

DC Fast Charging on California Highway Corridors



EV Infrastructure Workshop

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Session Agenda



1. Brief Introduction to Session (AESC - 2 min)
2. Presentations (15 – min)
 - Discussion on Gap Analysis (UC Davis - 5 min)
 - Discussion of Lesson Learned – WCEH OR/WA (AeroVironment - 5 min)
 - Partnering on Infrastructure Development (Caltrans - 5 min)
3. Discussion (43 min)
 - Panel Introductions (3 min)
 - Panel Discussion (25 min)
 - Public Input (15 min)

DCFC Session Introduction

Purpose:

To elicit industry and public input as we seek to address DCFC gaps on the West Coast Electric Highway and other important corridors.

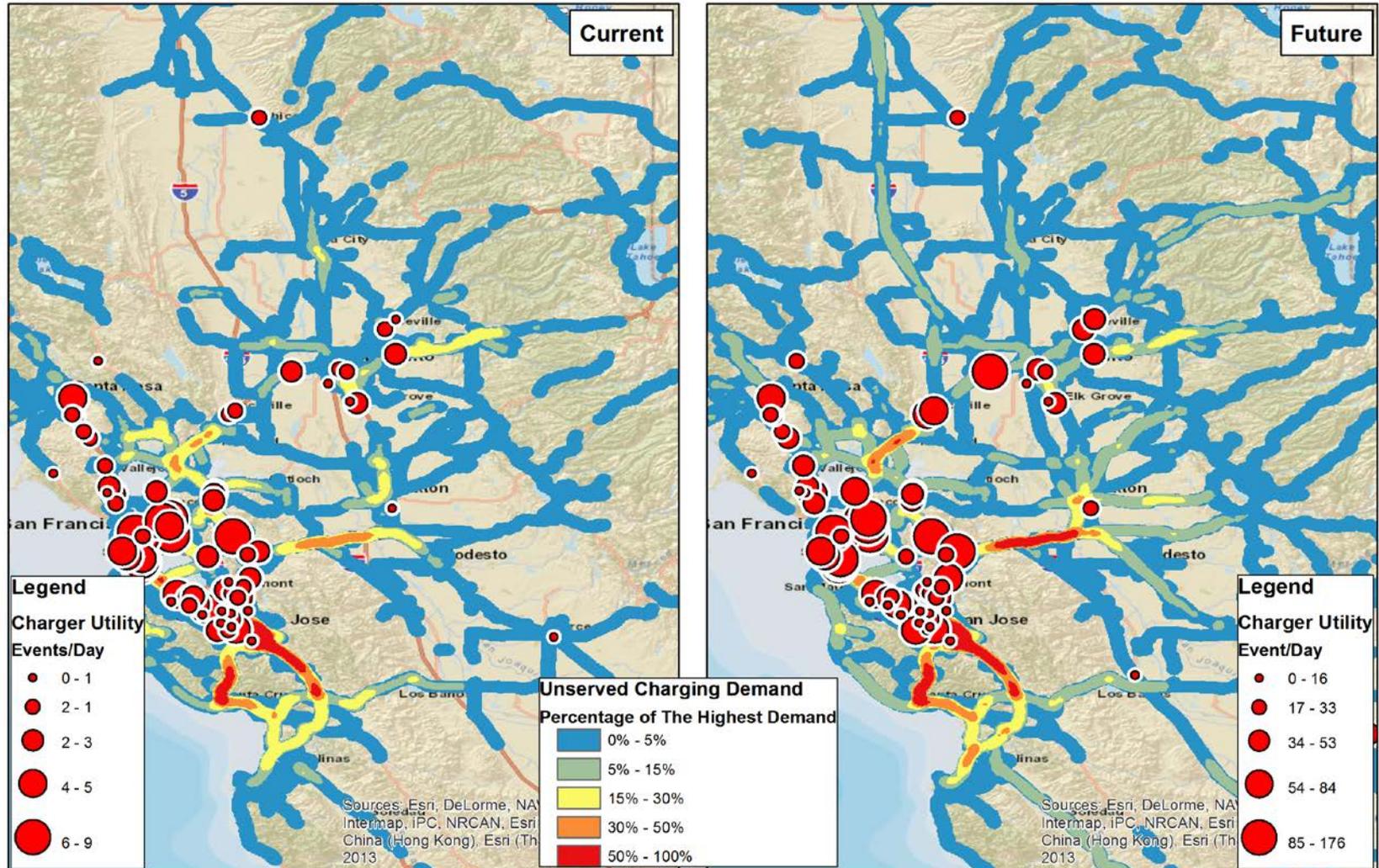
This input will help to shape the next CEC solicitation.



