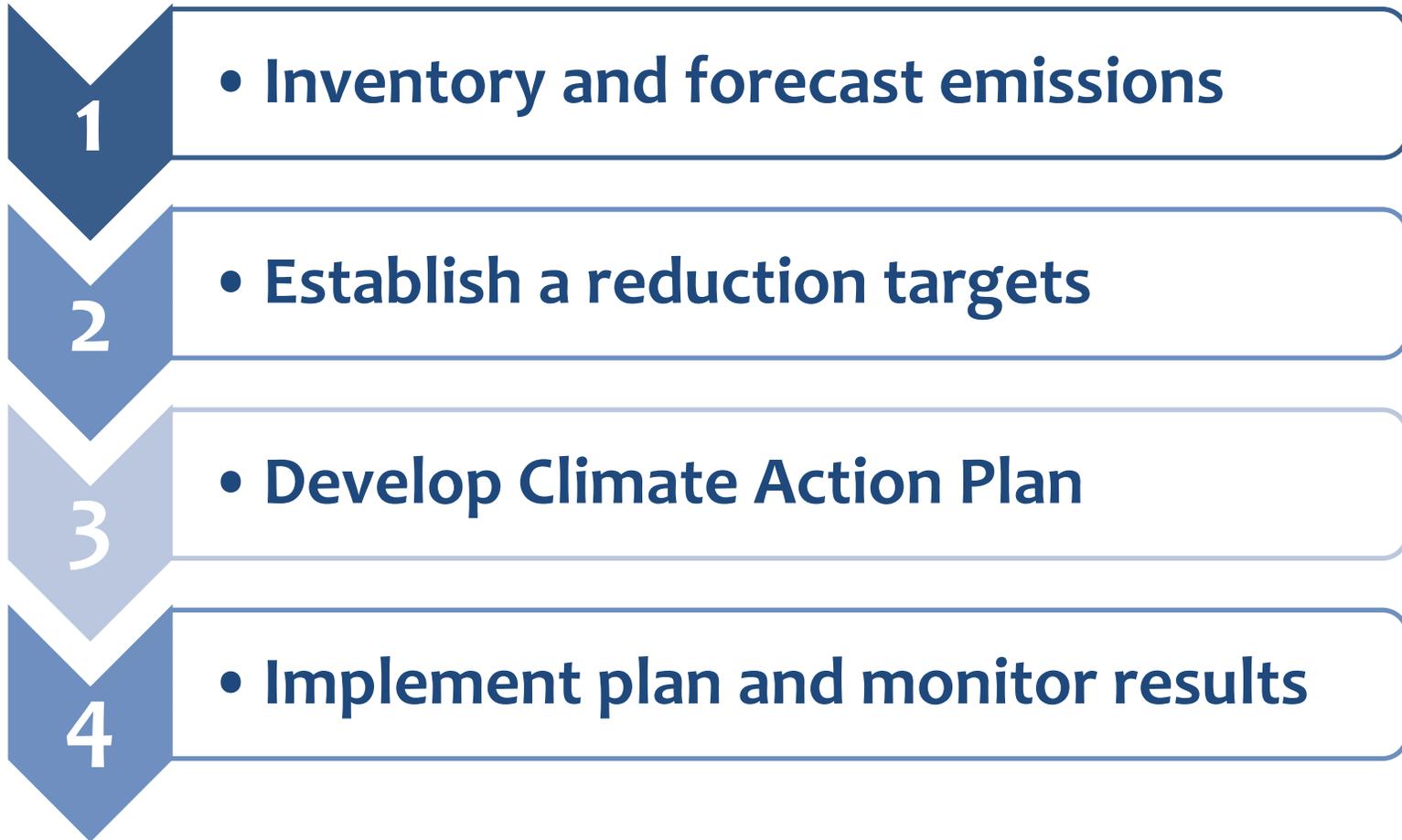


Incentives and Benefits of a Climate Action Plan

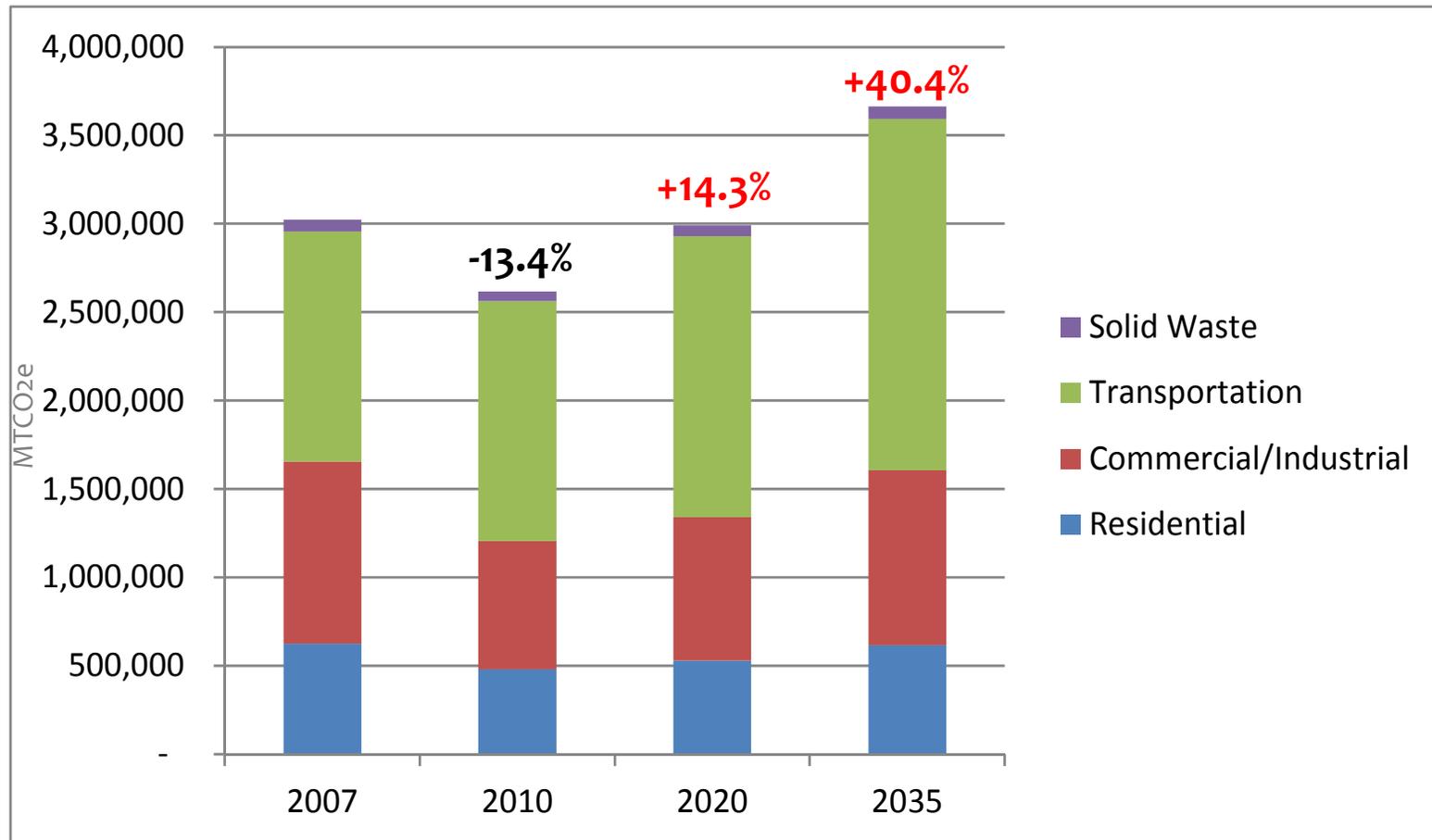
- CEQA streamlining
- Priority funding
- Local control
- Co-benefits
 - Economic
 - Health
 - Environmental
- Marketing/business attraction



