



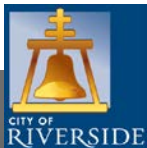
Riverside Restorative Growthprint – Climate Action Plan/Economic Prosperity Action Plan

Community & Economic Development Department

Board of Public Utilities
September 4, 2015

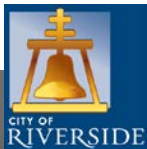
BACKGROUND

- City received a SCAG Sustainability grant to develop the Riverside Restorative Growthprint (RRG)
 - Economic Prosperity Action Plan (EPAP)
 - Climate Action Plan (CAP)
- Builds upon existing plans and programs
 - Seizing our Destiny Report
 - Green Action Plan
 - WRCOG Subregional CAP



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



ECONOMIC PROSPERITY ACTION PLAN (RRG-EPAP)

- Identifies GHG reduction measures that have potential to spur economic development and inspire entrepreneurship
- Identifies recommendations to facilitate Smart Growth development and stimulate sustainable infrastructure investment

Plan Development

RRG-CAP Analysis

Outreach & Engagement

Competitive Landscape Research

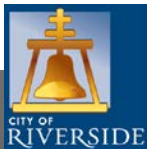


EPAP Recommendations

Smart Growth Strategies

Implementation Plan

Promotional Strategy



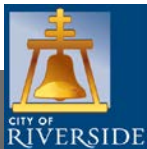
RRG-CAP ANALYSIS: ENTREPRENEURSHIP OPPORTUNITY AREAS

What is an EOA?

A strategy or measure that aims to inspire entrepreneurship and spur economic development and prosperity.

Ten GHG reduction measures identified as the most viable and economically beneficial:

1. Energy and Water Upgrades for Home or Business
2. Green Building Standards
3. Clean Vehicles and Charging/Fueling Stations
4. RPU Clean Technology Funding
5. Waste Reduction
6. Expand Bicycle Infrastructure
7. Eco Business Zone
8. Cleantech Incubator
9. Buy and Produce Local Initiative
10. Wild Card / Global Markets



RRG-EPAP DEVELOPMENT: OUTREACH & ENGAGEMENT

Influencer Workshops – November 2014

Forty Riverside Community members discussed GHG reduction efforts and opportunities to inspire economic development

- Presentation from Los Angeles Cleantech Incubator representative
- Presented “Top 10 EOAs”
- Facilitated “brainstorming” activity and discussion to share perspectives and ideas on Riverside’s competitive advantages and available resources



RRG-EPAP DEVELOPMENT: OUTREACH & ENGAGEMENT

Five Points Neighborhood Watch
Alcott Elementary School Garden
Andrew Jackson Apt. Neighborhood Watch
Arlanza Neighborhood Partnership
Arlington Business Partnership
BCP NPC
Beatty Drive Neighbors
Big Brothers, Big Sisters
Black Chamber of Commerce

BOIS Bicycle Collective

Bordwell Park Advisory Committee
Bourns, Inc.
Boy Scouts*
Brian Percy Law
Burrtec Waste Management
CA Baptist University

CA Small Business Development Center
California Resource Connections
Canyon Crest Towne Center
Casa Blanca Community Action Group

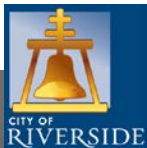
CDD - Neighborhoods Team
CE-CERT
Central Middle School Service Learning Club
City of Riverside
Civil Engineer
Code 4 Group
Colonial Drive
Colony East Neighborhood Assn.
Community Garden, Student Sustainability Collective RSUC
Community Works Design Group

Corona College Heights Citrus
Cridge Street Community Assn.
Cyclery USA
Downtown Area Neighborhood Alliance
Duncan Campbell Webb
Eileen Street Neighbors

Emerson Elementary School Green Team
ESA Associates / RRG Consultant
ExCITE
Flex Steel

Friends of Mt. Rubidoux
Friends of Myra Linn
GAP/Green Riverside Leadership
GarLabs
Goodwins
Grafflin Construction
Grand Neighborhood Alliance
Grant & Savatovic
Greater Riverside Chamber of Commerce

Greater Riverside Hispanic Chamber of Commerce
Growcology
Habitat for Humanity Riverside
Historic Wood Streets Assn.
HPR Riverside Unified
I.W. Consulting
Ian Davidson Landscape Architecture (IDLA) Inc.,
ieCrowd
IT Retail
Jim Broeske Architects
Junior League of Riverside



RRG-EPAP DEVELOPMENT: OUTREACH & ENGAGEMENT

K&N Filters
La Sierra Hills Neighborhood Watch

La Sierra Neighbor II Neighbor

La Sierra University

Langston Place

Laurelbrook Drive Neighborhood Watch

Lincoln Park Neighborhood Assn.
Luminex Software
Madison Street Church

Magnolia Area Neighborhood Alliance

Mariposa Landscape Design
Mason Street Neighborhood

Master Gardeners
Mayor's College Council
Mayor's Commission on Aging

Mayor's Youth Council
MBM

Monroe Elementary School

Nanscapes
Neighborhood of Mt. Rubidoux Alliance
(NoMA)

Neighbors Helping Neighbors Club

Neighbors of the Wood Streets (NOWS)

Northside Improvement Association

Office of the Mayor

Orange Vista Neighborhood Watch
Pachappa Hill Neighborhood Watch
Palisades Neighborhood Watch @ Riverwalk

Poly High School – Riverside Club Green

Prince Albert Drive Neighborhood Group
PSOMAS

RCBCC
REEIS
Residents for Responsible Representation

Rick Engineering
Riverside Assitant City Managers Office

Riverside Auto Auction

Riverside Bicycle Advisory Committee
Riverside Bicycle Club

Riverside City College

Riverside City College – Center for Green
Economy

Riverside City College – Community
Education

Riverside City College – Life Sciences
Department

Riverside City Council – Wards 1 through 5

Riverside Community Hospital

Riverside Corona Resource Conservation
District

Riverside County Black Chamber of
Commerce

Riverside County Board of Supervisors

Riverside County Transportation
Commission

Riverside Downtown Partnership

Riverside Economic Development Agency

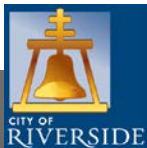
Riverside Food Co-operative*

Riverside Historical Society

Riverside Land Conservancy

Riverside Museum Associates - Family
Village Festival

Riverside Parking, Traffic & Streets
Commission



RRG-EPAP DEVELOPMENT: OUTREACH & ENGAGEMENT

Riverside Parks & Rec Commission

Riverside Public Utilities

Riverside Public Works

Riverside Sustainability Office

Riverside Transit Agency

Riverside–Corona Resource Conservation
District

RLM Wealth Group

Rotary Club of Riverside-Tour de Riverside

Riverside Unified School District (RUSD)

Saint Andrew Orthodox Church

Santa Ana River Watershed

Santa Ana Watershed Project Authority
SAWPA

Seniors Go Green

Solar Max Tech

Southern California Gas Company

Southern California Research Initiative for
Solar Energy (SC-RISE)

St. Michael's Episcopal

Sycamore Highlands Community Action
Group

The Pick Group

The Soboba Band of Luiseño Indians

Tiburon Community Watch

Today's Urban Renewal

U.S. Bureau of Reclamation

U.S. Green Building Council

UC Riverside

UC Riverside - Office of Sustainability

UC Riverside, Associate Vice Chancellor
/Campus Architect

UC Riverside, Capital Planning

UC Riverside, Community & Govt. Relations

UCR - Center for Economic Development
and Innovation

Unitarian Universalist Church – Green
Sanctuary

University of California Riverside – East Side
Garden

University Knolls

University Neighborhood Association

Verbena Drive Neighborhood Watch

W3C Neighborhood Alliance

Warkentin Architects

Western Municipal Water District

Whipple Road Neighbors

White Gate Neighborhood Watch

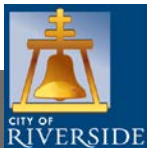
Willow Ave Neighborhood Watch

Wood Streets Community Garden Initiative

Wood Streets Green Team

Wood Streets Neighbor Network

Western Riverside Council of Governments
(WRCOG)



