Tis the Season to Go Electric.

City of San Diego EV infrastructure Projects
December 5th, 2018
Economic Development

- **State of California Goals:**
  - 5 million ZEVs by 2030
  - 250,000 electric vehicle charging stations by 2025

- **City of San Diego Goals:**
  - 50% zero emission vehicles in municipal fleet by 2020
  - 90% zero emission vehicles in municipal fleet by 2035

- San Diego has the highest number of EV per capita among California cities

- Approximately 20,000+ plug-in and EV in the region

- 950+ Level II

- 30 DC Fast Chargers

Source: CEC
Economic Development
City of San Diego - EV infrastructure

- 57 electric vehicle charging stations (68 ports) - 15 locations
- Destination sites such as:
  - Balboa Park
  - Community parks
  - Recreation centers
  - Libraries
  - Entertainment districts

Source: City of San Diego Mission Bay Park Bonita & Hourglass Community Park
**Siting and Installation Process**
- Parks, Recreational Center & Libraries, Community Parks
  - Destination Points
- On-street
- ADA accessibility
  - Existing or new ADA space
  - Technical Policy 11B-1
- Proximity to SDG&E transformer
- Independent pedestal meter
- Community outreach

Source: City of San Diego Mission Bay – Blink Stations
Economic Development

- **Enforcement**
  - Electric Vehicle Charging Station Zones
  - Only EVs are allowed to park in these zones
  - Time limit
    - Actively charging
    - Increase turnover

Source: City of San Diego
**Land Development Code**
- Transit-Oriented Development
  - EV charging infrastructure
  - Car Share parking Spaces
  - Bike Share/E-scooter
  - Benefits
    - Reduce parking requirements
    - Density bonus

Source: BMW
SDG&E - Power Your Drive Program

• $52.5 million pilot Program - CPUC
• 3 years install - 3,500 charging stations (350 locations)
• Workplace and multifamily residential

City of San Diego
• 106 charging stations
  • Municipal vehicles
  • Employees

Billing options
• SDG&E bill
• EV driver pays for their electricity on their SDG&E bill
eVgo – Fast charging Demonstration Project

- Six direct current (DC) fast chargers
- Ten designated EV parking spaces in the public right-of-way
- The new chargers would be up to 150-kilowatt (kW) high-power DC fast chargers
  - Next generation technology that can provide a 300-mile range in as few as 20 to 30 minutes.
- First high powered “curbside” chargers in San Diego
Solar to EV Project
- 10 solar canopies producing 90 kilowatts of electricity
- Five EV charging stations
- 100-kW energy storage system
Plug-in Electric Vehicle Chargers
- 4 PEV chargers & 1 ADA PEV charger

Advanced Energy Storage System
- Offset vehicle charging
- Reduce peak demand
Car Share Program

Car2Go
- All-electric car share service
  - Launched Nov 12th, 2012
  - 300 EV Smart fortwo
  - Ceased operation Dec 31st, 2016
- Issued ‘Request for Sponsorship’ (RFS)
  - Received two proposals for an all electric car share service
  - Review process

Source: Car2go
Economic Development

Envision Solar – EV ARC
• Ease of installation
• Standalone system
• Emergency power capabilities
  • Special event
  • Remote location

Source: Envision Solar