

ONE MILE ONE CHARGER

City of Torrance Publicly Accessible Electric Vehicle Infrastructure

EV Charging



BACKGROUND

The City of Torrance continues to experience both residential and commercial growth, which has led to an increased demand for publicly accessible electric vehicle (EV) charging infrastructure within the City's boundaries. According to public outreach conducted by the City from 2011 to 2013, potential EV drivers reported experiencing "range anxiety"—a fear of being stranded without access to a charging station when their vehicle's battery runs low.

In response to this need, an interdepartmental team of City staff began exploring the expansion of EV infrastructure at publicly owned sites in Torrance. The team developed an initiative called "Plug-(P)in Maps," where residents could "plug-in" a pin on a city base map to indicate their preferred locations for EV chargers.

In 2013, the City Council directed staff to initiate the "One Mile, One Charger" project, continuing the City's longstanding support for the development of alternative fuels and energy sources.



Former Honda Executive VP Tetsuo Iwamura with Former Torrance Mayor Frank Scotto in Honda EV Fit



Plug-(P)in map in 2011 Torrance Environmental Fair

PROCESS

The City secured grant funding from the Mobile Source Reduction Committee (MSRC) and the California Energy Commission (CEC) to install 14 Level II charging stations and 6 DC Fast charging stations. These were installed at six publicly owned sites, chosen based on public input:

- Katy Geissert Library and Civic Center Complex - 9/10/15
- McMaster Park - 11/20/15
- Charles Wilson Park - 3/16/16
- Waleria Park and Library - 4/8/16
- Columbia Park - 4/15/16
- A City parking lot in Downtown Torrance - 4/25/16

Each site features a dual-port Level II charging station and a DC Fast charging station, except for the Civic Center, which has one DC Fast charging station and two dual-port Level II chargers. Extra conduit and a “Christy Box” were installed at each site to allow for future expansion without additional trenching.

Under City Council direction, expansion of the Infrastructure is possible. Public outreach data from the “Plug-(P)in Maps” and the “One Mile, One Charger” map will guide the addition of new EV charging sites.



2015 Torrance Plug-In Day EV Expo and Ribbon Cutting.

Pictured: Torrance Mayor, members of the Torrance City Council, Torrance City Clerk, representatives for Congressman Lieu, Congresswoman Waters and Assembly member Hadley offices, and ChargePoint, Inc.

Special Thank you to the California Energy Commission and the Mobile Source Reduction Committee for the funding that made this project possible!

THE RESULT

Over the past decade, the City of Torrance has made significant strides in promoting the installation of electric vehicle (EV) charging stations. The City has actively encouraged new commercial developers to include EV charging stations in their facilities, leading to widespread availability of charging infrastructure throughout Torrance.

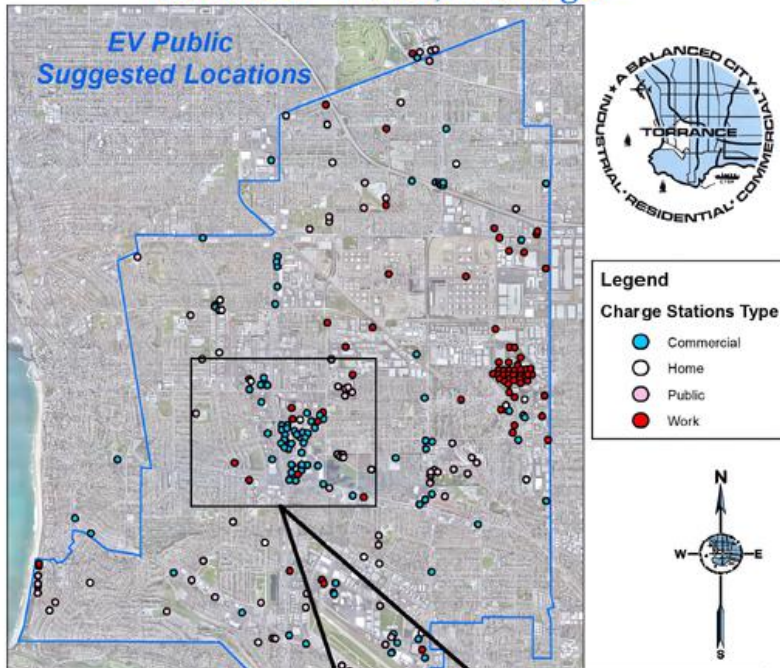
The comprehensive efforts under the "One Mile, One Charger" project have resulted in remarkable progress. As a result, Torrance now enjoys an impressive 99.7% coverage, ensuring that there is at least one EV charger within each mile across the city. This extensive network of charging stations has not only alleviated range anxiety among current and potential EV drivers but has also supported the City's broader goals of promoting alternative fuels and sustainable energy sources.

