

Climate Action 2020:

a Regional Program for Sonoma County Communities

Update on the Development of the Public Review Draft

RCPA Board, December 14, 2015

Project Objectives

To develop a community wide, regional climate action plan for all of Sonoma County to:

- Comply with the Global Warming Solutions Act
- Achieve local near term goals in collaboration
- Take the next steps towards a long-term, low-carbon future
- Provide framework to address greenhouse gas (GHG) impacts under CEQA

Roles

- PRMD – lead grant recipient
- County of Sonoma, all nine Cities, and RCPA - participating entities
- RCPA – project manager
- Staff Working Group – planning staff team directing project
- Stakeholder Advisory Group – appointed community representatives advising SWG
- Center for Climate Protection, ICF, North Bay Climate Adaptation Initiative, Sonoma State University – sub-recipients and technical consultants

Familiar Countywide Planning Model

Comprehensive Transportation Plan	Climate Action 2020 parallel
Review and update plan goals and targets	Review GHG target and develop new sector goals
Summarize current conditions and progress towards targets	Evaluate current emissions and progress against historic, evaluate current programs
Estimate future conditions and set a baseline	Estimate future conditions and set a baseline
Develop list of projects, policies, and programs that can help meet goals	Develop list of projects, policies, and programs that can help meet goals
Test project and policy performance	Evaluate reduction measure potential in each jurisdiction using reduction planning tools
Determine how CTP goals and targets can be achieved	Determine package of Local Measures needed to compliment State and Countywide measures to achieve goal

Milestones

- Analysis of:
 - Greenhouse gas (GHG) inventories, backcasts, and forecasts
 - Local climate vulnerabilities
 - Existing policies & programs
 - State, regional, and existing program impacts
- Draft climate action goals
- Draft new local measures list
- Custom reduction planning tools
- SWG review of Admin Draft
- RCPA member review meetings
- EIR Scoping Period & Meeting
- Community involvement:
 - Stakeholder Advisory Group dialogues
 - Sector specific Ad Hoc reviews of technical approach
 - Public workshops, including at commissions and councils
 - Community group presentations
 - Festivals & events
 - Sonoma County Adaptation Forum
 - RCPA Board Meetings

The Draft is intended to be...

- Comprehensive in addressing all primary GHG sources
- Transparent in approach to provide for dialogue about assumptions
- Sufficiently detailed to provide clarity in defining policy and program opportunities
- Flexible in allowing each jurisdiction to define priorities
- Clear in integrating efforts at all levels of government
- Effective at building from a long history of action

Plan Audiences

Audience	Intent of the plan is to...	Role in Plan Success
RCPA Board	Provide a roadmap for how to deliver on Mission in collaboration with primary actors	Guide countywide adoption
City Councils and the Board of Supervisors	Define how specific efforts fit into a regional, coordinated response to climate change	Guide jurisdictional adoption
Local Government Staff	Provide an evaluation of and roadmap for local program and policy opportunities	Work with RCPA to implement
Regional Agency Partners	Articulate how existing programs and policy commitments fit within a countywide approach to climate change	Continue current programs
Businesses and Community Groups	Provide clarity around policy priorities and local investment opportunities to advance a low-carbon economy	Participate in programs
Residents	Articulate priorities for the government role in ensuring a clean and prosperous future and identify opportunities to participate	Participate in programs

Draft Plan Highlights

A better future, with lower
carbon emissions is possible
in Sonoma County.

