Climate Action Committee

A Tradition of Stewardship
A Commitment to Service

Outline

- CAC Historical Overview
- Summary of greenhouse gas (GHG) local inventory and forecast.
- Review of State and local actions.
- Examples of other regional climate planning.
- Questions and discussion for elected officials to consider.

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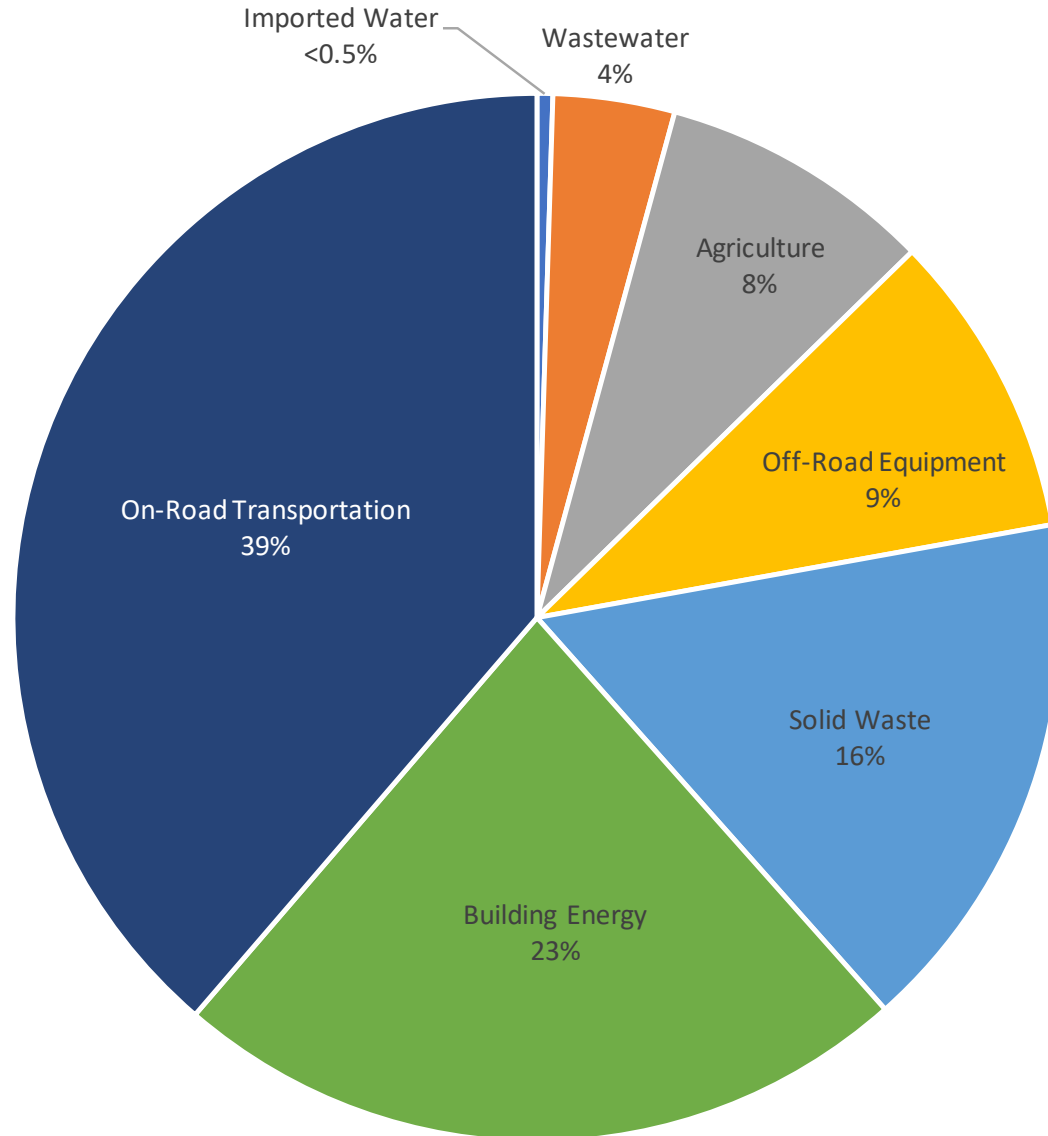A Tradition of Stewardship
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Historical Overview

