

## DOCKETED

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<b>Project Title:</b>	SB 350 Transportation Electrification (Publicly Owned Utilities)
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<b>Document Title:</b>	SCAG Plug-in Electric Vehicle Readiness Program Presentation
<b>Description:</b>	Powerpoint presentation from Marco Anderson - Revised
<b>Filer:</b>	Tami Haas
<b>Organization:</b>	SCAG/ Marco Anderson
<b>Submitter Role:</b>	Other Interested Person
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# SCAG Plug-in Electric Vehicle (PEV) Readiness Program

## CA Energy Commission

October 5, 2016

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# SCAG & SCAG Clean Cities Coalition

The SCAG (Southern California) Clean Cities Coalition includes parts of Los Angeles County, Orange, San Bernardino, Ventura and Imperial

The Coalition was originally formed (designated) in 1996

Coalition Structure:

- Clean Cities is SCAG program component (since 2010)
- The Coalition reports to SCAG's Energy & Environment Policy Committee & RTTAC
- 200 + stakeholders/ members



- Coalition funded through US Dept of Energy (DOE) program contract and available California Energy Commission (CEC) Grant Funding

# Plug-in Electric Vehicle (PEV) Plan 2010-2012

## SCAG Grant Funding

- U.S. Department of Energy
- California Energy Commission

## So Cal PEV Coordinating Council

- SCE and public utilities
- Local Governments & Partners
- Private Sector Interests

## Plug-in Electric Readiness Plan & Atlas

- Local policy guidance for EV Ecosystem
- Prime location for charging installation site



Prius PEV



SMART EV



AeroVironment Charger

# Plug-in Electric Vehicle (PEV) Plan Regional Recommendations

## Local Agency Focus

- Workplace Charging
  - Employer Outreach
  - Pre-Connection Commitments
- Multi-Family Buildings
  - Demonstration Projects
- Retail Fast Charging
  - Parking Issues



# 2016 RTP/SCS: PHEV & Charging Infrastructure

Battery Electric



**Tesla S**



**Nissan Leaf**

Plug-in Hybrid  
(battery + gas)



**Chevy Volt– 50 mi batt.**



**Ford Fusion Energi – 21 mi batt.**



# 2016 RTP/SCS: PHEV & Charging Infrastructure

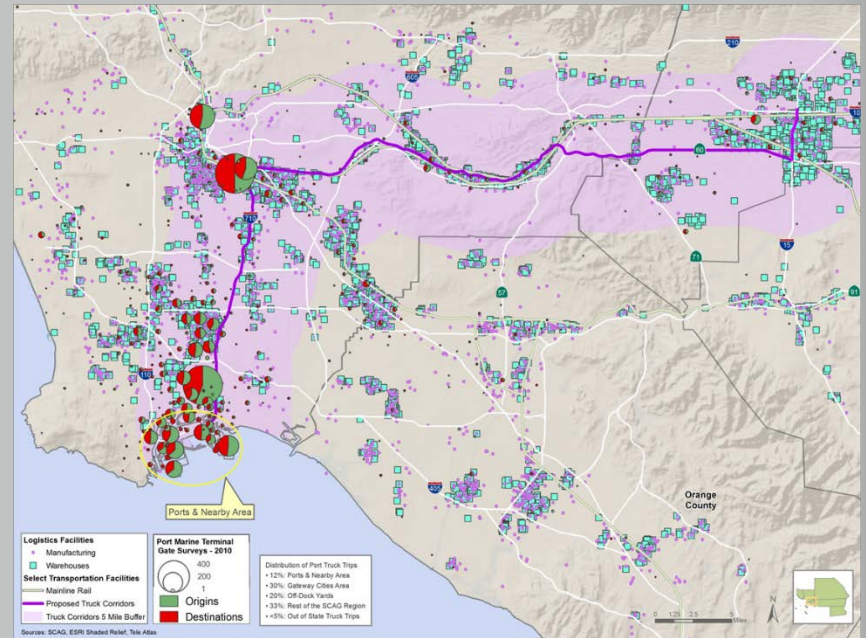
## Goals

- Incentivize Level 1 & 2 Charging stations
- 10% Improvement PHEV Electrification
- Increase access to charging in Urban & Compact Areas

