



CLIMATE ACTION COMMISSION REGULAR MEETING

Wednesday, January 18, 2023, 5:30 PM

City Hall / City Council Chambers, 635 S. Highway 101, Solana Beach, CA 92075

1. **CALL TO ORDER**
2. **APPROVAL OF THE AGENDA**
3. **APPROVAL OF MINUTES OF PAST MEETINGS**
 - Meeting of November 16, 2022
4. **PUBLIC COMMENT**
5. **JUNIOR COMMISSIONER ITEMS (10 minutes)**
 - **Appointment of New Junior Commissioners**
 - i. Chase Erlbeck - Torrey Pines Highschool, Senior
 - ii. Elise Black - Earl Warren Middle School, 8th grade
 - **Updates**
6. **SINGLE-USE PLASTICS OUTREACH UPDATE –Commissioner Kellogg (15 minutes)**
7. **CLIMATE ACTION PLAN & SUBCOMMITTEE UPDATES**
 - **Decarbonize Electricity Supply** - Commissioners Basore, McClune & Crocker
 - **Decarbonize Buildings** - Commissioners Dewar, McClune, Sharman & Councilmember Zito
 - **Decarbonize Transportation** - Commissioners Nagamine & Rock
 - **Natural Climate Solutions and Other** - Commissioners Dewar, Kellogg, Hegenauer
8. **ANNOUNCEMENTS**
9. **NEW/PROPOSED BUSINESS:** New or proposed business provides an opportunity for Commissioners to discuss items not on the agenda but that may be added to the CAC agenda/workload at a future date. Pursuant to the Brown Act, there will be no action taken on these items.
10. **ADJOURNMENT**

PUBLIC PARTICIPATION

The designated location for viewing public documents is the City’s website www.cityofsolanabeach.org.

Written correspondence regarding an agenda item at an open session meeting should be submitted to twade@cosb.org. **Oral comment participation:** If you wish to provide an oral comment during the meeting then you must attend the meeting in person and complete a speaker slip indicating which item you would like to speak about. Each speaker has three minutes to make their comments.

SPECIAL ASSISTANCE NEEDED - AMERICAN DISABILITIES ACT TITLE 2

In compliance with the Americans with Disabilities Act of 1990, persons with a disability may request an agenda in appropriate alternative formats as required by Section 202. Any person with a disability who requires a modification or accommodation to participate in a meeting should direct such request to twade@cosb.org (858) 720- 2400 at least 72 hours prior to the meeting.

Policy Strategy: Increase Renewable Energy Sources (Paul)

Actions	Actors	Examples
Create an inventory of existing PV capacity in SB	City*	
Monitor state policies related to solar PV installations	City	
Conduct an analysis of incentives for PV installations	City	
Conduct an analysis of potential for Community Solar	City	
Implement SolarApp+ for permitting of rooftop PV systems	City	

*Candidate for CAC assistance

Actions: e.g., “electricity-actions” file Actors: e.g., City, CEA, School Board, Residents, Property Owners
Examples: e.g., “Case Studies from RDF Implementation Playbook”

Policy Strategy: Decrease Use of Fossil-Fuel Based Energy Sources (Hayden)

Actions	Actors	Examples
Promote building electrification through permitting	City	
Develop incentives to improve the efficiency of electricity consumption	City*	
Develop rates or policies that shift loads from night to day	CEA	

*Candidate for CAC assistance

Actions: e.g., “electricity-actions” file Actors: e.g., City, CEA, School Board, Residents, Property Owners
Examples: e.g., “Case Studies from RDF Implementation Playbook”

Policy Strategy: Increase and Decentralize Energy Storage Capacity (Michael)

Actions	Actors	Examples
Create an inventory of existing storage capacity in SB	City*	
Conduct an analysis of incentives for energy storage	City	
Conduct an analysis to address transmission overload risks	CEA	
Conduct an analysis of potential for microgrids	CEA	

*Candidate for CAC assistance

Actions: e.g., “electricity-actions” file Actors: e.g., City, CEA, School Board, Residents, Property Owners
Examples: e.g., “Case Studies from RDF Implementation Playbook”

Decarbonize Transportation Actions

Background information:

The State of CA mandates 100% Zero Emission Vehicle (ZEV) sales for new passenger vehicles by 2035 as an effort to reduce GHG emissions and slow the speed of global warming.

In 2020, 69,000 EVs and 6,761 EV charging stations in the San Diego region. SANDAG estimates 770,000 EVs on the road by 2030, a factor of 11 increase. These EVs would require about 155,000 charging stations (23 times increase)¹. The rapid increase in the number of EVs help meet the California’s aggressive goal, 100% Zero Emission Vehicle (ZEV) sales for new passenger vehicles by 2035.