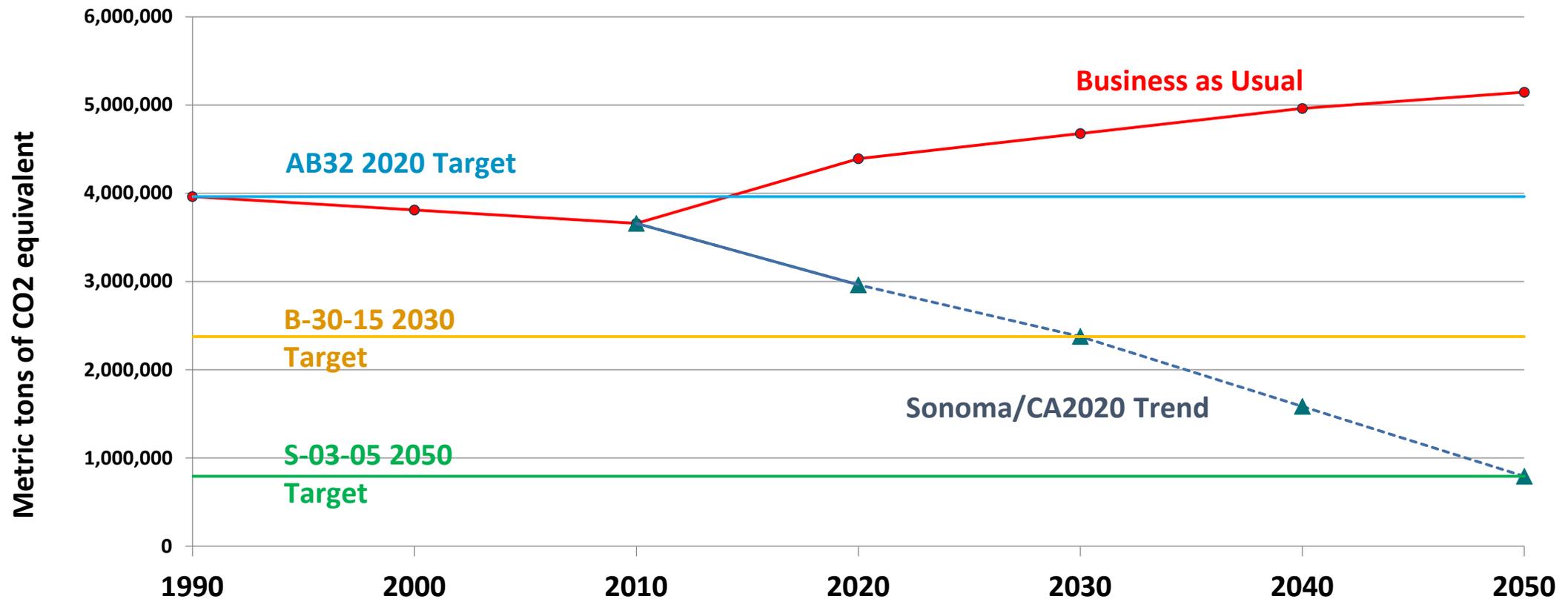
20 20 +

Advances 20 Primary Goals

1	Increase building energy efficiency	11	Reduce water consumption
2	Increase renewable energy use	12	Increase recycled water and greywater use
3	Switch equipment from fossil fuel to electricity	13	Increase water and wastewater infrastructure efficiency
4	Reduce travel demand through focused growth	14	Increase use of renewable energy in water and wastewater systems, including methane
5	Encourage a shift towards low-carbon transportation options	15	Reduce emissions from livestock operations
6	Increase vehicle and equipment fuel efficiency	16	Reduce emissions from fertilizer use
7	Encourage a shift towards low-carbon fuels in vehicles and equipment	17	Protect and enhance the value of open and working lands
8	Reduce idling	18	Promote sustainable agriculture
9	Increase solid waste diversion	19	Increase carbon sequestration
10	Increase capture and use of methane from landfills	20	Educate residents about emissions from the consumption of goods and services