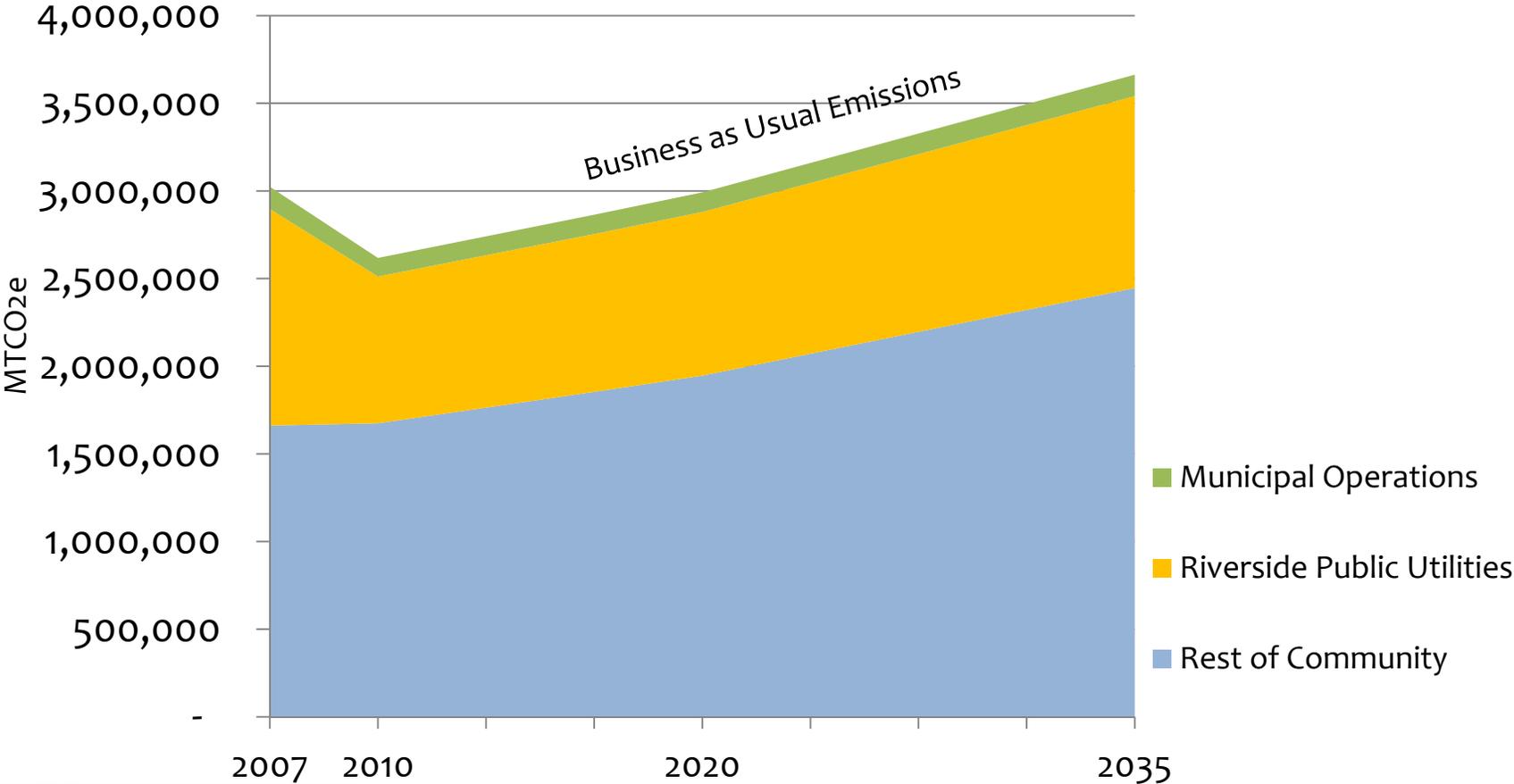
Climate Action Planning Process



Community Emissions Inventory and Forecasts by Sector



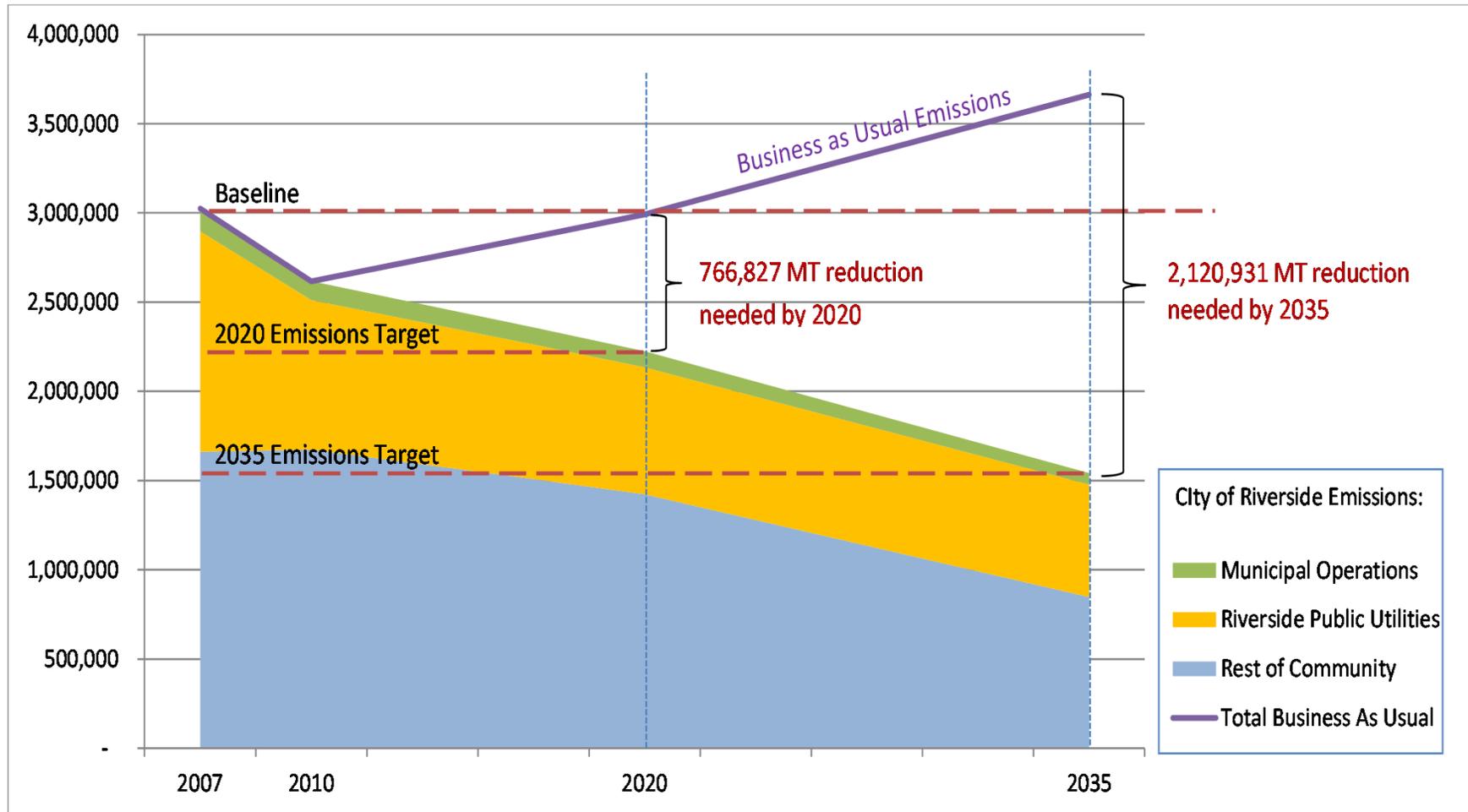
City of Riverside Emissions Forecasts



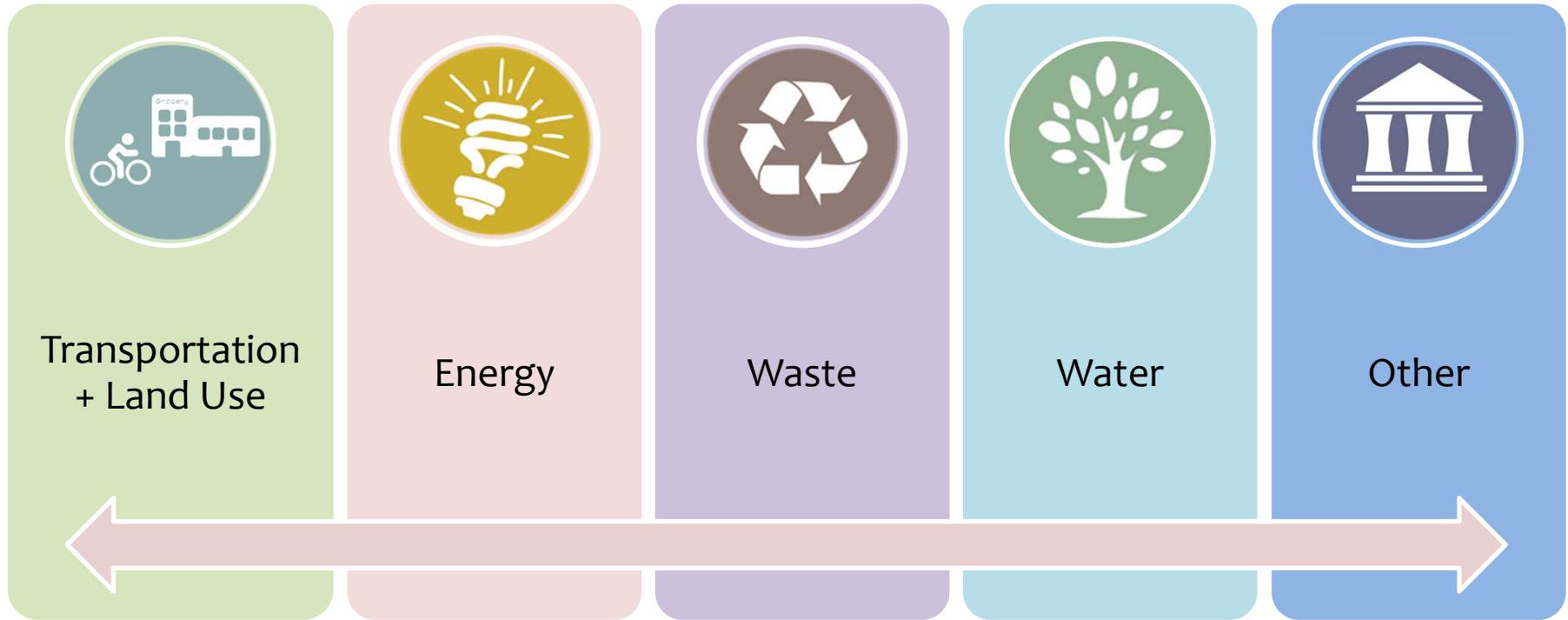
Emissions Reduction Targets

- Align with AB 32 (2020) and SB 375 (2035)
- Align with WRCOG Subregional CAP targets
- Aligns with Executive Order S-3-05
- Recommended reduction *targets*:
 - 15% below 2010 emissions by 2020
 - 26.4% below 2007 baseline by 2020
 - 49% below 2007 baseline by 2035

