

CITY OF SOLANA BEACH

Climate Action Plan Implementation

Interim Progress Report

January 2019



Introduction

The City of Solana Beach is committed to active implementation of its Climate Action Plan (CAP) adopted on July 12, 2017. Many significant actions have already been completed and a formal monitoring report and presentation will be made to Council at the end of the 2019 fiscal year as dictated by the timeline outlined in section 5.3 of the CAP.

In the meantime, this document will informally summarize some of our accomplishments to date the most notable of which is the implementation of a Community Choice Aggregation (CCA) program. While we are proud of our accomplishments thus far, there is still more to do and the City Council, City Staff, and the Climate Action Commission composed of Solana Beach residents will continue to prioritize and complete many more of the measures and tasks identified in the original plan.

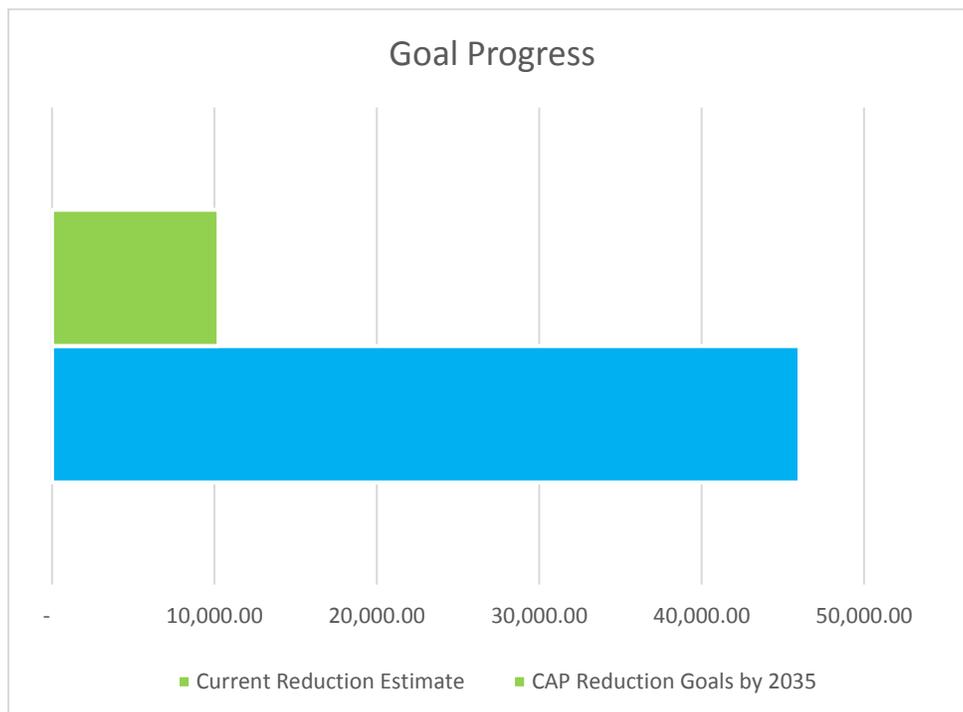
Carbon Reduction Progress

Our CAP's stated goal is to reduce carbon emissions in the City of Solana Beach in line with the statewide goals which are to reduce emissions to:

- 1990 levels by 2020
- 40 percent below 1990 levels by 2030; and
- 80 percent below 1990 levels by 2050.

In order to do so our CAP's goal is to reduce emissions in the City by 46,026 MTCO₂e (metric tons of carbon dioxide equivalent) by 2035.*

While another formal emissions inventory will not be completed until later in 2019, estimates show that one significant action, the implementation of a Community Choice Energy program, has helped Solana Beach meet about 22 percent of its total reduction goals. After the formal carbon emissions inventory is complete, we hope to see that other measures we have taken have also resulted in additional realized reductions.



* For a detailed discussion of the various units, measurements and calculations used in this document, please refer to Chapter 3 of the CAP which is posted on the City's website.