Proposes New Long-term Targets

Sonoma County Greenhouse Gas Emissions Pathways

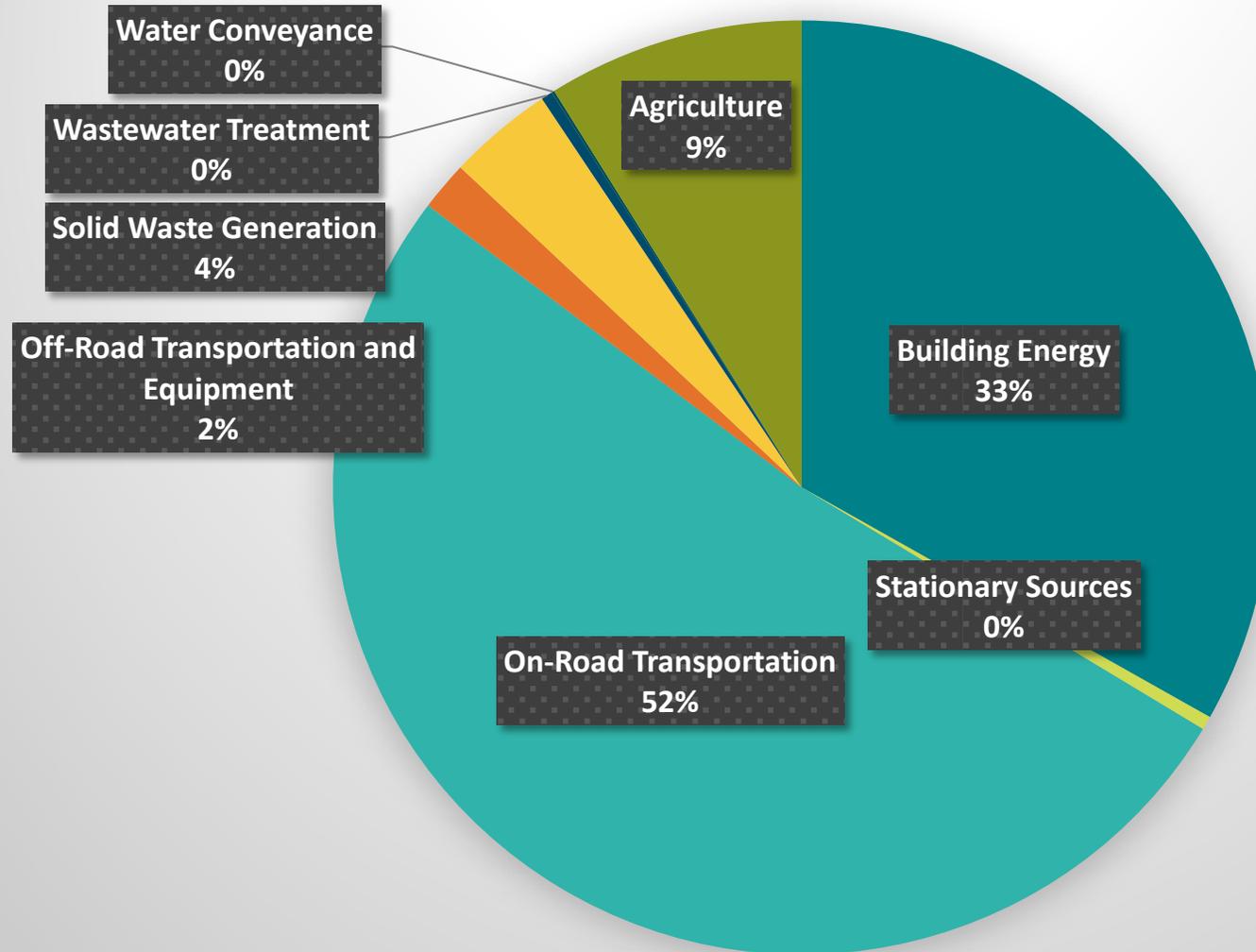


Is Built Upon Collaboration

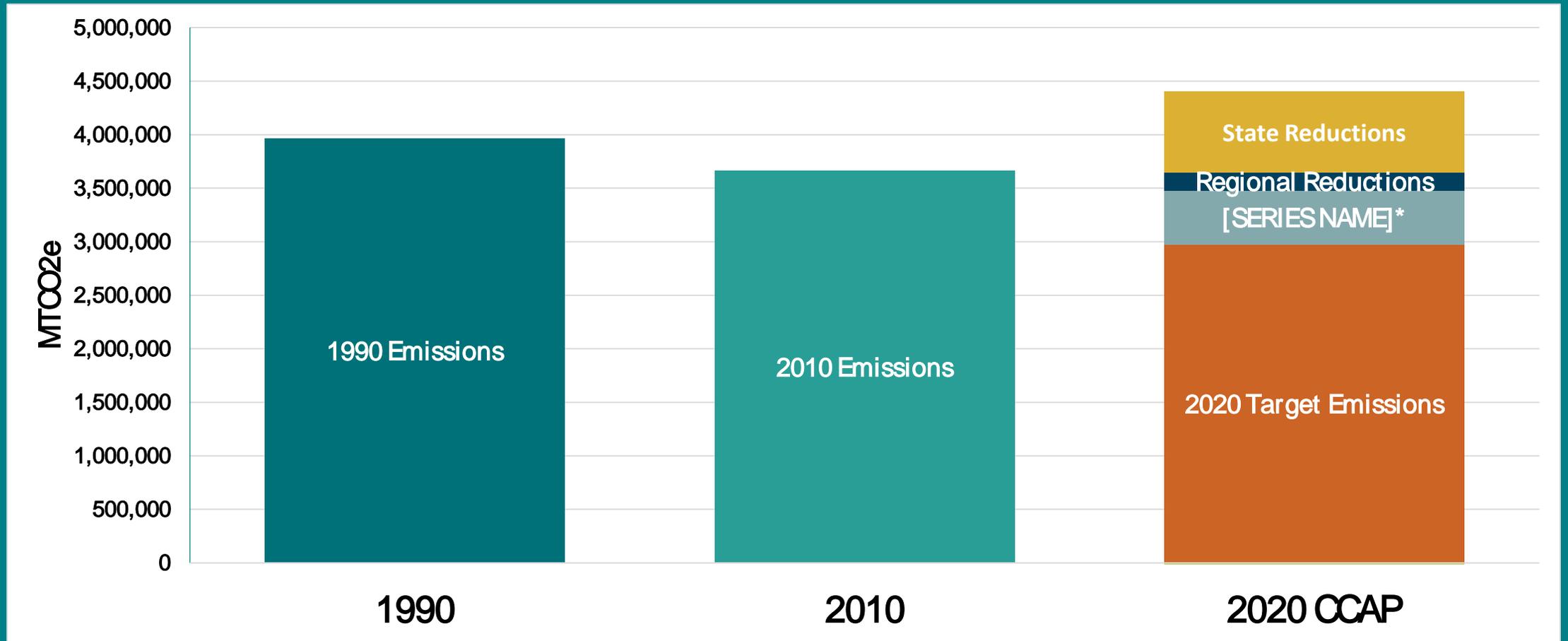
Partners at All Levels of Government

<p>State</p>	
<p>Regional</p>	
