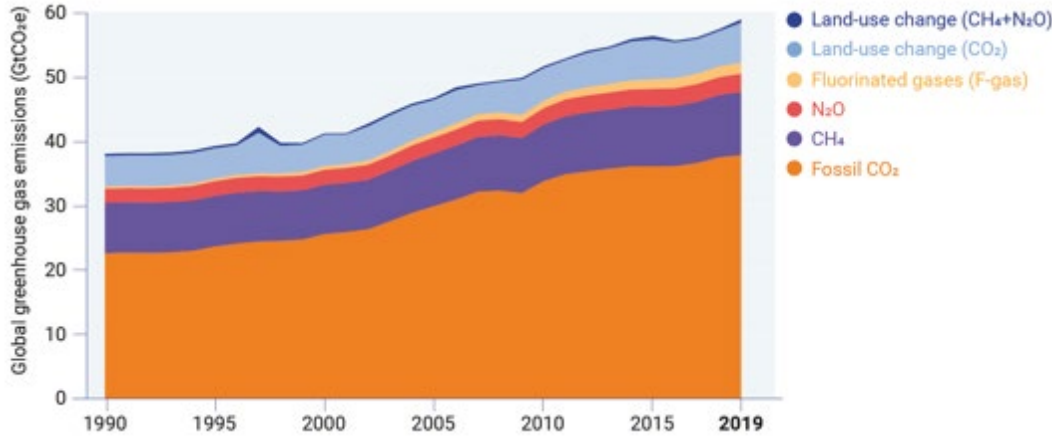


# Sonoma Climate Mobilization Strategy Update

December 14, 2020



- Should the RCPA Board adopt a new goal of carbon neutral by 2030?
- Are the proposed strategies the right ones to reach the new goal?
- How shall RCPA engage members, partners, and the public in the implementation of the strategy?

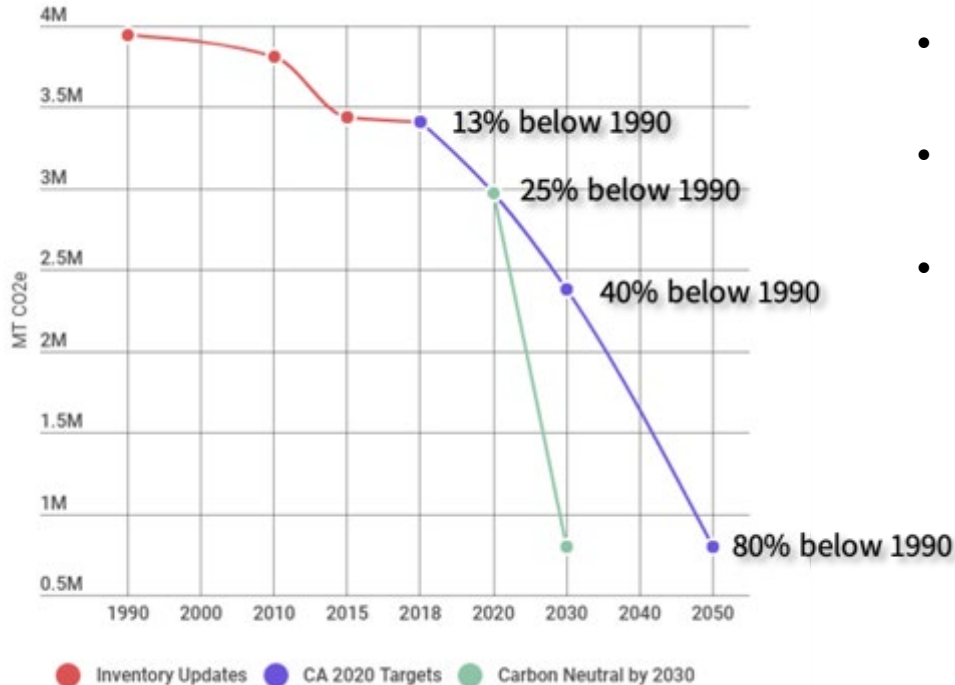


- CO<sub>2</sub> emissions may drop 7% in 2020 due to COVID
- COVID impact short term unless economic recovery focused on low-carbon transition
- Growing number of countries committing to net-zero by 2050, some earlier
- Emissions gap has not been narrowed relative to 2019

Key takeaway: Global annual emissions must drop to ~25 GtCO<sub>2</sub>e by 2030 to put us on a path to keep global warming to 1.5° C

Source: United Nations Environment Programme (2020). *Emissions Gap Report 2020 - Executive summary*. Nairobi.

