

City of Encinitas
Climate Action Plan Implementation
Interim Progress Update - December 2018

This progress update serves to summarize the implementation actions taken by the City since the update of the Climate Action Plan (CAP) in January 2018. As directed in the updated CAP, the City began implementing CAP actions in 2018, immediately after adoption by Council. In the last ten months, all City actions and some supporting measures have been initiated. This progress update is organized to coincide with the CAP's greenhouse gas (GHG) reduction strategy framework. Accomplishments are arranged by strategy, goal and each of the nineteen City actions. Progress on supporting measures are also reported, where applicable.

Major highlights of CAP implementation in 2018 include: Council approval of a permanent, full-time CAP Program Administrator, substantial completion of a draft Community Choice Energy Feasibility Study (to be presented to Council in early 2019), acquisition of a consultant to complete necessary cost effectiveness studies and building ordinances for Council adoption, acquisition of electric, plug-in and hybrid vehicles and switch to renewable diesel use for the City's fleet, adoption of the City's Active Transportation Plan, launch of the City Hall Compost Pilot Program, acquisition of two consultants to conduct organic waste public outreach and incentive programs, installation of over 4,000 linear feet of sidewalk throughout the city, Council approval for Leucadia 101 Streetscape which will install four roundabouts and improved bike and pedestrian mobility, and installation of over 800 net new City trees.

As directed in the updated CAP, a detailed monitoring report will be produced and presented to the Environmental Commission and City Council biannually. This report will include a city-scale greenhouse gas inventory (coinciding with the calculation of a regional GHG emission inventory by SANDAG), status of City action implementation using CAP performance metrics, and overall assessment of progress in meeting CAP reduction targets.

Strategy 1: Building Efficiency	
Goal 1.1: Reduce Building Energy Consumption	
BE-1 Require Energy Audits of Existing Residential Units	Working with SANDAG Emerging Cities Program to complete. Contract with EPIC executed 8/10/18. Kickoff meeting on 8/15/18. Development of ordinance initiated.
BE-2 Require New Single-Family Homes to Install Solar Water Heaters	Working with EPIC to complete. Contract executed 10/18/2018. Consultant evaluating ordinance option in light of cost effectiveness of solar water heating. May recommend multiple alternatives approach similar to County of San Diego and utilize their cost effectiveness work.
BE-3 Adopt Higher Energy Efficiency Standards for Commercial Buildings	Working with SANDAG Emerging Cities Program to complete. Contract with EPIC executed 8/10/18. Kickoff meeting with EPIC on 8/15/18. Development of ordinance initiated.
BE-4 Require Commercial Buildings to Install Solar Water Heaters	Working with EPIC to complete. Contract executed 10/18/2018. Cost effectiveness study must be prepared prior to ordinance development. EPIC currently evaluating alternatives to be included in study.

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<p>Supporting Measures for Goal 1.1:</p> <ul style="list-style-type: none"> • Green Business workshop held on November 7, funded by the City and hosted by I Love a Clean San Diego. • Six Property Assessed Clean Energy (PACE) programs approved by City Council to operate in Encinitas (pre-2018). Programs advertised on City website and are utilized by many residents during renovation. • Homeowner and business programs offered by SDG&E and CSE advertised on City's Climate Dashboard website. • Expedited permitting and fee waivers for solar PV permits. • City became a San Diego Green Business Network member. https://greenbizsd.org/ • City became a member of Cleantech San Diego. http://cleantechsandiego.org/ 	
<p>Goal 1.2: Reduce Municipal Operation Consumption</p>	
<p>MBE-1 Continue Implementation of Energy Efficient Projects in Municipal Facilities</p>	<p>Council direction to pursue Zero Net Energy Project, Sept 2016. Project to include energy efficiency upgrades and solar installation at multiple municipal facilities and options for streetlight conversion. RFP advertised in spring 2018, interviews conducted, consultant to be selected January 2019.</p>
<p>Supporting Measures for Goal 1.2:</p> <ul style="list-style-type: none"> • Library, Community Center, and City Hall energy audits performed in late summer. • In 2017, secured \$700,000+ grant for energy efficient streetlight conversions. RFP for project to be issued early 2019. 	
<p>Strategy 2: Renewable Energy</p>	
<p>Goal 2.1: Achieve 100% Renewable Electricity Supply in Homes and Businesses</p>	
<p>RE-1 Establish a Community Choice Energy Program</p>	<p>Four-city CCE Feasibility Study initiated with selected consultant. Draft study anticipated to go to Councils in January 2019.</p>
<p>RE-2 Require New Homes to Install Solar Photovoltaic Systems</p>	<p>Working with EPIC to complete. Contract executed 10/18/2018.</p> <p>Draft ordinance prepared based on 2016 building code. Consultant reviewing draft ordinance.</p>
<p>RE-3 Require Commercial Buildings to Install Solar Photovoltaic Systems</p>	<p>Working with EPIC to complete. Contract executed 10/18/2018.</p> <p>Cost effectiveness study must be prepared prior to ordinance development.</p>
<p>Supporting Measures for Goal 2.1:</p> <ul style="list-style-type: none"> • Green Business Workshop held on November 7, funded by the City and hosted by I Love a Clean San Diego. • Six Property Assessed Clean energy (PACE) programs approved by City Council to operate in Encinitas (pre-2018). Programs advertised on City website and are utilized by some residents during renovation. 	