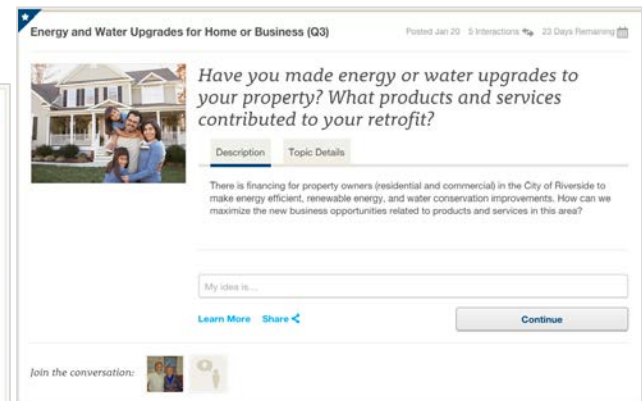
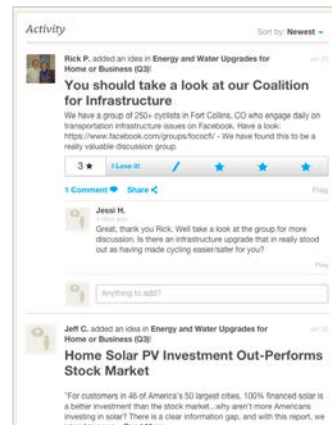
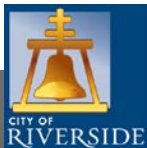
RRG-EPAP DEVELOPMENT: OUTREACH & ENGAGEMENT

Crowdsourcing & Research Campaign

January & February 2015

- Engaged local residents and a global audience for idea sharing
- Solicited feedback and input from a wide knowledge base
- Obtained a perspective beyond the Riverside community
- Learned from the successes and experiences of similar programs around the world

Crowdsourcing Platforms:



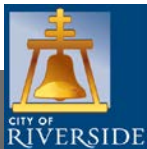
COMPETITIVE LANDSCAPE RESEARCH

Riverside Business Leader Interviews

- Individual interviews with business leaders to gather insight on the “Top 10 EOAs,” ideas for incentive programs and funding recommendations

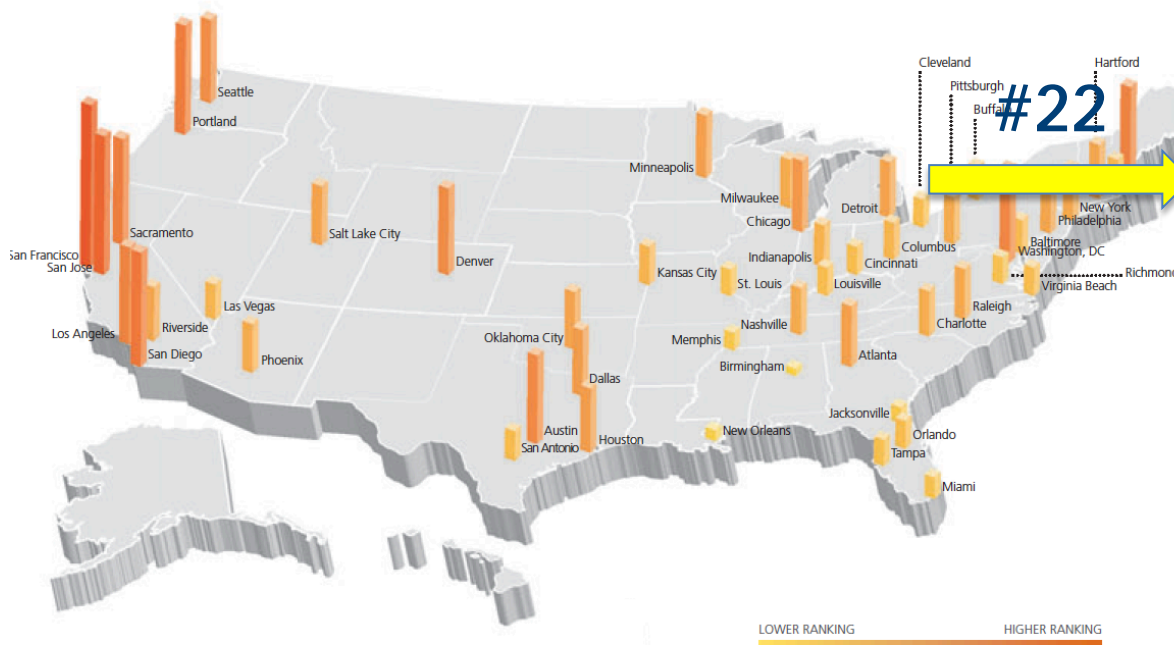
Research & Analysis of Competitive Landscape

- Survey interviews with economic development representatives from other cities and regions to gather insight from their experiences
 - Los Angeles, California - LACI
 - San Jose, California – PROSPECT Silicon Valley
 - Portland, Oregon – Economic Development Office
 - New York City, New York – Economic Development Office
- Review of the 2014 U.S. Clean Tech Leadership Index, and analyze factors leading to success of cities in leadership positions across:
 - Advanced Transportation
 - Green Building
 - Clean-tech Investment
 - Clean Electricity



2014 METRO INDEX OVERVIEW

METRO INDEX

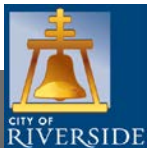


RANK	+/-	METRO AREA	LEADERSHIP SCORE
1	0	San Francisco, CA	94.4
2	0	San Jose, CA	79.7
3	4	San Diego, CA	66.3
4	-1	Portland, OR	62.9
5	1	Sacramento, CA	61.0
6	4	Boston, MA	56.2
7	-3	Los Angeles, CA	56.0
8	-3	Washington, DC	53.6
9	2	Austin, TX	51.3
10	-2	Denver, CO	49.7
11	-2	Seattle, WA	48.2
12	0	Chicago, IL	41.1
13	2	Dallas, TX	37.6
14	2	Houston, TX	37.0
15	-1	Minneapolis, MN	35.6
16	8	Atlanta, GA	35.0
17	-4	Salt Lake City, UT	33.7
18	4	Oklahoma City, OK	33.3
19	7	Detroit, MI	32.1
20	-3	Hartford, CT	31.2
21	-2	Philadelphia, PA	31.1
22	-4	Riverside, CA	30.6
23	-2	New York, NY	29.5
24	-1	Raleigh, NC	28.5
25	0	Milwaukee, WI	28.4
26	-6	Phoenix, AZ	28.0
27	1	Nashville, TN	26.9
28	11	Pittsburgh, PA	26.6
29	0	Charlotte, NC	25.8
30	2	Indianapolis, IN	23.6
31	-4	Kansas City, MO	22.1
32	3	Columbus, OH	20.5
33	1	Providence, RI	20.1
34	-4	Las Vegas, NV	19.5
35	-4	Buffalo, NY	18.8
36	-3	Baltimore, MD	18.5
37	5	San Antonio, TX	17.0
38	3	Virginia Beach, VA	16.4
39	-2	Orlando, FL	16.3
40	-4	Cleveland, OH	15.8
41	2	Louisville, KY	15.7
42	-2	Cincinnati, OH	15.6
43	-5	Richmond, VA	15.1
44	0	St. Louis, MO	15.1
45	0	Tampa, FL	14.0
46	0	Miami, FL	11.7
47	1	Memphis, TN	10.4
48	-1	Jacksonville, FL	9.2
49	0	New Orleans, LA	6.4
50	0	Birmingham, AL	4.1

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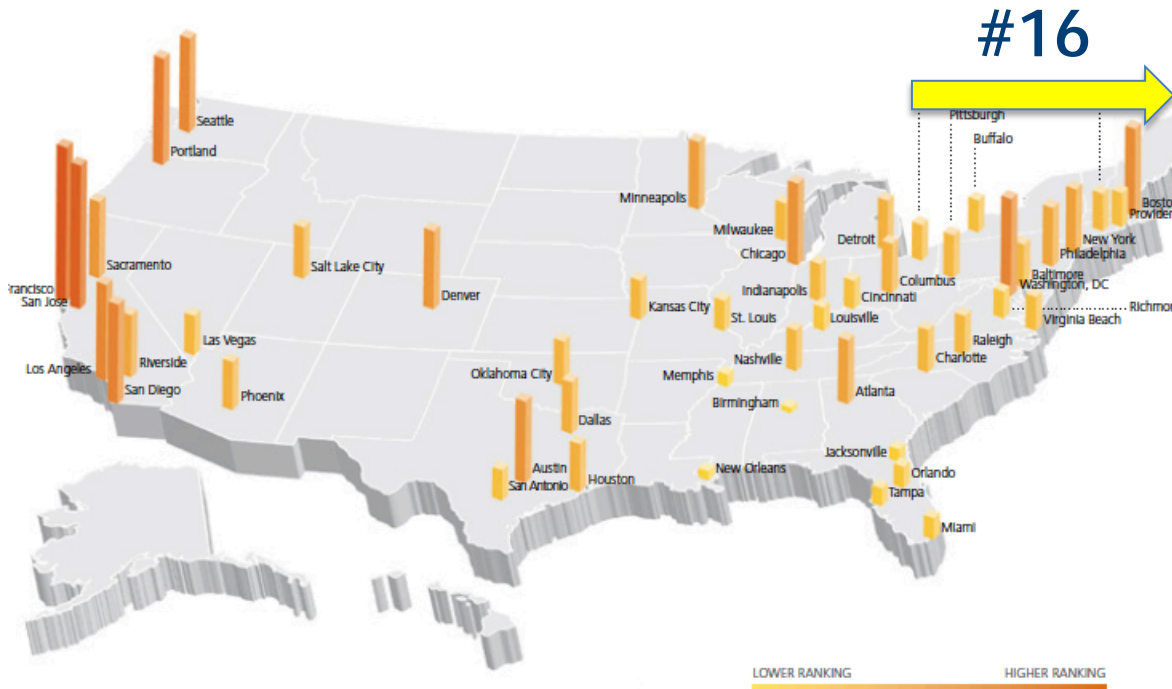
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2015 METRO INDEX OVERVIEW

