

DOCKETED

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SCAG Plug-in Electric Vehicle (PEV) Readiness Program

CA Energy Commission

October 4, 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
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- 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

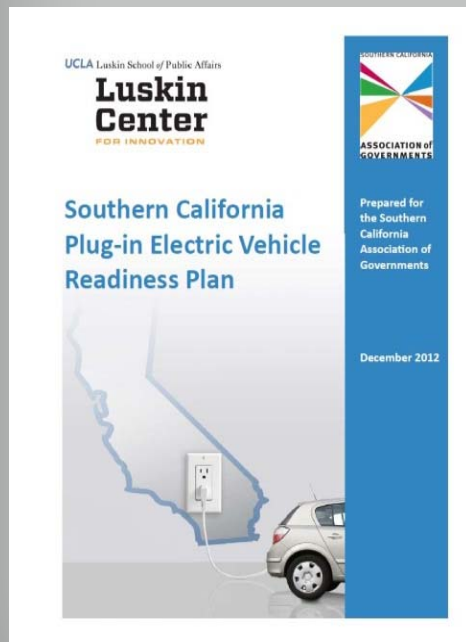
EV Charging Station Program	
Level 1 Rebates	287,829
Level 2 Rebates	95,943
Total Rebates	383,772
Total Program Cost	\$ 274 M



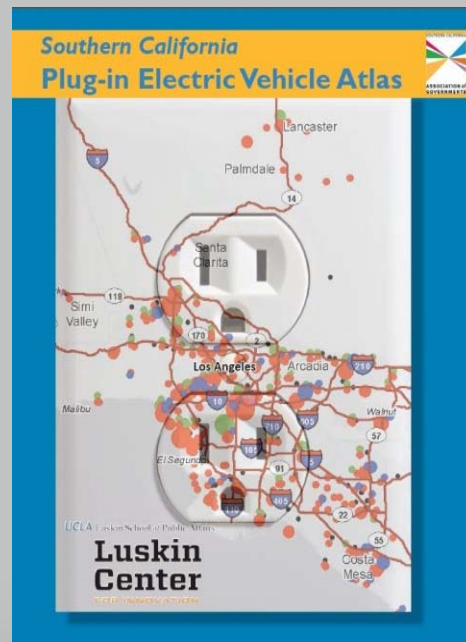
Plug-in Electric Vehicle (PEV) Plan Resources

SCAG Funded Products and Resources available:

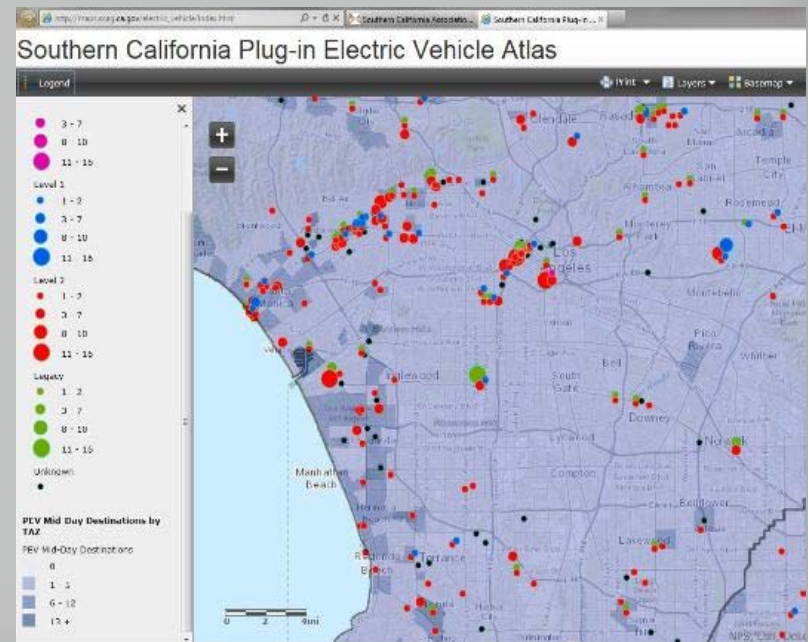
www.scag.ca.gov/programs/Pages/RegionalElectric.aspx