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<ul style="list-style-type: none"> • Homeowner and business programs offered by SDG&E and CSE advertised on City’s Climate Dashboard website. • Expedited permitting and fee waivers for solar PV permits. • City became a member of CalCCA. https://cal-cca.org/ • City is an active party to the Power Charge Indifference Adjustment proceeding at the California Public Utilities Commission with Mayor Blakespear attending in-person meetings to advocate the City’s position. • Community Choice Energy added to the City Council’s legislative priorities on October 24, 2018. • City Council signed various legislative letters in support of CCA. 	
<p>Goal 2.2: Increase Renewable Electricity in Municipal Operations</p>	
<p>MRE-1 Supply Municipal Facilities with Onsite Renewable Energy</p>	<p>Council direction to pursue Net Zero Energy Project in September 2016. Project to include energy efficiency upgrades and solar installation at multiple municipal facilities and options for streetlight conversion. RFP advertised in spring 2018, interviews conducted, consultant to be selected January 2019.</p>
<p>Supporting Measures for Goal 2.2:</p> <ul style="list-style-type: none"> • 501 Solar PV permits have been issued in 2018 as of October. • Three projects installed solar-powered Rectangular Rapid Flashing Beacons—two on Mackinnon Ave and one on Montgomery Ave. 	
<p>Strategy 3: Water Efficiency</p>	
<p>Goal 3.1: Reduce Citywide Potable Water Consumption</p>	
<p>WE-1 Regularly Conduct Water Rate Studies and Implement Approved Water Rates</p>	<p>SDWD’s most recent water rate increase occurred on January 1, 2017 and the next water rate adjustment is scheduled for May 1, 2019.</p>
<p>Supporting Measures for Goal 3.1:</p> <ul style="list-style-type: none"> • Six Property Assessed Clean energy (PACE) programs approved by City Council to operate in Encinitas (pre-2018). Programs advertised on City website and are utilized by some residents during renovation. • Water efficiency and incentive programs posted on SDWD website, Facebook, Nextdoor and emailed to interested citizens through Constant Contact. • Two water smart landscape workshops conducted—Spring and Fall. 	
<p>Strategy 4: Clean and Efficient Transportation</p>	
<p>Goal 4.1: Reduce Vehicle Miles Traveled</p>	
<p>CET-1 Complete and Implement the Citywide Active Transportation Plan</p>	<p>Active Transportation Plan completed and adopted by Council on August 22, 2018. Caltrans Sustainable Communities Grant application submitted in October for the first phase of implementation, called Encinitas Modal Alternatives Project (MAP). The Encinitas MAP will build upon the comprehensive analysis of the ATP</p>

