DOCKETED

Docket Number:	15-MISC-04
Project Title:	Fuels and Transportation Merit Review
TN #:	211161
Document Title:	Presentation - Burbank Water and Power Electric Vehicle Charging Program
Description:	N/A
Filer:	Tami Haas
Organization:	City of Burbank Water and Power
Submitter Role:	Public Agency
Submission Date:	4/20/2016 11:33:13 AM
Docketed Date:	4/20/2016

Burbank Water and Power Electric Vehicle Charging Program

A Presentation to the California Energy Commission – Merit Review
April 25, 2016

Burbank

- 105,000 residents in 17 square miles
- Media Capital of the world
- Daily influx of studio employees

EV Charging Program Philosophy

- Customer Service
  - Electric / Water / Fiber
  - EV charging? Yes!
- Cost-Effectiveness
  - Grants
  - Service Revenue
- Grid Impacts
- Environmental and Policy Impacts

EV Charging Program

- Residential
  - Rebates up to $500 for Level 2 equipment
  - Time of Use pricing – 8 cents per kWh after 11p and on weekends
- Commercial
  - Rebates up to $1,000 for Level 2 equipment
  - Time of Use pricing already in effect
- Public
  - 28 chargers at 14 locations throughout Burbank
  - Charging rates of 17 cents/kWh nearly all hours, increasing to 31 cents/kWh during summer weekday peak hours – 4pm to 7pm

EV Charge – 2011 pilot

- 11 Level 2 chargers located mostly in downtown Burbank
  - DOE grant funded
  - Experimental pricing

Successes and Findings

- The EV Market increased:
  - Usage of the chargers doubled every year
  - Charging revenue became sustainable
- Customers wanted:
  - More chargers
    - Throughout the city and not just downtown
    - Accessible to Multi Unit Dwellings
  - Convenience – just like at a gas station
  - Equitable pricing – per kWh
  - More enforcement
    - Primary – remove ICE cars
    - Secondary – more EV turnover

Charge 'N Go – Summer 2015

- FIRST Curbside project in the country!
- 8 dual Level 2 chargers at 8 sites throughout the city
- Located curbside on public right of way
- Funded through a CEC grant
  - $230,000 total project cost (about $30k per site)
  - $165,000 paid by CEC
  - $65,000 BWP net cost
    - Estimated payback of 5-10 years
- Accepts payment through credit card or smartphone app

Charge 'N Go – Details

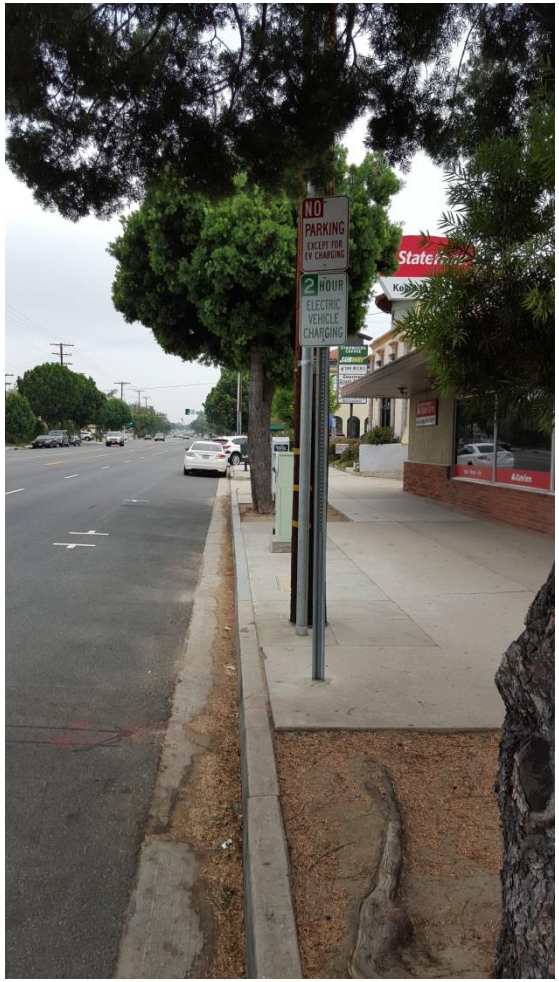
- Equipment – dual charger w/ retractable cord
- Internal outreach with City Departments, including Public Works and Police/Traffic
- External outreach to businesses whose patrons are losing their "public" parking spaces
- Marketing through:
  - Local and regional media
  - Driver resources such as Plugshare
- Data collection and analysis:
  - Greenlots dashboard
  - UCLA Luskin Center

