

PARKING COMMITTEE AGENDA

Parking Committee - Wednesday, March 9, 2022 - 9:00 a.m.

City Hall - 2nd Floor Conference Room, 100 North U.S. #1, Fort Pierce, Florida

1. **CALL TO ORDER**

2. **ROLL CALL**

3. **APPROVAL OF MINUTES**

- a. Approval of Minutes from the December 8, 2021 Meeting

4. **COMMENTS FROM THE PUBLIC**

Any person who wishes to comment on any subject on this Agenda may be heard at this time. Please limit your comments to no more than five (5) minutes, as this section of the Agenda is limited to thirty minutes. The Parking Committee will not be able to take any official action under "Comments from the Public" section.

5. **OLD BUSINESS**

- a. Walker Consultants Scope of Work Update by Staff

6. **NEW BUSINESS**

- a. EV Charging Station Program
- b. Courthouse Parking
- c. Temporary Parking Solution - FEC Parking Lot
- d. City Hall Parking Garage Configuration

7. **COMMITTEE AND STAFF COMMENTS**

8. **ADJOURNMENT**

In accordance with the Americans with Disabilities Act and Section 286.26, Florida Statutes, persons with disabilities needing special accommodation to participate in this meeting should contact the City Clerk's Office at (772) 467-3065 at least 48 hours prior to the meeting.

Parking Committee Meeting

Meeting Date: March 9, 2022

Re: Minutes

Submitted For: Audria Moore-Wells, Special Projects Coordinator, City Manager

Information

SUBJECT:

Approval of Minutes from the December 8, 2021 Meeting

Attachments

December Minutes

MINUTES OF A MEETING OF THE PARKING COMMITTEE OF THE CITY OF FORT PIERCE, FLORIDA, HELD IN THE 2ND FLOOR CONFERENCE ROOM, 100 NORTH U.S. #1, FORT PIERCE, FLORIDA, AT 9:00 A.M. ON WEDNESDAY, **DECEMBER 8, 2021.**

1. CALL TO ORDER

2. ROLL CALL

Present: Dan Cushman; David Bushea; Gus Gutierrez; Anton Kreisl; Doris Tillman; Michael Broderick

Absent: Marvin Grimsley

Staff Present: Audria Moore-Wells, Special Projects Coordinator

3. APPROVAL OF MINUTES

a. Approval of Minutes from the November 11, 2021 Meeting

Motion was made by Dan Cushman and seconded by Anton Kreisl

AYE: David Bushea, Gus Gutierrez, Doris Tillman, Michael Broderick
Passed

4. COMMENTS FROM THE PUBLIC

Any person who wishes to comment on any subject on this Agenda may be heard at this time. Please limit your comments to no more than five (5) minutes, as this section of the Agenda is limited to thirty minutes. The Parking Committee *will not* be able to take any official action under "Comments from the Public" section.

5. OLD BUSINESS

a. Finalizing the Scope of Work

The Parking Committee finalized their recommendations that would go before the City Commission at the January 2022 Conference Agenda Meeting. They completed the review of the Walker Consultants Scope of Work and this is for the Walker group to conduct a parking needs analysis of downtown.

Board member Gus Gutierrez made a motion to have walker Consultants submit progress reports in 3 phases. This was motion was seconded by David Bushea.

6. NEW BUSINESS

7. COMMITTEE AND STAFF COMMENTS

8. ADJOURNMENT

Parking Committee Meeting

Meeting Date: March 9, 2022

Re: EV Charging Station Program

Submitted For: Audria Moore-Wells, Special Projects Coordinator, City Manager

Information

SUBJECT:

EV Charging Station Program

Attachments

EV Charging Station PP

No Cost | No Risk EV Charging Station Program



DRIVING DECARBONIZATION

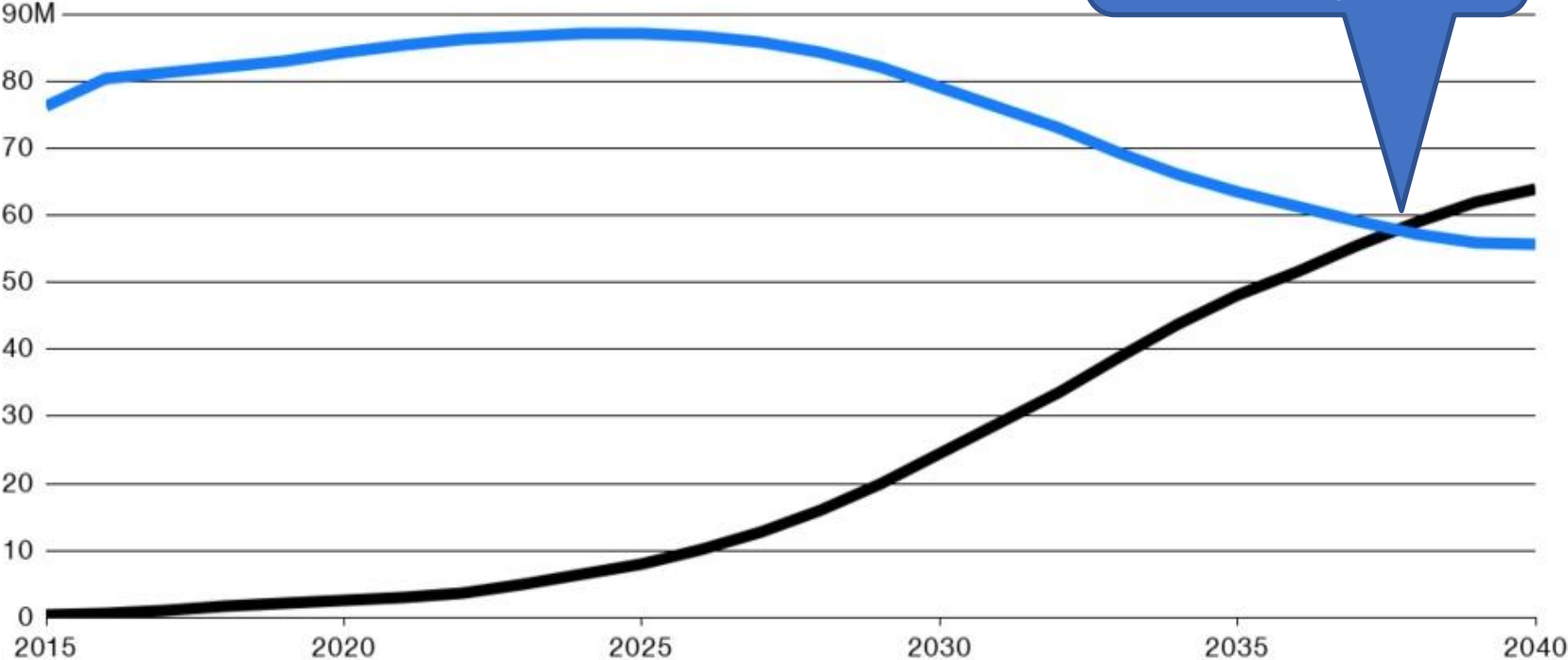
EV Trends

Overtaking Lane

Electric vehicle sales will surpass internal combustion engine sales by 2038

■ Electric vehicles ■ Internal combustion engine

EV Sales Will Overtake Gas Cars in 2038

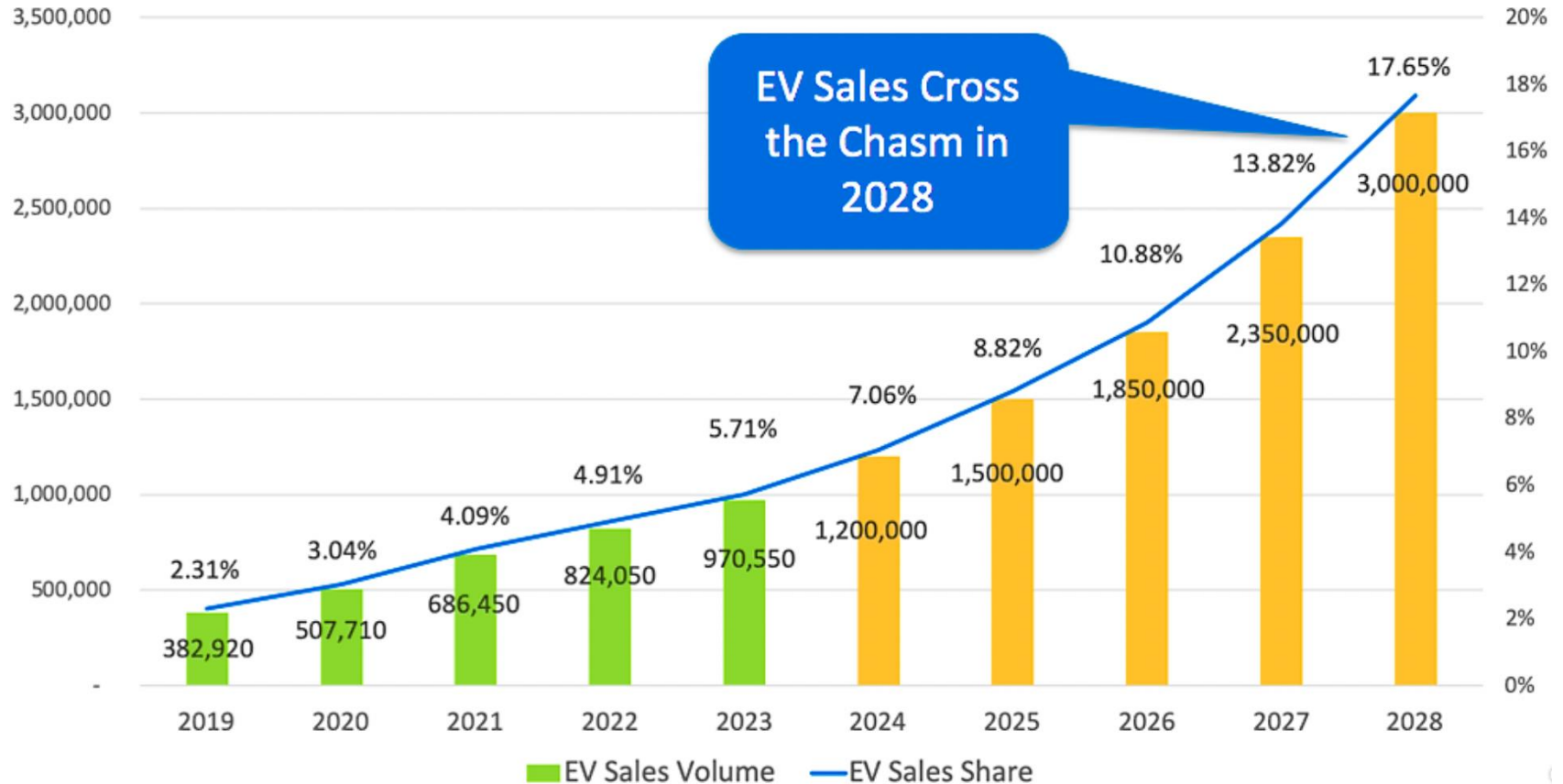


Source: Bloomberg New Energy Finance

EV Mass Adoption

US Electric Vehicle Sales Forecast: 2019-2028

Forecast & Chart: Loren McDonald/EVAdoption.com



EV OEM Market

General Motors plans to exclusively offer electric vehicles by 2035

Volvo Cars to go all electric

Hyundai Unveils EV Platform, Will Have 23 Global Electric Vehicles by 2025

Nissan wants all new car models to be electric by early 2030s, carbon neutrality by 2050

Volkswagen significantly raises electric car production forecast for 2025

Jaguar Land Rover announces electric car investment

BMW plans to double battery electric car sales this year

7 New Cars Coming in Ford's Electric Vehicle Push

Kia teases new electric crossover, details seven-year EV plan

Subaru's first electric model to drop in 2021

"Fastest car ever": Musk says Tesla Model S Plaid now in production

PORSCHE VOWS HALF OF ITS NEW LUXURY VEHICLES WILL BE ELECTRIC BY 2025

Audi announces an acceleration of its electric vehicle investments to \$12 billion through 2025