EV Charging Station Program	
Level 1 Rebates	287,829
Level 2 Rebates	95,943
Total Rebates	383,772
<b>Total Program Cost</b>	<b>\$ 274 M</b>



# 2016 RTP/SCS: East West Freight Corridor





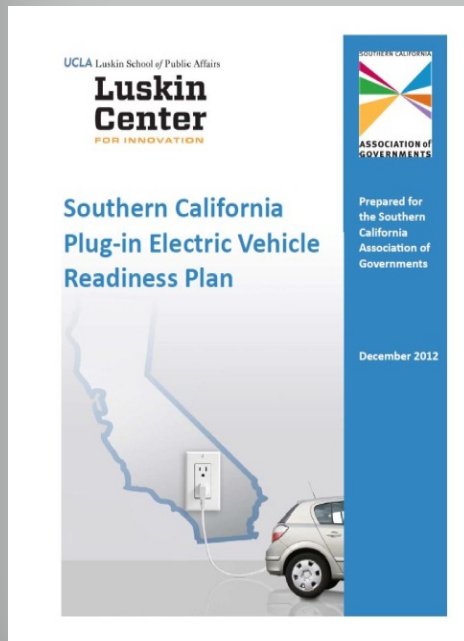
# 2016 RTP/SCS: Electric Transit Vehicle



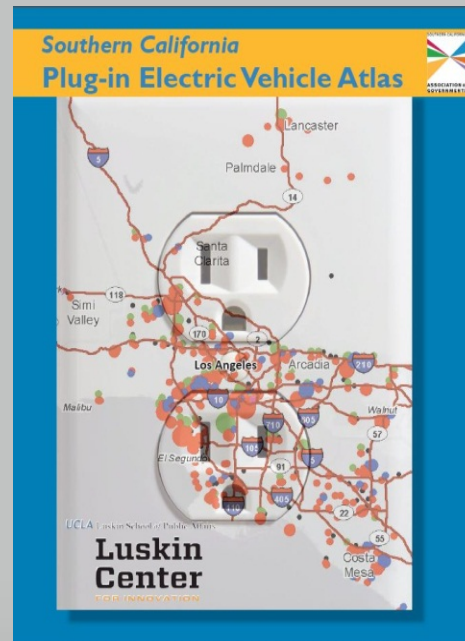
# Plug-in Electric Vehicle (PEV) Plan Resources

SCAG Funded Products and Resources available:

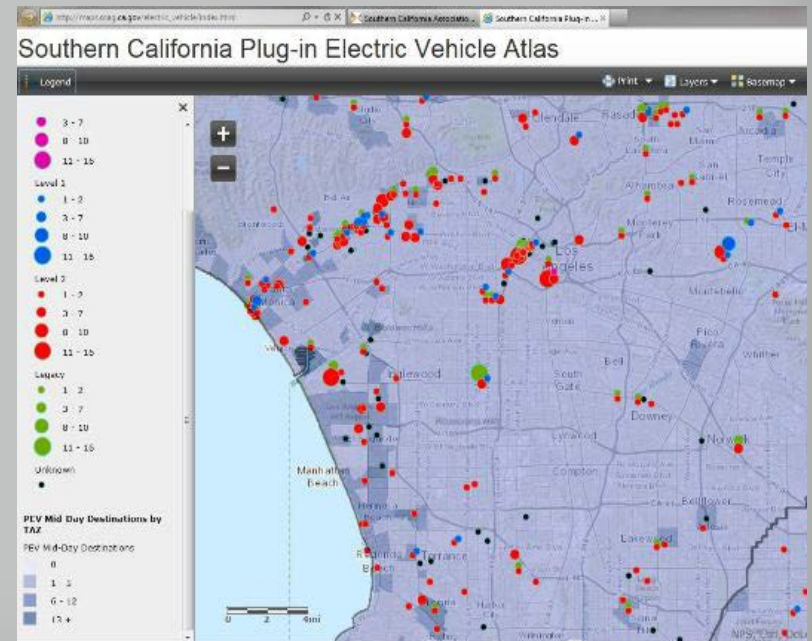
[www.scag.ca.gov/programs/Pages/RegionalElectric.aspx](http://www.scag.ca.gov/programs/Pages/RegionalElectric.aspx)