<p>Local</p>	

Baseline (2010) Emissions



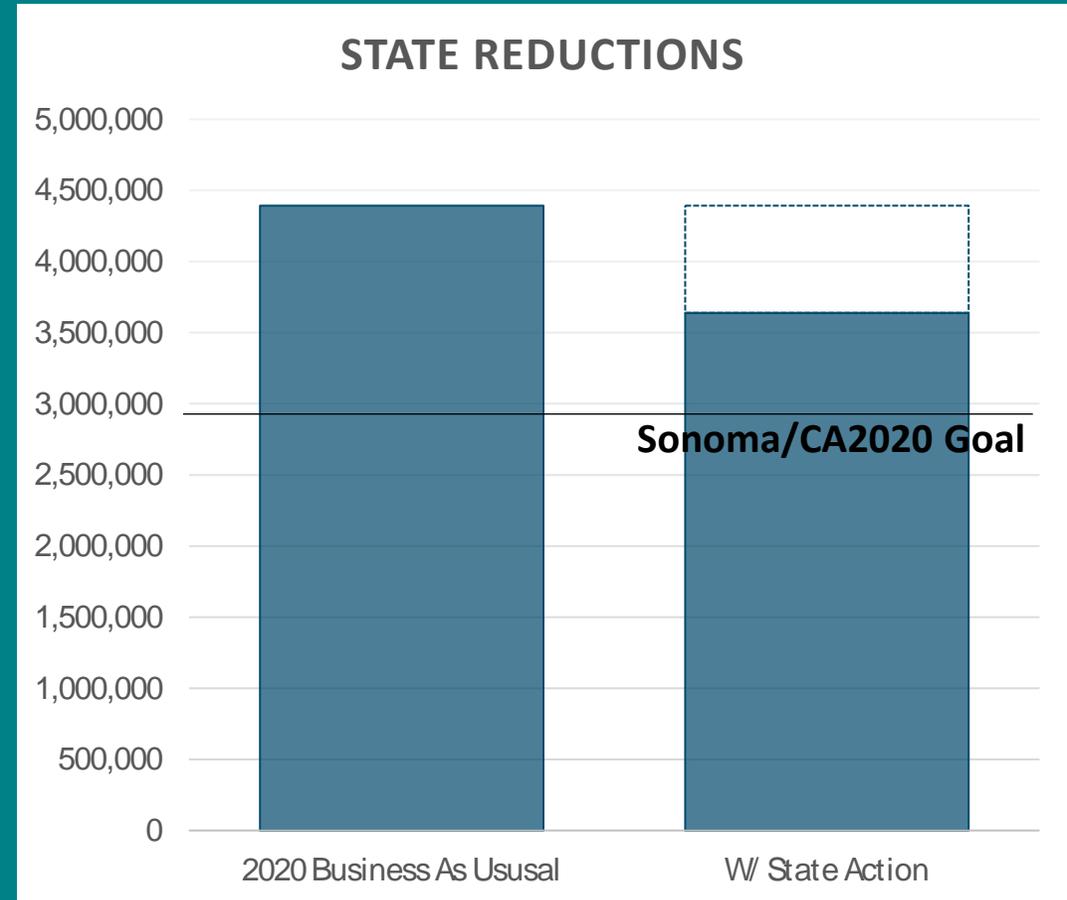
25% below 1990 levels is possible



*Local reductions include Santa Rosa's CAP Measures

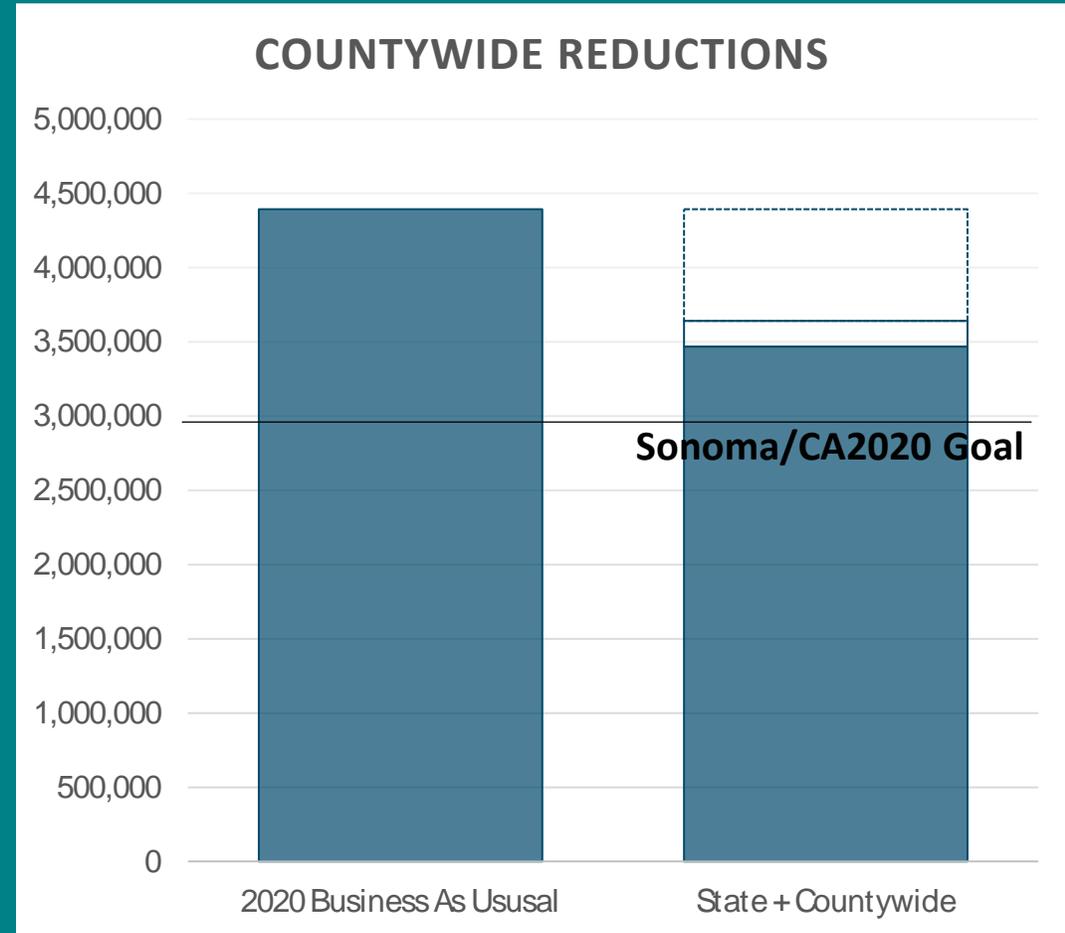
State Actions provide >50% of the goal

1-S1	Title 24 – Building Energy Efficiency
1-S2	Lighting efficiency and toxics
1-S3	Industrial boiler efficiency
2-S1	Renewable Electricity Portfolio
2-S2	Solar water heaters
6-S1	Pavley and LCFS
6-S2	Advanced Clean Cars
6-S3	AB 32 vehicle efficiency
7-S1	Low Carbon Fuel Standard