SCAG PEV Readiness Plan

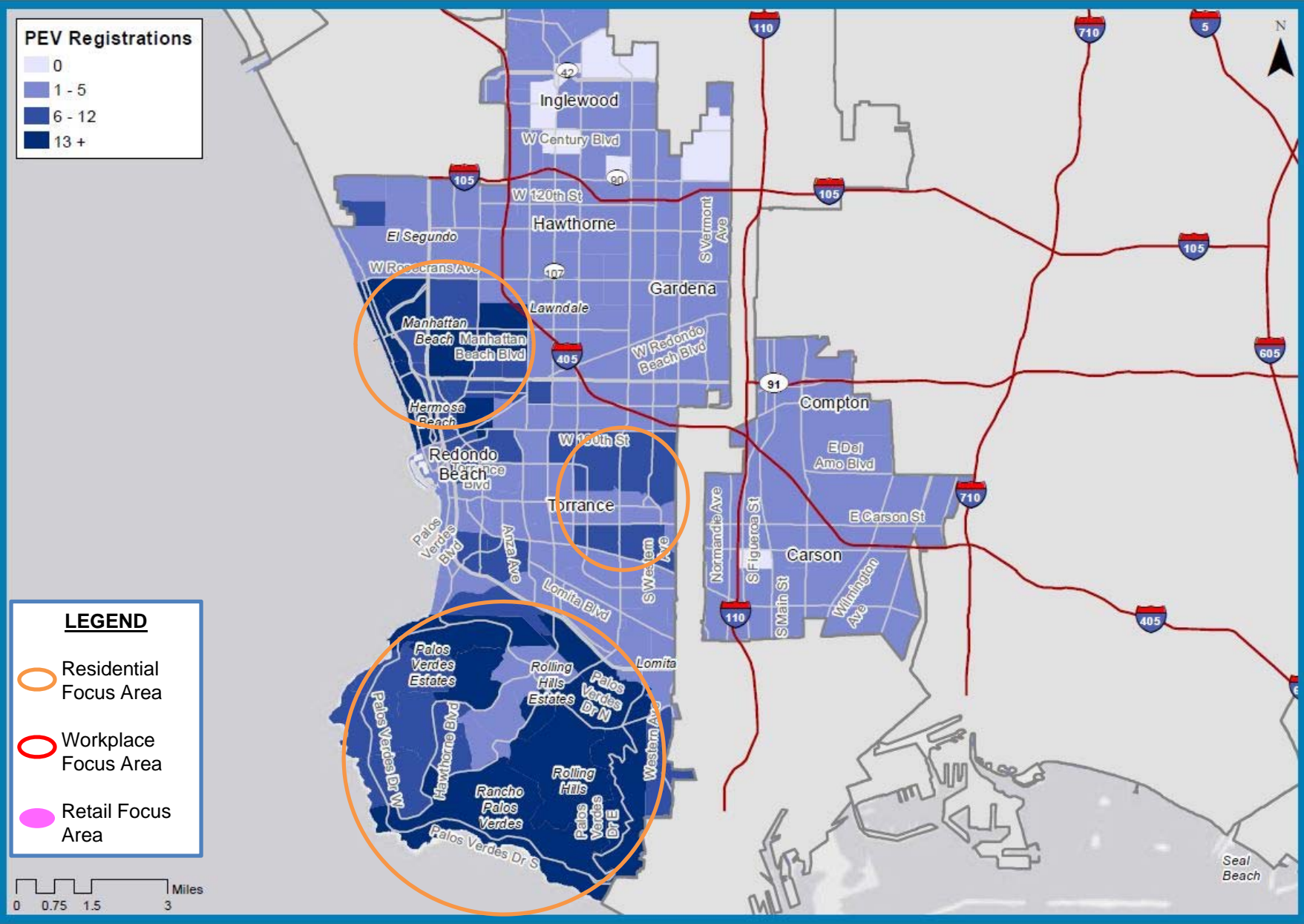


SCAG PEV Readiness Atlas

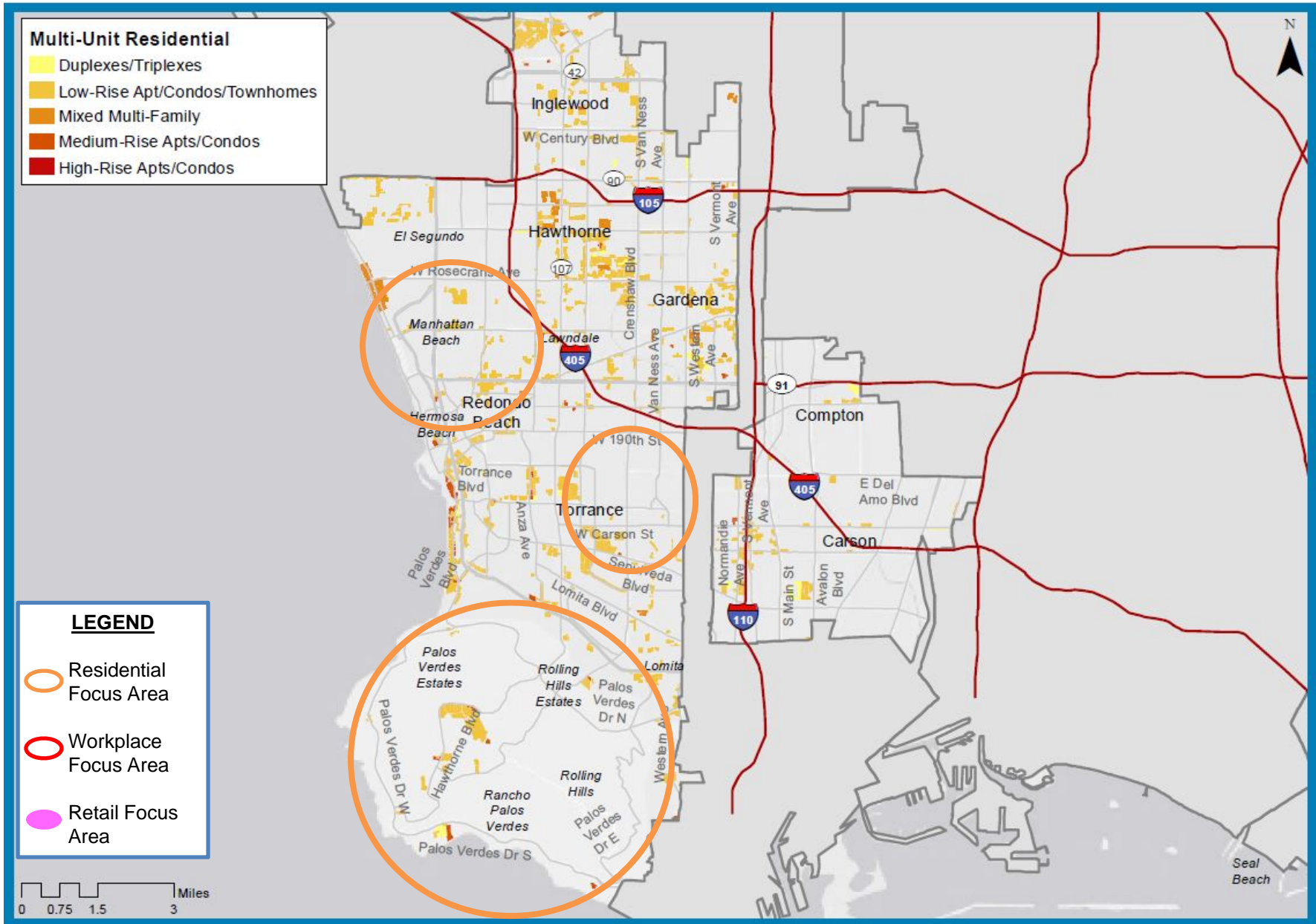


SCAG Interactive PEV Readiness Atlas