Free EV Charger Program Summary

- No Cost – No Risk
- Receive Monthly Rental Income
- Profit Sharing
- Level 2 and DCFC (Fast Charger) Stations
- Free Upgrades and Expansions
- Meet Sustainability & Carbon Reduction Goals
- Co-Branding
- A Complete Turn-Key Solution
- Electric Vehicle Leases



XYZ Company Example

\$874,000 Revenue Potential Over 20 Years

Charger Type	Number of Charging Stations	Monthly License Fee	Annual Fixed Revenue	Bonus @ 20% Utilization	Total Annual Revenue	20-year Cumulative
Level 2	39	\$20	\$9,360	\$8,775	\$18,135	\$362,700
DCFC 24kW	9	\$25	\$2,700	\$3,375	\$6,075	\$121,500
DCFC 180kW	10	\$100	\$12,000	\$7,500	\$19,500	\$390,000
Total	58	\$145	\$24,060	\$19,650	\$43,710	\$874,200

14 Charging Station Locations Across the City



XYZ Company Example

\$4,023,976 Cost Savings

The total cost savings including the charging stations, electrical equipment, initial construction, maintenance and networking fees over ten years.

Charger Type	Number of Charging Stations	MSRP	Op. Costs 10-years	Estimated Installation Costs	Total Costs
Level 2	39	\$320,190	\$594,984	\$468,000	\$1,383,174
DCFC 24kW	9	\$152,730	\$304,002	\$405,000	\$861,732
DCFC 180kW	10	\$595,410	\$457,380	\$650,000	\$1,702,790
Total	58	\$1,068,330	\$1,356,366	\$1,523,000	\$3,947,696
Existing Level 2	10	n/a	\$76,280	n/a	\$76,280
10 Yrs. Total		1,068,330	\$1,432,646		\$4,023,976



About Us

Energy Management Solutions (EMS)

- Independent Provider of Energy Management Products & Services
- Identify, prioritize, and implement strategies that will conserve energy, lower utility bills, and improve clients' bottom line
- EV Charging Stations | Supply Solutions | Rebates & Incentives | Demand Solutions | Renewable Energy | Environmental Attributes | etc..
- Founded in 1998. Headquartered in Minneapolis
- Offices in Columbus and Tampa



Carbon Solutions Group (CSG)

- Owner/Operator of Distributed Energy Assets – Solar, Battery Storage and Electric Vehicle Charging Stations
- Aggregator and Marketer of Distributed Energy Environmental Attributes – Renewable Energy Certificates & Carbon Offsets
- Founded in 2006. Headquartered in Chicago
- Offices in San Diego and Portland



Who We Work With



Low-Rate & Long-Term Approach

Expertise & Incentives

- Our EV infrastructure design and engineering expertise allow us to get it right the first time
- We incorporate multiple incentives including tax credits, accelerated depreciation, and low-carbon fuel standard incentives

Aggregate Revenue

- Our forward-looking approach centers on low rates, investing in partnerships, and engaging communities
- We generate revenue from charging a small markups on electricity and leveraging our knowhow in aggregating and monetizing carbon credits

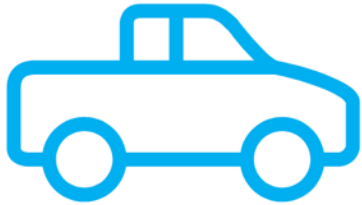


Recent work with Public Sector

- **City of Grand Terrace** | Completed project with rebates. Level 2 and DC fast charging stations.
- **City of Boulder** | Current project with rebates. 4 DC fast chargers
- **County of San Diego** | Current project. No rebates. 4 DC fast chargers
- **City of Anaheim** | Current project. No rebates. 2 DC fast chargers
- **City of Palm Springs** | Awarded contract. Up to 4 DC fast charging stations per site. 15 sites total. Potential rebates available.
- **City of Oakland** | Awarded contract. 2 DC fast charging stations in disadvantaged communities. Potential for community rideshare opportunity with fleet vehicles provided by CSG.