SCAG PEV Readiness Plan

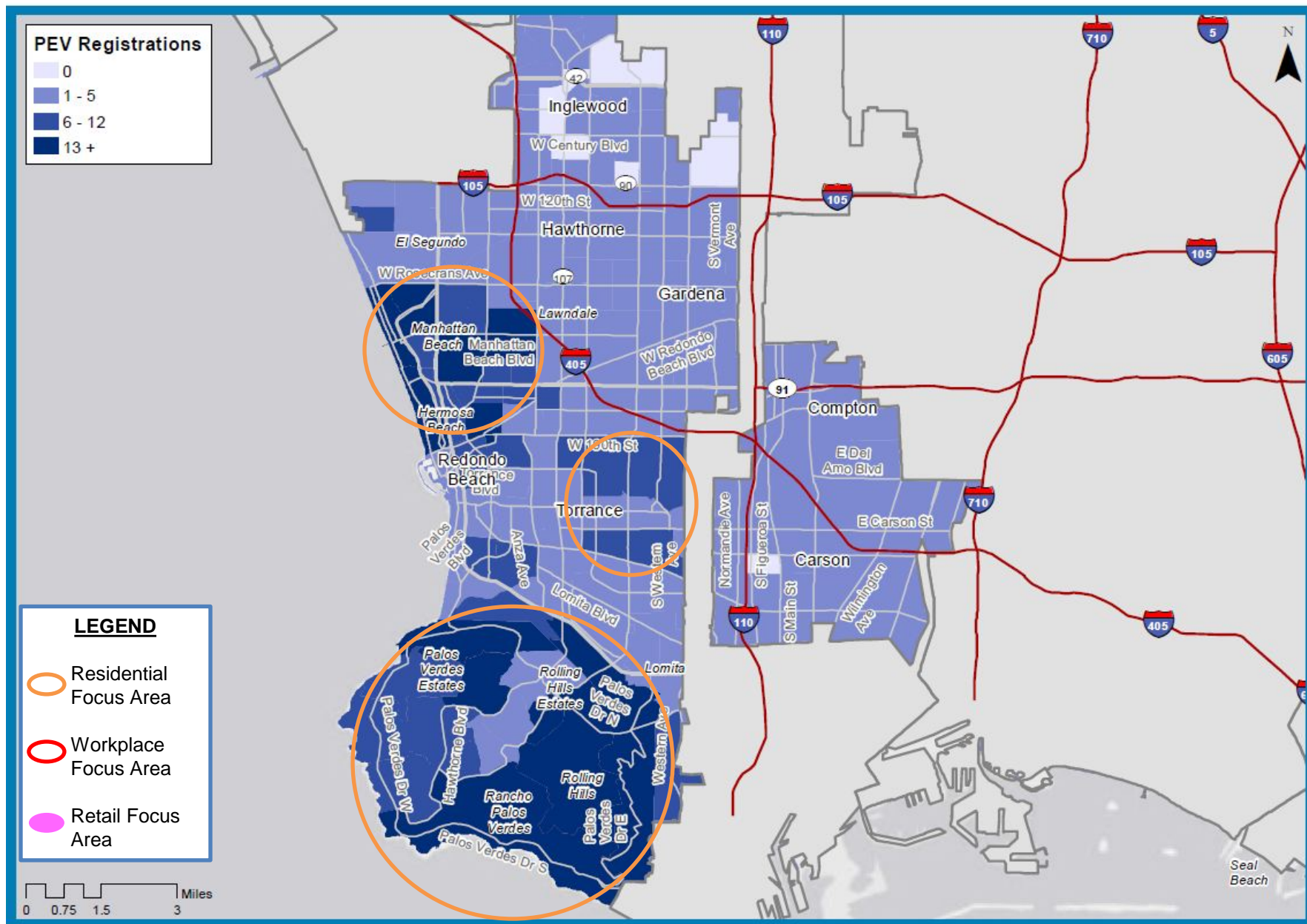


SCAG PEV Readiness Atlas



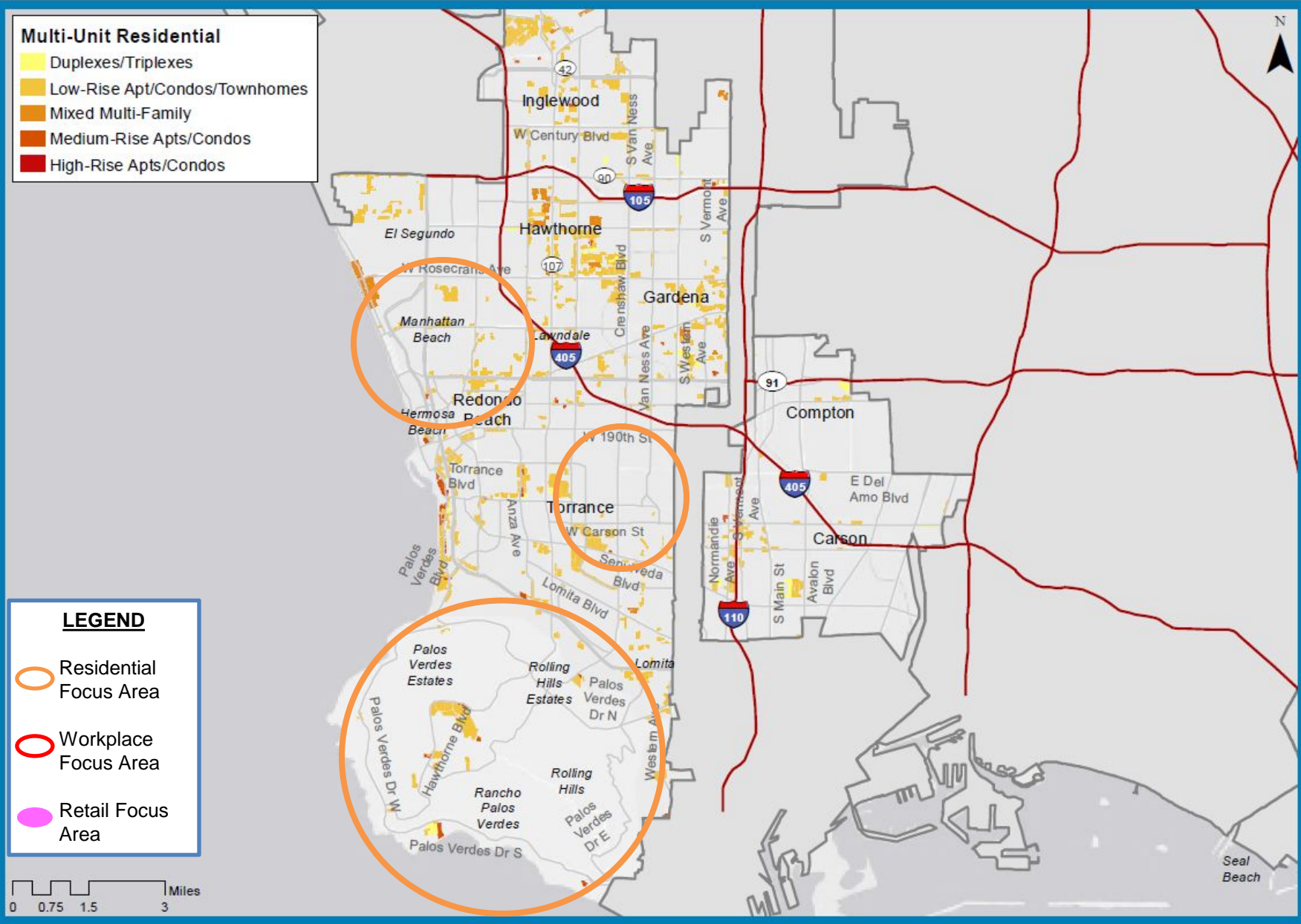
SCAG Interactive PEV Readiness Atlas

# Plug-in Electric Vehicle Registrations

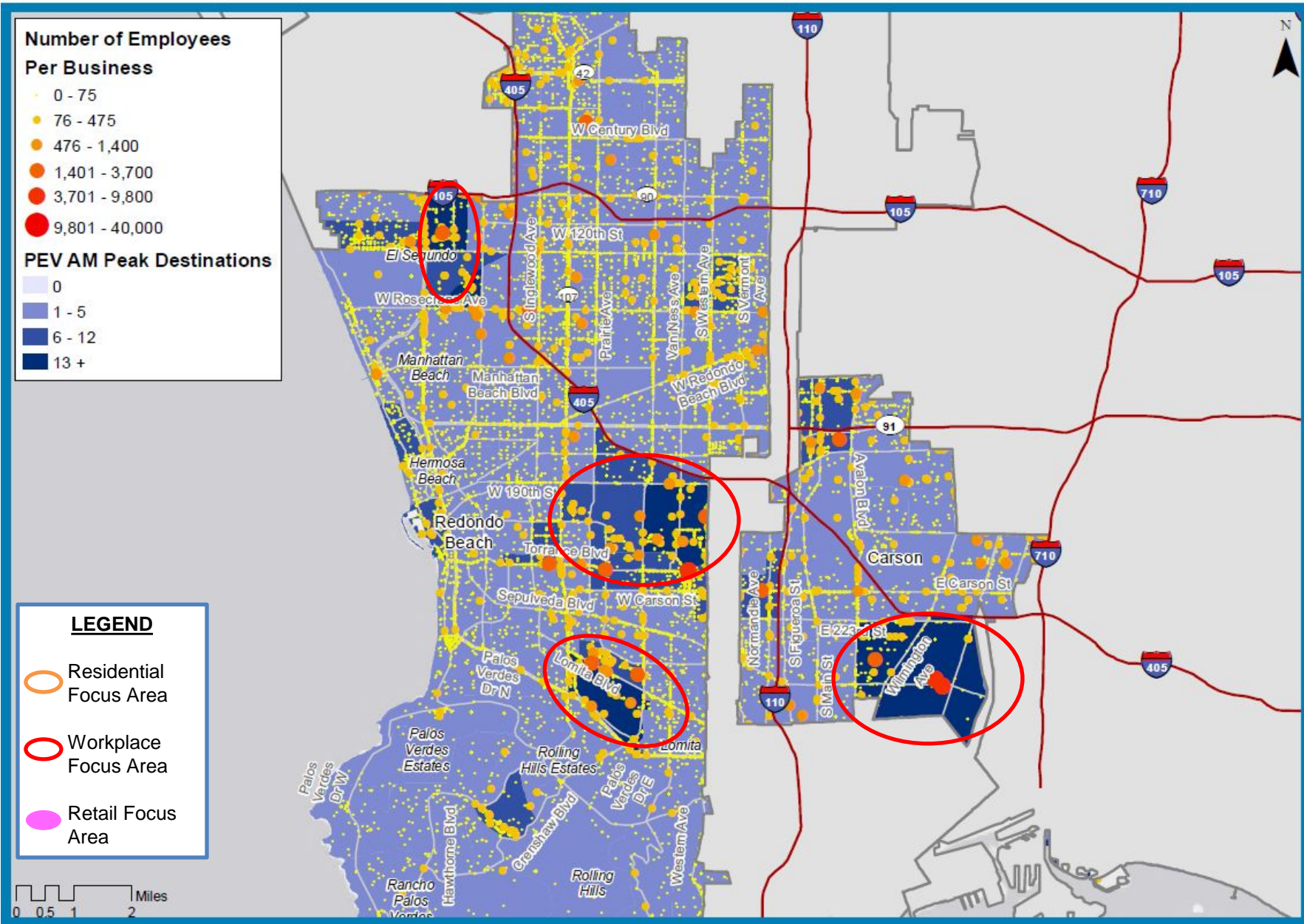