Countywide* Actions provide ~12%

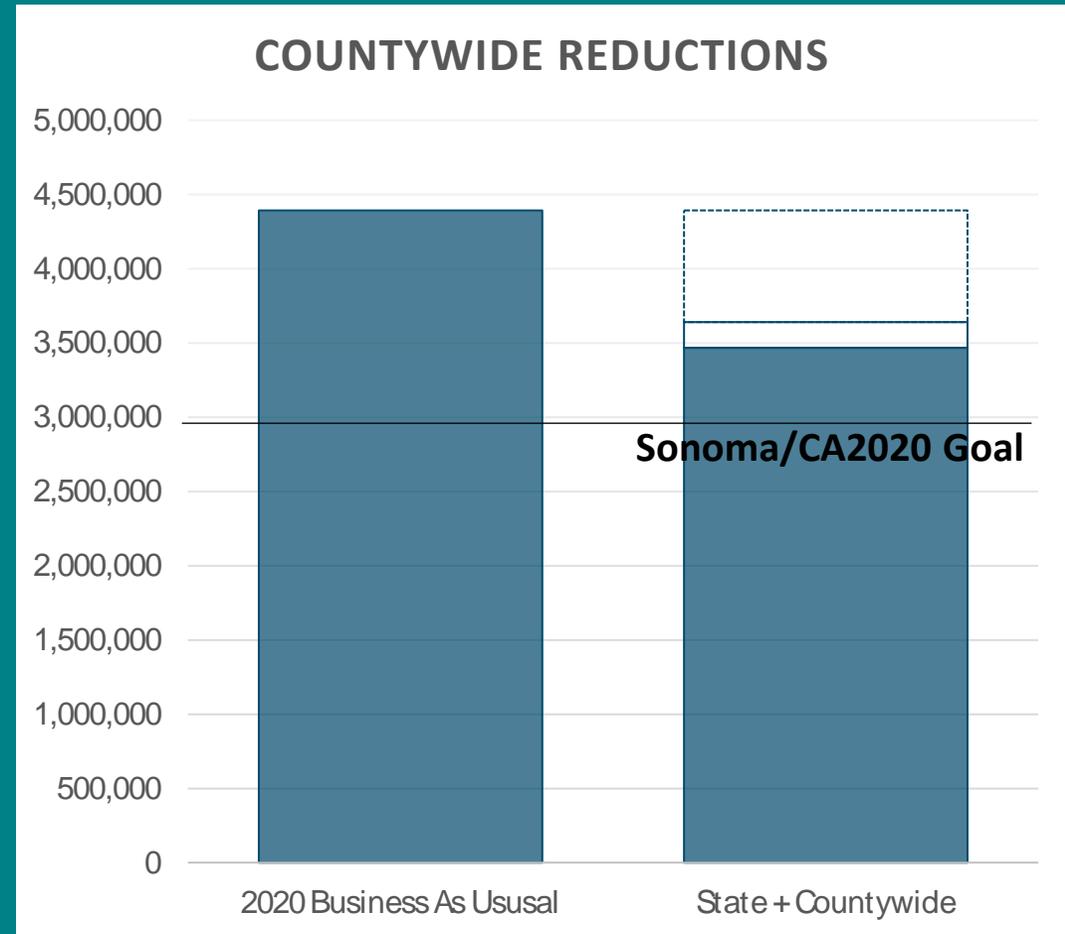
1-C1	Existing Building Retrofits
1-C2	Expand Existing Building Retrofits
2-C1	Sonoma Clean Power
3-C1	Fuel switching
9-C1	Increase waste diversion
10-C1	Landfill methane
11-C1	Water conservation incentives
12-C1	Recycled water
13-C1	Water supply system efficiency
13-C2	Wastewater treatment efficiency
14-C1	Carbon Free Water
14-C2	Anaerobic digesters
14-C3	Wastewater methane to energy



*Serving multiple jurisdictions; Entities involved: RCPA, Energy Independence Office, Sonoma Clean Power, Regional Air Districts, Sonoma County Solid Waste Management Authority, Sonoma County Water Agency 17

...Countywide continued

5-C1	Increase Transit Service
5-C2	Supporting Transit Measures
5-C3	SMART
5-C4	Trip Reduction Ordinance
5-C5	Transportation Demand Management Program
5-C6	Transit Passes
5-C7	Marketing and Education
5-C8	Safe Routes to School
5-C9	Car Share
5-C10	Bike Share
7-C1	Fuel Shift Sonoma County
7-C2	Fuel Shift Transit Vehicle Fuel