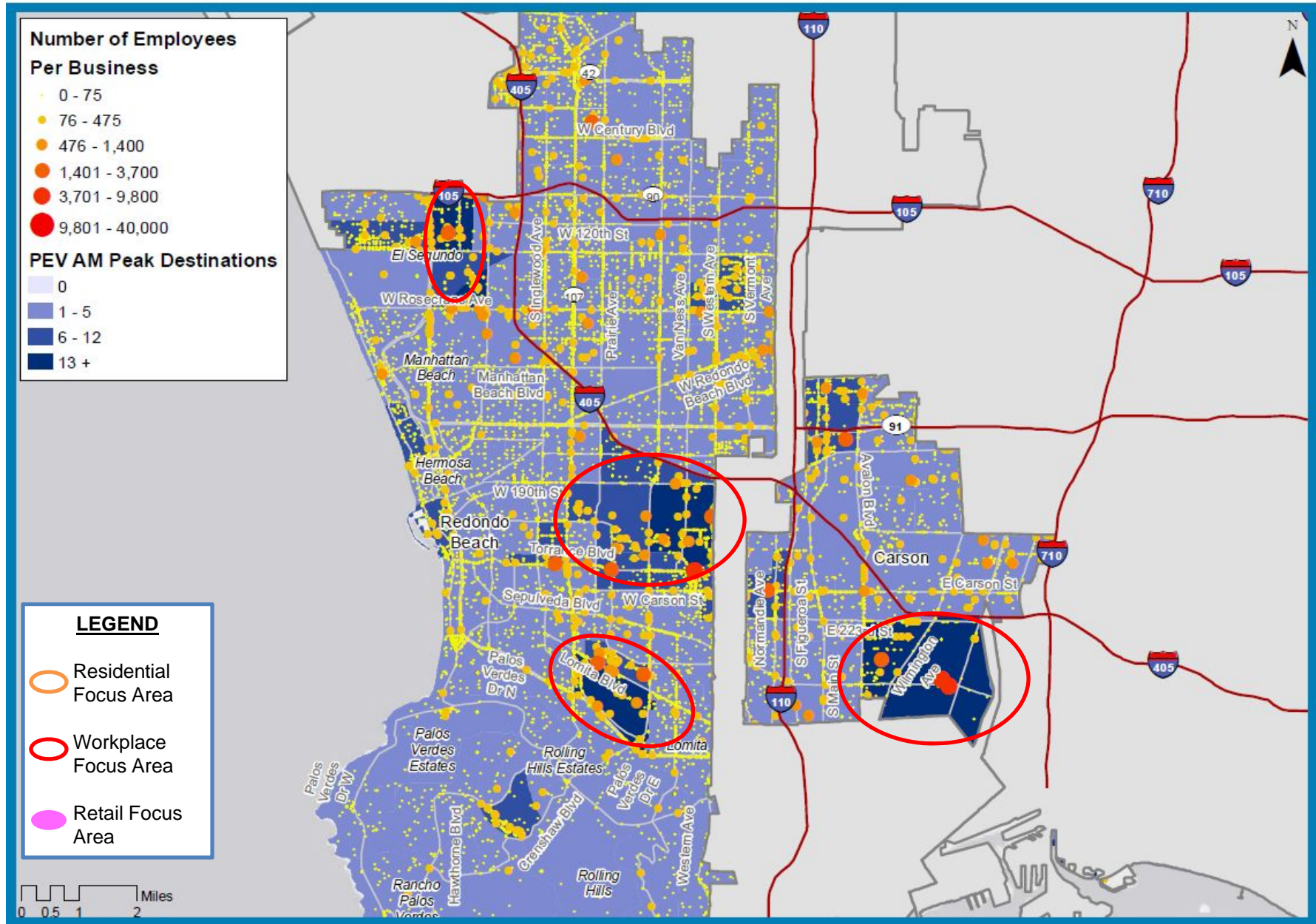
Plug-in Electric Vehicle Registrations



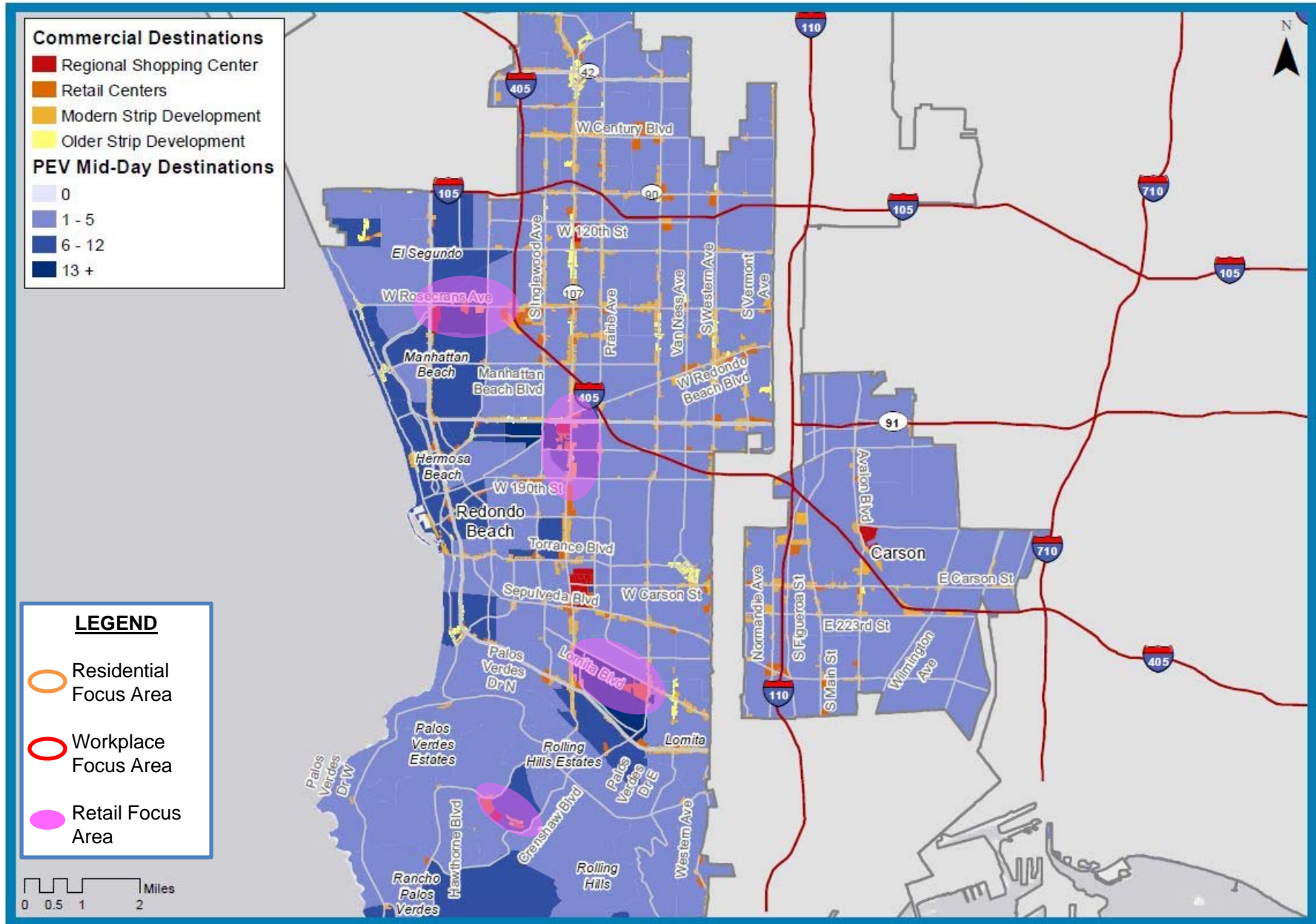
Multi-Unit Residential



PEV Morning Peak Destinations and Workplaces