# Multi-Unit Residential

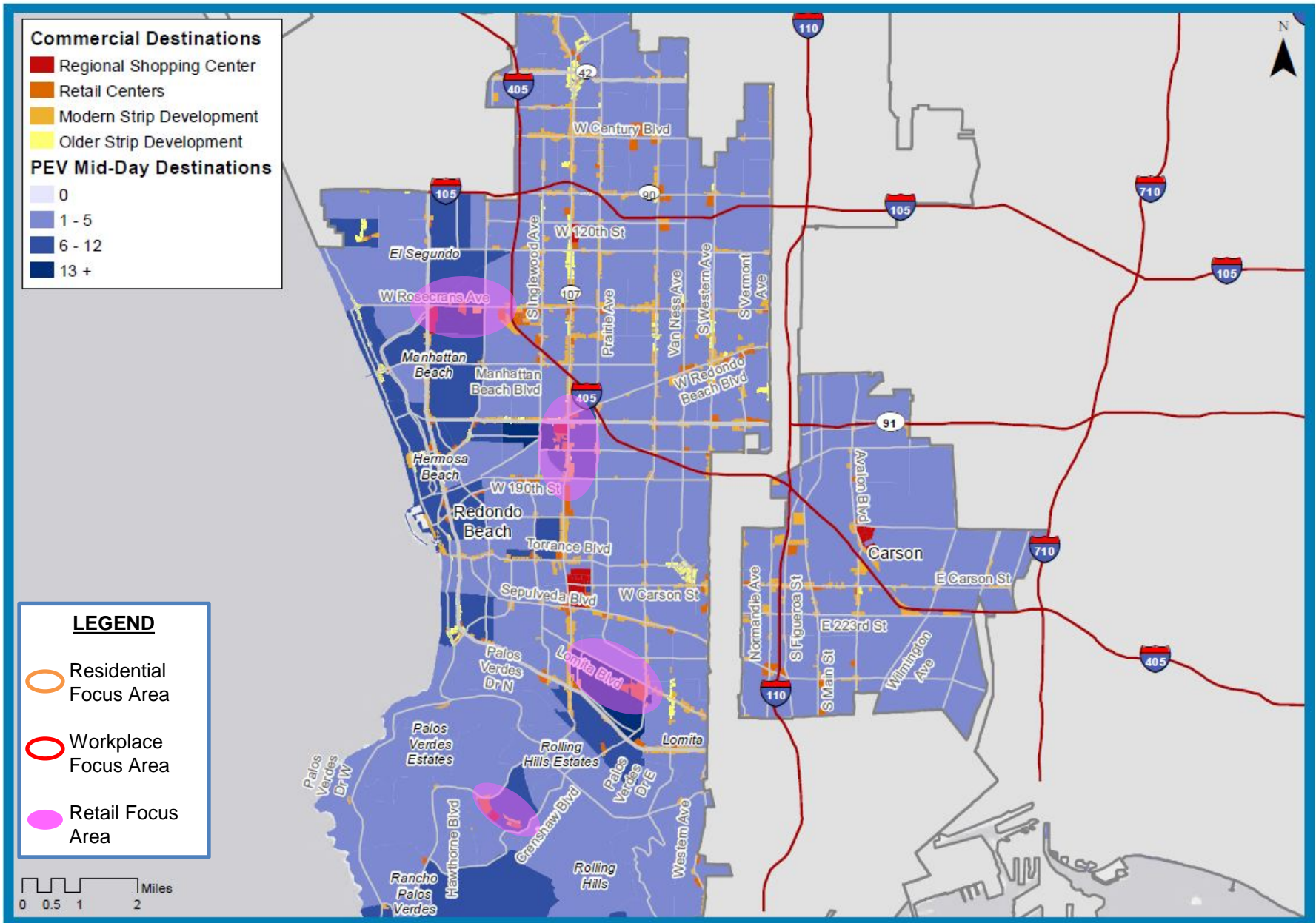


## PEV Morning Peak Destinations and Workplaces

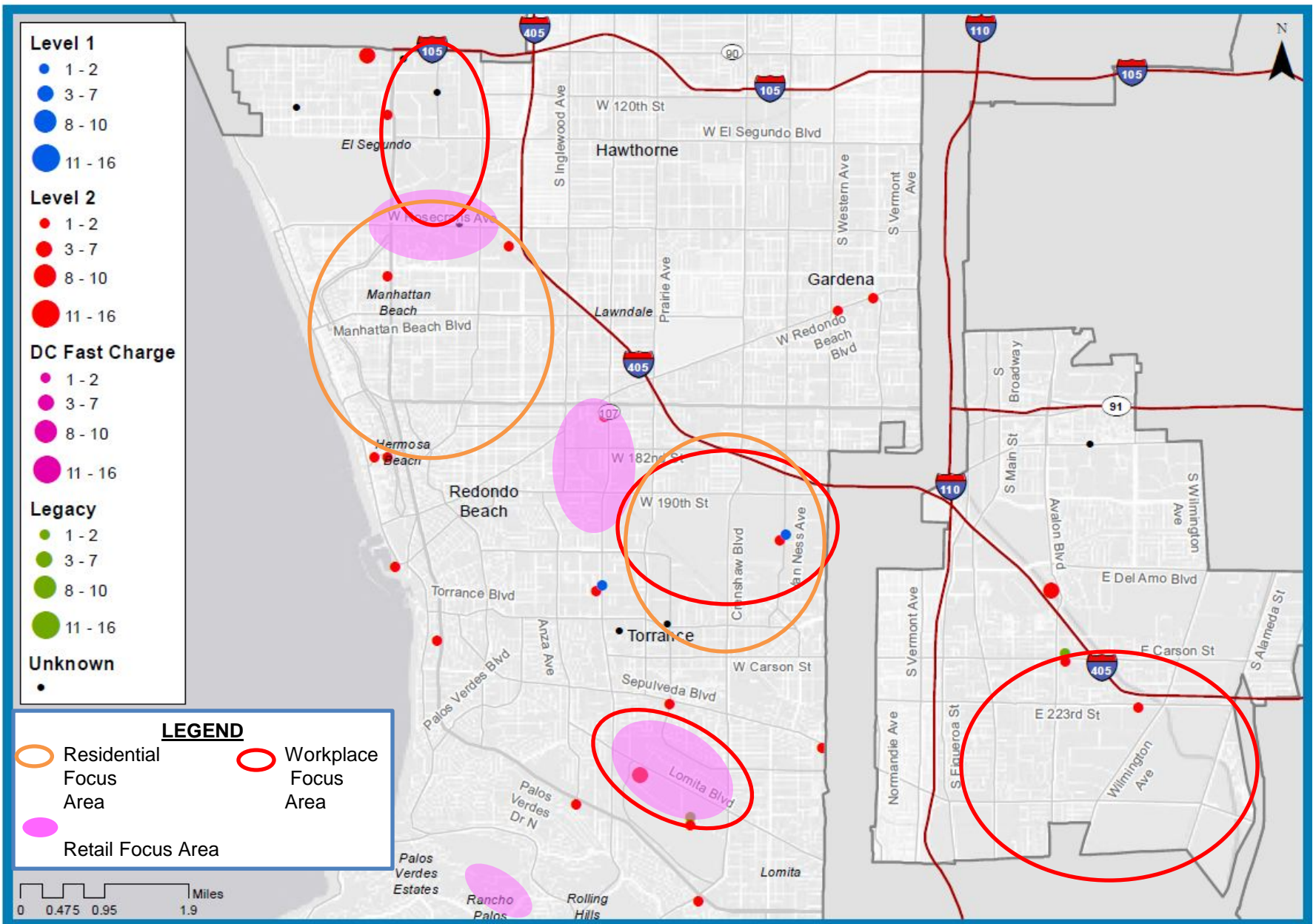




# PEV Mid-Day Destinations and Commercial (Retail) Locations