- Began meeting in 2019
- Governance: 2021 Joint Powers Agreement
  - 2 elected officials from each jurisdiction (12 total members)
  - Staffed by Napa County as Administering Agency
  - County pays 35% with remainder funded proportionally by jurisdiction
- Purpose: To establish a collaborative framework to reduce greenhouse gas emissions and limit future adverse effects of climate change
- Accomplishments: BAAQMD grant; Greenhouse gas (GHG) local inventory and forecast
- Initiatives: Regional Climate Action Plan; memos on carbon sequestration and short-lived climate pollutants

What are the regional GHG sources?

What are the main sources by sector?

- 75% of building energy emissions are from natural gas.

- 67% of on-road transportation emissions are from commercial vehicles

- Solid waste includes historic garbage deposited at the two landfills located in the unincorporated County

- 25% of off-road equipment emissions are from lawn and garden equipment

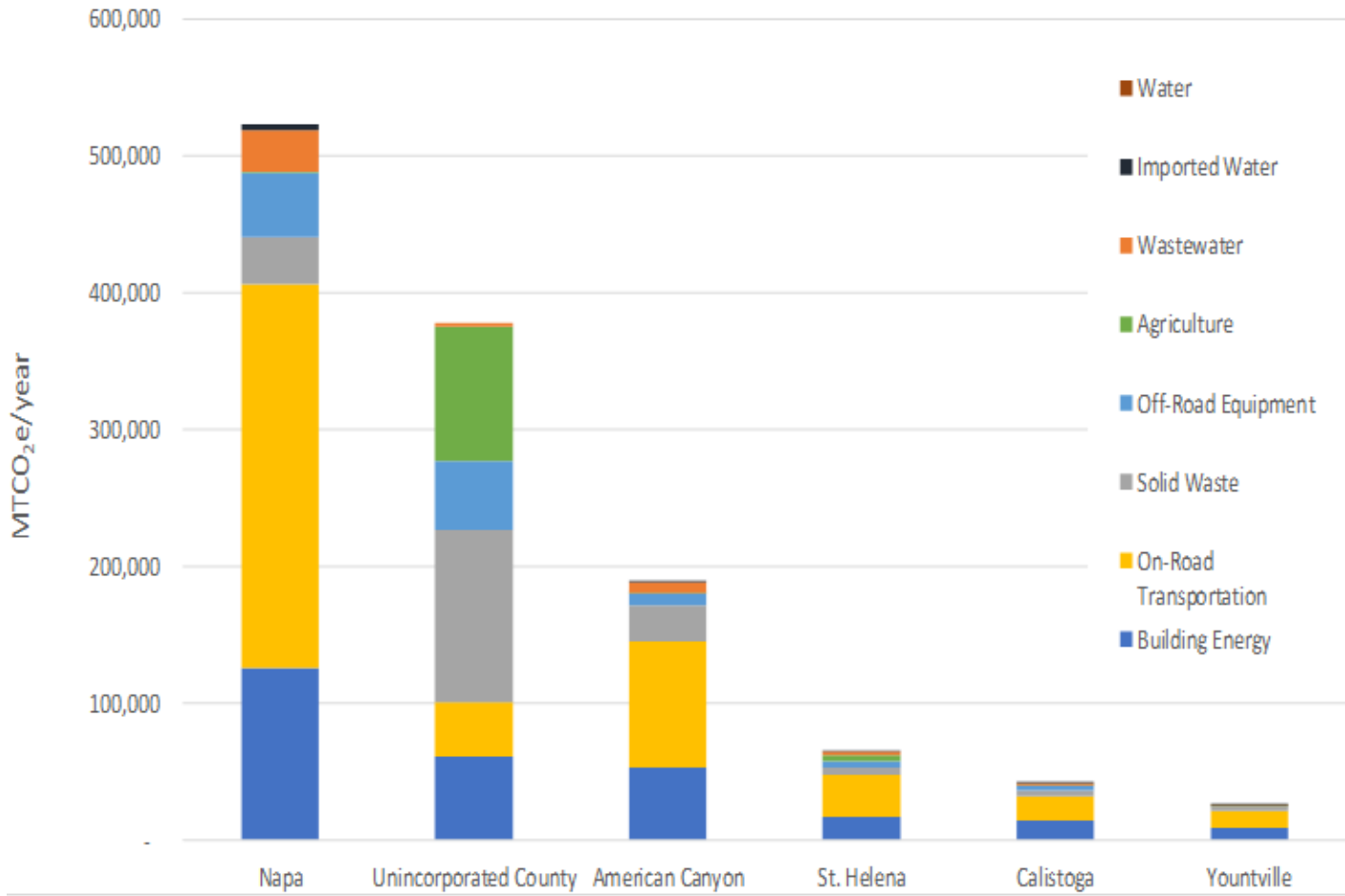- 46% of agricultural emissions are from off-road equipment