Summary of Actions Taken

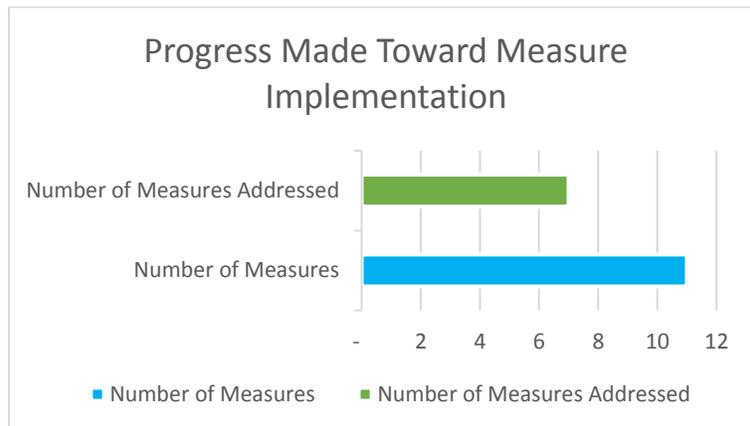
The City of Solana Beach CAP is organized in the following manner:

- CAP Implementation is first organized by four **strategies**: 1) Transportation, 2) Renewable Energy and Buildings, 3) Waste and Water, and 4) Carbon Sequestration (Urban Tree Planting);
- Each strategy contains GHG-reducing **measures**. There are 25 measures identified in our CAP;
- Each measure has specific **actions** identified which are the specific details on the types of programs, policies, projects and steps that will help actualize the measures; and
- Finally, each action is broken down into individual **tasks**.

This summary will focus on progress on the **25 measures** identified in the four different strategies and whether or not any actions have been taken toward implementing those measures. At this time, we have made progress on 14 of the identified measures, which is progress on slightly more than half of them.

A more formal description of progress and actions will be in our formal monitoring report. And if this report states that we have made progress on a measure, it does *not* necessarily mean the measure has been fully implemented which will not be more comprehensively determined until we complete our formal monitoring report at the end of the fiscal year.

Strategy 1: Transportation



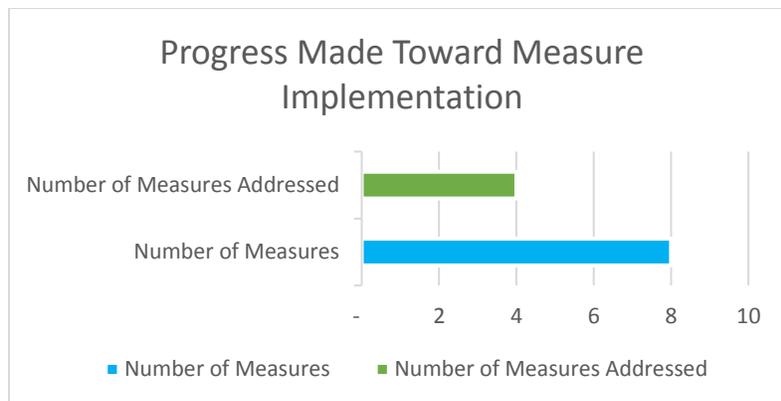
Our Transportation strategy contains 11 different measures. If they were all implemented our CAP estimates total GHG reductions of 19,632 MTCOC2e/year. Here are some of the highlighted actions taken to date toward implementation of these measures:

- Completed Phase 1 of the Lomas Santa Fe Corridor Study-purpose of the study is to identify improvements that may be constructed to improve the character, safety, walkability, bike-ability and circulation along the Lomas Santa Fe corridor – Measure T-4
- Secured Sustainable Transportation Planning Grant for Lomas Santa Fe Corridor Study – Measure T-4
- Working with other North Coastal cities to launch a Ride Share service that includes an EV shuttle system – Measure T-4 and Measure T-5
- Continued on-going collaboration with SANDAG and other North Coastal Cities through the North County Energy Advisory Coalition (NCEAC) to identify opportunities to promote EV charging infrastructure in the region – Measure T-1
- Continued employee Commuter Incentive Program that rewards employees who carpool or take alternative modes of transportation to work, including driving zero emission vehicles as defined by CARB’s Clean Vehicle Rebate Project – Measure T-1
- Encourage commercial and mixed-use development projects to install/convert regular parking spaces to EV spaces during project approval stage – Measure T-1
- Collaborated with SDG&E to promote the Power Your Drive to local condominium properties in the City – Measure T-1
- City is working with other North Coastal Cities to develop and launch a bike share program. RFI was released and preferred vendor was chosen with the goal to launch by the summer 2019. City also adopted a Shared Mobility Ordinance 495 to facilitate the program – Measure T-1 (Ride Share with EVs)

- Continued implementation of City Comprehensive Active Transportation Strategy (CATS) to incorporate alternative modes of transportation into City projects and infrastructure – Measure T-3 , Measure T-4 and Measure T-10
- City has recently purchased a hybrid vehicle for Staff use – Measure T-8
- Entered into a school crossing guard agreement in partnership with Solana Beach School District to promote walking to school - Measure T-9

At this time we have made progress on more than half of the measures we identified (7 of the 11 measures).

Strategy 2: Electricity and Natural Gas Measures

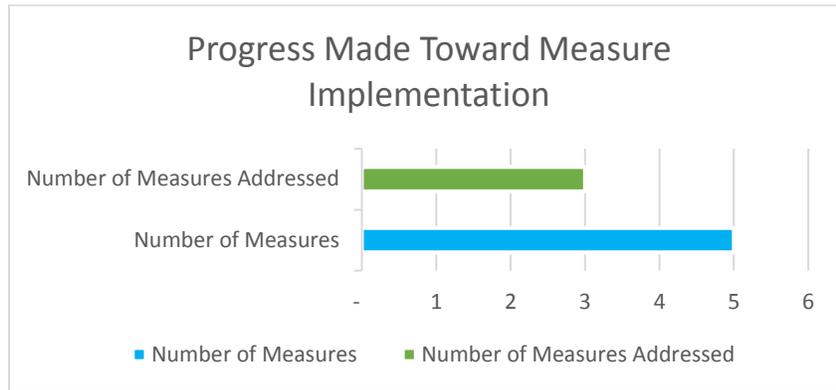


Our Electricity and Natural Gas strategy contains 8 different measures. If they were all implemented our CAP estimates total GHG reductions of 21,214 MTCOC2e/year. Here are some of the highlighted actions taken to date to implement these measures:

- Launched Solana Energy Alliance (SEA) CCA program, first one in the region – Measure E-1
- Ongoing discussions and joint meetings with City of San Diego and other interested cities on a regional CCA – Measure E-1
- Continued offering PACE programs – Measure E-2
- Although not directly identified as a measure in the CAP, the schools in our City have installed solar photovoltaic systems - Measure E-3
- Skate park LED lighting installation and solar charging – Measure E-8

At this time we have made progress on half of the measures we identified (4 of the 8 measures).

Strategy 3: Waste and Water Measures



Our Electricity and Natural Gas strategy contains 5 different measures. If they were all implemented our CAP estimates total GHG reductions of 4,184 MTCOC2e/year. Here are some of the highlighted actions taken to date to implement these measures:

- Adopted an ordinance prohibiting the use of polystyrene take-out containers - Measure W-1
- Continued offering PACE programs – Measure W-5
- Working with EDCO to promote the development of their Anaerobic Digester for organics – Measure W-1
- Working with EDCO to develop and launch an Organics Diversion Program – Measure W-1
- Working with RSWA to develop and launch a regional food waste prevention plan – W-1
- Implemented a Solana Beach City app to help residents report water waste, leaks and over-irrigation - Measure W-5
- City maintains a stormwater hotline to receive reports on water leaks and/or overwatering – Measure W-5
- Prepared handout materials for processing and permitting graywater systems and posted on City website - Measure W-5
- Processed 20 water efficient landscape plan reviews and inspections for compliance with City’s Water Efficient Landscape Ordinance - Measure W-5
- Posted information regarding plants for drought tolerant landscaped on City website - Measure W-5

At this time we have made progress on more half of the measures we identified (3 of the 5 measures).

