DOCKETED	
Docket Number:	18-EVI-01
Project Title:	California Plug-in Electric Vehicle Infrastructure Projections
TN #:	223615
Document Title:	DC Fast Charger Siting - Merging Expert Prespectives
Description:	Powerpoint presentation
Filer:	Tami Haas
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	5/29/2018 5:06:21 PM
Docketed Date:	5/30/2018



## DC Fast Charger Siting Merging Expert Perspectives

Cal Silcox Pacific Gas & Electric



#### **Company Facts**

- Regulated gas & electric utility serving Northern and Central California
- \$17B in operating revenues in 2014
- 23,000 employees

### **Energy Supply**

- Services to 16M people:
  - 5.2M Electric accounts
  - 4.3M Natural Gas accounts
- Peak electricity demand: Approx. 22,000 MW
- Approx. 55% of PG&E's electric supply comes from non-greenhouse gas emitting sources

#### **Service Territory**

- 70,000 sq. miles with diverse topography
- 160,000 circuit miles of electric transmission and distribution lines
- 49,000 miles of natural gas transmission and distribution pipelines

#### Cumulative EV Registrations by County PG&E Service Area









#### Drivers





- Collect & publish best practices in DC fast charger (DCFC) siting
- 2. Using these best practices, find the **most needed DCFC sites** in PG&E's service territory:
  - A. Find the 300 most needed broad *locations* within PG&E's territory for DC fast charger installations in 2025
  - B. Estimate how many chargers are needed at each location to support projected EV adoption in 2025
  - C. Identify individual potential *sites* with existing capacity for planners to target
  - D. Provide a map & scoring tool to help on-the-ground planners prioritize these sites

This study was funded by PG&E, through California's Electric Program Investment Charge (EPIC), D. 13-11-025











UC Davis and PlugShare identified 300 locations where DCFCs are needed through a travel-demand model and modified to account for existing infrastructure.

# PG&E Identification of Sites at a Potential Location



Online Interactive Siting Map will be Released in August

- 14,416 sites in 300 ranked bubbles
- Interactive map & siting tool for DCFC developers to identify sites based on priorities