PEV Mid-Day Destinations and Commercial (Retail) Locations



Level 1

- 1 - 2
- 3 - 7
- 8 - 10
- 11 - 16

Level 2

- 1 - 2
- 3 - 7
- 8 - 10
- 11 - 16

DC Fast Charge

- 1 - 2
- 3 - 7
- 8 - 10
- 11 - 16

Legacy

- 1 - 2
- 3 - 7
- 8 - 10
- 11 - 16

Unknown

LEGEND

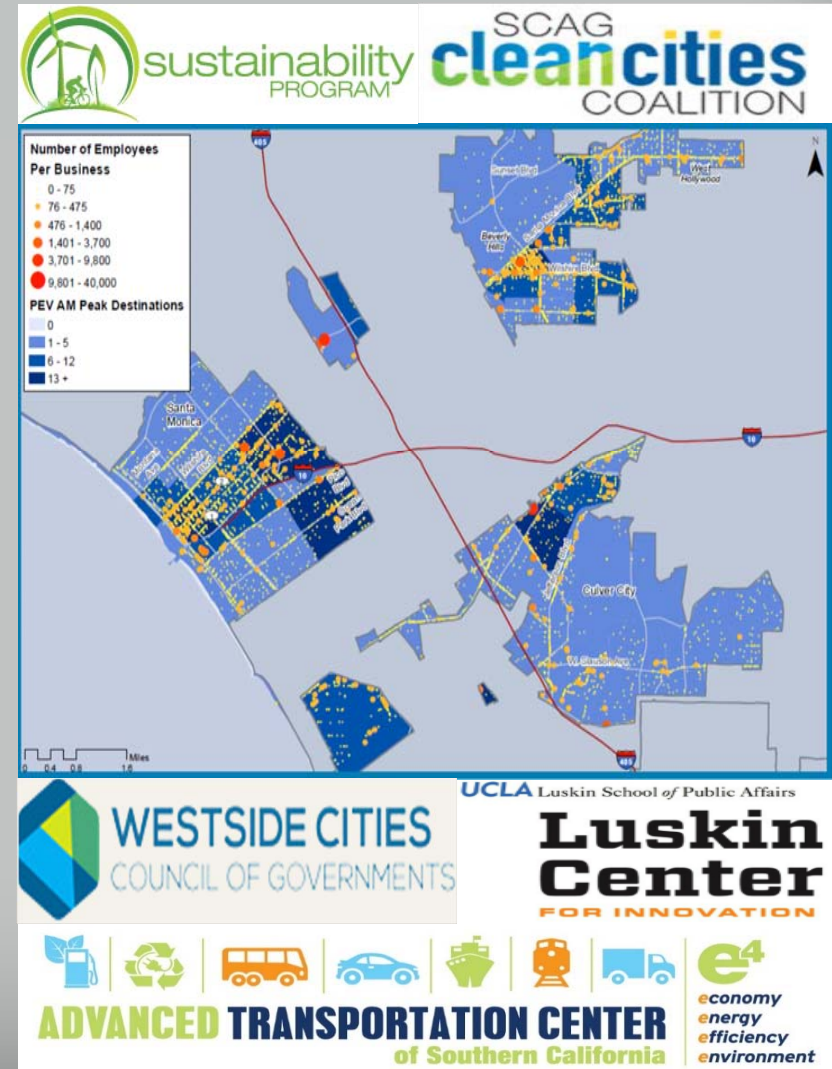
- Residential Focus Area
- Workplace Focus Area
- Retail Focus Area