To keep up this trend, Solana Beach needs to increase its 11 publicly available charging stations to at least 275 by 2030.

Vision:

To support the initiative by the State of California and San Diego county, Solana Beach needs to help its residents purchase EV and make sure all the residents and visitors have access to affordable and convenient electric vehicle (EV) charging stations.ng.

All residents of Solana Beach can afford to purchase or lease an EV. Their EV can be charged at home or at conveniently located public charging stations.

Businesses in the city see EV charging as a resource to attract customers to their business. Businesses with local employees are willing to accommodate various working styles, including working from home (to reduce commuting), and install EV charging stations for employees and customers who need them at the workplace.

Popular destinations within Solana Beach, such as shopping centers and schools, are easily accessible by electric buses, safe bicycle lanes, and pedestrian pathways.

Goals and Workstream:

Goal	Workstream	Notes	
1	50% of all vehicles owned by Solana Beach residents are EVs by 2030	<ul style="list-style-type: none">● Rebate opportunities● Federal grants● State grants	
2	<i>Residents and visitors have affordable and convenient access to EV charging stations</i>		
	Install and maintain 275	<ul style="list-style-type: none">● Apply for CA/NEVI funding for	Current number of publicly

¹ Jared Aarons. "In Depth: Does San Diego have enough Electric Vehicle charging locations? "Significant gaps" reported in EV infrastructure". Posted at 10:24 AM, Apr 03, 2022 and last updated 10:24 AM, Apr 03, 2022. <https://www.10news.com/news/local-news/in-depth-does-san-diego-have-enough-electric-vehicle-charging-locations#:~:text=A%20recent%20report%20by%20SDG%26E.EVs%20to%20balloon%20to%20771%2C000>.

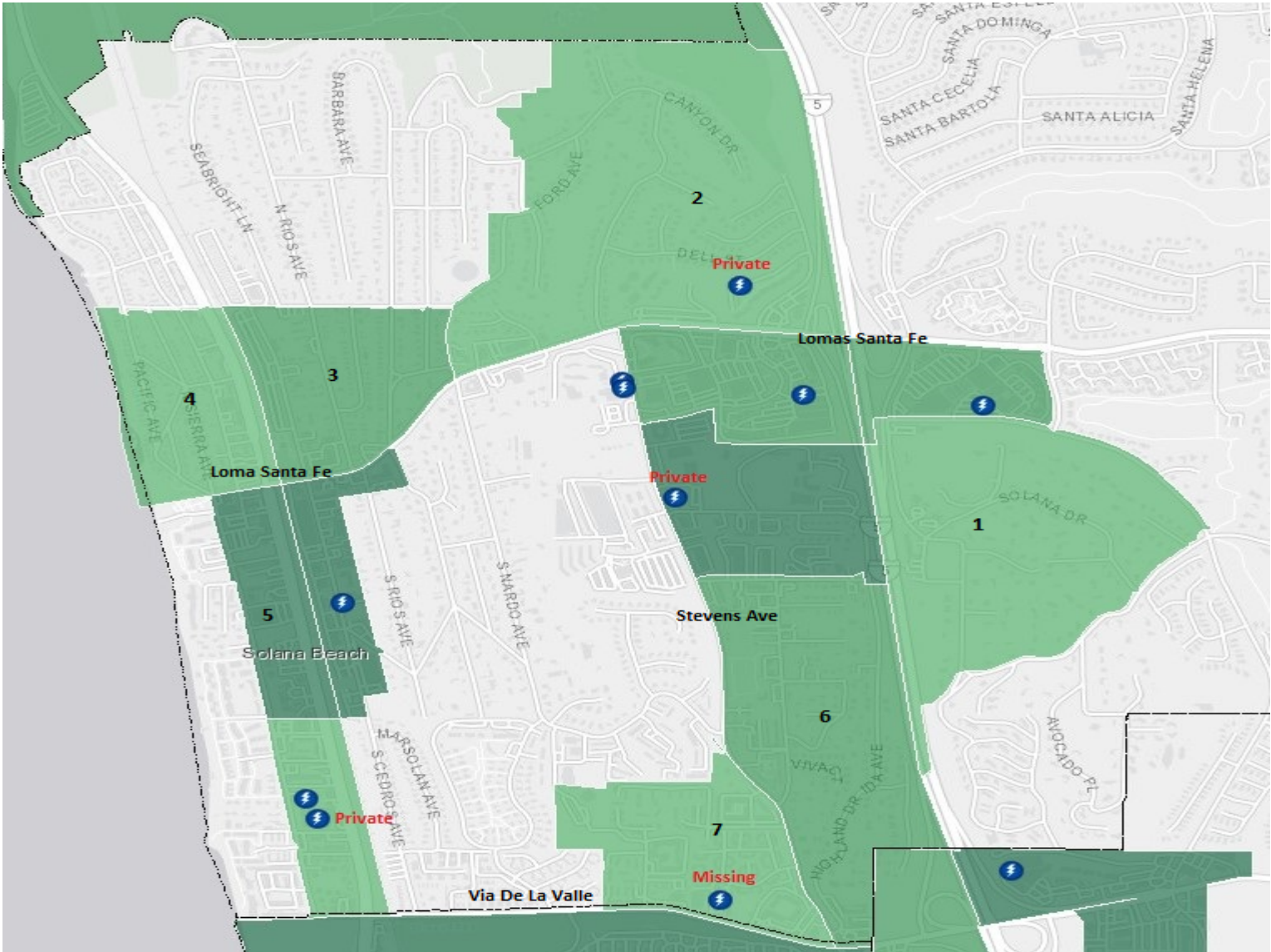
	charging stations by 2030 including both level 2 and DC fast chargers. Suggested locations are in the next page, "Locations for New Charging Stations (suggestions)"	public chargers as part of NEVI's I-5 corridor plan. identify 20% co-financing resources	available charging stations in Solana beach is 11. If Solana Beach wants to increase the number of charging stations proportionately to the County of San Diego, the city needs 275 stations by 2030
	By 2030, 100% of Solana Beach multi-family residential buildings have public EV charging stations	<ul style="list-style-type: none"> ● Provide information and incentives to landlords 	
	Update the electric infrastructure to supply enough electricity for EV charging	<ul style="list-style-type: none"> ● Work with SDG&E ● Identify the areas that need the updated infrastructure 	
3	<i>Reduce vehicle miles traveled in Solana Beach</i>		
	Increase alternative transportation for commuting, including public transportation and bicycle use	<ul style="list-style-type: none"> ● Finish Lomas Santa Fe bike lane project ● Study feasibility for electric bus to reduce congestion during school drop off and pick up hours; Summer beach access 	
	Provide incentives to the businesses for allowing employees work from home and charge their EVs at the parking places	<ul style="list-style-type: none"> ● Allow employees to use flexible work arrangements including flexible time, work from home ● Provide incentives to the businesses to install charging stations 	
	Help the residents reduce frequent short distance driving	<ul style="list-style-type: none"> ● Promote the use of school bus (e-school bus) and e-bicycle ● Work with the schools and pilot an e-school bus program and "bicycle to school" program ● Provide e-bicycle safety guidelines/training programs through the schools. ● Improve the convenience of the public transits ● Assess the needs of the residents for more convenient 	