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	and develop conceptual layouts and designs, cost estimates, and prioritization of the bike and pedestrian project list.
CET-2 Implement a Local Shuttle System	Encinitas Transit Feasibility Study, completed June, 2014 is under review by staff and public transit options are being considered.
<p>Supporting Measures for Goal 4.1:</p> <ul style="list-style-type: none"> • City Council updated the Public Roads Standard to include adherence to National Association of City Traffic Officials’ guidelines including guidelines for sidewalks, urban bikeway design, and complete streets. • City of Encinitas leading the North County Coastal partnership to explore bikesharing opportunities and deploy bikeshare in North County. MOU between North County coastal cities developed, RFI issued, six proposals received, interviews conducted, staff-level vendor selection made, license agreement currently being negotiated. • Mobility ordinance being drafted to better regulate and organize micromobility vehicles. • Encinitas staff participating in regional micromobility coordination. • El Portal Rail Road Undercrossing in design, anticipated to go to construction in Summer 2019. • Santa Fe Dr and Encinitas Blvd I-5 Undercrossing projects under construction, lead by Caltrans. Projects are widening the roadway to add bike lanes and sidewalks along Santa Fe and Encinitas Blvd in both directions under the freeway. • Completed Requeza Sidewalk Project – added 450 linear feet. • Completed MacKinnon Sidewalk Project – added 200 linear feet. • Completed Montgomery Sidewalk Project – added 200 linear feet. • Completed Lumberyard Sidewalk Extension Project on Highway 101 from I street to the railroad undercrossing at Santa Fe Drive—approximately 1,300 linear feet added. • Replaced deteriorating sidewalk on Springwood Lane – 2,000 linear feet. • Sidewalks in design: Bonita Drive and B St sidewalk (Encinitas Blvd to Moonlight Beach.) • City of Encinitas earned a Silver Diamond award from SANDAG iCommute for encouraging employees to use environmentally sustainable transportation options to get to and from work, including participation in Bike to Work Day, Rideshare Week, hosting employee workshops, offering employee bikeshare and various other activities. https://www.sandag.org/index.asp?newsid=1072&fuseaction=news.detail • Ongoing additions to Customer Self Service applications which promote conducting business virtually, reducing paper use and vehicle trips. 	
Goal 4.2: Reduce On-Road Fuel Use	
CET-3 Improve Traffic Flow	<p>Leucadia Blvd and Hygeia Ave roundabout at 30% design. Design is anticipated to be complete in February of 2019. Construction planned for Summer/Fall 2019.</p> <p>Four roundabouts are proposed within the Leucadia 101 Streetscape project approved by Coastal Commission on November 28, 2018. The project is at 60% design. Leucadia Streetscape received the 2018 North County Economic Development Award by the North County Economic Development Council.</p> <p>Grant secured for four signal modifications to add protected left turn phasing which will reduce delay times and improve traffic efficiency.</p> <p>Proposal approved to optimize signal timing and corridor timing coordination citywide.</p>

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<p>Supporting Measures for Goal 4.2:</p> <ul style="list-style-type: none"> Applied for ATP funds (Caltrans) and BUILD funds (US DOT) to construct specific phases of the Streetscape project. The City has not yet heard back on these grants yet. 	
<p>Goal 4.3: Increased Use of Alternative Fuels</p>	
<p>CET-4 Require Residential Electric Vehicle Charging Stations</p>	<p>Working with EPIC to complete. Contract executed 10/18/2018.</p> <p>Consultant to evaluate upcoming new CAL Green Standards versus 2016 code.</p>
<p>CET-5 Require Commercial Electric Vehicle Charging Stations</p>	<p>Working with EPIC to complete. Contract executed 10/18/2018.</p> <p>Consultant to evaluate upcoming new CAL Green Standards versus 2016 code.</p>
<p>MCET-1 Transition to Zero Emission Vehicle (ZEV) Municipal Fleet</p>	<p>Zero Emission Vehicle Fleet Conversion Plan, preliminary draft developed by staff February 2018.</p> <p>To date, City fleet vehicle replacements have included the purchase of:</p> <ul style="list-style-type: none"> -2 all-electric vehicles -2 hybrid electric plug-in vehicles -15 hybrid gas/electric vehicles -2 truck XLH™ Hybrid Electric Upfits (pending receipt) <p>https://www.xlfleet.com/content/products#xlp-section</p> <p>The City's light/medium duty fleet include a total of 48 vehicles. Of these vehicles, 43% are all-electric, plug-in or hybrid.</p> <p>In November the City initiated delivery of renewable diesel to Fire Stations 3 and 4. All City fleet diesel vehicles—pickups, dump trucks, fire trucks, and stationary generators—are now fueling up at these locations and running on renewable diesel.</p> <p>Ten electric vehicle charging stations are currently being installed at the public works yard as part of SDG&E's Power Your Drive program, to support City fleet electric vehicle charging.</p> <p>The city is using telematics GPS technology to conduct a citywide fleet analysis to evaluate and improve fleet vehicle use.</p> <p>City staff is seeking rebates and incentives and requesting City budget adjustments to continue to fund the City's Zero Emission Fleet Vehicle transition by 2030.</p>
<p>Supporting Measures for Goal 4.3:</p> <ul style="list-style-type: none"> Encinitas 101 wayfinding signage program for downtown Encinitas approved by Council on August 15, 2018. On August 9, 2017, Council approved an Electric Vehicle Charging Station project to be constructed in the lower lot of City Hall by Corridor Power. The project will include the installation 	