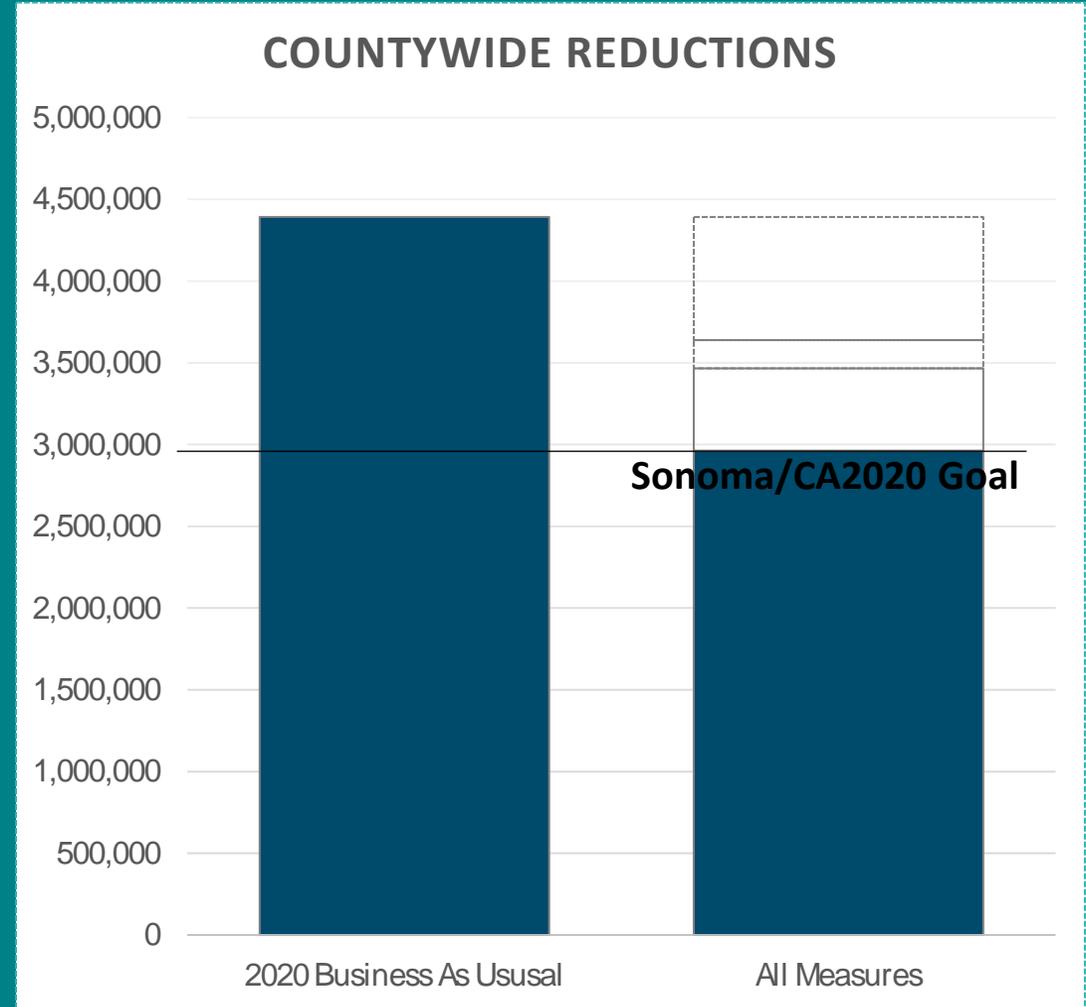
Entities involved: SCTA, SMART, Transit Operators, Department of Health Services, Sonoma Clean Power, Regional Air Districts, MTC, ABAG

