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# MEMORANDUM

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Date: March 5, 2020

To: The Honorable Chairman and Members  
Pima County Board of Supervisors

From: C.H. Huckelberry  
County Administrator 

Re: **Fleet Services Presentation Regarding Conversion of County Fleet to an Electric Fleet by Year 2025**

Fleet Services Director Ray Ochotorena has prepared the attached presentation regarding the expansion of electric vehicles in the County's fleet. The goal is to have all sedans and pickup trucks converted to electric vehicles by 2025. It is likely larger vehicles, including Sheriff's Patrol vehicles will not be converted to electric, but will become hybrid vehicles.

There continues to be significant benefits to the County fleet by this conversion through energy savings, zero direct carbon dioxide emissions as well as reduced repair and maintenance operational costs.

CHH/anc

Attachment

c: Jan Leshar, Chief Deputy County Administrator  
Ray Ochotorena, Director, Fleet Services

# Pima County Fleet Services

## Electrification of County Fleet

March 2, 2020



Pima County has set a goal of conversion to an electric light duty fleet by 2025. The electrification of the County fleet is in support of Pima County Climate Change Resolution 2017-39.

Implementation will require collaboration between Fleet Services and Facilities Management. The ordering/receiving of electric vehicles must be timed appropriately with availability of electric charging stations to ensure a successful transition.

### EV Implementation Challenges

- Location infrastructure to support L2 and L3 charging stations
- Electric vehicle model availability
- Department operational needs
- Education of County employees
- EV Policy adoption

# Electric Vehicle Implementation

## Phase One – Compact Class

Phase one of the electrification of the County fleet will focus on the compact vehicle class. Pima County has deployed 51 compact electric vehicles to County departments replacing fuel powered compact vehicles in the fleet. There are an additional 105 compact vehicles that will be replaced with electric vehicles per the schedule below.

FY20 – 26 EV's (18 deployed to date)

FY21 – 30 EV's

FY22 – 30 EV's

FY23 – 19 EV's

Fleet Services continuously monitors electric vehicle availability by the Automakers and will consider several factor such as cost, efficiency, reliability and safety ratings prior to procuring EV's.

# Electric Vehicle Implementation

## Phase Two – ½ Ton Pickup Truck Class

Phase two of the electrification of the County fleet will focus on the ½-ton pickup truck. Pima County currently has 154 ½-ton pickup trucks in the fleet, all will be replaced with the electric option.

The replacement schedule below is predicated on the release of the all electric Ford F-150 ½-ton pickup scheduled for 2021.

FY21 – 20 EV's  
FY22 – 30 EV's  
FY23 – 30 EV's  
FY24 – 40 EV's  
FY25 – 34 EV's

Fleet Services continuously monitors electric vehicle availability by the Automakers and will consider several factor such as cost, efficiency, reliability and safety ratings prior to procuring EV's.

# Electric Vehicle Deployment

Fifty-one compact electric vehicles deployed to date

Department	Count
Adult Probation	13
Community Services	1
Environmental Quality	1
Facilities Management	3
Fleet Services	1
Information Technology	1
Juvenile Court	8
Motor Pool	4
NRPR	4
Public Defense Services	3
Public Works Administration	1
RWRD	8
Sheriff	3

# EV Charging Infrastructure



# Electric Vehicle Charging Stations

Pima County currently has 38, Level 2, EV chargers throughout the County

Location	Address	EV Charger Count
A-Level Garage	130 W. Congress	3
B-Level Garage	130 W. Congress	16
Public Works Garage	150 W. Alameda	5
Conveyance - RWRD	3355 N. Dodge Blvd.	1
Tres Rios - RWRD	7101 N Casa Grande Hwy	1
ROMP - RWRD	2955 W. Calle Agua Nueva	1
Outlying - RWRD	4527 W. Walker Rd.	1
NRPR	3500 W. River Rd.	1
Juvenile Court	2225 E. Ajo Way	2
Adult Probation	2695 E. Ajo Way	4
Fleet Services	1291 S. Mission Rd.	1
Sheriff	1750 E. Benson Hwy.	2

# Future Electric Vehicle Charging Station Locations

Location	Address	EV Charger Count
Abrams Health Center	3950 S. County Club	10
Public Service Garage	38 E. Alameda St.	TBD
Mission Rd. Fuel Station	1301 S. Mission Rd.	1
Ina Rd. Fuel Station	4901 W. Ina Rd.	1
Green Valley Fuel Station	601 N. La Canada Rd.	1
Houghton Rd. Fuel Station	4700 S. Houghton Rd.	1
Mt. Lemmon		1
Ajo, Az.		1

# TEP Charging Pilot Program

## County Benefit

- \$90,000 maximum funding for purchase of EV Chargers

## TEP Requirements

- New service at site
- Data sharing
- Marketing and charger wrapping

# Backup

Chevy Bolt Ground Clearance 7.4”  
Toyota Prius Ground Clearance 5.1”



Chevy Bolt – Fleet cargo option  
66ft<sup>3</sup> cargo space