The successful implementation of this project highlights the City's commitment to creating a more sustainable and environmentally friendly community. Torrance's proactive approach in collaborating with public input and leveraging grant funding has set a strong example for other cities aiming to enhance their EV infrastructure and support the transition to cleaner transportation options.



FROM DREAMS TO REALITY

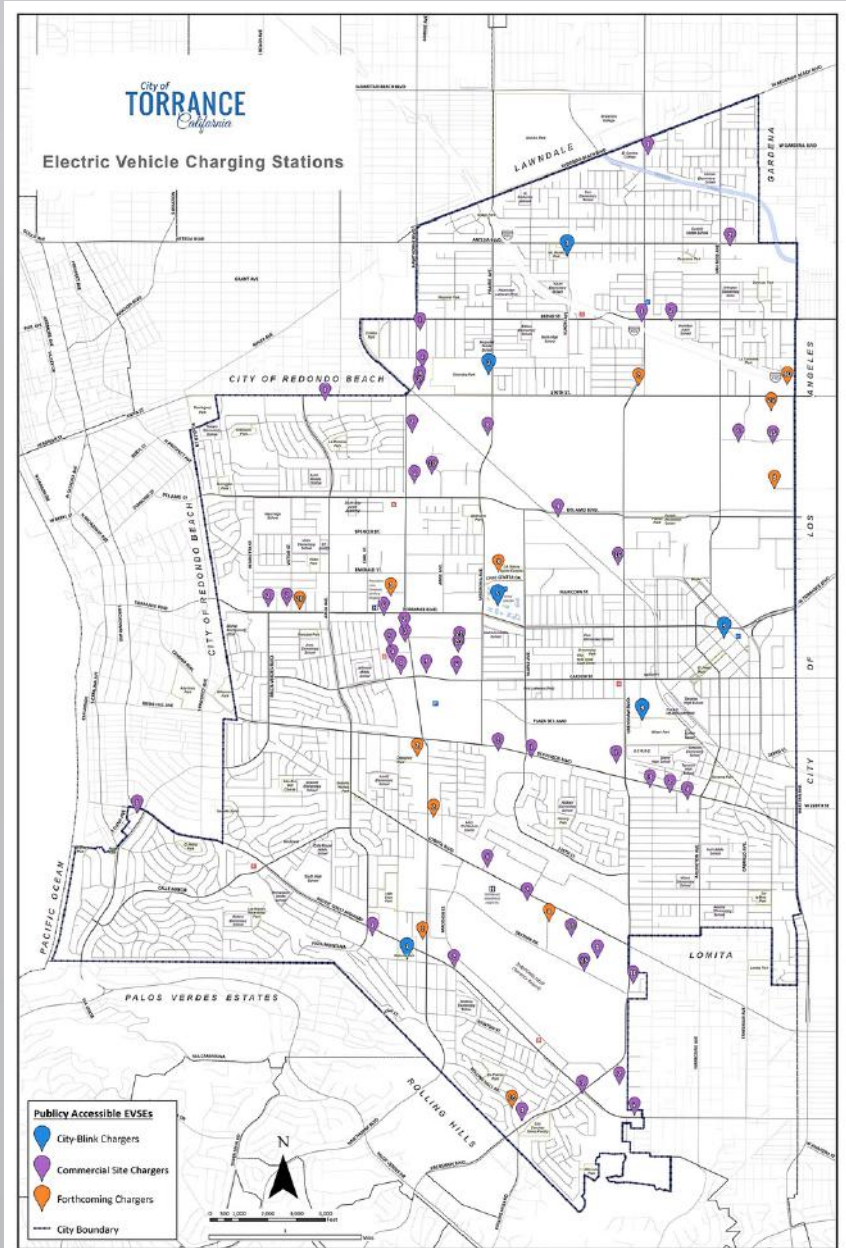
Torrance: "1 Mile, 1 Charger"



Public suggested EV charging locations from 2011



City Charger: 20
 Commercial Charger: 255
 Forthcoming Charger: 135



Current and forthcoming EV charging stations in 2024

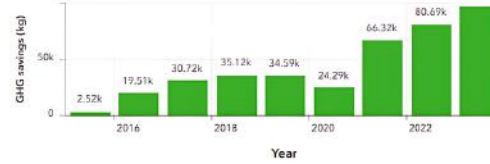
EV DASHBOARD

EV CHARGING NETWORK

- Blink Charging
- ChargePoint
- EVgo
- Greenlots
- IONNA Network
- SemaConnect
- Tesla Superchargers
- Volta Charging

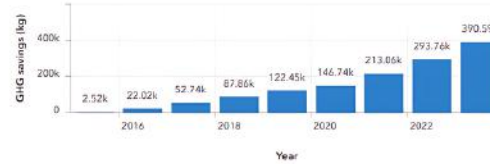


Greenhouse Gas Saving per Year



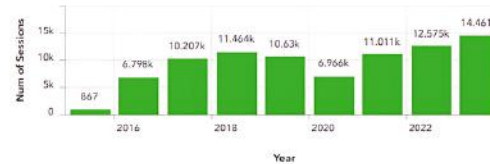
This data is from City Owned ChargePoint Stations Only