# Publicly-Accessible Charging Stations (Summer/Fall 2012)

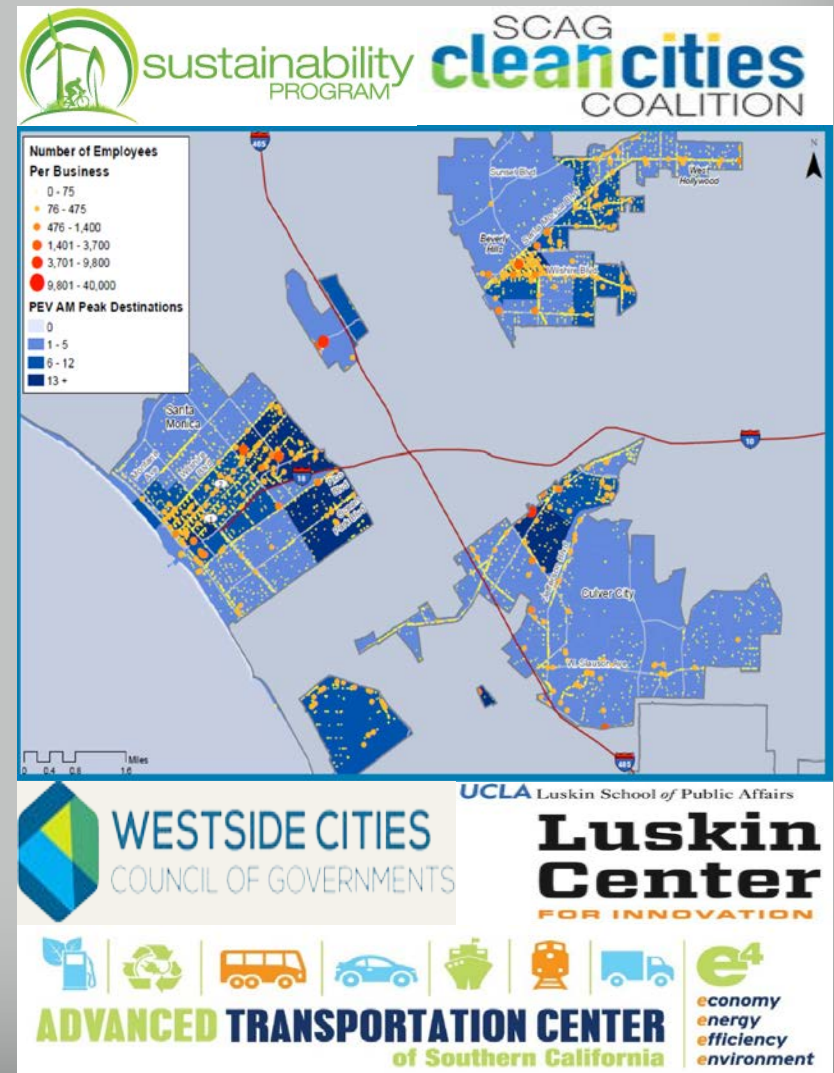




# Multi-family Housing

## CEC PON 14-607 Implementing Readiness Plan in Multi-Family Housing

- Update 2012 PEV Atlas
- Conduct analysis and outreach in Westside Cities Council of Government (WCCOG) area:
  - Santa Monica, Culver City, Beverly Hills, West Hollywood, and West LA
  - 68% Multi-Family
  - Over 200,000 units



# Stakeholder Interviews

- 5000 parking spaces, 100% occupied
- Initially 15 stations, now 25 Level 2 Coulomb stations
- potentially adding 10 more
- \$20-30K panel upgrade





# Stakeholder Interviews

- 4 out of 5 properties have stations
- 15 Blink! Stations
- 1 bldg. has public access
- Response to tenant requests





# Stakeholder Interviews

- 164 room Boutique Hotel
- LEED Gold
- Sustainability Focused
- 1 Level 2 station open to public
- They approached NRG



# For more information:

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