

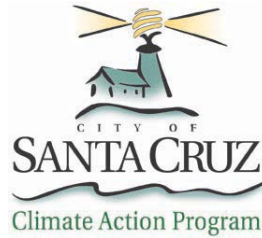
City of Santa Cruz

Climate Action Milestones

- 1. Reduce Energy Use in Municipal Buildings by 40% between 2008 and 2020.**
- 2. Expand energy efficiency programs to 50% of all homes by 2020.**
- 3. Increase solar to 5,000 residents and 500 businesses by 2020.**
- 4. Partner with UCSC on 25 sustainability and alternative energy research projects by 2020.**
- 5. Encourage 20% of City residents to pledge and take action to reduce emissions 30% by 2020.**
- 6. Support the use of bike and passenger transport on the rail corridor by 2020.**
- 7. Maximize water conservation efforts and organic waste diversion by 2020.**
- 8. Double bike ridership from 2008 levels by 2020.**
- 9. Switch 20% of cars to low-carbon fuels from 2008 total by 2020.**
- 10. Certify 250 Santa Cruz Green Businesses by 2020.**
- 11. Double tree planting from 2008 levels and expand Shop Local programs by 2020.**
- 12. Reduce within-town car trips and single occupancy vehicle commutes by 10% below 2008 levels by 2020.**

“Carbon Neutral Municipality” by 2016 challenge = 10,261 tons

C AP 2012-2020 Estimate of Total Reductions = 52,300 tons



City of Santa Cruz

2015 Climate Action Program Status Update

Below is a subset of actions taken by City staff and partners to implement the City of Santa Cruz Climate Action Plan

- 1) Reduce Energy Use in Municipal Buildings by 40% between 2008 and 2020.**
 - a) Police Dept. building mechanical and electrical systems were upgraded (including HVAC). Energy use estimated to have been reduced by 27% (exceeding 20% goal).
 - b) City has initiated a solar infrastructure management and tracking system to ensure optimal function of city owned solar PV systems.
 - c) Lighting in Louden Nelson auditorium upgraded to LEDs.
 - d) Wharf external lighting has been upgraded to LEDs.
 - e) Parks and Recreation Department has converted all lighting at Laurel Park to LEDs. The change provides significantly more lighting with a considerable reduction in electricity costs.
 - f) Wastewater Treatment Facility ventilation systems were redesigned to save 300,000 kWh per year.
- 2) Expand energy efficiency programs to 50% of all homes by 2020.**
 - a) Worked with Central Coast Energy Solutions to offer federal subsidies for energy efficiency upgrades to low income properties.
- 3) Increase solar to 2000 residences and 200 businesses by 2016.**
 - a) In 2014, Santa Cruz residents installed 190 additional solar systems for a total of **1001 solar homes in Santa Cruz.** 46 solar applications so far in 2015.
 - b) City completed a comprehensive review (Solar Roadmap) of its solar permitting process, met with industry and is now updating

its permitting process. When possible City Building and Fire depts. now complete final inspections during a single apt.

- c) The www.EnergySage/SantaCruz Residential solar marketplace website is active and has led to several additional solar installation projects.
- d) Green Building Program provides information to building applicants on the benefits of including solar as a part of construction projects, with web links to additional information, solar contractor contact lists, financing options and web address to the Santa Cruz EnergySage website.
- e) The City partnered with the Monterey Bay Climate Action Compact and UCSC to host a technical workshop for local commercial property owners interested in adding solar to their properties.
- f) Selection of a consultant team to complete the Community Choice Aggregation feasibility study for Monterey Bay Area is underway. Grant funds have been secured for study completion. All Monterey Bay municipalities are participating.

4) Partner with UCSC on 25 sustainability and alternative energy research projects by 2020.

- a) City Staff and UCSC received the Governor's Environmental and Economic Leadership Award (California's highest environmental award) for the successful GreenWharf program.
- b) UCSC Carbon Fund has sponsored a Commercial Property Solar technical consult for several local property owners interested in solar options.
- c) Santa Cruz received two 2014 Beacon awards from the Institute for Local Government:
 - Silver Spotlight Award for 9% in municipal energy savings.
 - Silver Spotlight Award for 36 sustainability best practice activities.

5) Encourage 20% of City residents to pledge and take action to reduce emissions 30% by 2020.

- a) Climate Action Booth hosted at Earth Day and other environmental events to inform community of City actions and encourage pledge participation.

6) Support the use of bike and passenger transport on the rail corridor by 2020.

- a) City has initiated environmental review to construct a portion of the Monterey Bay Sanctuary Scenic Trail (MBSS Segment 7) along the rail corridor between Natural Bridges and the Municipal Wharf.
- b) Energy upgrades to San Lorenzo levee lighting are underway.
- c) Public Works has completed construction of the San Lorenzo River Trestle Ramp, which is a part of the MBSS Trail Segment 8.

7) Maximize water conservation efforts and organic waste diversion by 2020.