Additional Local Actions are needed

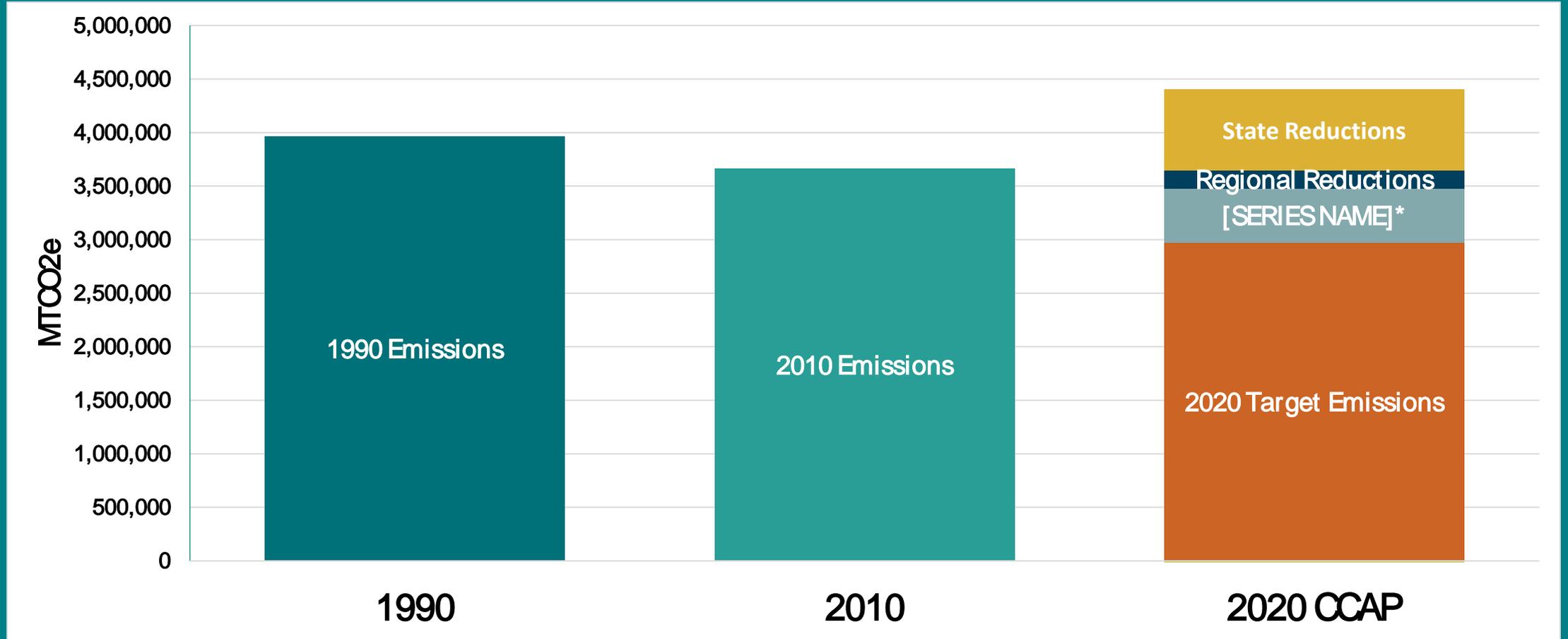
1-L1	Co-generation	5-L1	Transportation Demand Management Program
1-L2	Solar on New Residential Development	5-L2	Carpool and Rideshare Incentives
1-L3	Solar on Existing Residential Buildings	5-L3	Guaranteed Ride Home
1-L4	Solar on New Non-Residential Development	5-L4	Supporting Bicycle and Pedestrian
2-L1	Solar on Existing Non-Residential Buildings	5-L5	Traffic Calming
2-L2	Convert to Electric Water Heating	5-L6	Parking Policies
2-L3	Mixed Use Development	5-L7	Supporting Parking Policy
2-L4	Transit Accessibility	7-L1	EV Charging Station Program
3-L1	Supporting Land Use Measures	7-L2	Electrify Landscaping Equipment
4-L1	Affordable Housing Linked to Transit	7-L3	Electrify Construction Equipment
4-L2	Co-generation	7-L4	Reduce fuel use in off-road equipment through efficiency and fuel switching
4-L3	Solar on New Residential Development	8-L1	Idling ordinance
4-L4	Solar on Existing Residential Buildings	8-L2	Idling ordinance

...Local continued

9-L1	Construction & Demolition Ordinance
11-L1	Senate Bill SB X7-7 – Water Conservation
11-L2	New construction water efficiency
11-L3	Water conservation in existing buildings
12-L1	Increase greywater use
14-L1	Renewable energy for water treatment and delivery systems
15-L1	Methane Capture and Combustion at Dairies
15-L2	Utilize existing digester to generate electricity
15-L3	Reduce emissions from enteric fermentation
16-L1	Optimize fertilizer use



25% below 1990 levels is possible



*Local reductions include Santa Rosa's CAP Measures

Draft Climate Readiness Goals

1	Promote healthy, safe communities
2	Protect water resources
3	Promote a sustainable, climate-resilient economy
4	Mainstream the use of climate projections (not just past patterns) in planning, design, and budgeting
5	Protect coastal, bayside, and inland buffer zones
6	Promote food system security and agricultural climate preparedness
7	Protect infrastructure: buildings, energy systems, communications systems, water infrastructure, and transportation systems
8	Increase emergency preparedness
9	Monitor the changing climate and its biophysical effects, in real time

RCPA Role

Central role in supporting plan implementation by:

- Securing funding for implementation
- Developing research, best practices, and tools for new strategies
- Developing model policy and program language
- Convening working groups across members to craft measure specifics
- Monitoring implementation progress:
 - Annual measure status review
 - Updated inventories for 2015, 2018, and 2020
- Leading the development of a planning frame-work for 2030 and 2050 targets

Next Steps

- Complete last round of edits to Public Review Draft with SWG
- Finalize Draft EIR
- Present Draft CAP and EIR to RCPA Board
- Present Draft CAP and EIR to Planning Commissions and Councils in each jurisdiction and receive public comments
- Review Draft CAP and EIR with Stakeholder Advisory Group and receive comments
- Incorporate Feedback and Update Analysis
- Publish Final Draft CAP and EIR