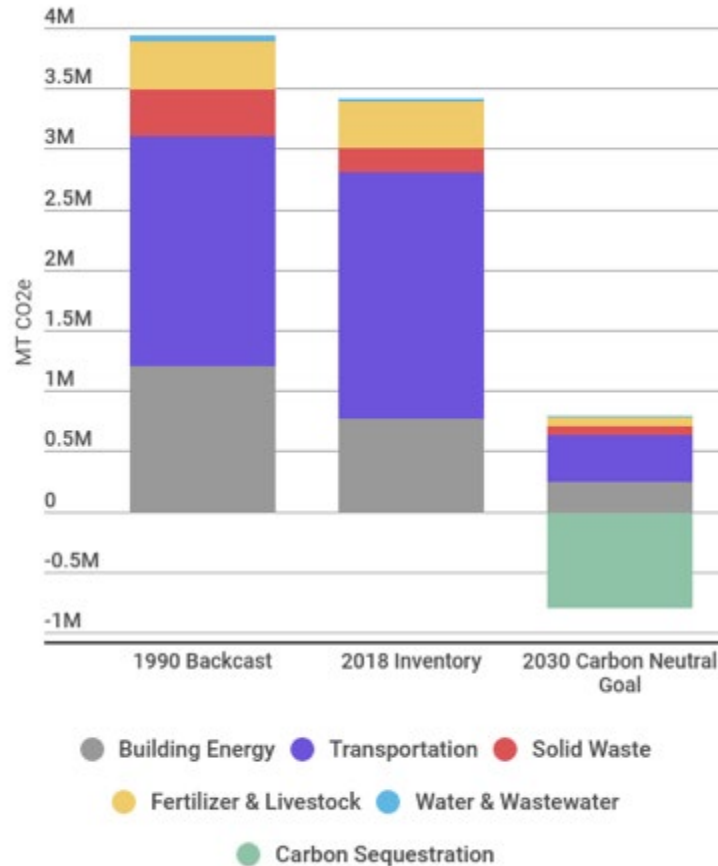
## Pathway to 2030



## State Climate Goals

- 40% below 1990 levels by 2030 (AB32 and SB32)
- Carbon neutral by 2045 (Executive Order B-55-18)
- All retail electricity in CA carbon-free by 2045 (SB100)

# REDUCTION GOALS TO ACHIEVE CARBON NEUTRALITY BY 2030



Jurisdiction	Climate Emergency Resolution Goal
Cloverdale	40% below 1990 levels by 2030
Cotati	"...develop and implement more ambitious but achievable goals consistent with or exceeding state goals and objectives"
Healdsburg	"...achieve zero net emissions as quickly as possible"
Petaluma	Carbon neutral as quickly as possible and no later than 2045
<b>Santa Rosa</b>	<b>Carbon neutral by 2030</b>
<b>Sebastopol</b>	<b>Net zero by no later than 2030</b>
<b>Sonoma</b>	<b>Net zero no later than 2030</b>
Sonoma County	"...achieve zero net emissions as quickly as possible"
<b>Windsor</b>	<b>Zero net emissions by 2030, and no later than 2045</b>