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<p>of 10 DC fast charging stations and a driver's lounge.</p> <ul style="list-style-type: none"> • 12 charging stations were permitted and installed throughout the city in 2018 as of October. 	
<p>Strategy 5: Reduce Off-Road Equipment</p>	
<p>Goal 5.1: Reduce Off-Road Fuel Use</p>	
<p>OR-1 Adopt a Leaf Blower Ordinance to Limit Use of 2-stroke Leaf Blowers</p>	<p>On June 14, 2018 the City of Encinitas Environmental Commission approved the following action:</p> <p><i>“Establish a Sub-Committee, to work with City staff, to develop a leaf blower policy recommendation consistent with the City’s Climate Action Plan (CAP).”</i></p> <p>Following later action on the Environmental Commission 2018-2019 Work Plan by City Council on August 9, 2019, staff met with the sub-committee representative to strategize on development of an ordinance that would be consistent with the CAP measure. It is anticipated that an updated recommendation by the Environmental Commission will be completed in the Spring of 2019 following an ongoing review of similar ordinances and conferring with City staff on opportunities and constraints. Further, public engagement has been identified as a critical element of this initiative, requiring thoughtful planning and execution strategy development as part of the forthcoming recommendation.</p>
<p>Supporting Measures for Goal 5.1:</p> <ul style="list-style-type: none"> • Establishment of an Environmental Commission Subcommittee to work with staff to develop a leaf blower policy recommendation consistent with the CAP. 	
<p>Strategy 6: Zero Waste</p>	
<p>Goal 6.1: Divert Solid Waste</p>	
<p>ZW-1 Implement a Zero Waste Program</p>	<p><u>The following data is from the calendar year 2017 annual report to CalRecycle. This is the most current available data – we prepare an annual report each summer.</u></p> <ul style="list-style-type: none"> • Single stream recycling collected/processed by EDCO: 11,726 tons • Green waste collected/processed by EDCO: 16,360.62 tons (combined residential and roll off accounts). The vast majority of EDCO green waste is residential (15+ tons.) • Construction/Demolition: 29 covered projects in calendar year 2017; approximately 440.9 tons of mixed C&D collected and processed by EDCO. • Total diversion (recycling/green waste collected/processed by EDCO): 28,086.62 tons. • City Special Events ClearStream participation: 22 events in calendar year 2017. <p>City is working closely with franchise hauler (EDCO) to implement new technologies.</p>

