



June 27th, 2022 Meeting

Backup Materials

Contents:

- Presentation: *Advancing Electric Vehicles in the City of Fort Lauderdale – Challenges and Opportunities {Sandy Leonard and Drew Newstrom Fort Lauderdale Fleet, Alessandra Stivelman, Esq. and Amy Dobrikova, Vice President of Fleet Solutions Blink Charging}*

Advancing Electric Vehicles in the City of Fort Lauderdale – Challenges and Opportunities

*Sustainability Advisory Board Presentation
June 27, 2022*

[Sandy Leonard and Drew Newstrom Fort Lauderdale Fleet, Alessandra Stivelman, Esq. and Amy Dobrikova, Vice President of Fleet Solutions Blink Charging]




1

Opportunities:

- Townhomes, apartments, and condos to offer EV Chargers
- Public EV Parking
- City install EV infrastructure

Challenges:

- Storm events
- Electrical grid
- Take home vehicles
- Large trucks and their strain on the grid
- Public Implementation



2


Current Florida Law F.S. 718.113(8)

Association cannot “prohibit” installation in Limited Common Element parking space, or Exclusively Designated Parking area but may require:

- Absence of irreparable damage to the condo property
- Electricity to be separately metered
- Unit Owner responsibility (and subject to assessment) for the cost of “installation, operation, maintenance, and repair, including hazard/liability insurance” and removal costs
- Compliance with building codes and safety standards
- Compliance with architectural standards
- Engagement of licensed electrical contractor/engineer
- Certificate of Insurance naming Association as additional insured
- Reimbursement of increase on Association’s insurance due to station


BOTTOM LINE

It’s “game on” for EVs, but the Association can set the terms




3

Recent Change in law – allowing EV charging in common areas w/out owner approval:



718.113 (9) The board of administration of an association may make available, install, or operate an electric vehicle charging station or a natural gas fuel station upon the common elements or association property and establish the charges or the manner of payments for the unit owners, residents, or guests who use the electric vehicle charging station or natural gas fuel station.


For the purposes of this section, the installation, repair, or maintenance of an electric vehicle charging station or natural gas fuel station under this subsection does not constitute a material alteration or substantial addition to the common elements or association property.



4

Challenges for community associations:


- Capacity of electrical grid in older buildings
- Availability of parking spaces (common areas/guests spaces or assigned spaces)
- Cost of installation and/or EV charging station
- Law is not clear on who is responsible to upgrade Association’s electrical grid if owner demands installation of EV charging in assigned parking space (See *Aymar Revocable Trust, Ayleen Pereyra as Trustee v. Admiralty Towers Condominium Association, Inc.*, Arb. Case No. 21-05-7846, Final Order of Dismissal (December 22, 2021) – DBPR dismissed due to lack of jurisdiction finding that even if the Association was required to pay for the upgrade, it would ultimately be required to assess all of the unit owners to pay for such improvement, and as such, there is no jurisdiction in arbitration for disputes involving the levy of a fee or assessment.
- No state/local incentives for installation of EV chargers
- Very fast increase in demand
- Permitting process – delays and long waiting time
- Availability of vendors/contractors/electricians
- All other issues facing associations given legislative changes (inspections/reserves/insurance)



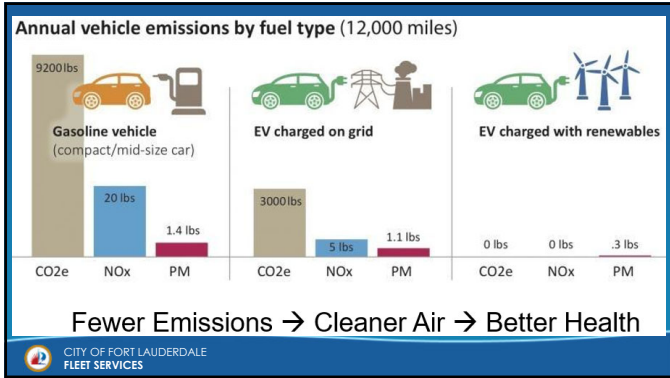
5

How to address challenges:

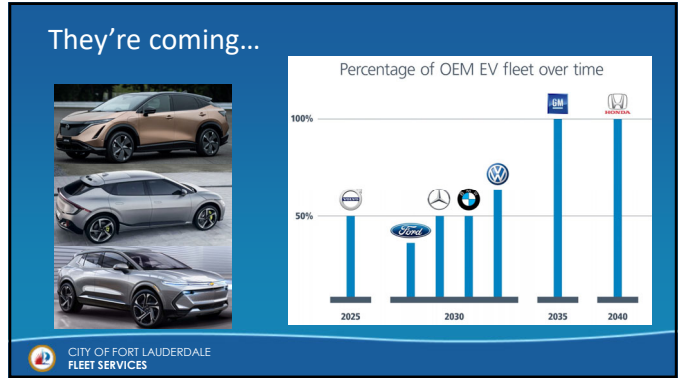
- EDUCATION, EDUCATION, EDUCATION
- FINANCIAL INCENTIVES (grants/rebates/tax incentives)
- Amenity to community/owners
- Availability of Vendors (contractors, electricians, EV charging vendors)
- Allowing EV charging stations to be included in calculation for minimum required parking spaces in development
- New construction incentives (or requirements) of GREEN measures – i.e., Quincy, WA gave 10% density credit for incorporating “solar design, electric vehicles and other energy saving alternatives”
- Increase in property value for community units/lots