Strategy 4: Carbon Sequestration (Urban Tree Planting)

Our Carbon Sequestration strategy contains only one measure, which is to have 30 percent of the developed areas covered by an urban tree canopy by 2035. If implemented our CAP estimates total GHG reductions of 986 MTCOC2e/year. Currently, our City's tree canopy covers 22 percent of the area. Further effort is needed to increase our urban tree canopy.

Development Projects Approved

The City has recently approved two significant development projects with sustainable features that fall under three of our greenhouse reduction strategies. Here are the two projects and highlights of their environmentally sustainable attributes.

- Solana Highlands Project approved
 - Redevelopment of 198 unit apartments with new 260 unit apartment complex that includes 32 new senior low-income housing units
 - Near transit (bus and rail)
 - Participation in the City's construction and demolition recycling program
 - 50 bicycle spaces and bike lockers on site
 - New water conserving irrigation system with native and/or drought tolerant plant materials
 - 233 garage spaces pre-wired for EV charging
 - 15 EV charging stations to be installed on-site
 - Photovoltaic panels
 - Low water use appliance, in home fixtures, and irrigation
 - Low VOC paints
 - Community Recycling program
 - Installation of bio-filtration system for on-site stormwater retention
 - New Energy Star appliances for all units
 - Energy efficient LED lighting, appliance, and heating, ventilation, and air conditioning design
 - Pool with solar heating
 - Building insulation elements installed under the inspection of the Home Energy Rating System (HERS) rating agency
 - Reclaimed water use for landscape irrigation
 - Participation in SEA 100 percent green power (electricity) or SDG&E equivalent
 - Traffic signal timing modification at Valley Avenue and Stevens Avenue
 - Raised concrete chokers to reduce speeds on Nardo Avenue
 - Installation of solar powered electronic speed signs on Nardo Avenue
 - Installation of crosswalk and solar powered pedestrian flashing sign
 - Installation of bicycle sharrows markings on Nardo Avenue pavement

- Solana 101 Project approved
 - Mixed Use development project 45,587 sq. ft. office space, 10,562 sq.ft. restaurant space, 2,920 sq.ft. outdoor dining, 4,142 sq.ft. retail space, and 25 multi-family residential rental units with subterranean parking
 - Located near transit (bus and rail)
 - Participation in SEA 100 percent green power (electricity) or the SDG&E equivalent
 - On-site solar system
 - 8 on-site electric vehicle charging stations for the residential development
 - 11 pre-wired EV charger ready residential spaces
 - 46 on-site commercial charging stations
 - 2 off-site EV charging stations
 - Participation in City's construction and demolition recycling program
 - Installation of bio-filtration basins for stormwater retention

Notes on Implementation and Monitoring

In 2019, the City of Solana Beach has tasked a Senior Management Analyst with tracking and closely monitoring the implementation of the CAP. Detailed monitoring of the measures will help inform City Council of strategies and actions toward meeting the City's climate goals. In addition, the City's Climate Action Commission has a subcommittee task force dedicated toward monitoring implementation progress.

Conclusion

By far the most notable achievement to date resulting in the most significant carbon reductions was the implementation of the Solana Beach Energy Alliance (SEA) through which residents can choose to power their homes with 100 percent clean energy. It took a considerable amount of time, resources and active involvement to establish SEA and as a small City with limited staff we are extremely proud to be the first City in the San Diego area to implement a CCA. More information about this notable achievement can be found on the City's website.

This report was prepared as an informal update and a more detailed and formal CAP Monitoring Report will be developed by the end of the fiscal year.