Emissions Reduction Targets



Developing Emissions Reduction Measures

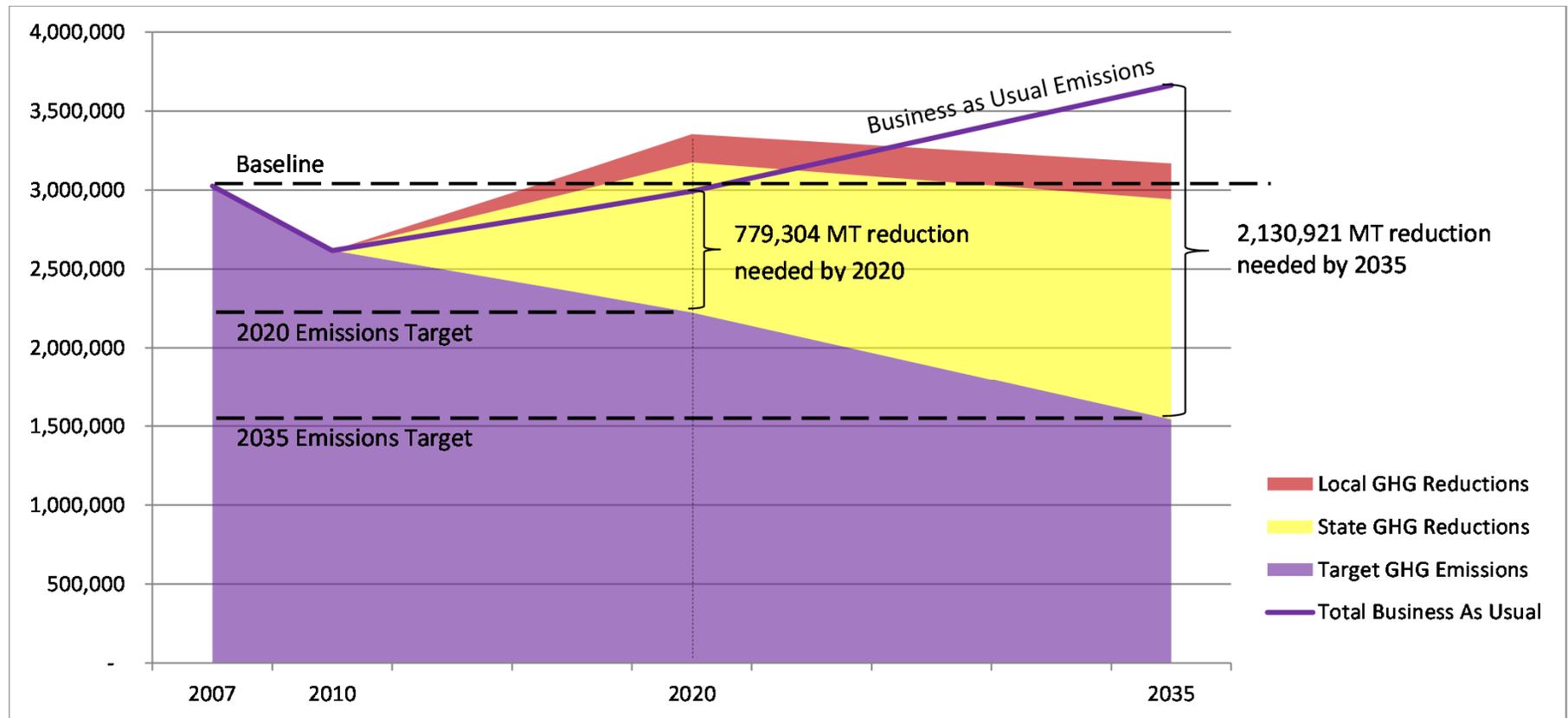


State measures | Regional measures | Local measures

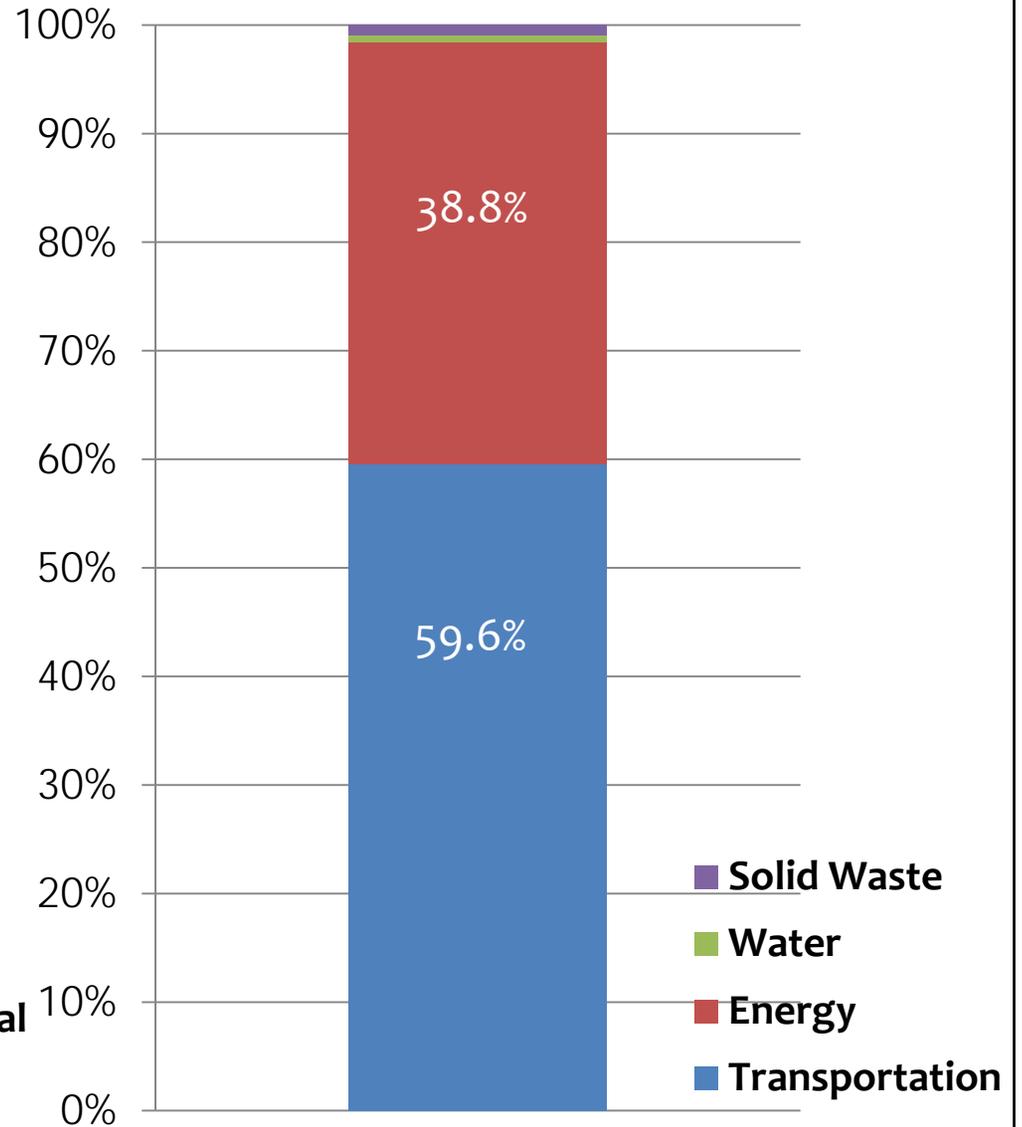
Emissions Targets and Reductions

	2007	2010	2020	2035
BAU Emissions (MTCO ₂ e)	3,024,066	2,617,540	3,004,212	3,663,205
Recommended Targets	~	~	-15% from 2010 -26.4% from 2007	-49% from 2007
Target Emissions Level (MTCO ₂ e)	~	~	766,827	2,120,931
Emissions Reductions Achieved (MTCO₂e)	~	~	1,106,010	1,634,191
Resulting Emissions			-37% from 2007	-33% from 2007