EV Charge 'N Go

- 340 N Buena Vista – near Library and Park

EV Charge 'N Go

- 2116 N Glenoaks Blvd – near Starbucks



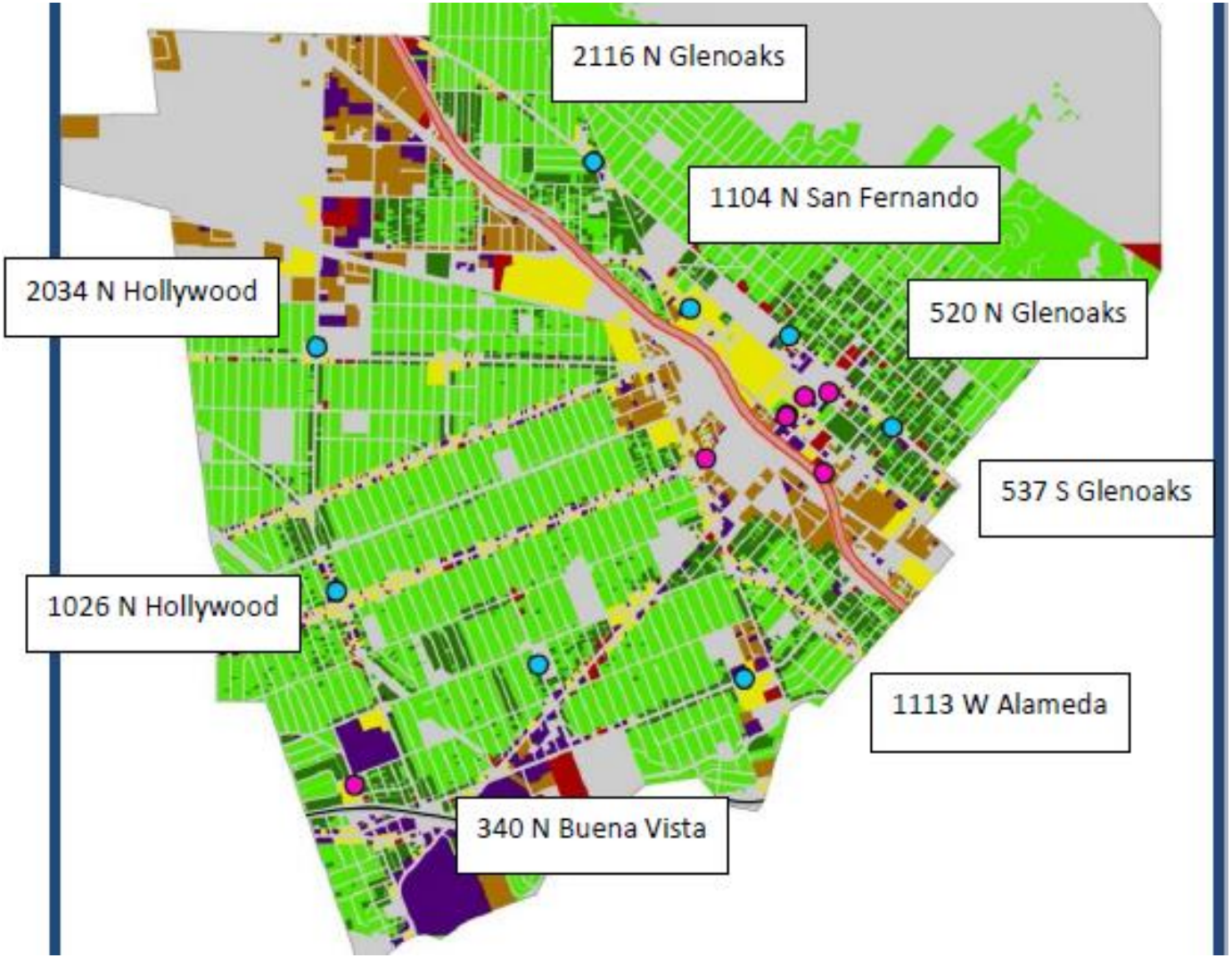
EV Charge 'N Go

- 1104 N San Fernando Blvd – near retail