Greenhouse Gas Saving Accumulated by Year



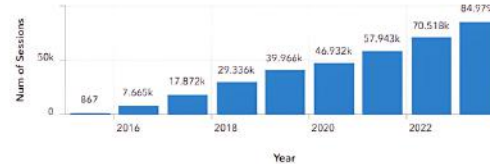
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Number of Charge Sessions per Year

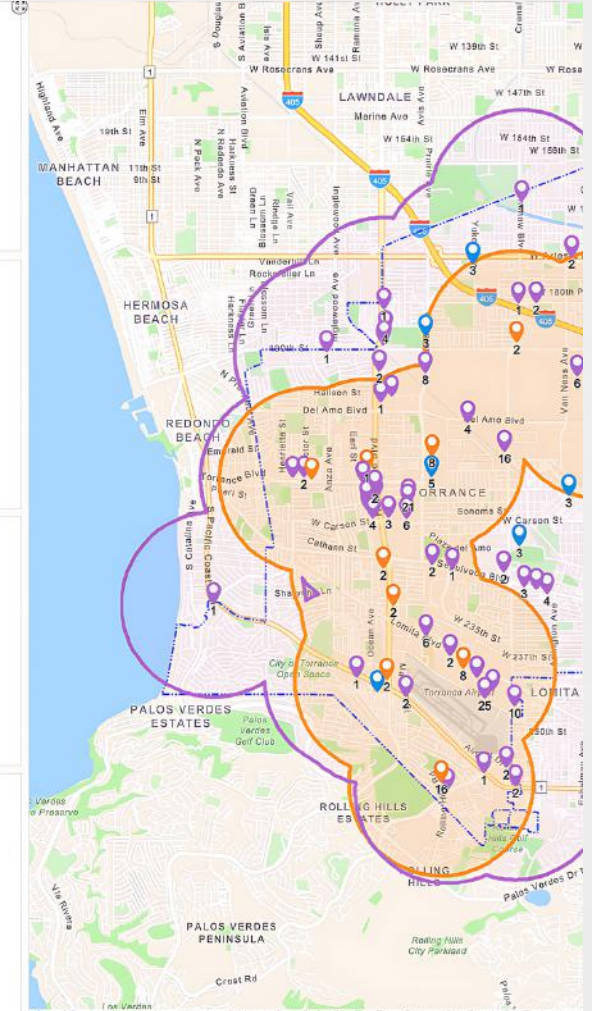


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Number of Charge Sessions Accumulated by Year



This data is from City Owned ChargePoint Stations Only



QR Code - EV Dashboard

SUPPORT AND DEDICATION

Streamlining Electric Vehicle (EV) Charging Stations

The City is dedicated to streamlining the installation of electric vehicle (EV) charging stations and is currently in the process of adding a new chapter to the Torrance Municipal Code (TMC) Division 8 to address it. Significant effort has already been put into place to ensure the City's compliance with the state-mandated review timelines. Additionally, City staff diligently schedule pre-application meetings and ensure applicants are not penalized for reducing parking counts, further demonstrating our commitment to facilitating the adoption of EV infrastructure.



TORRANCE FLEET



Light Duty Vehicle (LDV) Transition:

- Percentage of LDVs: 40% of our light-duty vehicles (LDVs) are either EV, plug-in, or hybrid.
- Significance: This highlights a substantial portion of our fleet already embracing alternative fuel technologies, showcasing our commitment to sustainability.

Future Heavy-Duty Vehicle (HDV) Strategy:

- 2027 Goal: Starting in 2027, all new heavy-duty vehicle (HDV) purchases will need to be zero-emission.
- Current HDVs: There are 220 heavy-duty vehicles in our city fleet.
- Transition Plan: This policy shift signifies a significant step towards reducing emissions and aligning with our sustainability objectives.

EV Charger Installation Projects:

- City Hall Chargers: We are in the process of installing 16 EV chargers with dual ports behind City Hall.
- City Yard Chargers: Additionally, we are implementing 22 EV chargers with dual ports at the City Yard.
- Supporting Transition: These installations aim to support the initial transition to electric vehicles by providing necessary infrastructure for charging.

#WHYTORRANCE



- **Prime Location:** Located in Southern California, Torrance provides easy access to international trade routes, major markets, and a vibrant cultural scene.
- **Thriving Business Community:** Home to leading companies in aerospace, technology, manufacturing, and retail, Torrance fosters innovation and growth.
- **Quality of Life:** With top-rated schools, abundant parks, and a focus on public safety, Torrance is perfect for both professionals and families.



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City of
TORRANCE
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