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	<p>The City funds waste diversion programs at local schools within EUSD and SDUSD through a contract with BCK. BCK provides focuses on giving students a voice to encourage peers to change behaviors and to make recommendations to school administration about improvements. The three main components of the program are:</p> <ul style="list-style-type: none">-SCRAP (Separate, compost, reduce, and protect) Cart (monitored by students)-Composting (run by students with oversight from a teacher)-System and Hauling Audits (performed by students) <p>Some notable achievements in Fiscal Year 2018:</p> <ul style="list-style-type: none">-Upon the initial implementation of the SCRAP Cart, EUSD reduced its lunchtime waste by 80%.-Approximately 25 pounds of scraps per week are diverted from the landfill due to the composting program at Ocean Knoll.-Plastic straws have been replaced with paper straws at Oak Crest.-At Diegueno, 35 students make up the R.A.D. team (Recycling At Diegueno). Students meet with a BCK consultant to conduct a visual waste audit of 18 exterior waste stations every week. They found a diversion recycling rate of 55.4% was achieved throughout the school year. <p>City funds Solana Center and I Love A Clean San Diego to host waste reduction workshops and implement composting incentive programs. The following events have been held in 2018:</p> <p>I Love – 3 Zero Waste Workshops (ZW 101: Home; ZW 101: Organics; ZW 101: On the Go) – 145 attendees (60/50/35) 1 Zero Waste Fair – 250 attendees Green Business Solutions Workshop (11/7/18) – 26 attendees (had 33 in 2017)</p> <p>Solana – 4 compost workshops – 113 attendees 1 Master Composter course – 30 attendees Subsidized compost/worm bin sales – 137 sold</p> <p>Additional public outreach funded by the City that Solana Center conducts includes:</p> <ul style="list-style-type: none">-Compost and e-waste hotline-Commercial waste audits on request-Launched the Community Compost Program in October 2017. As of June 2018, the program diverted 2,553 pounds of food waste, 34 households and 1 business purchased equipment, received information about the bokashi method, and have been receiving monthly communication to encourage their continued participation <p>Expanded Polystyrene Disposable Food Service Prohibition Ordinance in place (Adopted by Council on November 16, 2016).</p> <p>It is anticipated that a straw policy recommendation, consistent with the following draft recommendation will be considered by the City Council in Spring 2019:</p> <ol style="list-style-type: none">1. <i>Request the City Council to extend their previous approval for proceeding with a Straws-on-Request ordinance to include two</i>
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	<p><i>modifications resulting from recent circumstances:</i></p> <p>a. <i>So as to not redundantly overlap with the recently passed State AB1884, change the covered establishments to those that are not covered by AB1884, including (but not necessarily restricted to) take-out, fast-food, and mobile food-serving establishments. Include plastic utensils (in addition to plastic straws as originally requested) as items to be distributed on request-only.</i></p>
<p>Supporting Measures for Goal 6.1:</p> <ul style="list-style-type: none"> • Conducted City Hall and Library Waste Assessment, May 2017. • Shredding/E-waste event held May 12, 2018: 262 participants, 4.5 tons paper shredded, 0.73 ton e-waste collected. • Launched City Hall Pilot Composting Project, conducted building-wide employee compost and recycling training, and improved signage for recycling and waste streams, October. • City coordinated Pumpkin Composting Event at Paul Ecke and Ocean Knoll schools, November. • Ongoing use of 30% post-consumer recycled paper and use of double-sided printing as default. • Ongoing additions to Customer Self Service applications which promote conducting business virtually, reducing paper use and vehicle trips. 	
<p>Strategy 7: Carbon Sequestration</p>	
<p>Goal 7.1: Increase Urban Tree Cover</p>	
<p>CS-1 Develop and Implement an Urban Tree Planting Program</p>	<p>35 City trees planted on Saxony Rd on June 2018. 30 City trees planted on Melba for Arbor Day 2018.</p>
<p>Supporting Measures for Goal 7.1:</p> <ul style="list-style-type: none"> • Top-dressing of compost applied throughout all City Parks as a standard practice to conserve soil moisture and improve soil quality. • The City continues to encourage developers to avoid removal of mature trees when a property is developed or redeveloped. If removal is unavoidable, trees must be replaced at a 1:1 ratio. • New parking lots requirement: 1 tree for every 5 spaces. • Arbor Day event held in 2018. San Diego Regional Urban Forest Council to award City “Best Arbor Day in San Diego.” • Tree Planting Request Program currently being developed for residents to request a tree be planted adjacent to their property in City Right of Way. • Working with Urban Corps and North County Tree Stewards to get a grant for 250 trees to be planted at City parks. • Downtown Street Infill Program established to plant 220 vacant planting locations. Drought tolerant species to be selected. • “Save our Shade” award received from California Urban Forests Council, August 2017. 	