0 0.475 0.95 1.9 Miles

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



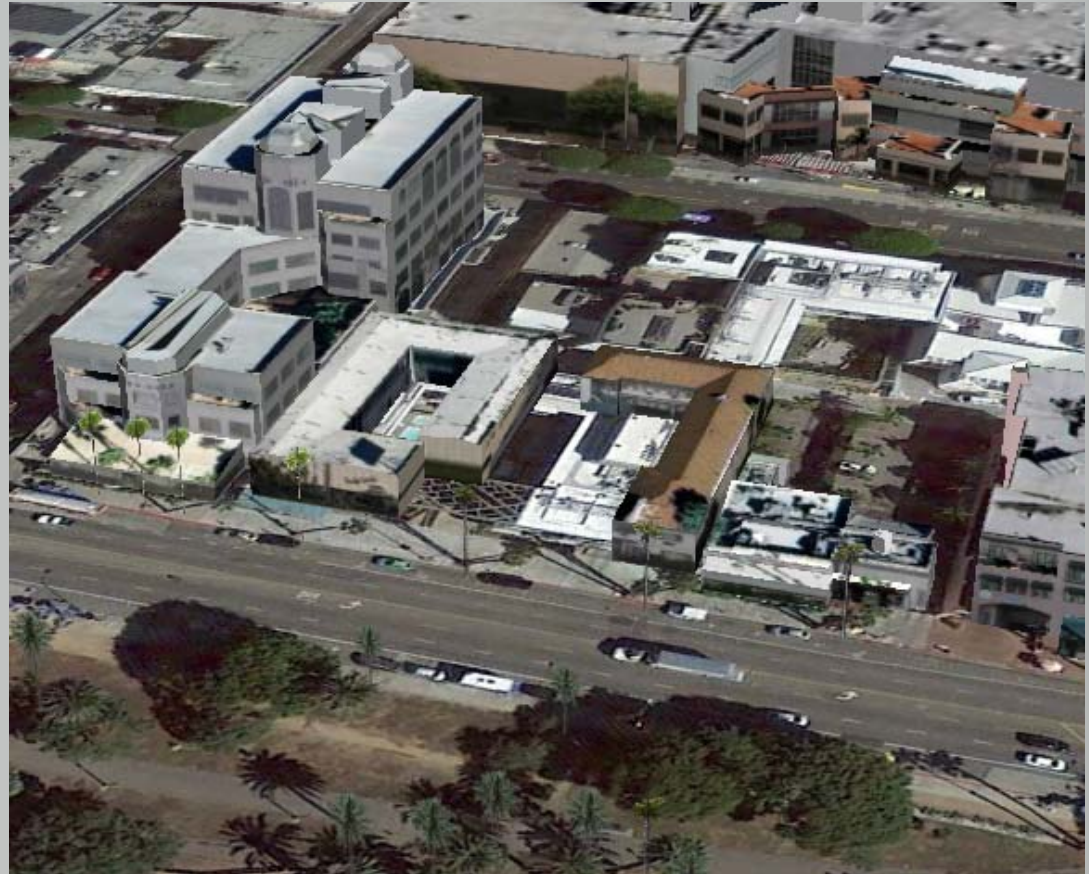
Stakeholder Interviews

- 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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