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Where do GHG emissions occur?
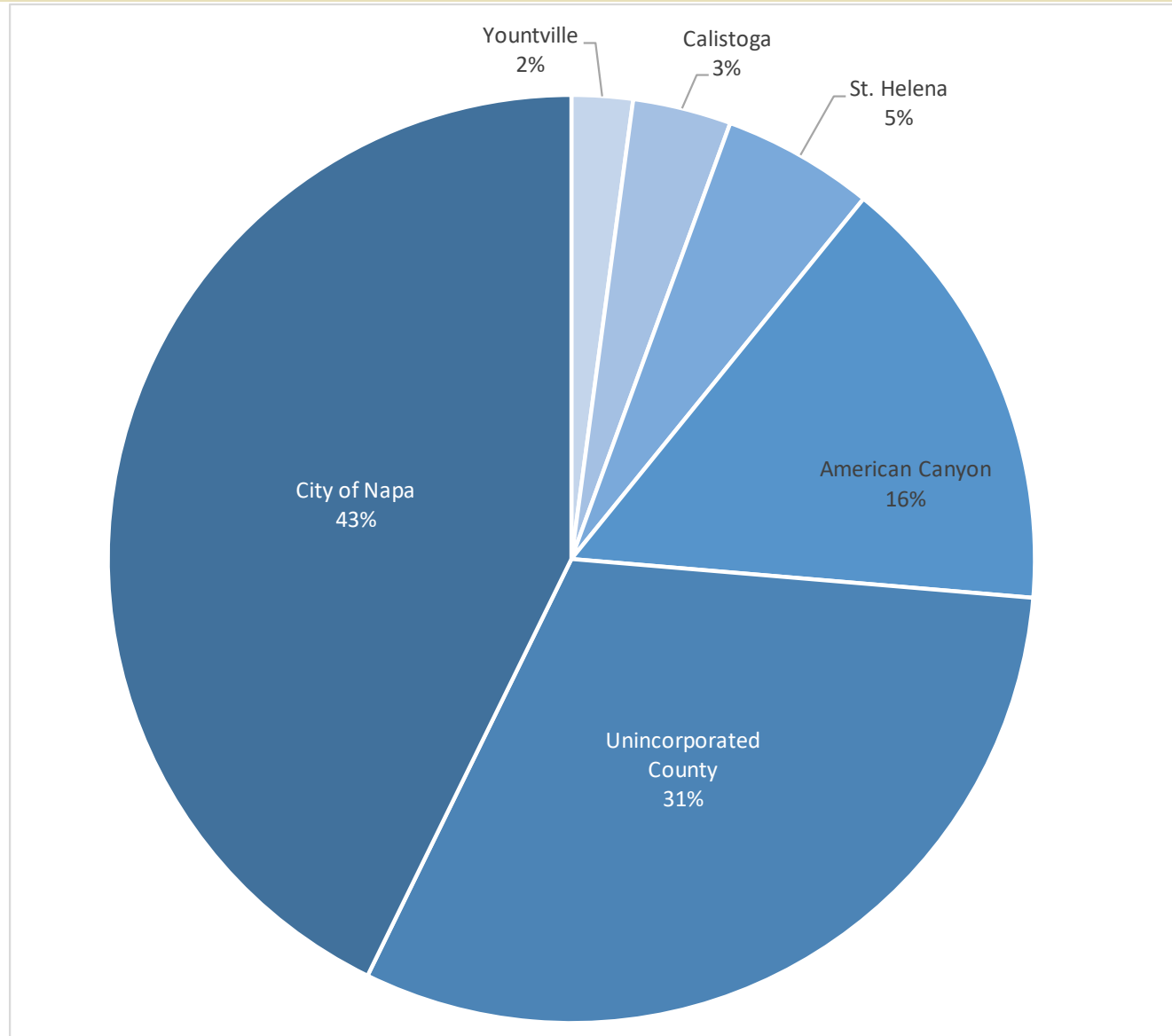
How do jurisdictions vary?