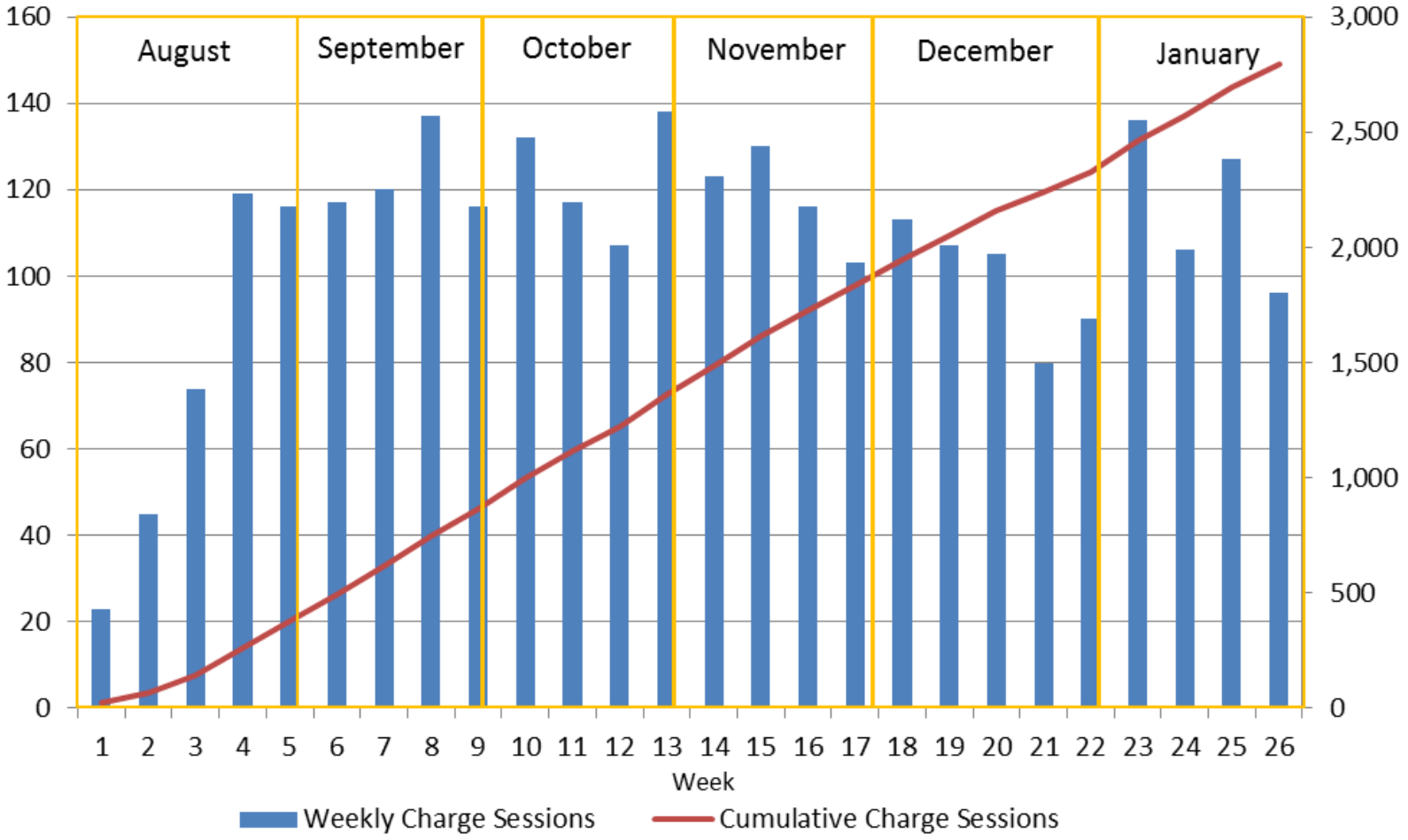
EV Charge 'N Go

- 1113 W Alameda Ave – near Starbucks, retail

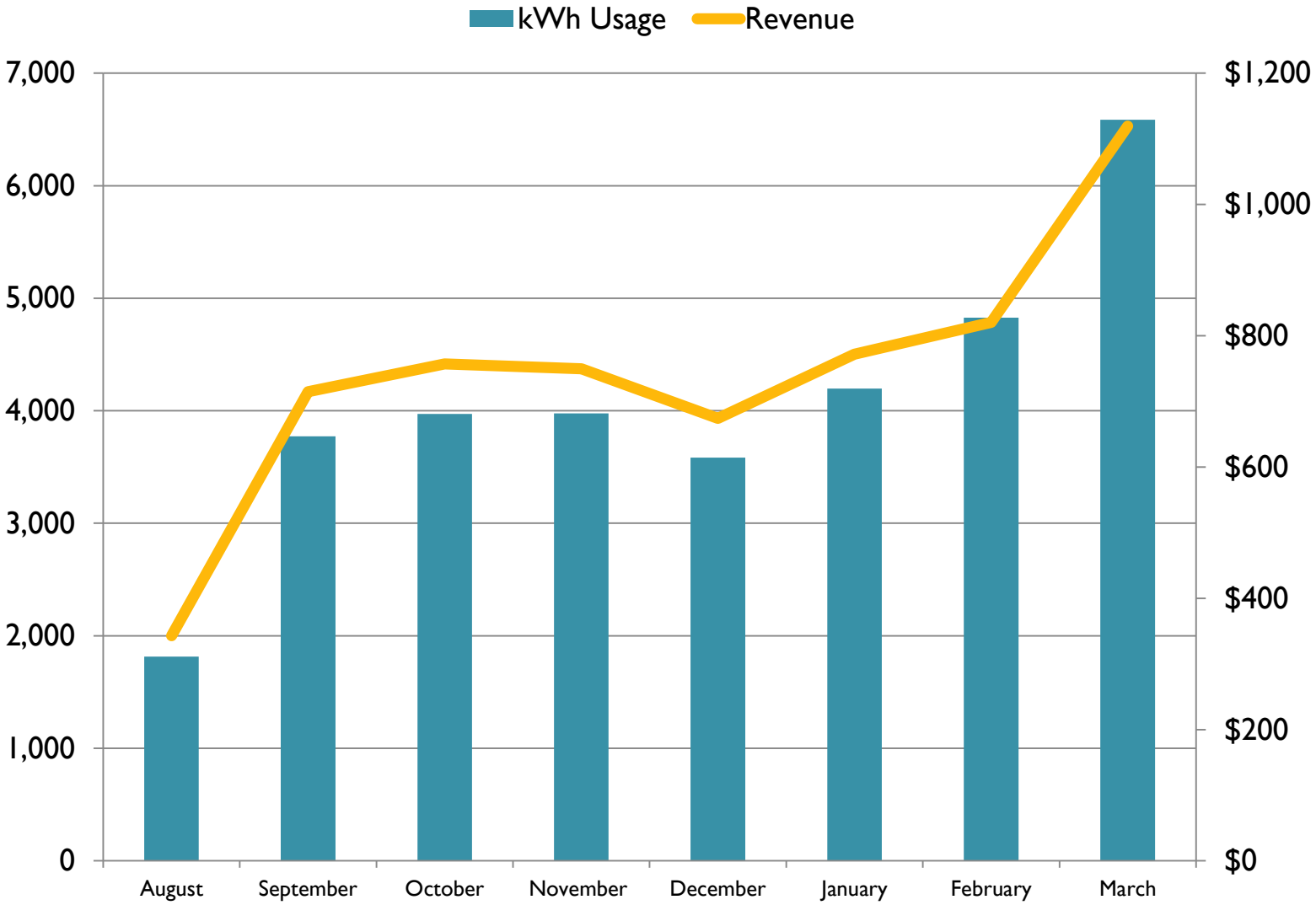