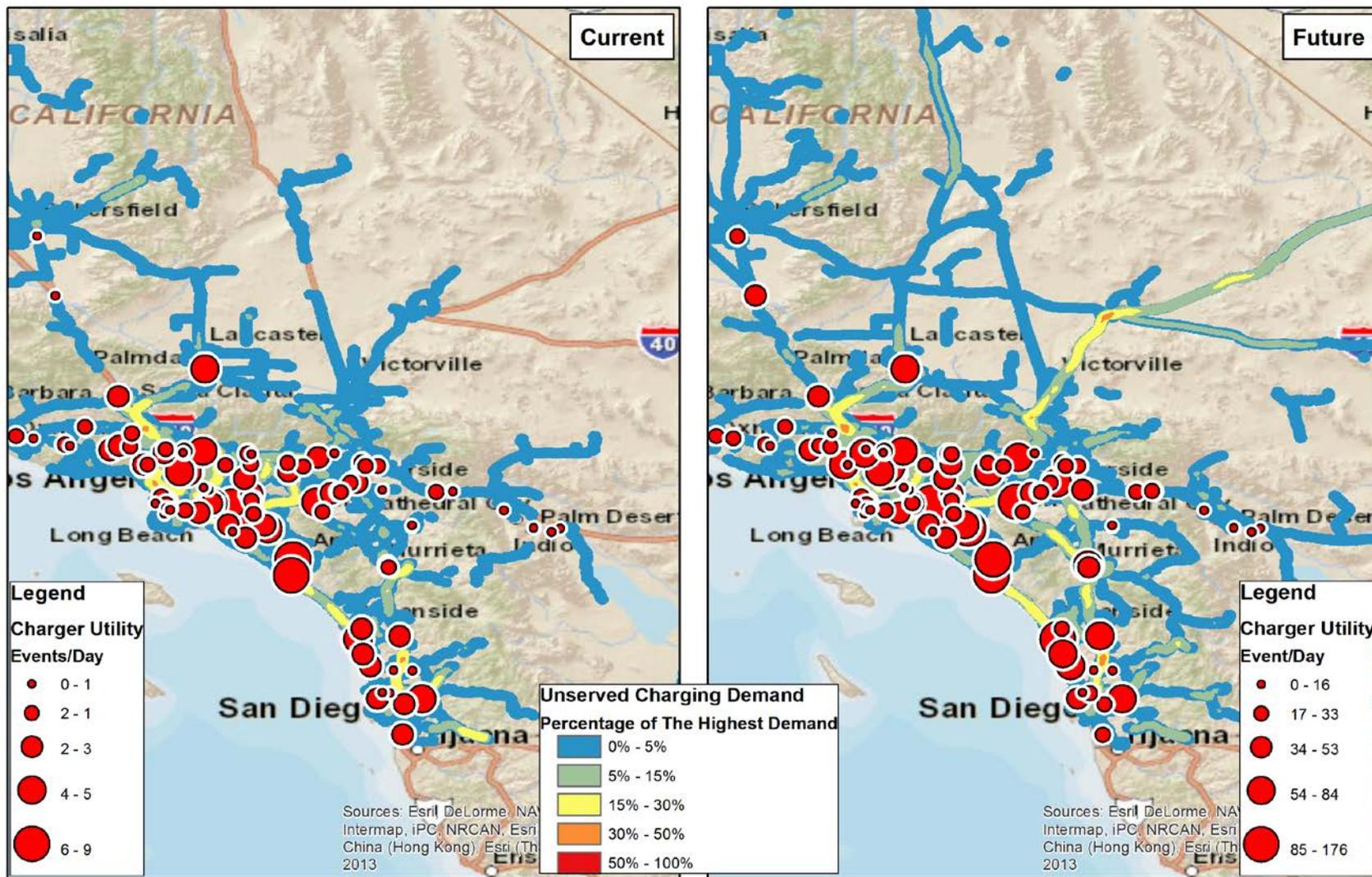


Discussion on Gap Analysis

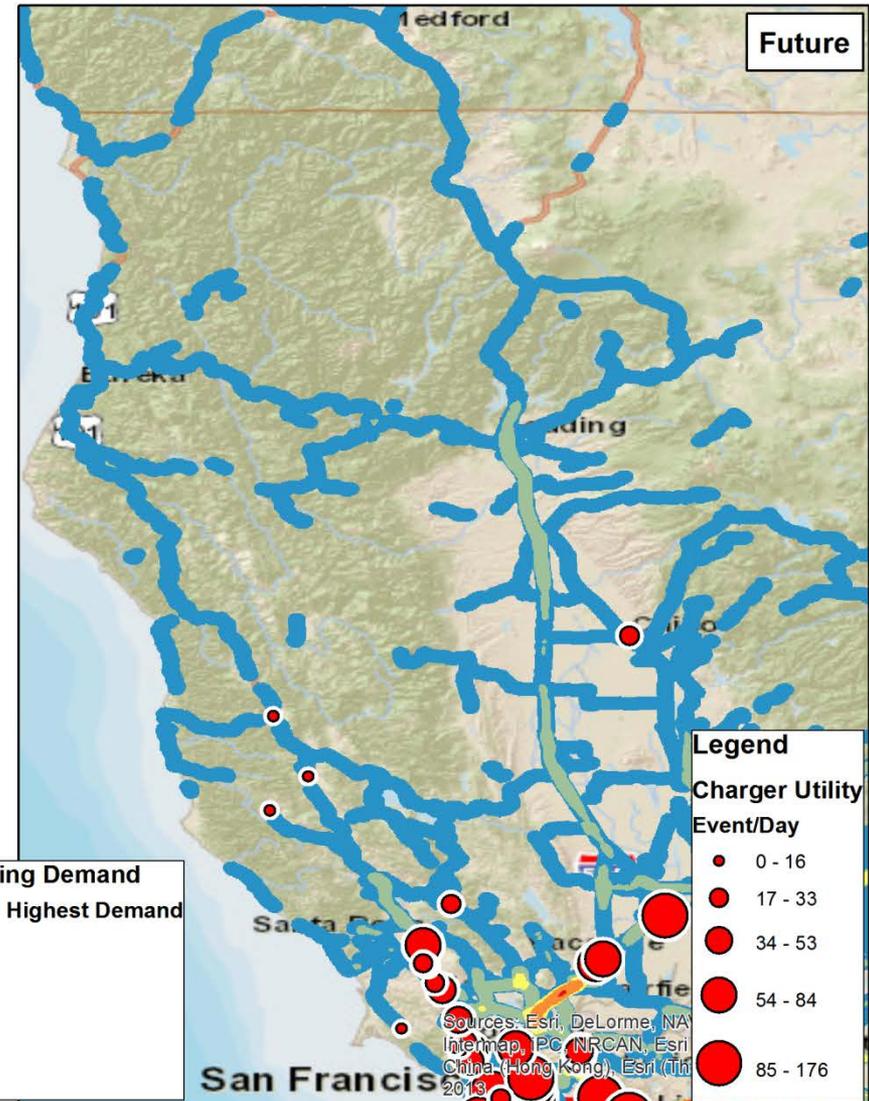
Bay Area



Southern California



Northern California





**LEAF charging at Skyhomish, WA WCEH
DC Fast Charging Station**

Discussion of Lesson Learned on the West Coast Electric Highway (WCEH) in Oregon and Washington

1. Business Model – Most Important Consideration
 - Central Ownership/Operation/Network (NRG, AV)
 - Venue Ownership
2. Location – 25 mile metric
 - Site identification
 - Site assessment – long list of constraints, utility service important
3. Leasing Agreements – Hardest, Longest Lead Time Task
 - Legal documents
 - Environmental Investigations
 - Reimbursements

WCEH STATs

1. 55 Stations

- Oregon – 43
- Washington – 12

2. 9 Types of Venues

- City properties (convention centers, visitor centers, parks, parking lots, etc.) – 10
- Grocery stores – 8 (the 9th, a station at Brooking, OR, is in planning)
- Restaurants – 8
- Miscellaneous (country stores, office buildings, transit centers, etc.) – 8
- Hotels and motels – 7
- Gasoline stations – 6
- Casinos – 5
- Shopping malls – 3
- Rest stops – 2 (Level 2 only)

3. 22 Utilities

- Oregon – 16
- Washington – 6



Partnering on Infrastructure Development

Discussion Format