County Unincorporated Area

2019 Napa County Regional Greenhouse Gas Inventory by Jurisdiction and Sector (MTCO$_2$e/year)

| Emissions Sector	American Canyon	Calistoga	Napa	St. Helena	Yountville	Unincorporated County	Total
On-Road Transportation	91,830	17,184	280,533	30,661	12,404	40,063	472,677
Building Energy	53,432	24,450	125,346	16,766	8,532	61,068	2279,592
Solid Waste	25,938	4,981	34,236	5,676	2,601	125,429	198,862
Off-Road Equipment	8,998	2,880	47,238	4,502	1,328	50,602	115,548
Agriculture	154	274	1,086	4,415	75	97,378	103,381
Wastewater	7,822	1,994	29,542	2,270	1,040	3,191	45,858
Imported Water	983	229	4,383	285	65	-	5,943
Total	189,156	41,990	522,363	64,575	26,047	377,731	1,221,861
Emissions per capita	9.0	7.9	6.6	10.6	9.3	15.1	8.8
Emissions per SP	7.0	5.1	4.0	5.4	6.7	6.8	5.2
Transportation Emissions per capita	2.5	2.7	1.6	2.8	3.1	2.4	2.0

Notes: MTCO$_2$e/year = metric tons of carbon dioxide equivalent per year. SP = service population (population + jobs) (See Table 6).

How does 2019 compare with 2005?

- 26% decrease in on-road vehicle emissions.
- 34% decrease in building energy.
- 17% increase in solid waste.
- 27% total decrease in these three sectors.

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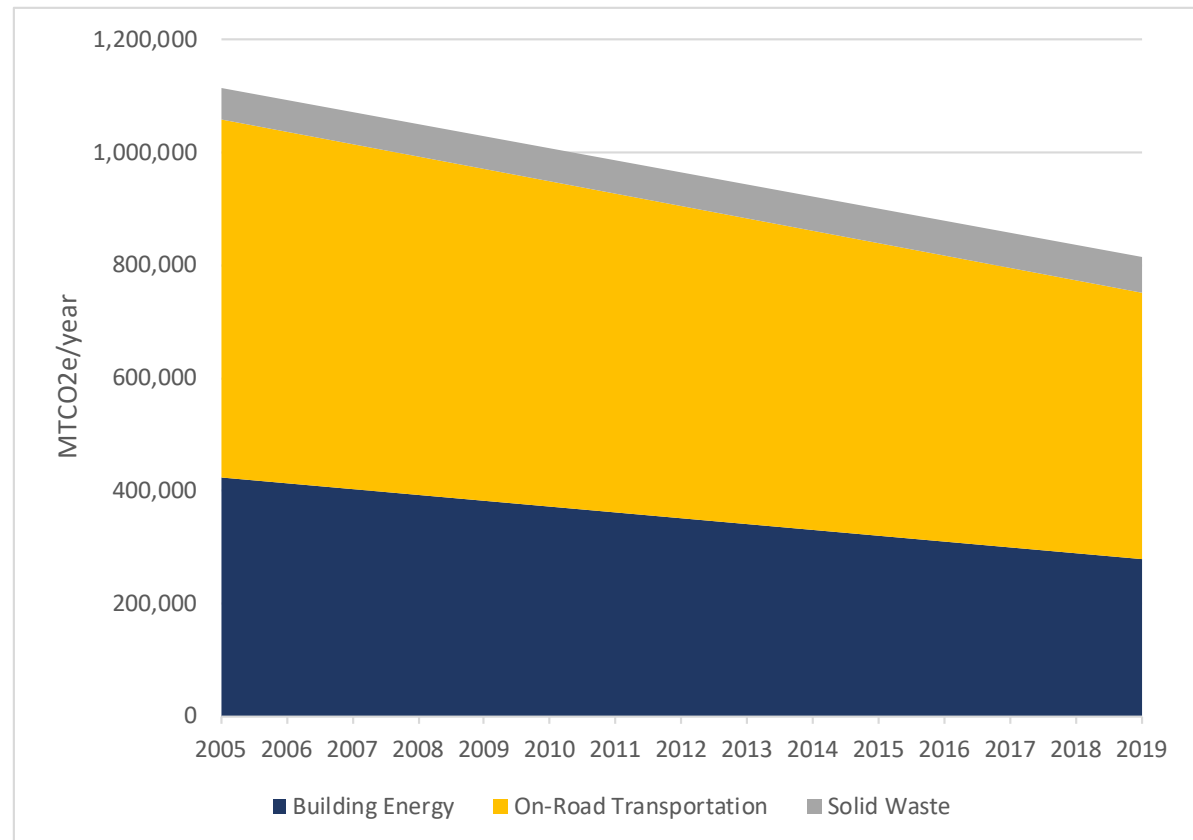
What does 2030 look like?