METRO INDEX



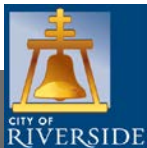
RANK	+/-	METRO AREA	LEADERSHIP SCORE
1	0	San Francisco, CA	86.5
2	0	San Jose, CA	80.6
3	1	Portland, OR	59.7
4	-1	San Diego, CA	55.5
5	3	Washington, DC	55.2
6	1	Los Angeles, CA	53.8
7	4	Seattle, WA	52.2
8	-2	Boston, MA	49.2
9	0	Austin, TX	46.4
10	2	Chicago, IL	45.8
11	-1	Denver, CO	43.5
12	-7	Sacramento, CA	42.7
13	2	Minneapolis, MN	37.8
14	9	New York, NY	36.4
15	1	Atlanta, GA	36.4
16	6	Riverside, CA	34.8
17	4	Philadelphia, PA	32.5
18	-1	Salt Lake City, UT	28.9
19	-6	Dallas, TX	28.9
20	-1	Detroit, MI	28.4
21	11	Columbus, OH	27.5
22	-8	Houston, TX	27.3
23	3	Phoenix, AZ	27.0
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28	-1	Nashville, TN	22.7
29	2	Kansas City, MO	21.7
30	-6	Raleigh, NC	21.7
31	3	Las Vegas, NV	21.6
32	-12	Hartford, CT	20.6
33	-8	Milwaukee, WI	20.6
34	-4	Indianapolis, IN	20.5
35	5	Cleveland, OH	19.6
36	-3	Providence, RI	19.4
37	1	Virginia Beach, VA	18.5
38	-3	Buffalo, NY	18.4
39	5	St. Louis, MO	17.4
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42	1	Richmond, VA	14.5
43	-2	Louisville, KY	13.3
44	2	Miami, FL	12.3
45	-6	Orlando, FL	11.9
46	-1	Tampa, FL	10.0
47	1	Jacksonville, FL	7.3
48	-1	Memphis, TN	6.2
49	0	New Orleans, LA	5.0
50	0	Birmingham, AL	2.5

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#4 – Advanced Transportation

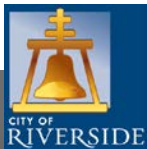


RiversideCa.gov

RIVERSIDE'S 2015 SCORECARD AT-A-GLANCE

Riverside placed in the top 50 Metro areas for the four major categories used by the Clean Tech Leadership Metro Index:

	<u>2015</u>	<u>2014</u>
Green Buildings	#37	#41
Advanced Transportation	#4	#10
Clean Electricity & Carbon Management	#14	#13
Clean Tech Investment, Innovation & Workforce	#44	#45



RRG-EPAP RECOMMENDATIONS

Implementation Plan focuses on **five overarching strategies** aimed at effectively and efficiently facilitating Smart Growth development by stimulating more sustainable infrastructure investment:



Placemaking



RRG Policy Lens



Smart Growth Infrastructure



Community Connections



Future Leaders

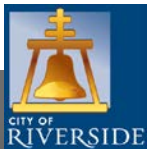
RRG-EPAP NEXT STEPS

4-step implementation process:

- 1) Ownership
- 2) Resources
- 3) Plan Timeline
- 4) Engagement

A Promotional Strategy to help to raise awareness both internally and externally in development to include:

- 2016 Speaking Schedule – submit abstracts to showcase Riverside at key conferences
- Presentation Materials
- Social Media Strategy
- Annual Clean-tech Symposium



CLIMATE ACTION PLAN (RRG-CAP)

- Roadmap for the City of Riverside to achieve deep GHG emissions through the year 2035
- Establishes policies and priorities enabling the City to implement strategies that fulfill the requirements of State initiatives, AB 32 and SB 375
- Aligns with the City's planning priorities and its vision of a future economy based on "clean, green businesses and business practices"