Initiative	Sector	Strategy
Decarbonization	Building Energy	<ul style="list-style-type: none"> <li>1. All-Electric Buildings Campaign</li> <li>2. Carbon-Free Electricity</li> </ul>
	Transportation	<ul style="list-style-type: none"> <li>3. Drive Less Sonoma County Campaign</li> <li>4. EV Access for All Partnership</li> <li>5. Sonoma County Vehicle Miles Traveled Mitigation Bank</li> </ul>
	Solid Waste	<ul style="list-style-type: none"> <li>6. Zero Waste by 2030</li> </ul>
Sequestration		<ul style="list-style-type: none"> <li>7. Protect Existing Carbon Stocks</li> <li>8. Increase Carbon Stocks</li> <li>9. Scale Up Infrastructure for Sequestration</li> </ul>
Resilience and Adaptation		<ul style="list-style-type: none"> <li>10. Energy Grid for the Future</li> <li>11. Climate Resilient Sonoma County</li> </ul>
Equity and Community Engagement		<ul style="list-style-type: none"> <li>12. Engage, Educate, Empower for Equitable Climate Action</li> <li>13. Equity and Climate in All Policies</li> </ul>

## 1. All Electric Buildings Campaign

Accelerate electrification of existing buildings and electrify all new buildings.

- ✓ Existing buildings: energy efficient and all electric
- ✓ New buildings: all electric
- ✓ Integrate equity

## 2. Carbon-Free Electricity

Accelerate the transition to 100 percent carbon-free electricity.

- ✓ 100% renewable and/or carbon-free energy
- ✓ Solar plus battery storage
- ✓ Demand response using capable technologies (e.g., appliances, cars, batteries)



### **3. Drive Less Sonoma County Campaign**

Make it easier to get around Sonoma County without a car.

- ✓ Low-stress bike and pedestrian facilities
- ✓ Vision Zero Action Plan
- ✓ “Next generation” transit system
- ✓ SCTA Comprehensive Transportation Plan

### **4. EV Access for All Partnership**

Accelerate the transition to 100 percent electric vehicles (EV) for all transportation needs not met by biking or walking.

- ✓ > 10,000 public and workplace charging stations by 2027
- ✓ Accessible and affordable EVs
- ✓ Electric bicycles, other lightweight electric utility vehicles
- ✓ Heavy-duty EVs

### **5. Sonoma County Vehicles Miles Traveled (VMT) Mitigation Bank**

Develop new funding sources for transportation projects that reduce VMT.

- ✓ Funding for transportation demand management (TDM) and VMT reducing projects programs

## 6. Zero Waste by 2030

Develop policies, programs, and education campaigns to eliminate waste sent to landfills.

- ✓ Zero organics to landfill by 2030
- ✓ Countywide construction and demolition ordinance
- ✓ Community-wide zero waste campaign with focus on reuse and reduced consumption

## 7. Protect Existing Carbon Stocks

Maintain the carbon that is currently held in soil and plants.

- ✓ Forest management practices
- ✓ Strategic land protection and stewardship actions
- ✓ Land use policies
- ✓ Countywide fire safe landscape practices

## 8. Increase Carbon Stocks

Capture more carbon in soils and plants

- ✓ Carbon farming
- ✓ Increase urban forest cover
- ✓ Regenerative land management practices at city-scale

## 9. Scale Up the Infrastructure for Sequestration

Build the physical, social, and economic capacity for successful carbon sequestration.

- ✓ “Sequester local” program
- ✓ Resource Conservation District funding for carbon farming
- ✓ Nursery stocks, compost, supplies
- ✓ Training for professionals and residents

## 10. Energy Grid for the Future

Increase energy grid resilience and prepare for electrification of buildings and transportation systems.

- ✓ Community and municipal microgrids
- ✓ Advocate for reliable, robust energy grid

## 11. Climate Resilient Sonoma County

Address the economic, social, and environmental impacts of future wildfires, floods, extreme heat, drought, sea level rise, and other climate change risks.