- a) City partnered with Ecology Action to replace pre-rinse spray valves at restaurants throughout service area in 2014, saving a total of 7,916 thousand gallons per year.
- b) The Wastewater treatment plant has made reclaimed water available for commercial power washing services and sewer line cleaning operations.
- c) A regional organic waste collection and reuse opportunities analysis is underway.
- d) City Parks and Recreation Dept. has implemented numerous water conservation efforts to reduced irrigation throughout parks resulting in browning of some areas, installation of highly efficient drip irrigation and computerized irrigation and moisture sensing probes at golf course.
- e) Cold-In-Place asphalt recycling process used on the City's two most recent major road paving projects.
- f) City Storm Water Program has expanded Low Impact Design guidelines for new development and municipal properties.

8) Double bike ridership from 2008 levels by 2020.

- a) Based on American Community Survey results, bike ridership has **DOUBLED** since 2000 (4.7%-9.4%).
- b) Arana Gulch multi-use trail IS COMPLETE, linking the Live Oak community with Santa Cruz.
- c) New Bike lanes have been installed on the Western Drive between Mission and Echo (sharrows on the remainder). Green Bike Markings on have been included in the Laurel Drive repaving

project. Public service announcements are airing on the significance of both safety markings.

- d) Westlake Elementary Safe Routes to School upgrades are complete, providing new pedestrian and bike safety infrastructure.
- e) City is actively designing the Monterey Bay Sanctuary Scenic Trail section between Natural Bridges and the Municipal Wharf (Segment 7).
- f) People Power (now Bike Santa Cruz County) worked with UCSC interns to host 10 grant-funded bike commute workshops for businesses to encourage alternative commute options.
- g) The Planning Department is beginning a corridor planning process to identify areas for future transit, automobile, bicycle and pedestrian upgrades along the City's primary and secondary transportation corridors.
- h) Santa Cruz City Schools Complete Streets Master Plan is complete.

9) Switch 20% of cars to low-carbon fuels from 2008 levels by 2020.

- a) City has installed a total of 14 public and 6 city fleet electric vehicle charging stations in 10 locations in the Downtown, Beach and east side parking areas. A total of 40 public charging stations are available within Santa Cruz County.
- b) City has six Nissan Leaf plug-in electric vehicles for the City fleet and recently deployed six additional all-electric work vehicles into the fleet.
- c) More than 566 Electric Vehicles are owned in Santa Cruz County.
- d) Public Works, Monterey Bay Electric Vehicle Alliance and Electric Auto Association hosted the 5th annual Electric Vehicle Exhibit at Earth Day and National Plug-In Day Santa Cruz 2015.
- e) The City participated in writing the Monterey Bay Plug-In Electric Vehicles Readiness Plan to promote the rapid adoption of plug-in electric vehicles in the tri-county area, linking with the PEV Plan for the greater Bay Area.
- f) Public Works added 5 additional hybrid waste collection vehicles for a total of 6-hybrids. One CNG side loaders and 2 CNG front loaders are currently on order. The residential waste collection

has seen a 45% reduction in fuel use, placing Santa Cruz in the top 10% of 110 national hybrid collection fleet vehicles.

10) Certify 250 Santa Cruz Green Businesses by 2020.

- a) The total number of Green Business certifications increased in 2014:

Green Businesses Certified in 2014	18
Green Business Recertified in 2014	15
Total Certified Businesses in Santa Cruz:	125
Certifications Currently In-Process:	79

Total GHG reductions = 2,892 tons annually

- b) Green Business Program has completed a Green Business Challenge on the Santa Cruz Wharf leading to six businesses being Green Business Certified.
- c) In late 2014 the City initiated a Downtown Green Business Green Wave Challenge. Fourteen downtown businesses have responded and are in process towards Green Business certification.
- d) 4 non-profit organizations based in the city have completed certification through a Go Green grant from the Santa Cruz County Community Foundation.

11) Double Tree Planting from 2008 levels and expand Shop Local programs by 2020.

- a) Urban Tree planting program has planted more than 200 trees in 2014.
- b) City staff has completed a Mission St. pilot inventory of City Heritage Trees.
- c) Santa Cruz Fruit Tree Alliance and City Parks have partnered to plant a fruit orchard at Riverside Gardens Park.

12) Reduce within-town car trips and single occupancy vehicle commutes by 10% below 2008 levels by 2020.

- a) City Transportation Planner/Engineer position has been filled.
- b) Beach St / Wharf intersection round-about is under construction to reduce congestion and start/stop auto emissions. Bike and pedestrian amenities have been integrated into the design of the project.

- c) An average of 20 employees purchase monthly bus passes through the City's discounted bus commute incentive program.
- d) A 12-passenger vanpool from Watsonville to the City's Corporation Yard has been operating for 10 years with steady participation by City Sanitation workers. Fuel efficient upgrades to the vehicle are under investigation.
- e) Public Works is partnered with Ecology Action to complete the Santa Cruz City Schools Complete Streets Master Plan to increase the number of students walking and bicycling to school safely.
- f) There are 9 Zipcars at 5 locations in Santa Cruz now available to the public for short-term use.
- g) For only 25 cents, tourists and residents can park and ride one of two Downtown/Beach shuttles during the summer season from 11am-9pm.