CLIMATE ACTION PLANNING PROCESS

1

- Inventory and forecast emissions

2

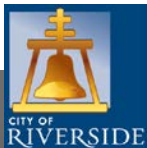
- Establish reduction targets

3

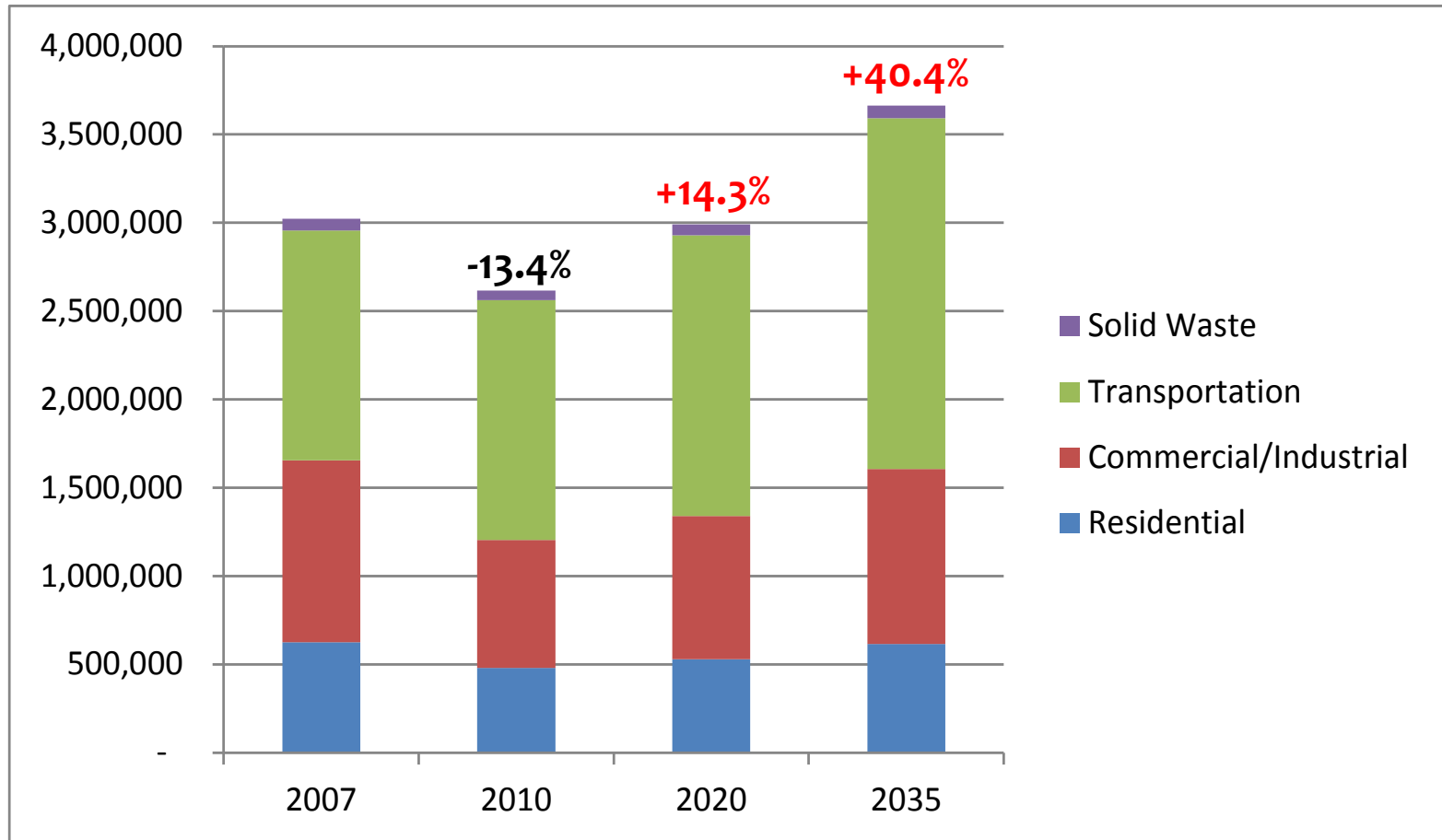
- Develop Climate Action Plan

4

- Implement plan and monitor results

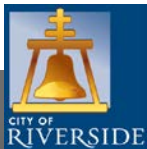


COMMUNITY EMISSIONS INVENTORY AND FORECASTS BY SECTOR

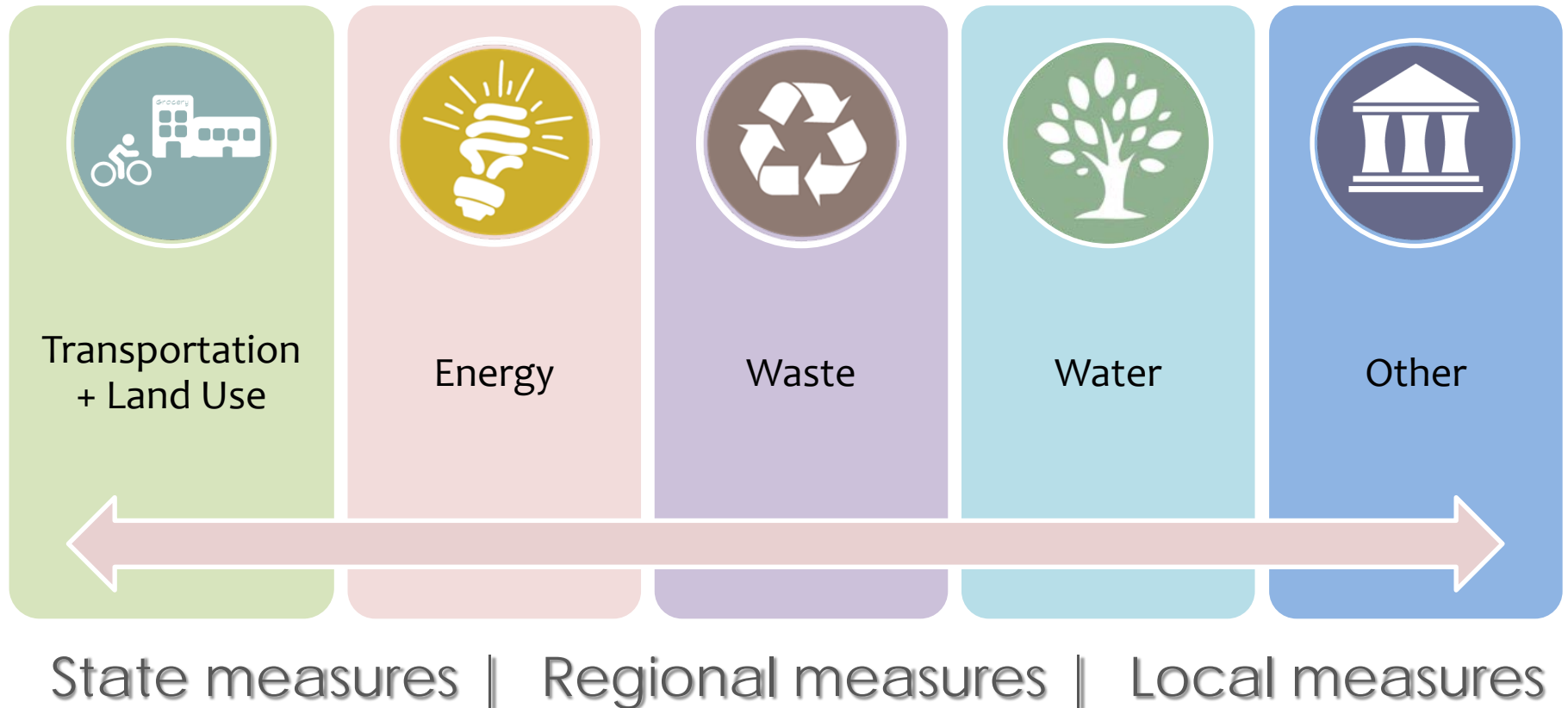


EMISSIONS TARGETS

- Align with AB 32 (2020) and SB 375 (2035)
- Align with WRCOG Subregional CAP targets
- Aligns with Executive Orders S-3-05 and B-30-15
- Recommended reduction *targets*:
 - 15% below 2010 emissions by 2020
 - 26.4% below 2007 baseline by 2020
 - 49% below 2007 baseline by 2035



DEVELOPING EMISSIONS REDUCTION MEASURES



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)