Charger Sites



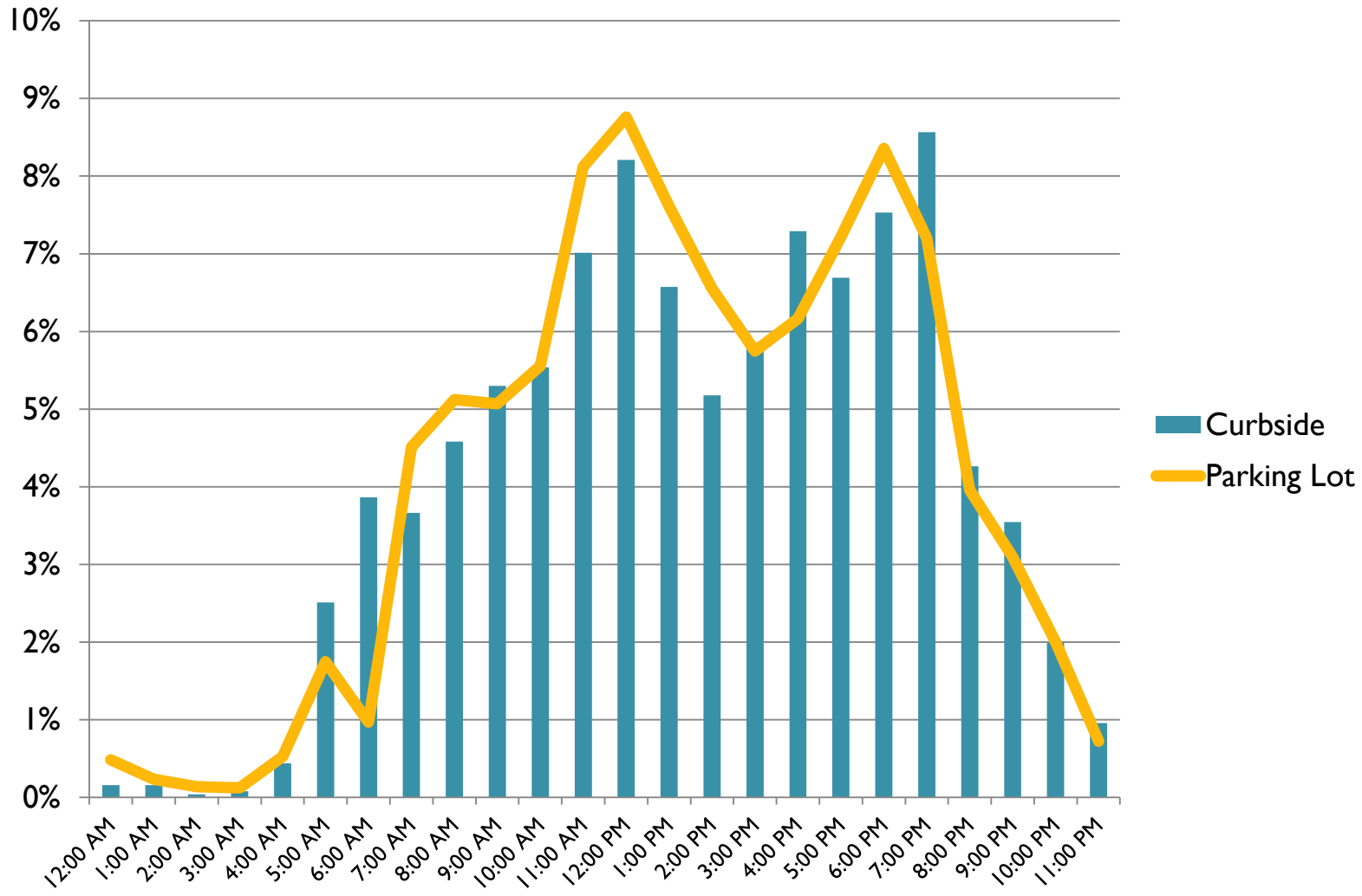
Cumulative Curbside Charge Sessions over Time



