#### Presentation:

## **EV Charging: Parking and Ground Access**

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Presented before Colorado Airport Operators Association June 9, 2022



# Who are the potential customers and what are their needs?

+Public parkers

+Employees

+Commercial ground transportation

#### **Public Parkers**

## Short -term

- + Parked for under 2 hours
- + Parking duration likely shorter than required charge time, unless you have Level 3 chargers
- + Likely a "nice to have" amenity
- + Likely not to move the needle on buying an EV

#### Longterm

- + Parked for multiple days
- Parking duration likely significantly longer than required charge time
- + Likely a "nice to have" amenity
- + Likely not to move the needle on buying an EV



Source: Duncan files

#### **Public Parkers**

- + Demand reflects EVs in local market
- + Power cost
  - Free?
  - Cheaper than they can get at home or work?
- + Can incorporate into a premium product, such as valet or pre-reserved parking
- + How to maximize charger use
- + Balance of demand vs capacity for EV spaces



Source: Duncan files

## **Employee Parker**

- + Parked for up to 10 hours or for multiple days (flight crews)
- + Parking duration could match or exceed required charge time
- + Potential employment amenity, especially if power is free
- + Could move the needle on EV purchase
- + Should EV spaces be the most attractive or can they be used to distribute demand?



Source: LinkedIn

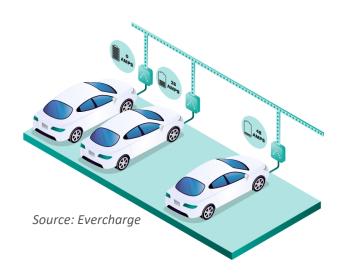
## **Commercial Ground Transportation**

- + Parked for under 2 hours (hopefully less)
- + Parking duration likely shorter than required charge time, unless you have Level 3 chargers
- + May encourage drivers to hang out at airport instead of working elsewhere
- + Power cost needs to be competitive with other charging options



Source: Plataforma

#### **Other Considerations**



- + Consider strategies to load-balance and purchase power when most economical
- + What can your utility deliver?
- + What are the ongoing O&M costs including renewal and replacement?
- + With increasing demand for power campus-wide, if power delivery capacity is limited, who has priority?

# **THANK YOU**

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