LOCAL ECONOMY AND OTHER COMMUNITY BENEFITS



**Local Economic
Opportunities**



Energy



**Public
Health**



**Local
Jobs**



Resources

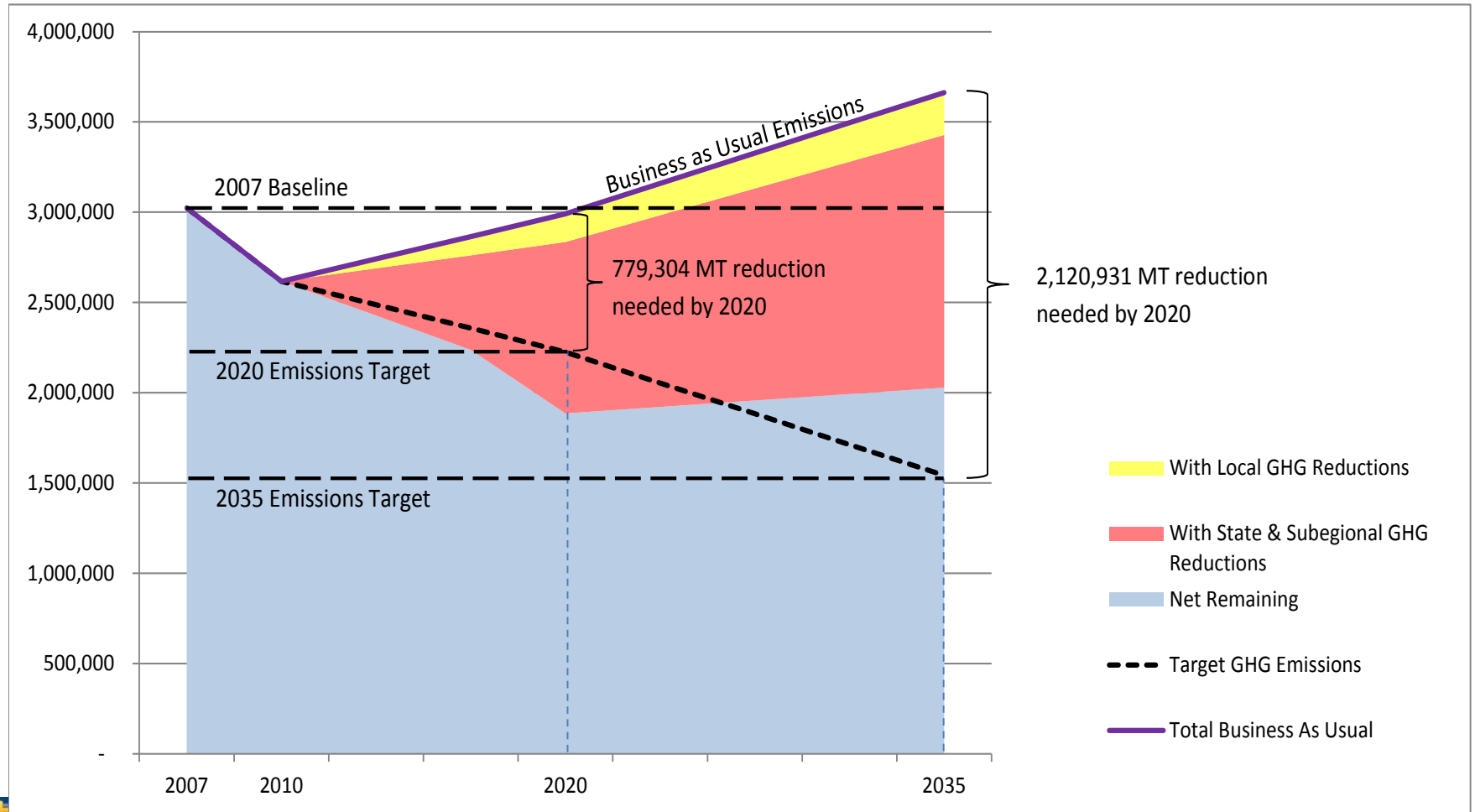


Mobility

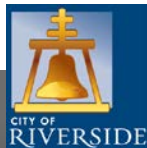
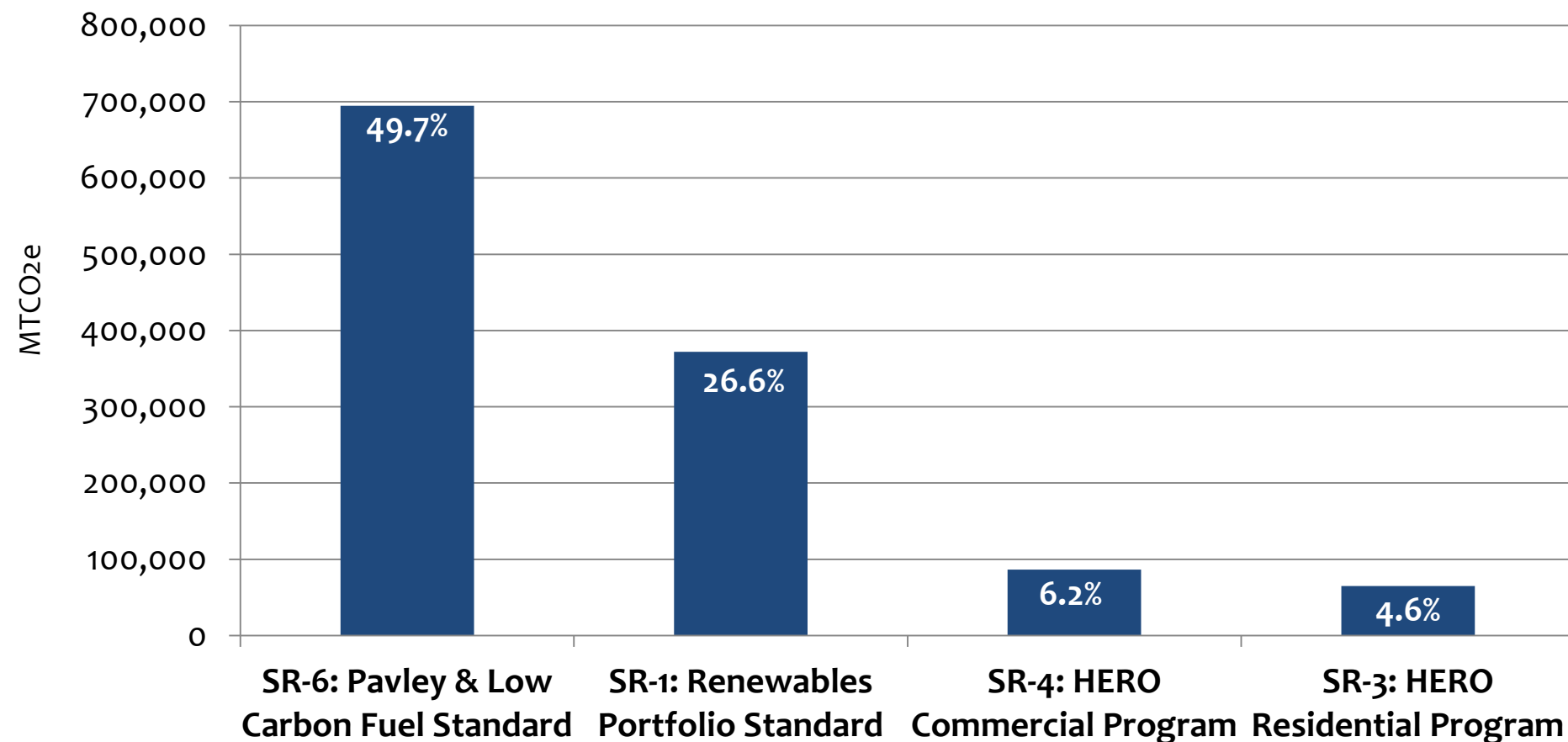