Reductions Achieved Through State, Regional and Local Measures



2035 Emissions Reductions



Reduction Measures

Transportation and Land Use

- State and Regional Measures
 - Pavley & Low Carbon Fuel Standard
 - Metrolink Expansion
 - Express Lanes
 - Congestion Pricing
 - Telecommuting
 - Goods Movement
 - Electric Vehicle Plan & Infrastructure



Reduction Measures

Transportation and Land Use

- Local Measures

- Bicycle Infrastructure
- Bicycle Parking
- End of Trip Facilities
- Transportation Demand Management
- Traffic Signal
- Density
- Mixed Use Development
- Pedestrian Only Areas
- Fixed Guideway Transit
- Neighborhood Electric Vehicle Programs
- Subsidized Transit
- Bike Share Program
- Car Share Program
- SB 743 Alternative to LOS



Reduction Measures

Energy Efficiency and Renewables

- State and Regional Measures
 - Renewables Portfolio Standard
 - California Building Energy Efficiency Standards (Title 24)
 - HERO Residential Program
 - HERO Commercial Program
- Local Measures
 - Traffic and Street Lights
 - Shade Trees
 - Local Utility Programs - Electricity
 - Renewable Energy Production on Public Property
 - UC Riverside Carbon Neutral Program



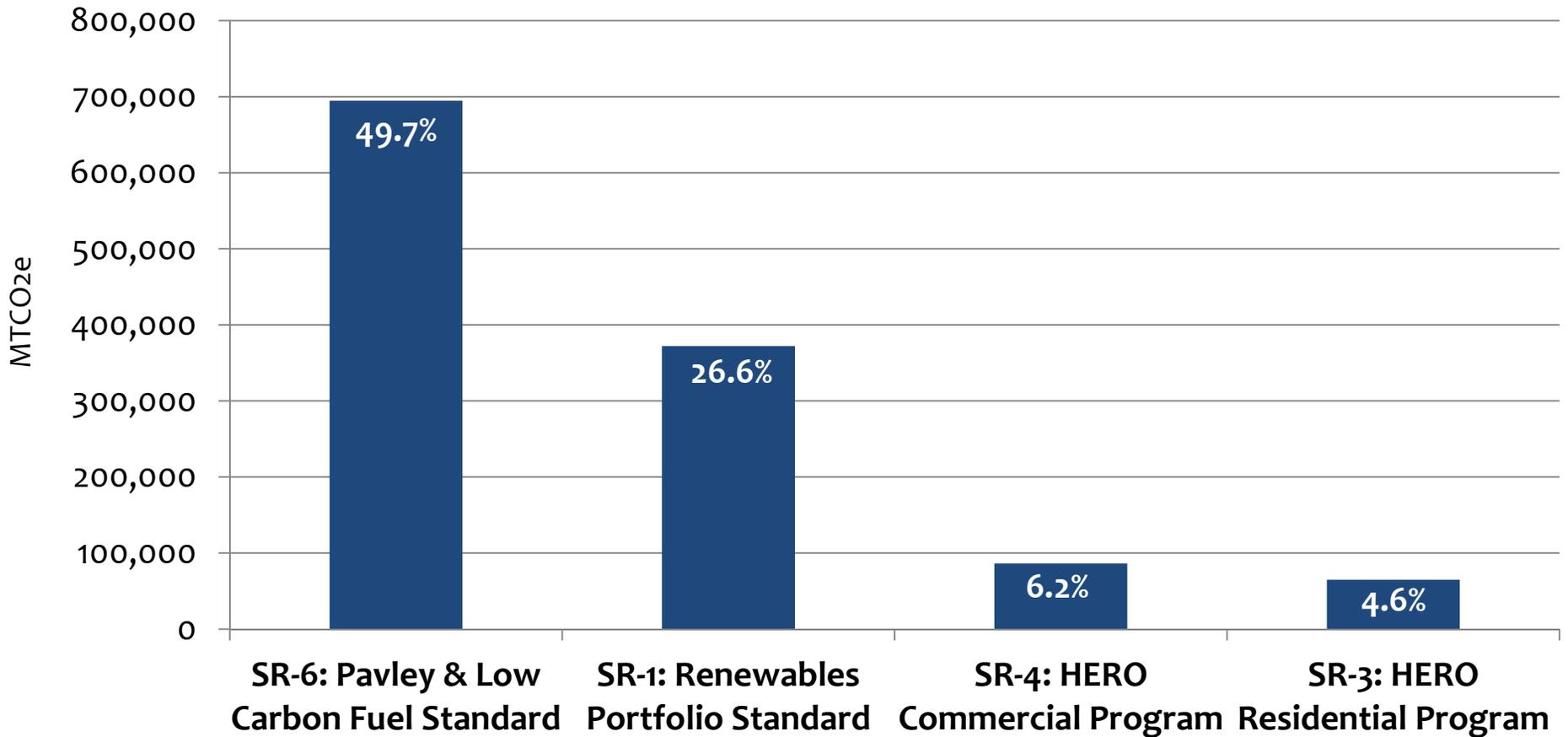
Reduction Measures

Water, Waste and Green Infrastructure

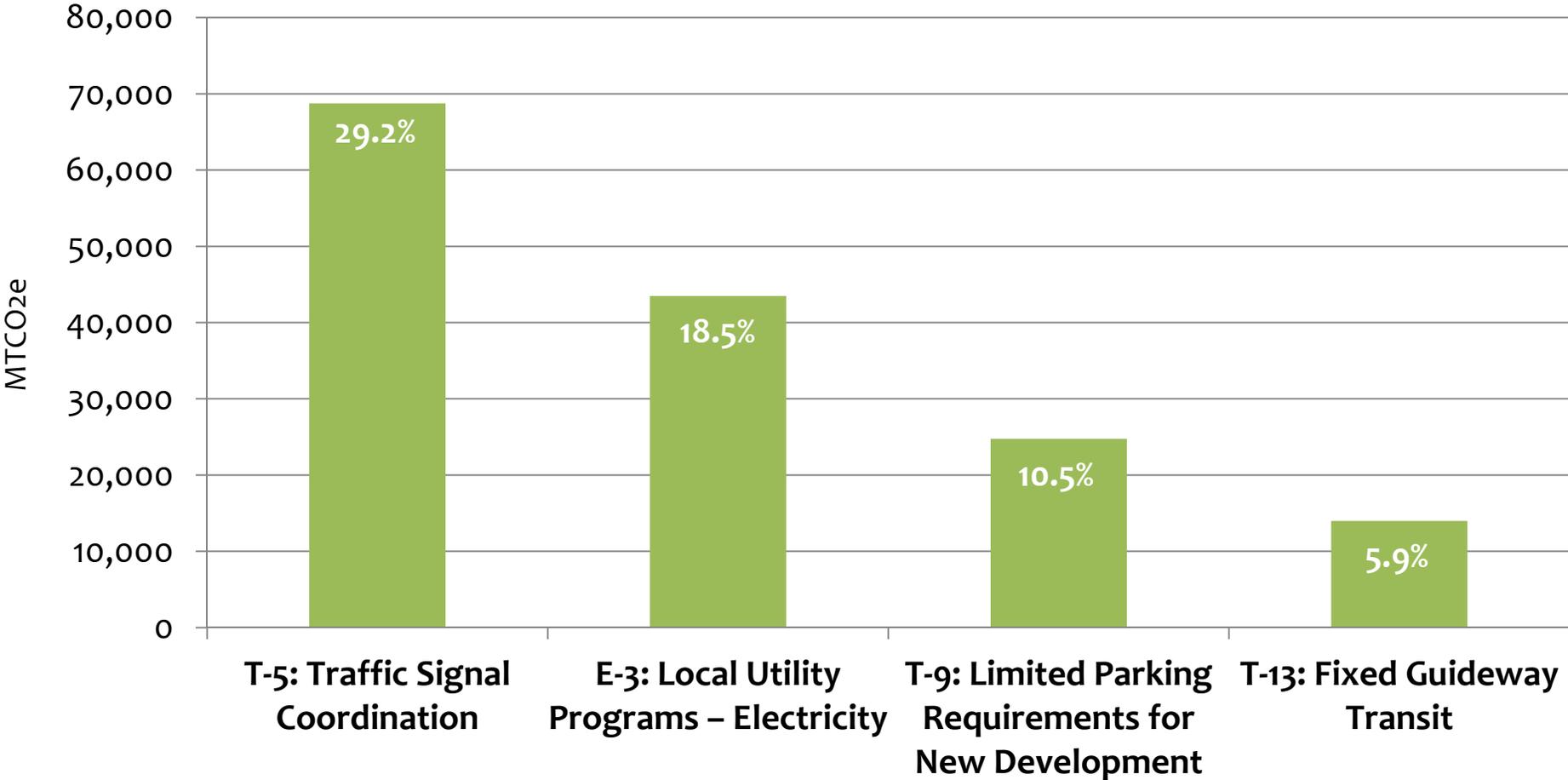
- State and Regional Measures
 - Construction and Demolition Waste Diversion
- Local Measures
 - Water Conservation and Efficiency
 - Yard Waste Collection
 - Food Scrap and Paper Diversion



GHG Reduction Potential 2035 Top 4 State/Regional Measures



GHG Reduction Potential 2035 Top 4 Local Measures



Local Economic Opportunities and Other Community Co-Benefits



**Local
Economic
Opportunities**



Energy



Health



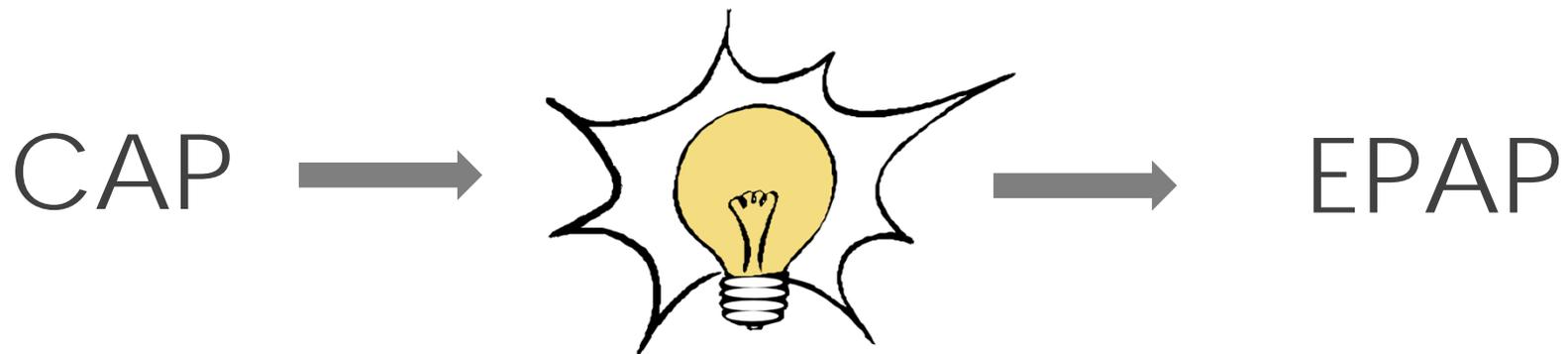
Resources



Mobility

Reduction Measures Criteria and Analysis

- GHG Reduction Potential (MT CO₂e/year)
- Synergy with RRG-EPAP (high, medium, low)
- Relative Cost Effectiveness (high, medium, low)
- Ease of Implementation (high, medium, low)