Zero-Emission Vehicle Market Strategy



100% of in-state sales of **new passenger cars and trucks** will be zero-emission by 2035.



100% of **off-road vehicles** and equipment will be zero-emission by 2035.



100% of **medium- and heavy-duty vehicles** in the State will be zero-emission by 2045 and by 2035 for drayage trucks.

EV Charger Program Property Owner Benefits



Eliminate risk and capital cost
of EV charging infrastructure



Eliminate electricity costs
for EV charging stations



Eliminate operating costs
including network fees,
maintenance, and upgrades



Advance scope 3 sustainability
objectives providing zero-CO2
electricity



Attract unique EV drivers
and creates new
marketing opportunities



Gain long-term revenue
streams from the EV
charging stations

San Clemente Project Commercial Shopping Center



- 45+ stores, 350,000 sq. ft. commercial space
- 10 EV Parking Spaces
- 6 universally compatible chargers installed
- Small charger footprint: 4.5 sq. ft.
- CSG managing entire project
- Infrastructure upgraded at no cost
- Dwell Time – Additional Revenues



Equipment: Level 2 Charging Station

ChargePoint CT4000 Dual Port 7.2 kW	
25 Miles of Range Per Hour (RPH)	✓
Electrical Input: 208/ 240V AC, (split phase, 240V AC, 30A per port)	✓
Electrical Output: 2 x 7.2 kW	✓
Remote Communication Software for Equipment	✓
Energy Star Certified	✓
Custom-Branding	✓
Network to Communicate Via Cellular Network	✓
24/7/365 Continuous Remote Monitoring and Diagnostic Updates	✓



Equipment: DC Fast Charging Station

ABB Terra DC Wallbox 24 kW	
85 Miles of Range Per Hour (RPH)	✓
Electrical Input: 150 - 920V AC, (single phase; 208V, 60A per port); (single phase; 240V DC, 60A per port)	✓
Electrical Output: 19.5 kW/22.5 kW	✓
Remote Communication Software for Equipment	✓
Energy Star Certified	✓
Custom-Branding	✓
Network to Communicate Via Cellular Network	✓
24/7/365 Continuous Remote Monitoring and Diagnostic Updates	✓



- Pedestal mounted option available*

Equipment: DC Fast Charging Station

ChargePoint CPE250 62.5 kW	
250 Miles of Range Per Hour (RPH)	✓
Electrical Input: 150 - 920V DC (three phase 408/277V)	✓
Electrical Input: 62.5 kW (400V AC, 3-phase, 96A, 50 Hz 480Y/277V AC, 3-phase, 80A, 60 Hz)	✓
Remote Communication Software for Equipment	✓
Energy Star Certified	In process
Custom-Branding	✓
Network to Communicate Via Cellular Network	✓
24/7/365 Continuous Remote Monitoring and Diagnostic Updates	✓



Installed & Pipeline Projects

Geographic Restrictions	Any State - Anywhere
Building Type Limitations	No Limitations - Corporate Buildings, Retail Locations, Distribution Centers and More
EV Market Presence	5 Years
EV Team	12 Dedicated Personnel
EV Equipment Locations	Fully Operational Chargers In California; Under Development Locations Include CO, IL, MN, OH, FL, VA, and WA
Clients	14 Fully Energized; 50+ Under Development
L2 EV Charging Stations	40 Fully Energized; 120 Under Development
DCFC EV Charging Stations	36 Fully Energized; 86 Under Development

CSG Project Management



Development Timeline

Phase	Weeks
License Agreement	2 - 8
Draft Design & Engineering	2 - 4
Utility Design	4 - 16
Permitting	4 - 16
Construction	4 - 8
Start to Completion	20 - 48 weeks

Additional Questions

Jody McDevitt
Director of Sales
Energy Management Solutions, Inc,
612-503-7169 mobile
jmcdevitt@emsenergy.com