The discussion should focus on areas that the speaker feels are important for the Commission to consider in developing the new solicitation.

1. Brief Panelist Introductions (30 sec/each)
 - Name, Title, Affiliation
 - Current and planned activities of your organization with DCFC Infrastructure
2. Panel Experts Discussion (30 mins)
 - Seven key questions presented to the group
 - Lead-in speakers initially address each question
 - After each of the seven questions are addressed by the lead-in speaker, the discussion will be opened up to the full panel.
3. Public Discussion on any question or other areas (15 min)

DCFC Questions



#	Key Question	Lead-In Speaker(s)
1	What defines a corridor (in terms of the solicitation)?	Mike Nicholas, UC Davis
2	Where are the gaps on highway corridors?	Charlie Botsford, Aerovironment
3	What do current and prospective PEV drivers need?	Anne Smart, ChargePoint
		Brett Hauser, GreenLots
4	What are the barriers to optimal siting and potential solutions?	Terry O'Day, NRG eVGo
5	What are some technology advancements, innovative developments and reliability issues	Stephen Kelley, Green Charge Networks
		Lloyd Tran, U.S. Green Vehicle Council
6	How can the State best promote filling the geographical gaps?	Bill Boyce, SMUD
7	What is the willingness of potential partners to share in the deployment?	David Peterson, Nissan

Public Comment