6



7



8

Current Fleet EV's

- The City currently has 4 EV's
 - Used as loaner vehicles
 - More than 60k miles driven

CITY OF FORT LAUDERDALE FLEET SERVICES

9

Vocational Vehicles

Available early 2022.

CITY OF FORT LAUDERDALE FLEET SERVICES

10

Current Charging Locations

Location	Chargers
Las Olas Garage	6
Fleet	4
Mills Pond	4
Fivesash PW Admin	3
Arts & Ent. Garage	2
City Hall	2
CMS	2
DSD	2
Fire Station 2	2
FXE	2
PACA	2
Riverwalk Center	2
Beach	1

CITY OF FORT LAUDERDALE FLEET SERVICES

11

Types of Chargers

Level	Range	Application
Level 1	2 to 5 miles of range per hour	<ul style="list-style-type: none"> Single Family Homes Multi-Unit Residential Condos
Level 2	10 to 30 miles of range per hour	<ul style="list-style-type: none"> Single Family Homes Multi-Unit Residential Workplace Fleet Public
Level 3 (Direct Current Fast)	150 to 350+ miles of range per hour	<ul style="list-style-type: none"> Fleet Public Multi-Unit Residential

- 120V outlet
 - 1.6kW
 - 240V circuit
 - 3.3kW – 19.2kW
 - 480V or higher
 - 50kW or higher

CITY OF FORT LAUDERDALE FLEET SERVICES

12

Example Level 2 Charger Installation Cost

	Cost	Qty.	Total
EV Charger	\$ 989	2	\$ 1,978
Pedestal	\$ 938	1	\$ 938
Wiring	\$8 / ft.	100	\$ 800
Trenching	\$8 / ft.	50	\$ 400
Labor	\$100/hr.	24	\$ 2,400
Cement work	\$ 200	1	\$ 200
Panel Upgrade	\$ 2,500	0	\$ -
Total			\$ 6,716

CITY OF FORT LAUDERDALE
FLEET SERVICES

13

CIP Request Submitted

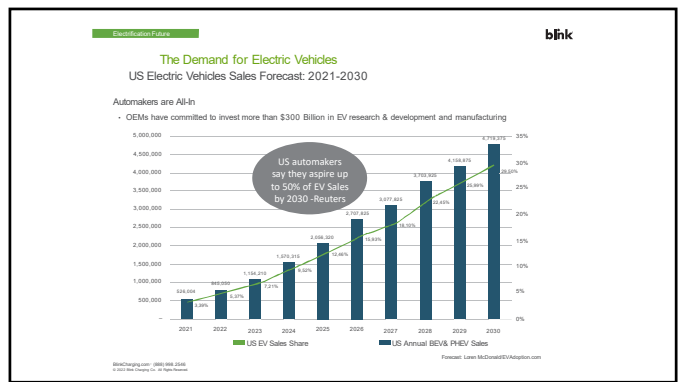
- Fleet submitted a CIP request for \$100,00/yr for next 5 years with a goal to:
 - Install chargers throughout the City Facilities

CITY OF FORT LAUDERDALE
FLEET SERVICES

14

blink
EV Charging Solutions
CITY OF FORT LAUDERDALE
www.BlinkCharging.com

15



16

Every Parking Space is an Opportunity

Blink EV Charging hosts include some notable business and community leaders.


blink

17

Blink Product Overview

Blink Family of Products


HQ 200
Home Charging
50 amp Level 2 Wall Mounted Home Charger




IQ 200
Public Charging
80 amp Wall, Pedestal, or Pole Mounted Commercial Level 2 Charger



MQ 200
Fleet & Multi Family Charging
50 amp Fleet Level 2 unit, charge up to 20 vehicles on a single circuit



DC Fast Charging
Highway Corridors
From 50-350kW Options, High Performance Fast Charging Meets 5'x10' Footprint



Easy installation indoors or outdoors with included NEMA 14-50P plug

www.BlinkCharging.com • 888.486.2266

19

blink

—
CHARGE ON!
—


Amy Dobrikova
755.617.8614
adobrikova@blinkcharging.com

NASDAQ:BLNK
405 Lincoln Road, 5th Floor
Miami Beach, FL 33139
www.BlinkCharging.com



21

Questions?



CITY OF FORT LAUDERDALE
FLEET SERVICES

22