		/ frequent bus/shuttle services that connect the residential areas and the popular destinations such as shopping centers and train stations	
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Locations for New Charging Stations (suggestions):

Consider installing charging stations in the areas without them or in the areas that are close to the areas without charging stations.

- Green colors in the map below indicate EV trip end percentile: Darker the green colors are, higher the percentiles of EV drivers end their trips in the areas.
- Blue cycle: Private and public charging stations in Solana Beach
- Dotted line : City boundary



The Map above is created based on Plug-In San Diego Electric Vehicle Charging Map (<https://evcs.sandag.org/>) in San Diego Regional Decarbonization Framework RDF-Technical-Report.

Potential Locations for New Charging Stations

Area Missing Charging Stations	Ideas for Additional Public Charging Stations
Area 1	Additional Level 2 and DC fast chargers at Lomas Santa Fe Plaza
Area 2	Additional Level 2 stations and DC fast charger at Solana Beach Town Center Encourage businesses such as Citi Bank to install charging stations
Area 3 & Area 4	Install Level 2 stations in the train station's parking place
Area 5	Install Level 2 stations in the parking place of Beachwalk Shopping Center (Where CA Pizza Kitchen is located) Provide incentives to the businesses / restaurants to install charging stations
Area 6	Install Level 2 stations in the La Colonia Park's parking place Provide financial support / incentives to the multi-family housing owners to install charging stations
Area 7	Provide incentives to the restaurants along Via De La Valle and other business to install Level 2 stations

- Review potential ownership models for the City to consider, as well as maintenance costs, pricing and other considerations outlined in the SANDAG report on the topic
- Identify potential funding mechanisms (Federal/State/County) if there are any available for the City to pursue
 - And/or identify how private entities might finance and provide public chargers
- Review whether City might be able to regulate/standardize/monitor public EV charging signage
- Identify resources to include on City website
 - The resources can include EV charging planning, permitting, accessibility and grid connection standards
 - Funding support for EV purchase
- Set up a web site/apps that allow the residents to request the services for broken charging stations (something that is similar to the service request form by the City of SD <https://www.sandiego.gov/get-it-done>)