Reduction Measures Highest Synergy with EPAP

State and Regional Measures by Sector		Sector	2035 Riverside (MT CO ₂ e/yr)
SR-2	2013 California Building Energy Efficiency Standards (Title 24, Part 6)	Energy	62,927
SR-3	HERO Residential Program	Energy	64,964
SR-4	HERO Commercial Program	Energy	86,276
SR-10	Telecommuting	Energy	19,853
SR-12	Electric Vehicle Plan and Infrastructure	Energy	39,705
SR-13	Construction and Demolition Waste Diversion	Solid Waste	4,865
Local Measures by Sector		Sector	2035 Reductions (MT CO ₂ e/yr)
E-3	Local Utility Programs – Electricity	Energy	43,491
E-4	Renewable Energy Production on Public Property	Energy	Supporting
E-5	UC Riverside Carbon Neutral Program	Energy	Supporting
T-10	Bus Rapid Transit Services	Transportation	2,330
T-13	Fixed Guideway Transit	Transportation	13,981
T-14	Neighborhood Electric Vehicle Programs	Transportation	4,660
T-16	Bike Share Program	Transportation	280
T-17	Car Share Program	Transportation	3,728
T-18	SB 743 as Alternative to LOS	Transportation	2,703
W-1	Water Conservation and Efficiency	Water	10,748
SW-2	Food Scrap and Paper Diversion	Solid Waste	9,317

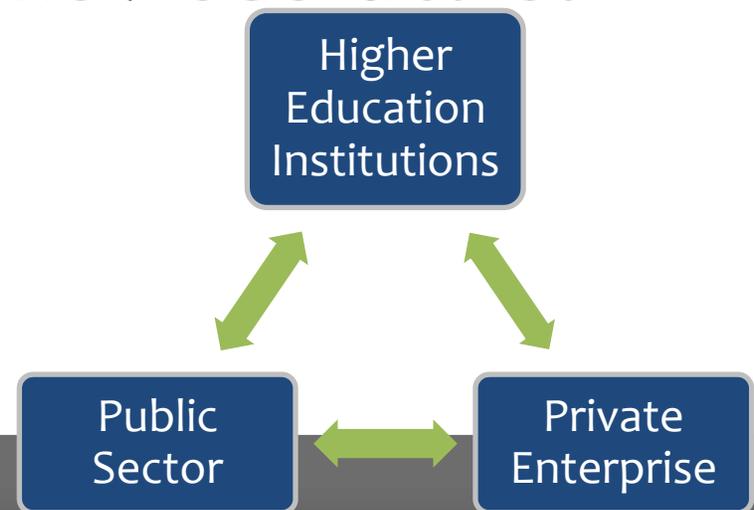


Reduction Measures

Where Can We Innovate?



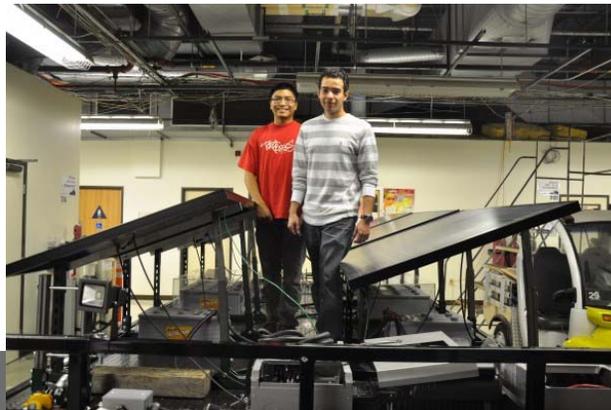
- Identify local economic opportunities with greatest GHG benefits
- Expand electric vehicle program
 - Workforce housing program
 - Incentivize mixed use development
 - Create green enterprise zone / eco-district
 - Green business program
 - Cleantech incubator



Reduction Measures

Where Can We Innovate?

- Micro grid initiative
- Mobile solar (energy storage) on vacant land
- Pilot on-site water retention and treatment at UCR
- Waste to energy for converting organic waste into biogas
- Customer technology energy grants



Next Steps

CLIMATE ACTION PLAN (APRIL-OCTOBER)

- Inventory and forecast emissions
- Establish reduction targets
- Identify and evaluate reduction measures
- Develop Climate Action Plan (CAP)

ECONOMIC PROSPERITY ACTION PLAN (NOVEMBER-MARCH)

- Identify top 10 entrepreneurial opportunity areas in CAP
- Crowdsource & co-create entrepreneurship ideas
- Identify incentives, establish promotional strategy, crowdsource implementation ideas
- Prepare Economic Prosperity Action Plan (EPAP)

IMPLEMENTATION PLAN (MARCH-JUNE)

- Develop Implementation Strategy
- Create monitoring & tracking tool
- Prepare environmental clearance
- Monitor results

Thank You

If you have an idea, question, or concern after this meeting, contact us!



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