



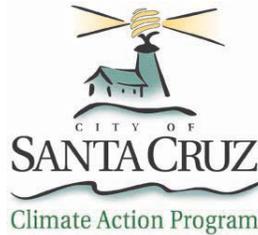
## **City of Santa Cruz**

### **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. Work with SCCRTC to provide multimodal transportation 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 another 250 Santa Cruz Green Businesses over 2008 count 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

# 2014 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) Facilities Maintenance and Energy Projects Coordinator has been hired as a result of hiring this position will have saved the City 300,000 kWh/year or \$41,400 in energy costs. Additionally, the City has received nearly \$60,000 in rebates and has been able to audit a small sample of the street light inventory, which resulted in a \$36,000 in rebates and a savings of \$12,000/year.
  - b) Loudon Nelson's eight theater lights have been converted to LED. The fixtures are dimmable and are projected to save 3,334 kWh/year.
  - c) The final portion of the Cedar Street, Locust Street, River Street and Soquel Street garages exterior fixtures are being upgraded to LED. The four projects have a combined total of fort-eight fixtures and have an expected savings of 25,028kWh/year.
  - d) The City completed a Municipal Facility benchmarking study of 20 City facilities and implemented energy reduction strategies to reduce energy use by an additional 10% below baseline. Additional Energy Efficiency audits have been completed on 24 general fund facilities that have the potential to save the city 1,134,591 KWh or 296 tons of greenhouse gas emissions once completed.
  - e) Public Works continues to convert energy inefficient HID (High Intensity Discharge) lights to efficient LEDs (Light Emitting Diode) fixtures. By this summer's end, three hundred fixtures will be upgraded with an expected savings of 145,000kWh/year. This brings our total streetlight conversion to 1,498 streetlights with

an estimated energy reduction of 647,469 kilowatts annually anticipate and emissions reduction of 170 tons CO<sub>2</sub>/ year.

- f) Public Works also signed an agreement with PG&E to secure current incentive rates to convert the remaining City owed lights (998 fixtures, which is five time higher than the proposed rates) before current incentive expires by the end of calendar year 2014
- g) Wastewater Cogeneration has increased percentage of energy used to run the plant that is from Biofuel by 10% to 7.3 million kWh and 66% of total energy.

### **3) Increase solar to 2000 residences and 200 businesses by 2016.**

- a) Solar parking array generated 350,000 kWh for the Police Department (60%) and 300,000 kWh for City Hall (57%) during first year of operations saving 200 tons CO<sub>2</sub>/yr.
- b) Total solar generation capacity at the City's 7 solar projects is 710kW and generates approximately 850,000 kWh annually.
- c) In 2013, Santa Cruz residents installed 96 additional solar systems. For the first 4 months of 2014 another 43 were installed for a total of **771 solar homes in Santa Cruz.**
- d) UCSC funded a joint project with the City to encourage local businesses to take advantage of CaliforniaFIRST PACE solar financing program to install solar on their properties.
- e) Region has prepared an RFP for consultants to complete a Community Choice Aggregation feasibility study for Monterey Bay Area. Some grant funds secured for study completion.

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

- a) Conducted residential solar PV workshop for UCSC faculty, staff and student home owners.
- b) UCSC and City Wharf Manager partnered to upgrade Wharf exterior lighting to LEDs.
- c) Wharf/coastline Eco-Tour now a free smart phone app.
- d) City and UCSC organizing Sanctuary Celebration on the Wharf.
- e) UCSC students supporting multiple bike transit planning efforts.
- f) Bird impact study for Wharf wind turbine has shown no negative interactions since 2011.

- g) Wharf waste characterization study completed for use in upgrading waste management infrastructure.
- h) Public Works participated in the UCSC Clean Car Show.
- i) Public Works and UCSC interns will conduct a 2-year mode split traffic count of motor vehicles, bicycles, and pedestrians.

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

- a) 12 Climate Action Milestone fact sheets are complete and available on City Climate Action website describing initiatives to meet each milestone.
- b) Climate Action Booth hosted at Earth Day and other environmental events to inform community of City actions and encourage pledge participation.

**6) Work with SCCRTC to provide multimodal transportation on the rail corridor by 2020.**

- a) City Climate Action Community Taskforce wrote letter in support of funding Santa Cruz section of the rail trail.
- b) City has secured funding to construct a significant portion of the Monterey Bay Sanctuary Scenic Trail (MBSS Segment 7) along the rail corridor between Natural Bridges and the Municipal Wharf.
- c) Public Works has secured funding and is going out to bid on the San Lorenzo River Trestle Ramp, which is a part of the MBSS Trail Segment 8.
- d) City and UCSC students completing a parking study to quantify parking available for visitors along corridor at trailhead points.

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

- a) Stage 3 water restrictions in effect beginning May 1, 2014.
- b) 4 new water conservation staff hired to implement water conservation and restriction policies
- c) Regional organic waste collection and reuse opportunities analysis underway.

**8) Double bike ridership from 2008 levels by 2020.**

- a) Arana Gulch multi-use trail under construction linking Live Oak community with Santa Cruz.

- b) People Power with UCSC interns is hosting grant-funded bike commute workshops for businesses to encourage alternative commute options.
- c) The Planning Department is beginning a streets corridor study to identify areas for future transit, automobile, bicycle and pedestrian improvements along the City's primary and secondary transportation corridors.

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

- a) City has installed a total of 14 public electric vehicle charging stations in 8 locations in the Downtown, Beach areas and east side parking lot. A total of 40 public charging stations are available within Santa Cruz County.
- b) City has leased three Nissan Leaf plug-in electric vehicles for the City fleet and recently deployed a total of 3 additional all-electric work vehicles into the fleet.
- c) More than 450 Electric Vehicles are owned in Santa Cruz County.
- d) Public Works, Monterey Bay Electric Vehicle Alliance and Electric Auto Association hosted the 4th annual Electric Vehicle Exhibit at Earth Day Santa Cruz 2014.
- 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.

**10) Certify another 250 Santa Cruz Green Businesses over 2008 numbers by 2020.**

- a) The total number of Green Business certifications increased substantially in 2013:

Green Businesses Certified in 2013-14	<b>24</b>
Total Certified Businesses in Santa Cruz:	<b>115</b>
Certifications Currently In-Process:	<b>43</b>

**Total GHG reductions = 500 tons annually**

- b) Green Business Program has initiated a Green Business Challenge on the Municipal Wharf toward a goal of 100% being certified. Seven businesses have responded and are being Green Business Certified.

- c) 5 non-profit organizations based in the city are being certified 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 between 200 and 500 trees in 2013.
- b) City Climate Action Community Taskforce has encouraged staff to seek funding to complete a City Heritage Tree Inventory.

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

- a) City Transportation Planner/Engineer position is being advertised for hire.
- b) 20% of City employees are enrolled in the RideSpring rewards program to bicycle, walk, take the bus, or carpool to work. Since 2006 RideSpring users at the city have:
- Removed over 155,000 car trips from the commute
  - Saved over 650,000 miles
  - Saved over 29,000 gallons of gas and prevented over 574,000 lbs. of CO2 from entering our atmosphere!
- 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.
- e) Public Works is partnering with Ecology Action on 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 4 locations in Santa Cruz available to the public for short-term use. A 5th location on Swift Street is coming soon.
- g) For only 25 cents, tourists and residents can park and ride the Downtown/Beach shuttle during the summer season from 11am-9pm. A second trolley has been purchased for the upcoming summer season.