Placemaking

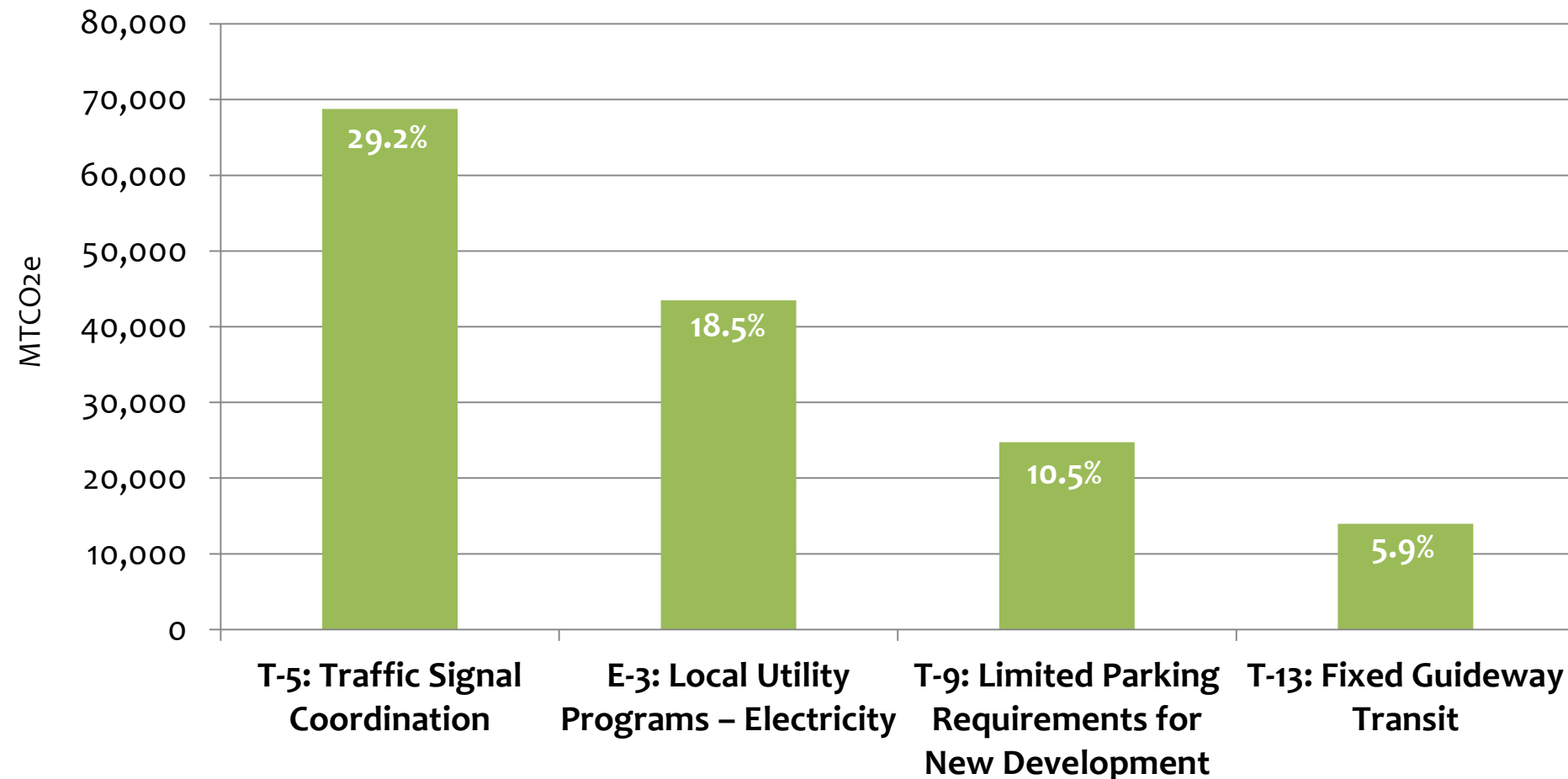
REDUCTIONS ACHIEVED THROUGH STATE, REGIONAL, AND LOCAL MEASURES



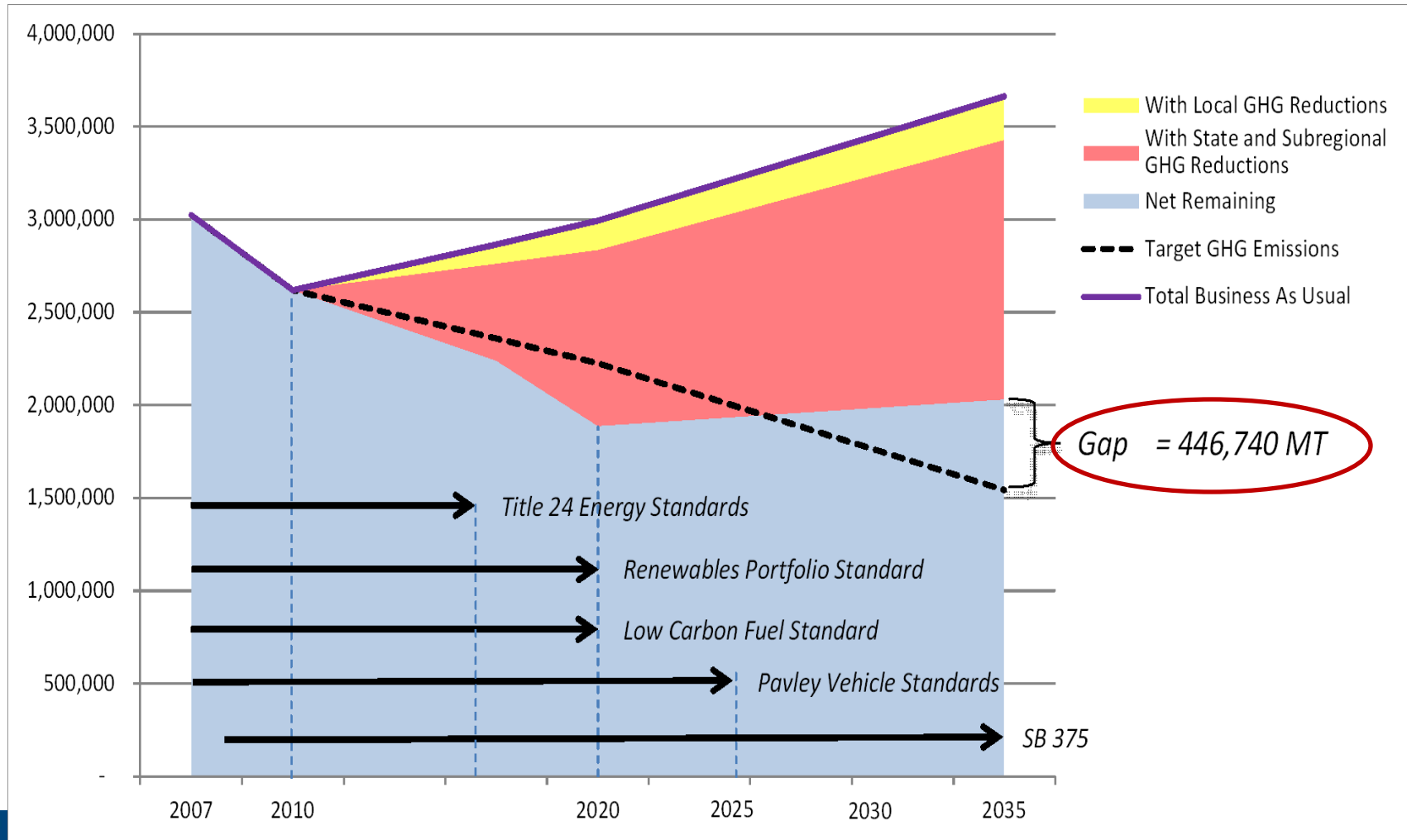
GHG REDUCTION POTENTIAL TOP 4 STATE/REGIONAL MEASURES



GHG REDUCTION POTENTIAL TOP 4 LOCAL MEASURES



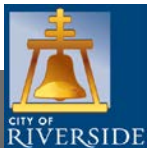
IMPACT OF REDUCTION MEASURES ON GHG TARGETS



STRATEGIES TO CLOSE THE GAP TO REACH 2035 TARGET

Governor's EO B-30-15 and recent policy & technology developments suggest that the greatest potential for additional GHG reductions in Riverside can be achieved through strategies to:

- Reduce vehicle miles traveled (VMT)
- Low-carbon fuels and vehicles
- Low-carbon electricity
- Energy efficiency



STRATEGIES TO CLOSE THE GAP TO REACH 2035 TARGET

- Two Scenarios outlined to close the GAP to reach the 2035 Target



- State Actions between now and 2020 will better inform an appropriate Local Scenario approach out to 2035.



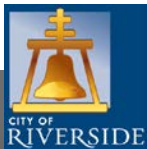
- By 2020, Local Actions (Scenario 1 or 2) plus State Actions to reach the 2035 target to be included in RRG 2.0 and General Plan update



SCENARIO 1: EMPHASIS ON TECHNOLOGY AND MARKET TRANSFORMATION

- **Key State Actions**

- Advanced vehicle efficiency standards that go beyond Pavley II
- Stricter requirements for low carbon fuels
- Policies that promote electrification of transportation / building sectors
- Policies that drive technological advancement in energy storage
- More stringent renewables portfolio standard: mandate for electric utilities to achieve 50% to 60% renewables by 2035
- More stringent Title 24 energy efficiency standards for new buildings
- Programs and incentives to improve energy efficiency in existing buildings



SCENARIO 1: EMPHASIS ON TECHNOLOGY AND MARKET TRANSFORMATION

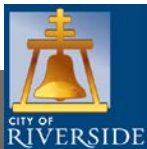
- **Key Local Actions**

- RPU to achieve 50% to 60% renewables in electricity mix by 2035
- City to secure and dedicate resources for local energy efficiency programs
- City to support low carbon vehicle/fuel infrastructure
- City to incentive or require lower VMT associated with land use development through TOD, parking restrictions, and TDM programs
- City to enforce the state's increasingly stringent building standards
- Enhance water conservation



SCENARIO 2: EMPHASIS ON LOCAL LAND USE CHANGES

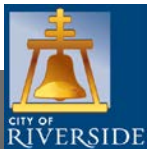
- **Key State Actions:**
 - Regional land use and transportation policy and funding streams that further incentivizes transit system development and VMT reduction through transit-oriented development and other land use strategies
 - More stringent renewables portfolio standard: mandate for electric utilities to achieve 50% to 60% renewables by 2035
 - More stringent Title 24 energy efficiency standards for new buildings
 - Programs and incentives to improve energy efficiency in existing buildings