With State/Federal legislation, we will see:

- 5% decrease in total GHG emissions.
- Decreases will occur in imported water (-24%); on-road transportation (-22%); and agriculture (-11%).
- Increases will occur in wastewater (16%), solid waste (13%), off-road equipment (13%), and building energy (3%).

Without State/Federal legislation, total emissions will be 17% higher in 2030 than in 2019.

What does 2030 look like?
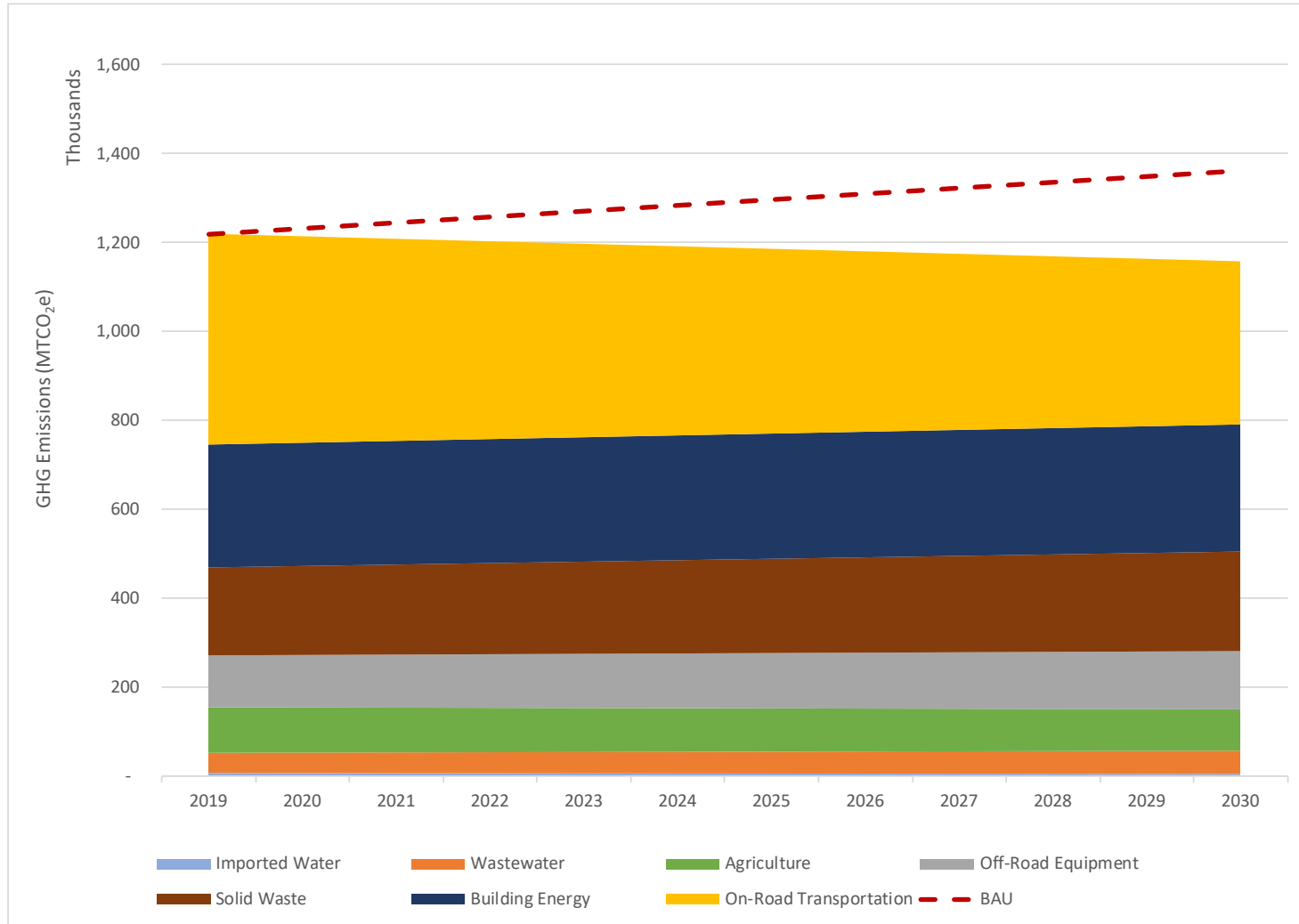

GHG Emissions chart (GHG Emissions MTCO₂e, Thousands) for years 2019–2030 showing stacked categories: Imported Water, Wastewater, Agriculture, Off-Road Equipment, Solid Waste, Building Energy, On-Road Transportation, and a BAU dashed line.

What is the State doing?

- **Governor**
  - Achieve statewide carbon neutrality as soon as possible, and no later than 2045 (AB 1279).
  - Create clean electricity targets of: 90% by 2035; 95% by 2040; and 100% by 2045 (SB 1020).
  - Establish a regulatory framework for carbon removal and carbon capture, utilization and sequestration (SB 905 and 1314).
  - Develop an achievable carbon removal target for natural and working lands (AB 1757).

What is the State doing?

- **California Air Resources Board** 2022 Climate Scoping Plan calls for:
  - 100% of light/medium trucks sales are EV by 2040:
  - 20% of aviation fuel is met by batteries or hydrogen by 2045:
  - All electric appliances in new buildings by 2026 (residential) and 2029 (commercial);
  - 25% of ag and construction equipment electric by 2030 and 75% by 2045;
  - 100% locomotive sales electric by 2035;
  - 20% of ag must be organic by 2045; and
  - Protect 2.5 million acres of forest and grassland annually from land conversion.

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What is local government doing?

All jurisdictions <u>are</u> required by law to:

- Address 'climate adaptation and resilience' in their Safety Element (Senate Bill 379), but only 40% have complied).

- Address 'climate change' through the California Environmental Quality Act (CEQA), both at the project and the cumulative level.

- Implement new construction standards through updated Building Codes.

- A Climate Action Plan is not required, although 30% of cities and counties have adopted one.

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What is local government doing?

Each of the cities, town, and county in Napa have:

- Adopted individual Climate Action Plans or are in the process of preparing/updating plans.

- Adopted a Climate Emergency Proclamation.

- Participate in and fund the Napa Countywide Climate Action Committee.

- Provide public outreach and education on green and sustainable programs.

- Implement a variety of energy efficiency and GHG reduction activities appropriate for their individual community.

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What are other regions doing?

- **Sonoma Regional Climate Protection Authority (2009)** – Provides or information and collaboration for the county and 9 cities.

- **Humboldt Regional Climate Action Plan (2019)** – Provides collaboration for the county, 7 cities, and the Redwood Coast Energy Authority.

- **Tahoe Regional Planning Agency (1969)** – Provides a plan for 2 states, 4 counties, 2 cities, and a Presidential appointee to implement.

- **San Diego Association of Governments (2010)** – Provides climate information and planning for the county and 19 cities.

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Questions

- Does the County Board of Supervisors support having the Climate Action Committee pursue grants, and develop a scope of work and budget to prepare a Regional Climate Action Plan?

- Are there any questions for staff?

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