- ✓ Local vegetation/forest management and fire protection corps
- ✓ Inclusion of climate adaptation and resiliency strategies in general plans
- ✓ Urban Land Institute Resilience Advisory Services Panel

## 12. Engage, Educate, Empower for Equitable Climate Action

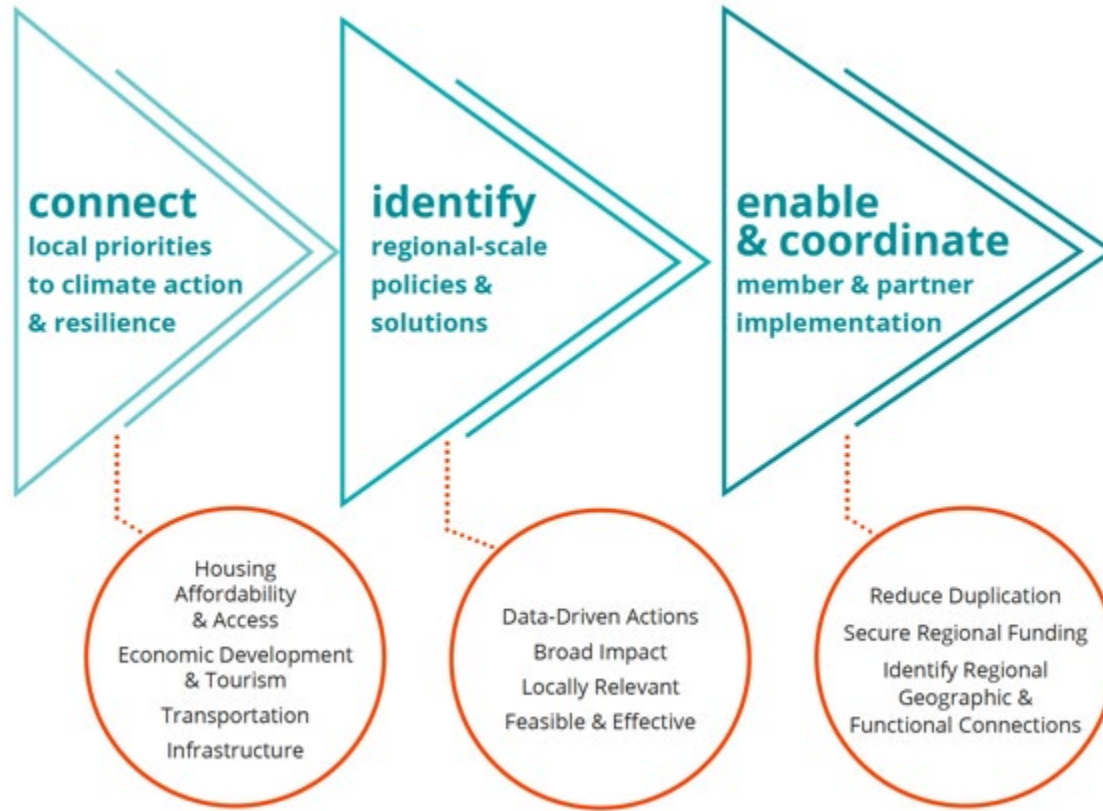
Coordinate local leaders and develop a campaign to engage vulnerable residents and key stakeholders in the Sonoma Climate Mobilization.

- ✓ Sonoma Climate Leadership Council
- ✓ Strategic engagement, education, and empowerment campaign
- ✓ Partner with community-based organizations
- ✓ Use community inputs to prioritize actions

## 13. Equity and Climate in All Policies

Develop processes and tools to support the inclusion of equity and climate in all policies.

- ✓ Equity impact assessment process and tools
- ✓ Checklist to evaluate policies relative to climate and equity goals
- ✓ Sonoma County Climate Resilience Index



## 2021

- Convene Sonoma Climate Leadership Council
- Create Sonoma Climate Mobilization Implementation and Funding Plan
- Identify and secure funding sources
- Initiate strategic engagement, education and empowerment campaign

## 2022–2024

- Secure funding
- Create monitoring process and tools
- Implement strategies
- Monitor progress and adjust plans as needed

## 2025–2030

- Secure funding
- Implement strategies
- Monitor progress and adjust plans as needed

- Should the RCPA Board adopt a new goal of carbon neutral by 2030?
- Are the proposed strategies the right ones to reach the new goal?
- How shall RCPA engage members, partners, and the public in the implementation of the strategy?



QUESTIONS?

# THANK YOU!

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