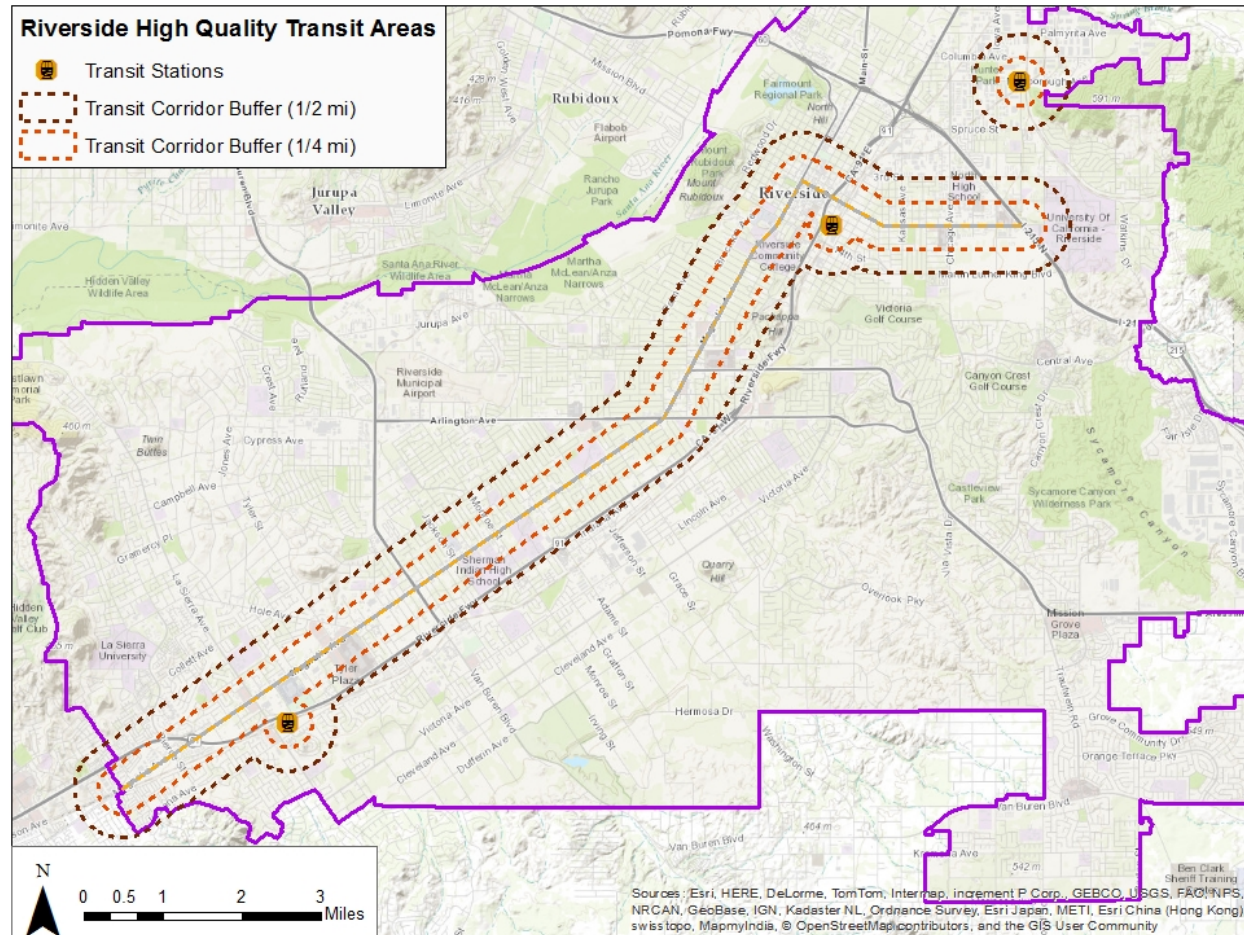
SCENARIO 2: EMPHASIS ON LOCAL LAND USE CHANGES

- **Key Local Actions:**

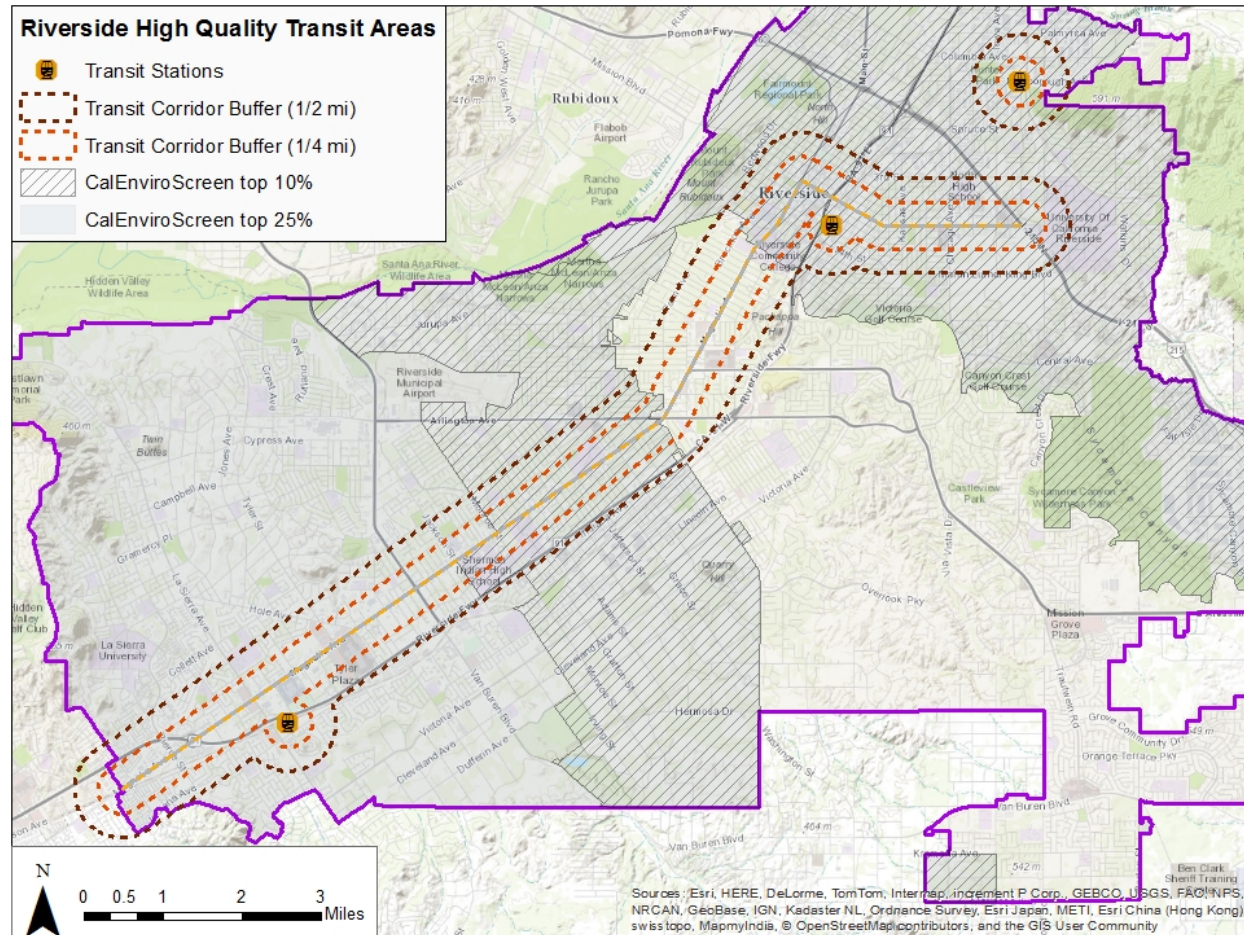
- Same as Scenario 1, plus aggressive local land use policies and zoning changes that significantly reduce VMT
- Specifically, growth directed toward identified HQTAs including the Magnolia/University Avenue corridor and Metrolink stations
- Land use mix and development density within HQTAs need to increase significantly (minimum 20 du/ac) to achieve a 30% increase in household-employment densities



SCENARIO 2: LOCAL LAND USE CHANGES – RIVERSIDE HOTAs

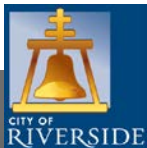
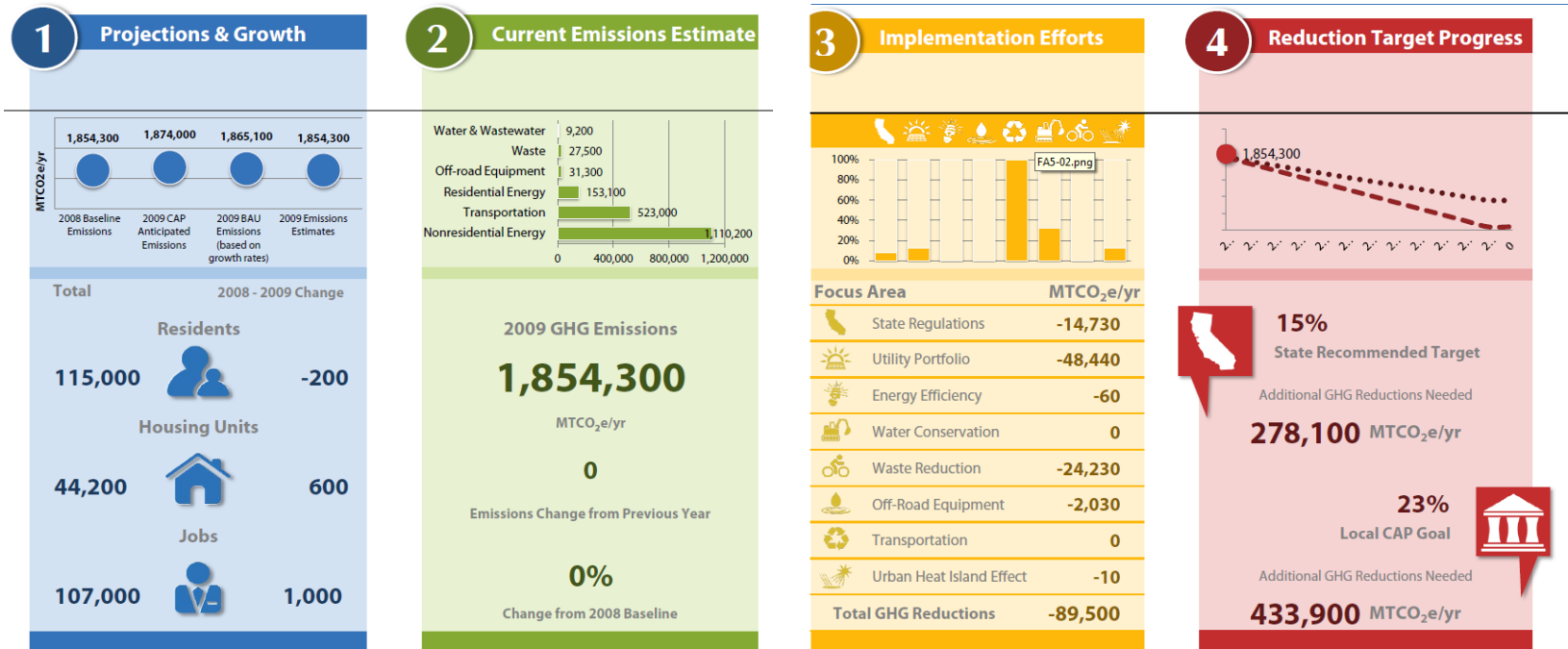


SCENARIO 2: RIVERSIDE HQTAs & CAL ENVIROSCREEN FUNDING OVERLAY



IMPLEMENTATION AND MONITORING

- Implementation, administration & funding
- Ongoing monitoring of activity data and measure progress



RRG FINAL STEPS

June-August 2015

Public Meetings on
Draft RRG
EPAP Promotional
Strategy

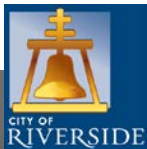
Fall 2015

Adoption Hearings
Develop Tracking &
Monitoring Tool



RECOMMENDATIONS

- That the Board of Public Utilities receive this update on the Riverside Restorative Growthprint (RRG), including the Economic Prosperity Action Plan (RRG-EPAP) and Climate Action Plan (RRG-CAP).