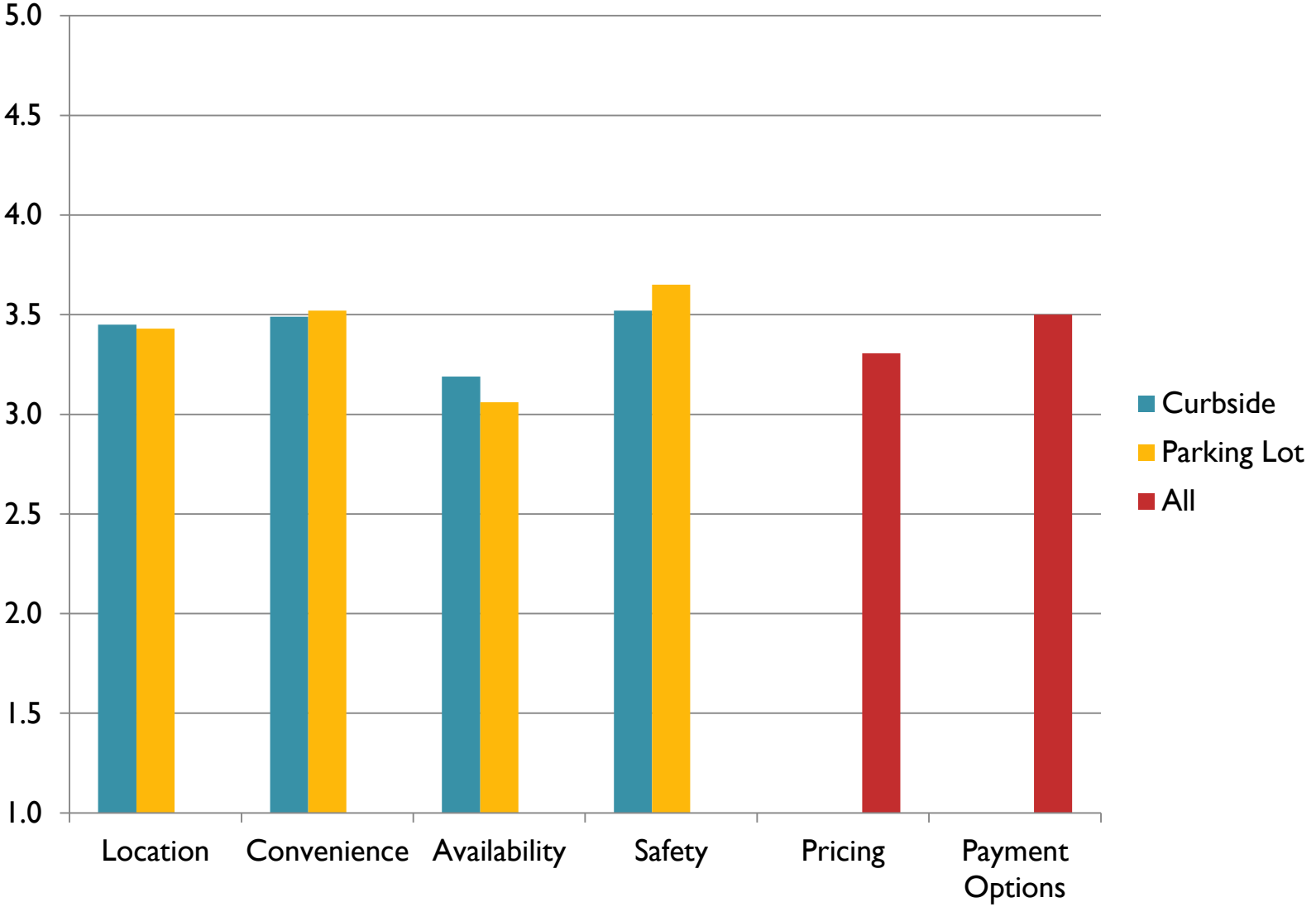
Usage and Revenue over Time



Share of Charge Sessions by Time of Day by Charge Station Type



Customer Satisfaction



Findings

- Daily monitoring of charger status and usage
  - Comparison of curbside versus parking lot / legacy chargers
  - Customer satisfaction
    - Availability – EV residence time, ICEing, etc.
    - Repairs and maintenance
    - Payment options
- Strategic expansion of charger network
- Increase accessibility for Multi Unit Dwelling residents

Acknowledgements

- California Energy Commission
- Greenlots
- Dynalectric
- UCLA Luskin Center for Innovation
- Sheri Lasick, Sylvir Consulting

- Questions
- Discussion
- Contact info:
  - Kapil Kulkarni
  - EV Program Manager
  - Burbank Water and Power
  - kkulkarni@burbankca.gov
  - 818-238-3792