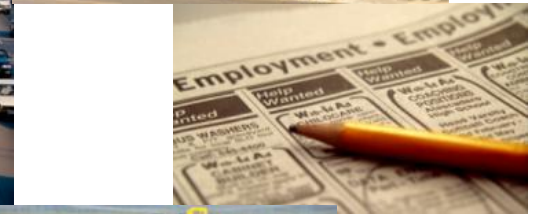


Backup Slides



Incentives and Benefits of a Climate Action Plan

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



Benefits of an Economic Prosperity Action Plan

EXISTING BUSINESS INITIATIVES

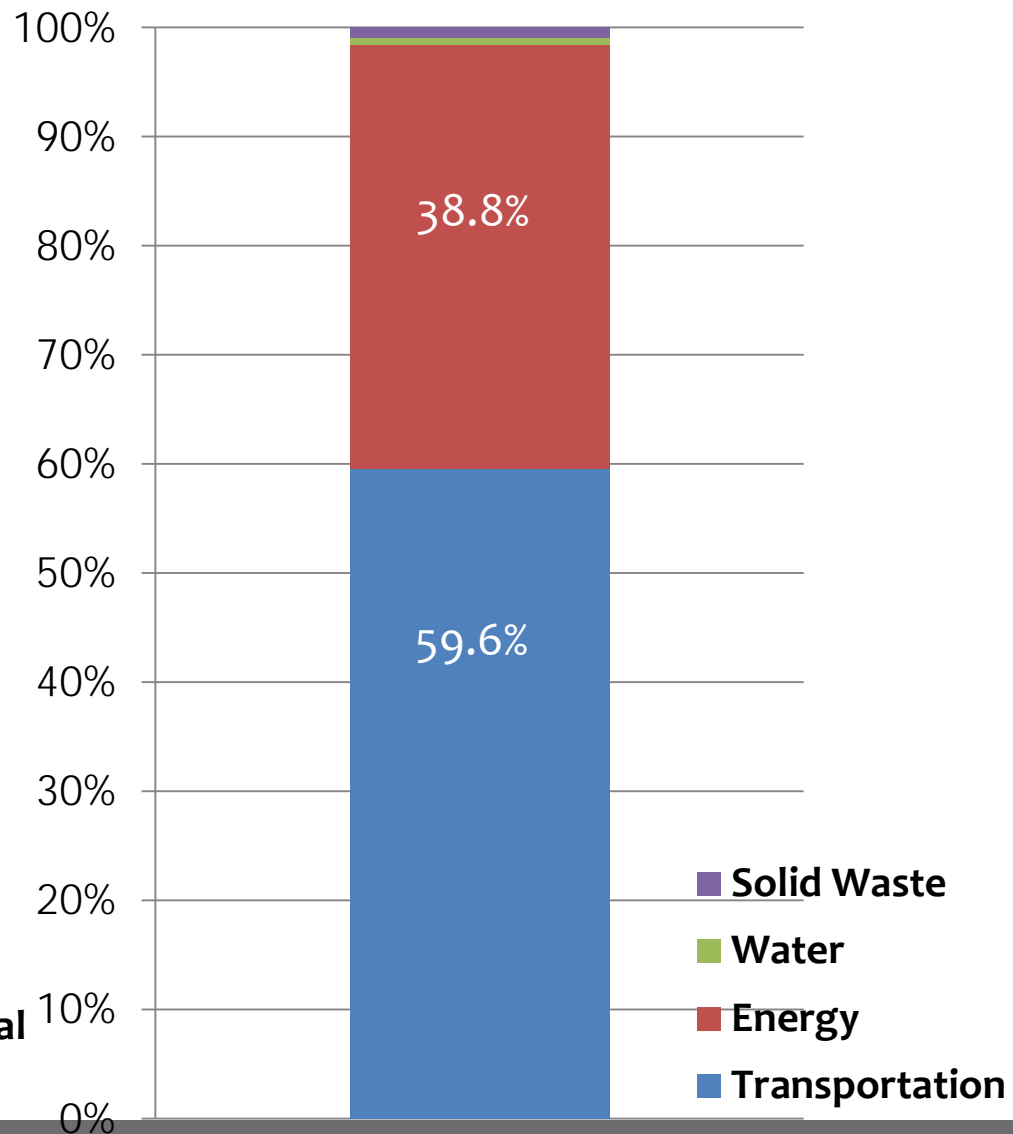
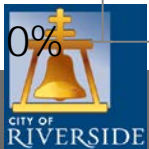
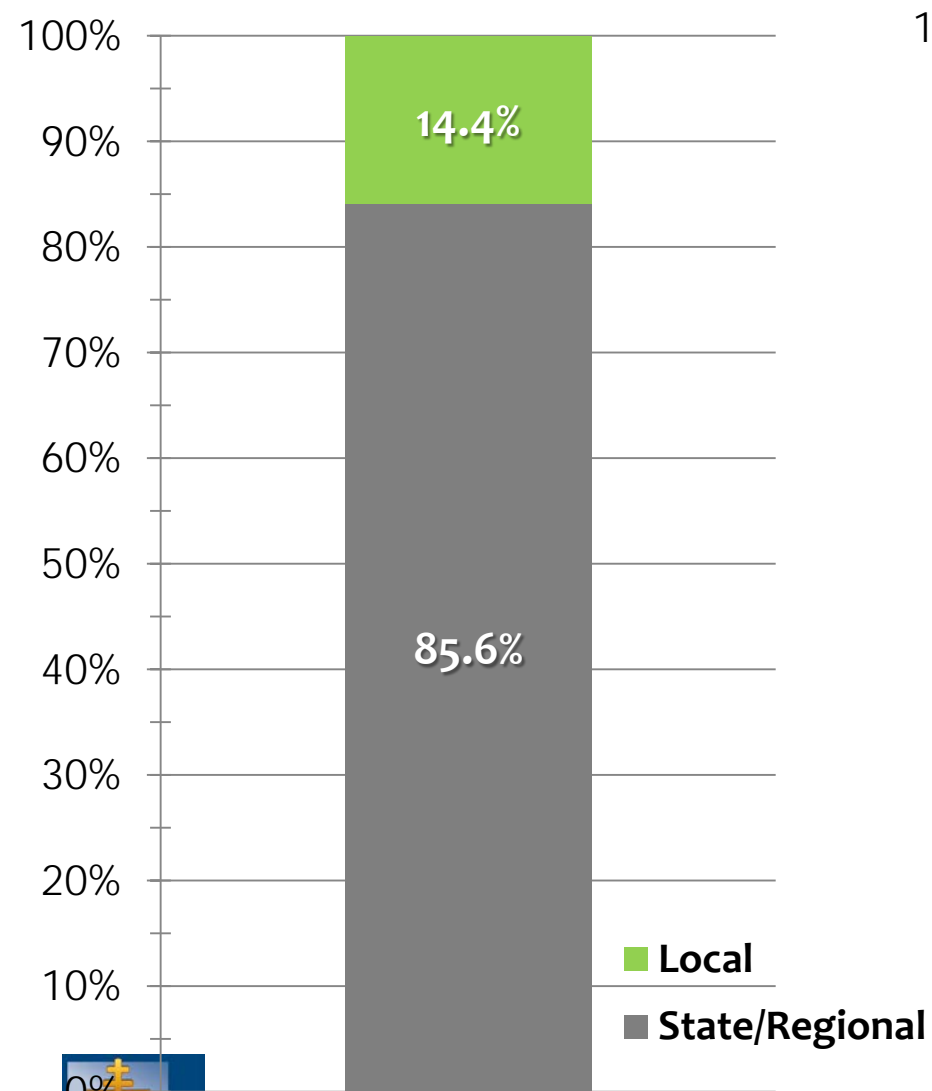
- Develop Green Business Program
- Highlight successes and showcase leadership (award presentations, etc.)
- Build supportive business networks and cultivate affiliations and connections between stakeholders
- Grow existing businesses and services offered leading to job growth

NEW BUSINESS DEVELOPMENT

- Develop incentives to attract new businesses and create demand for relocation to Riverside
- Incubate and foster the growth of clean tech and sustainable businesses
- Create partnership opportunities between the business community and university programs



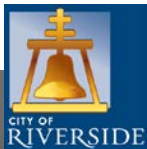
2035 Emissions Reductions



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



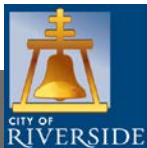
Reduction Measures

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
- Urban



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

